

TEST REPORT

Reference No...... : WTD26D01015003W003
FCC ID : 2BRXS-H02
Applicant..... : Ohdoki AS
Address..... : Lilletorget 1, 0184 Oslo, Norway
Manufacturer : Widelite Products (Dongguan) Limited
Address..... : Room 302, No.6 Zhenglong First Road XIngan Community,
Changan Town Dongguan GuangDong
Product..... : Handy2.0
Model(s) : H02_Pro, H02
Brand Name..... : Handy
Standards..... : FCC 47CFR Part 15.247
Date of Receipt Sample : 2026-01-21
Date of Test : 2026-01-21 to 2026-03-05
Date of Issue..... : 2026-03-26
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:
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2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS.....	2
3 REVISION HISTORY.....	4
4 GENERAL INFORMATION.....	5
4.1 GENERAL DESCRIPTION OF E.U.T.....	5
4.2 DETAILS OF E.U.T.....	5
4.3 CHANNEL LIST.....	5
4.4 TEST FACILITY	6
4.5 SUBCONTRACTED.....	6
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
4.7 TEST MODE	7
5 TEST SUMMARY.....	8
6 EQUIPMENT USED DURING TEST.....	9
6.1 EQUIPMENTS LIST	9
6.2 DESCRIPTION OF SUPPORT UNITS.....	10
6.3 MEASUREMENT UNCERTAINTY	10
6.4 TEST EQUIPMENT CALIBRATION	10
7 DUTY CYCLE.....	11
8 CONDUCTED EMISSION	13
8.1 E.U.T. OPERATION.....	13
8.2 EUT SETUP	13
8.3 MEASUREMENT DESCRIPTION	13
8.4 CONDUCTED EMISSION TEST RESULT	14
9 RADIATED EMISSIONS	16
9.1 EUT OPERATION.....	16
9.2 TEST SETUP	17
9.3 SPECTRUM ANALYZER SETUP	18
9.4 TEST PROCEDURE.....	19
9.5 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	19
9.6 SUMMARY OF TEST RESULTS.....	20
10 CONDUCTED SPURIOUS EMISSIONS.....	148
10.1 TEST PROCEDURE	148
10.2 TEST RESULT	149
11 BAND EDGE MEASUREMENT	165
11.1 TEST PROCEDURE	165
11.2 TEST RESULT	166
12 6 DB BANDWIDTH AND 99% BANDWIDTH MEASUREMENT	170
12.1 TEST PROCEDURE	170
12.2 TEST RESULT	170
13 MAXIMUM CONDUCTED OUTPUT POWER	183
13.1 TEST PROCEDURE	183
13.2 TEST RESULT	183
14 POWER SPECTRAL DENSITY	191

14.1 TEST PROCEDURE191

14.2 TEST RESULT191

15 ANTENNA REQUIREMENT198

16 RF EXPOSURE198

17 PHOTOGRAPHS OF TEST SETUP AND EUT.....198

3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD26D01015003W003	2026-01-21	2026-01-21 to 2026-03-05	2026-03-26	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Handy2.0
Model(s):	H02_Pro, H02
Model Description:	Only the model names, battery and motor are different.
Test Sample No.:	1-1/1
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Hardware Version:	V1.0.4
Software Version:	4.0.18

4.2 Details of E.U.T.

Operation Frequency:	802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz
----------------------	--

Max. RF output power:	15.85dBm
Type of Modulation:	DSSS, OFDM
Antenna installation:	FPC Antenna
Antenna Gain:	1.57dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings: 20V=3.25A 65W

Battery: Rechargeable Li-ion Battery:
DC 14.4V, 3200mAh, 46.08Wh (With model H02_Pro)
DC 14.8V, 2000mAh, 29.6Wh (With model H02)

4.3 Channel List

Wi-Fi

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	-	-

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Mode

Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Conducted Output Power	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Power Spectral Density	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
6dB Bandwidth and 99% Bandwidth	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Band Edge	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Transmitter Spurious Emissions	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX

Note: Parameters set by test software during channel & power tests, the software provided by the applicant was used to set the operating channels as well as the maximum output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth and 99% Bandwidth	15.247(a)(2)	PASS
Maximum Conducted Output Power	15.247(b)(3), (4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
Conducted Emissions 1#						
1	EMI Test Receiver	R&S	ESCI	100947	2025-07-04	2026-07-03
2	LISN	R&S	ENV216	100115	2025-06-03	2026-06-02
3	Cable	Top	TYPE16(3.5M)	-	2025-06-03	2026-06-02
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-07-04	2026-07-03
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2025-04-19	2026-04-18
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2025-07-04	2026-07-03
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-04-19	2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
RF Conducted Testing						
1	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-07-04	2026-07-03

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64dB (AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor: k=2	

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

7 Duty Cycle

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
802.11b	100	100	1.00	100	0.00	0.00
802.11g	100	100	1.00	100	0.00	0.00
802.11n-HT20	100	100	1.00	100	0.00	0.00
802.11n-HT40	100	100	1.00	100	0.00	0.00

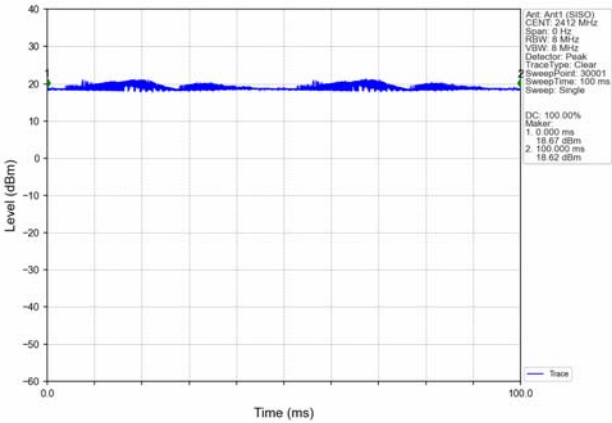
Remark:

Duty cycle=On Time/period;

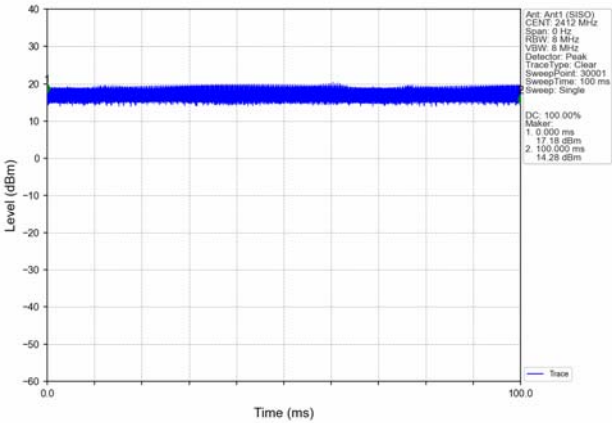
Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

Average factor= $20 \log_{10} \text{Duty cycle}$

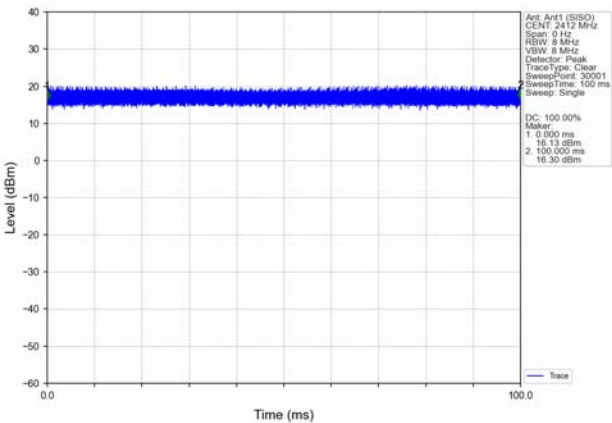
Wi-Fi 802.11b



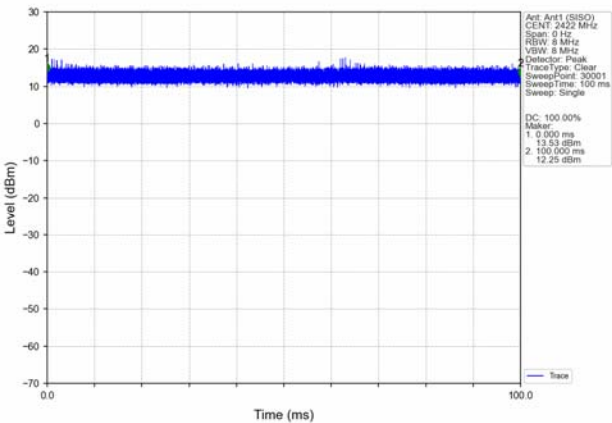
Wi-Fi 802.11g



Wi-Fi 802.11n-HT20



Wi-Fi 802.11n-HT40



8 Conducted Emission

Test Requirement: 47CFR FCC Part15 Subpart C §15.207
Test Method: ANSI C63.10-2020
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
*Decreases with the logarithm of the frequency.		

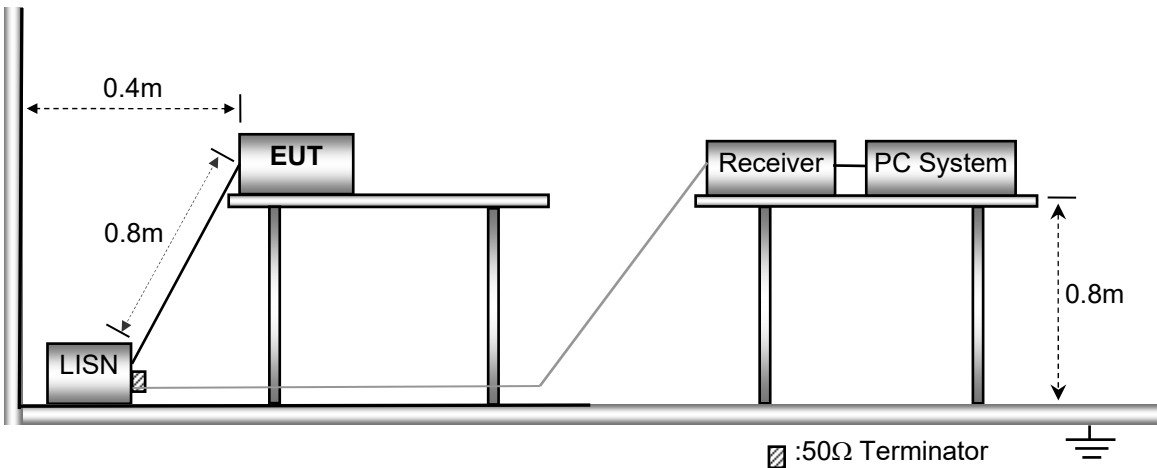
8.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5°C
Humidity: 40.1% RH
Atmospheric Pressure: 101.2kPa
EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



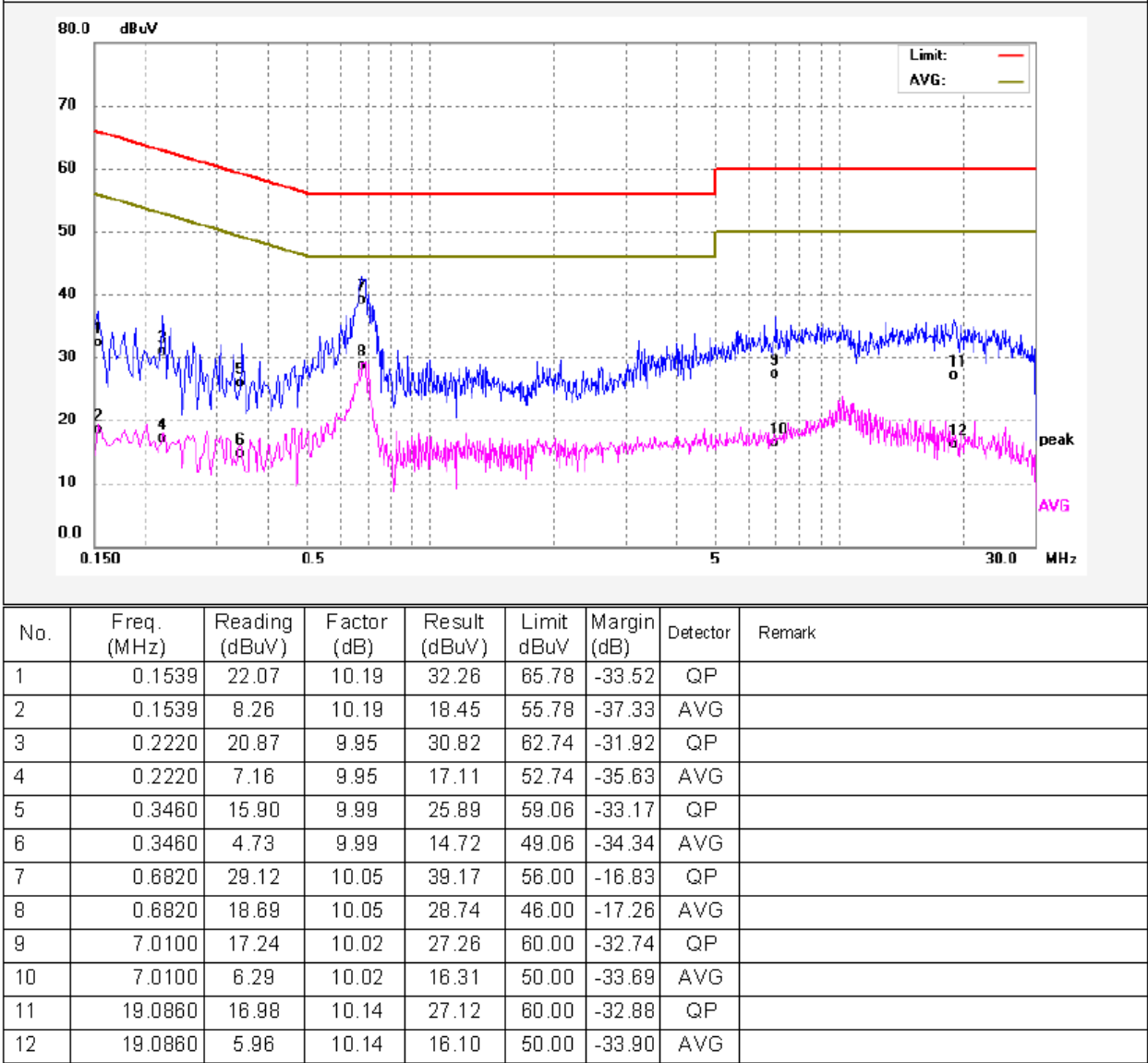
8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

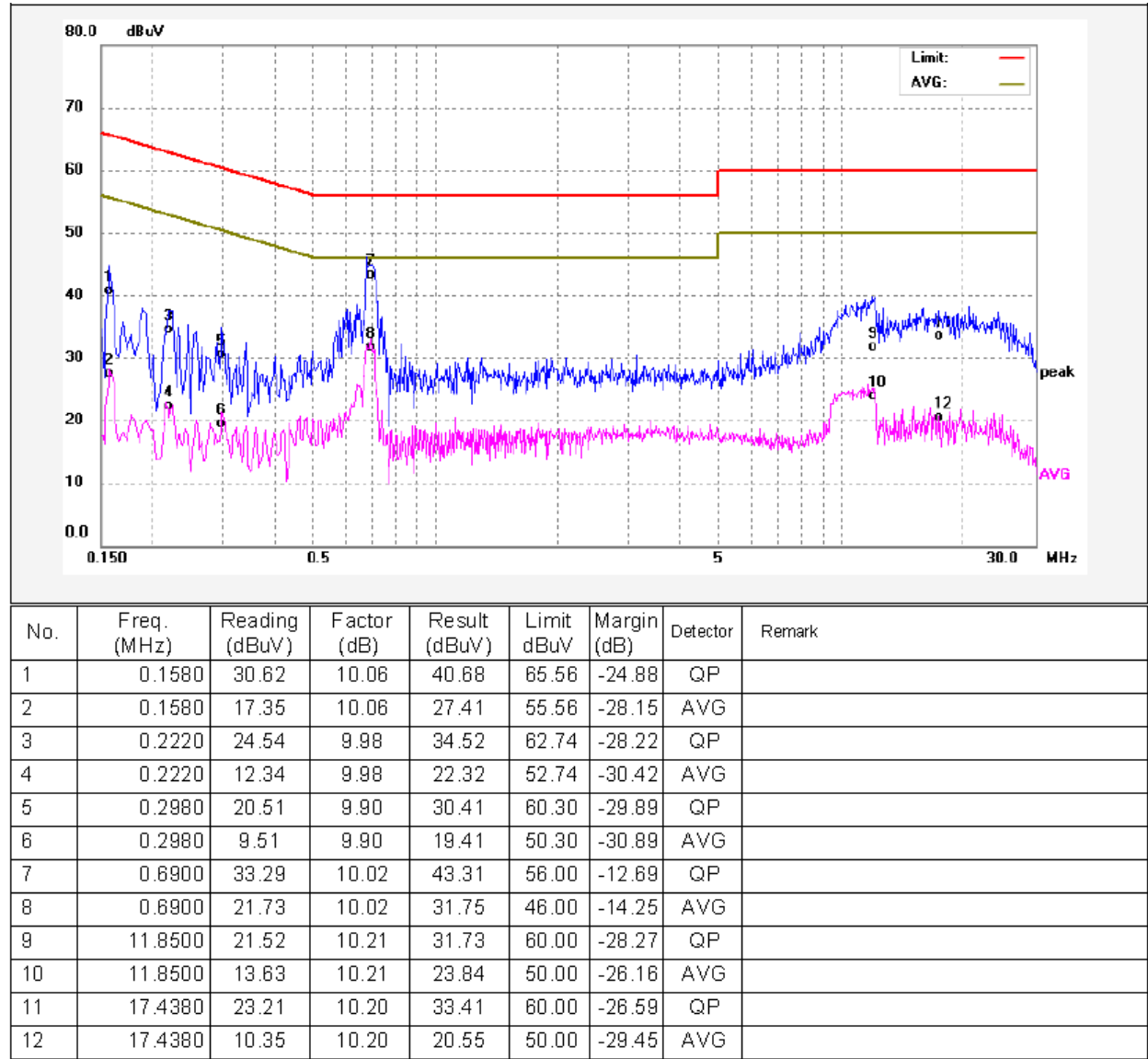
8.4 Conducted Emission Test Result

Remark: only the worst data (TX 11b mode High channel mode) were reported

Live line:



Neutral line:



9 Radiated Emissions

Test Requirement: 47CFR FCC Part15 Subpart C §15.209&15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019;
ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

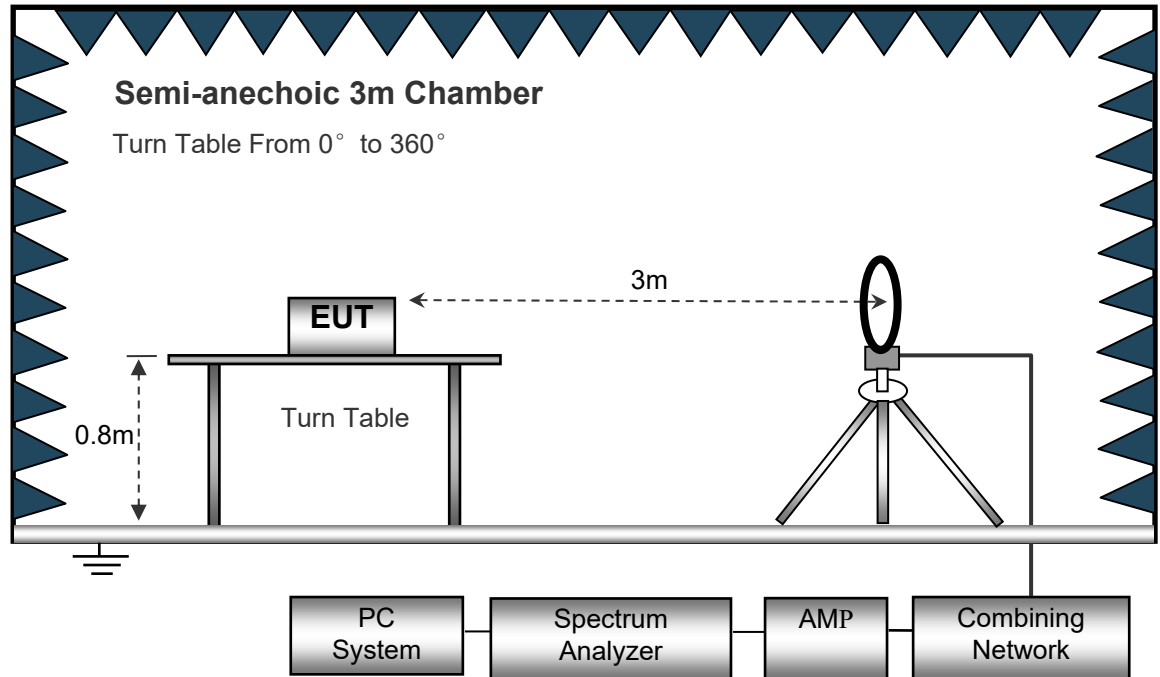
EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

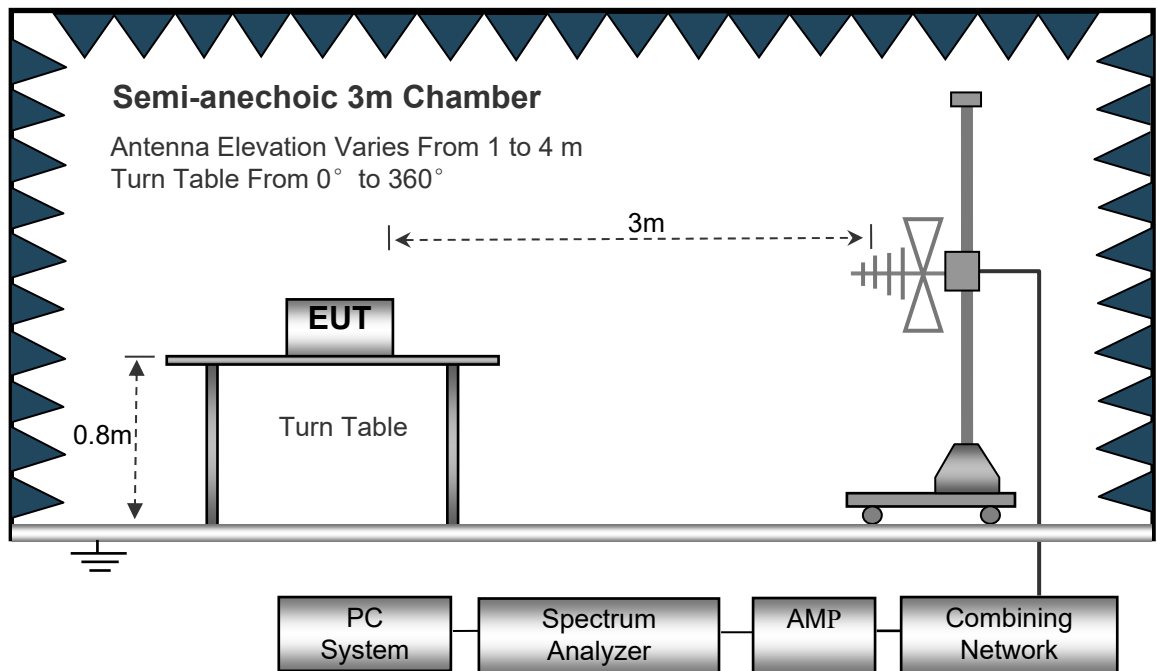
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

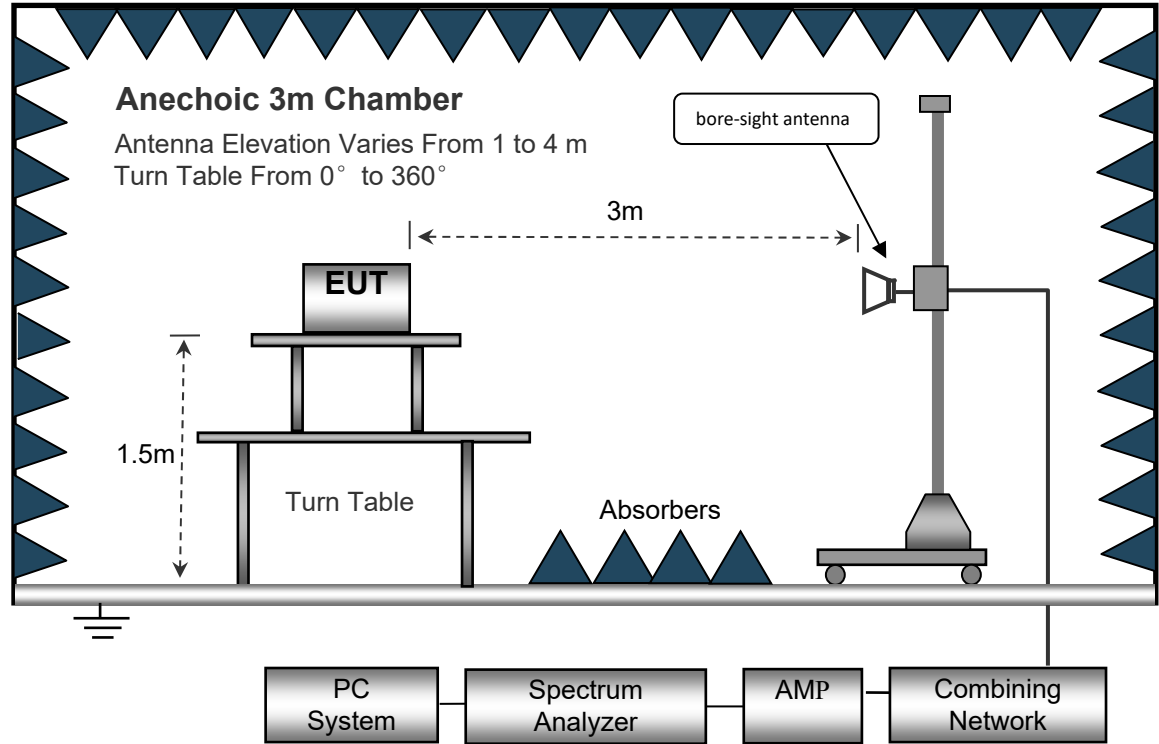
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

9.6 Summary of Test Results

Test Frequency: 9kHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

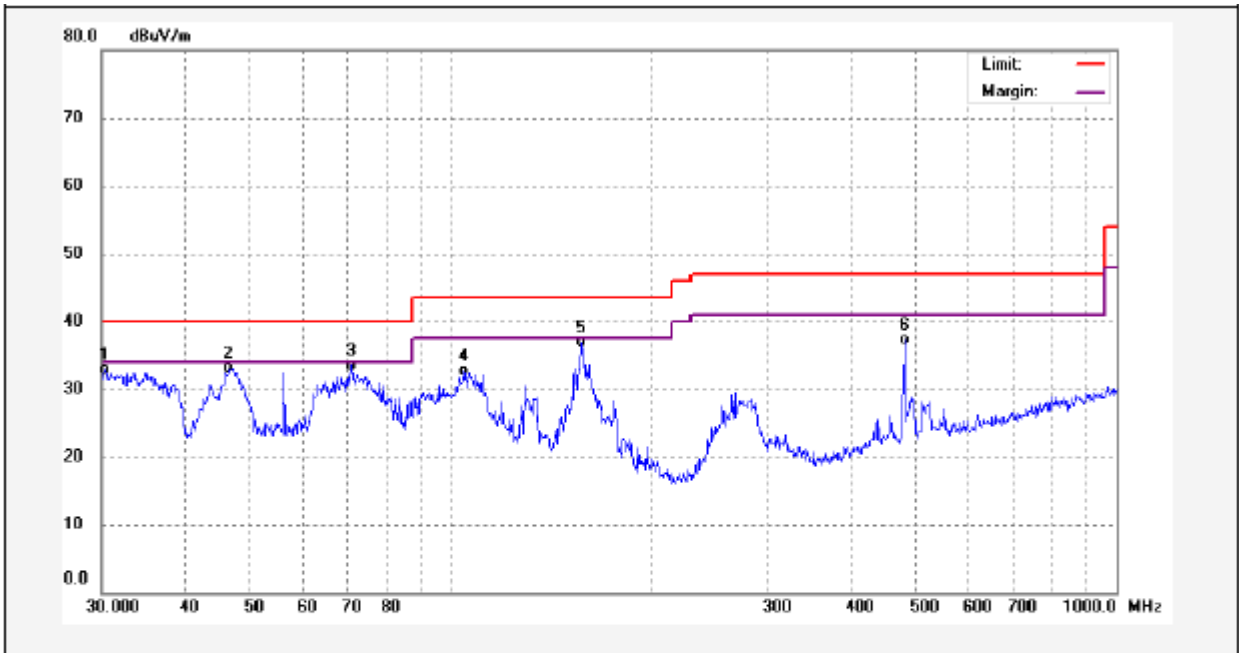
Test Frequency: 30MHz ~ 1GHz

Note: Only the worst-case 11b mode were record in the report.

Model: H02_Pro

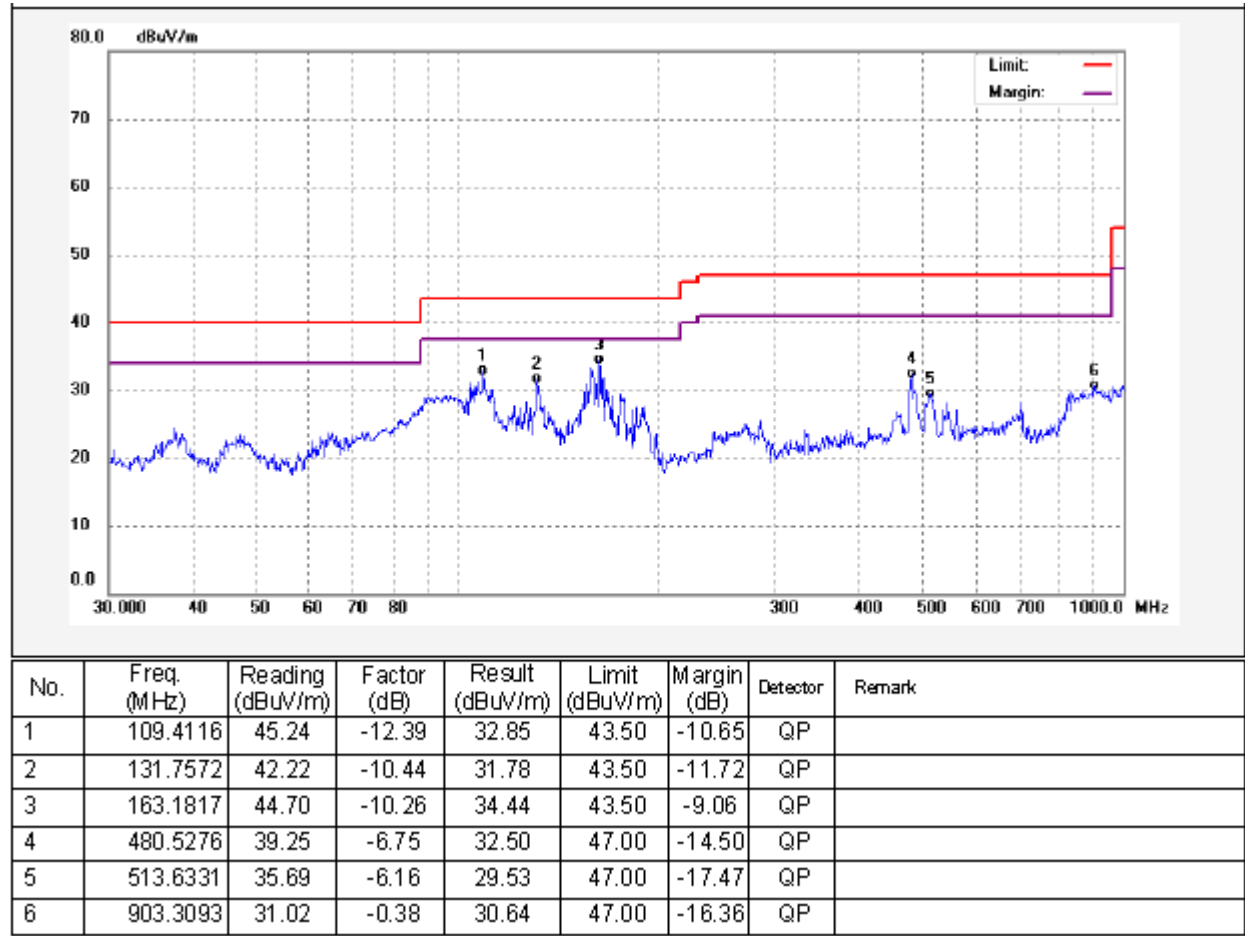
11b: Low

Antenna Polarization: Vertical



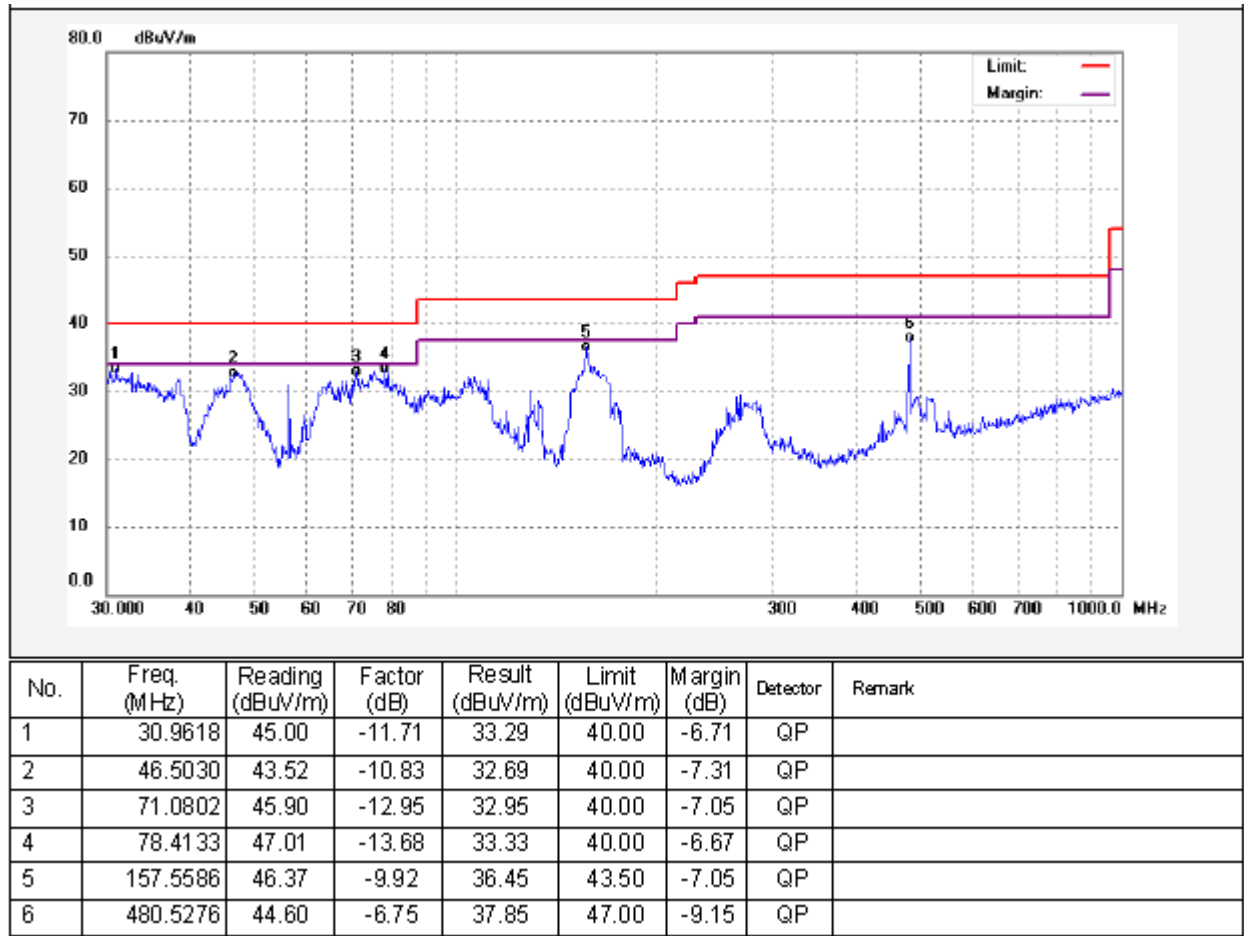
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.3170	44.59	-11.78	32.81	40.00	-7.19	QP	
2	46.5030	44.02	-10.83	33.19	40.00	-6.81	QP	
3	71.0802	46.40	-12.95	33.45	40.00	-6.55	QP	
4	104.5360	45.51	-12.82	32.69	43.50	-10.81	QP	
5	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
6	480.5276	44.10	-6.75	37.35	47.00	-9.65	QP	

Antenna Polarization: Horizontal

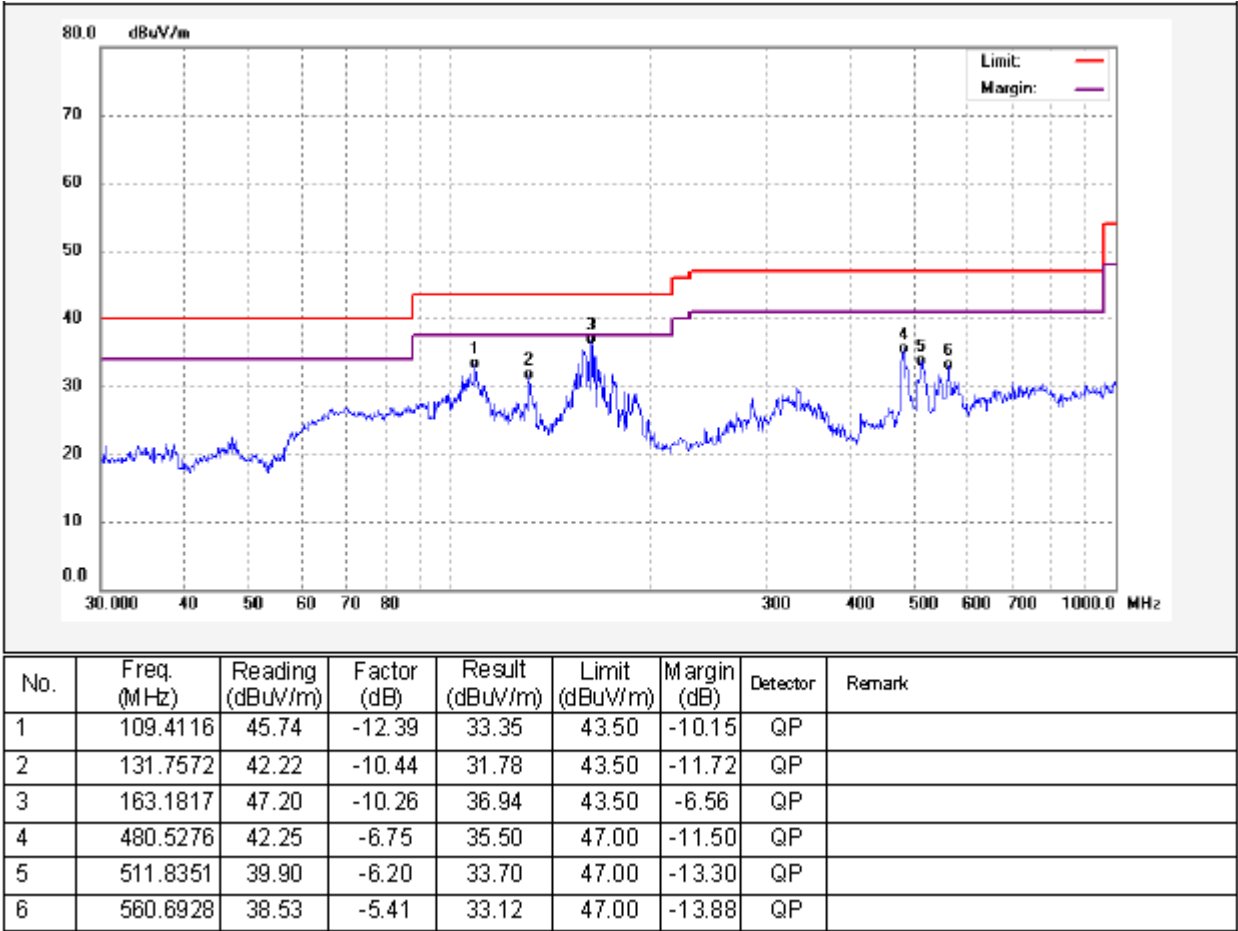


11b: Middle

Antenna Polarization: Vertical

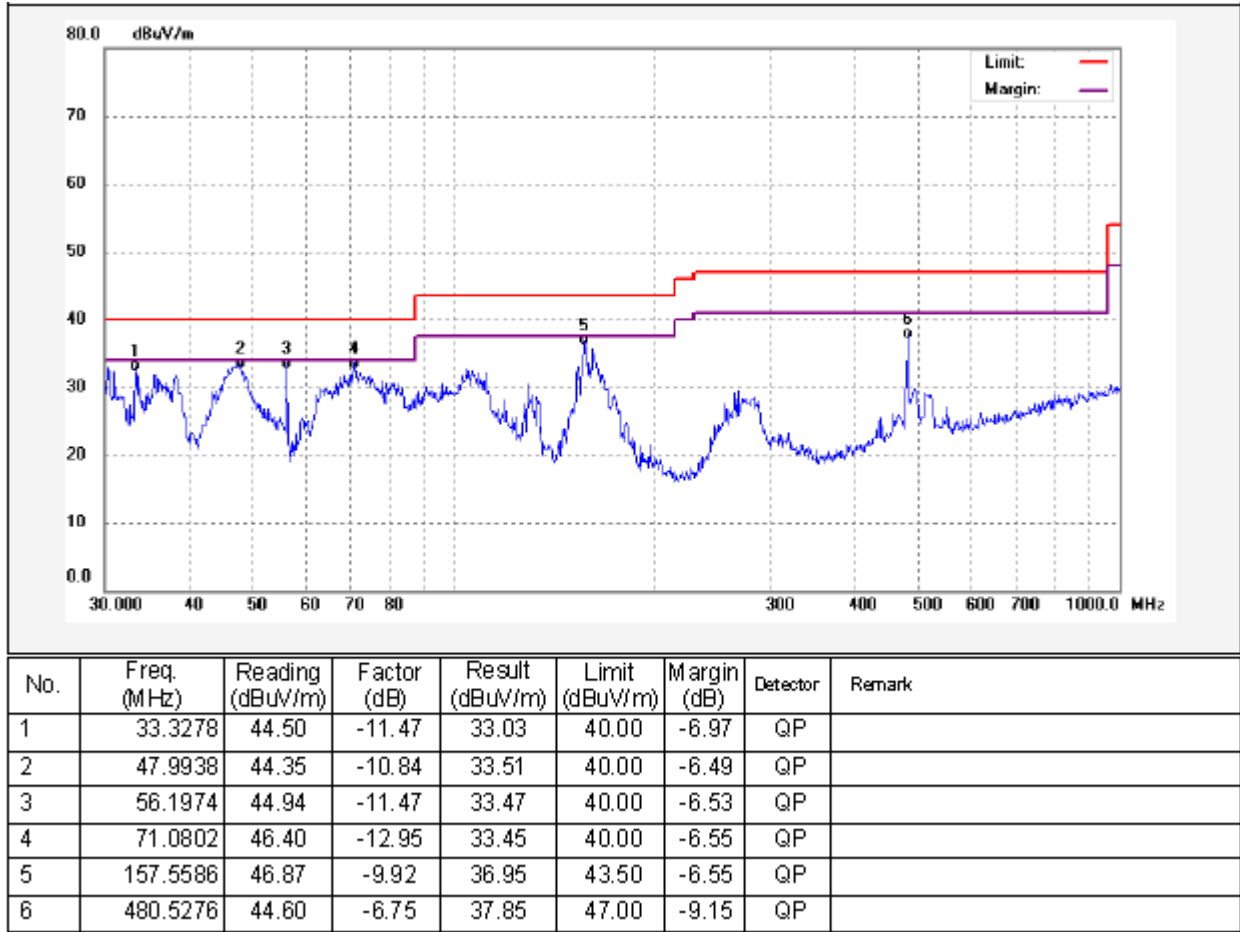


Antenna Polarization: Horizontal

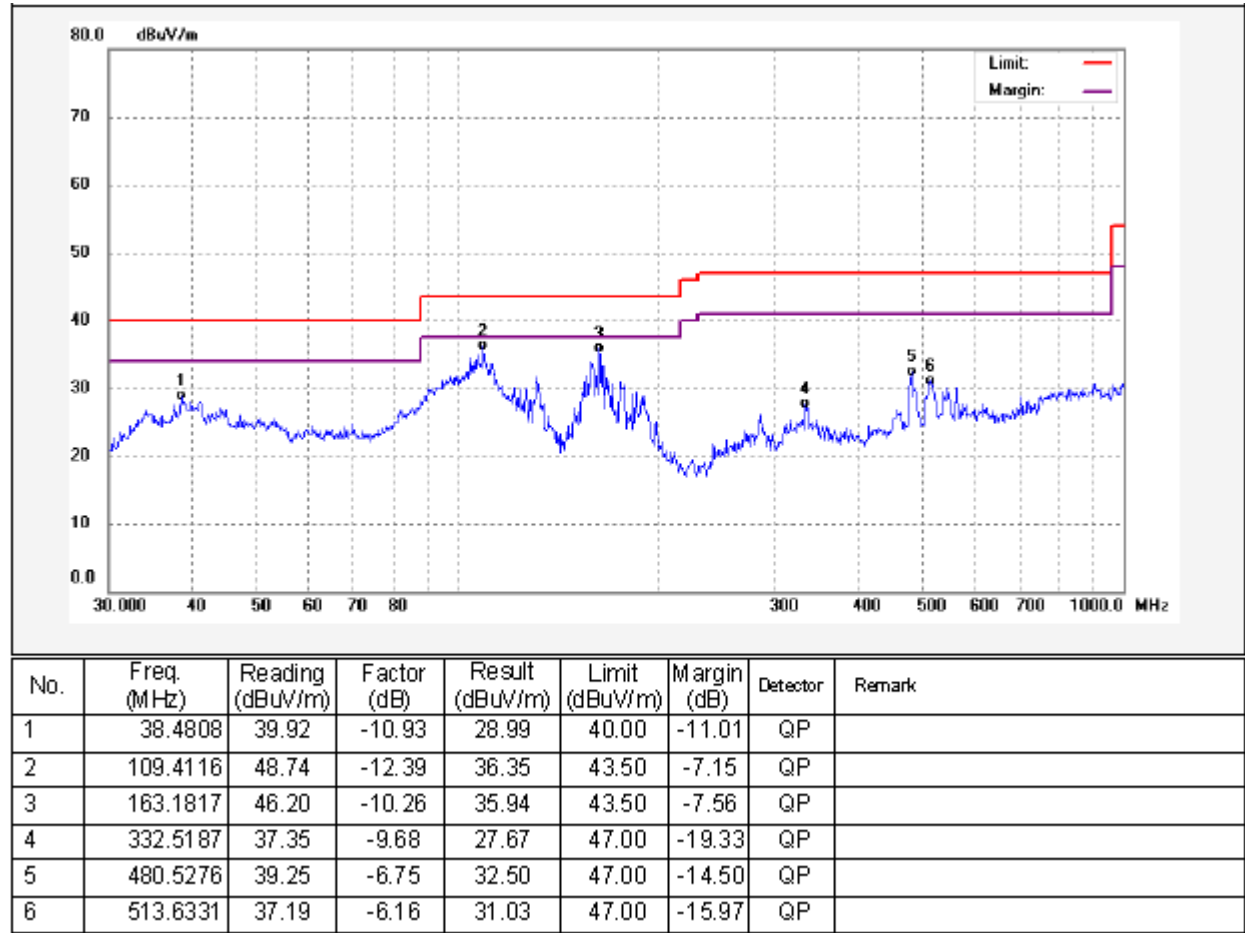


11b: High

Antenna Polarization: Vertical

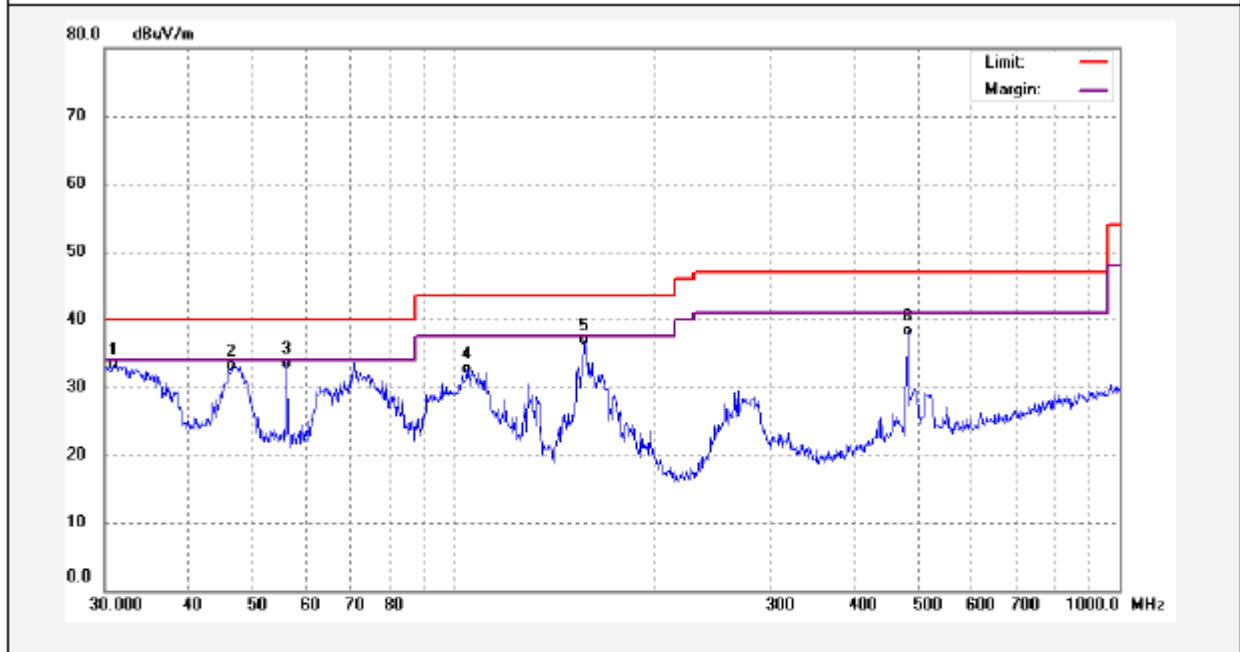


Antenna Polarization: Horizontal



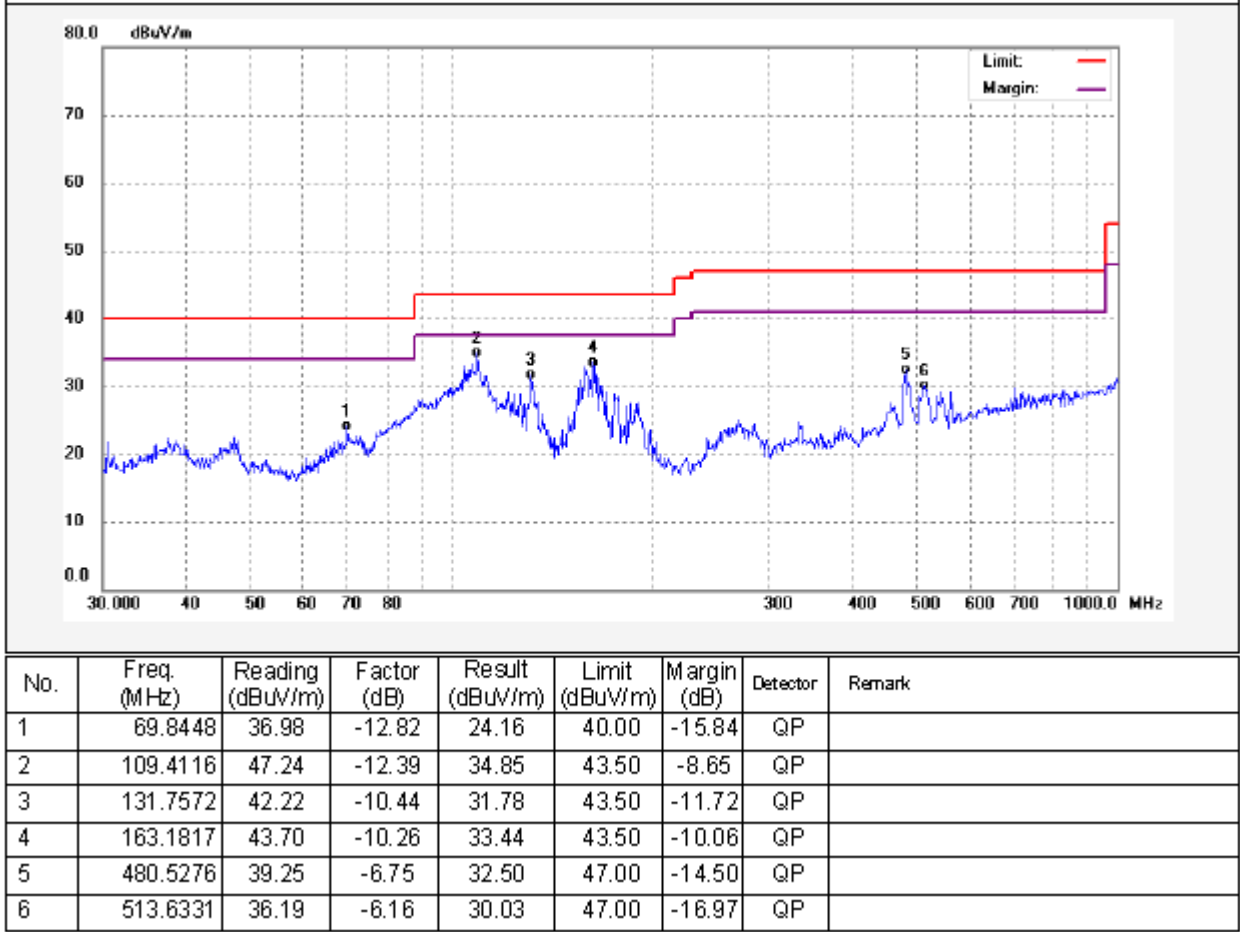
11g: Low

Antenna Polarization: Vertical



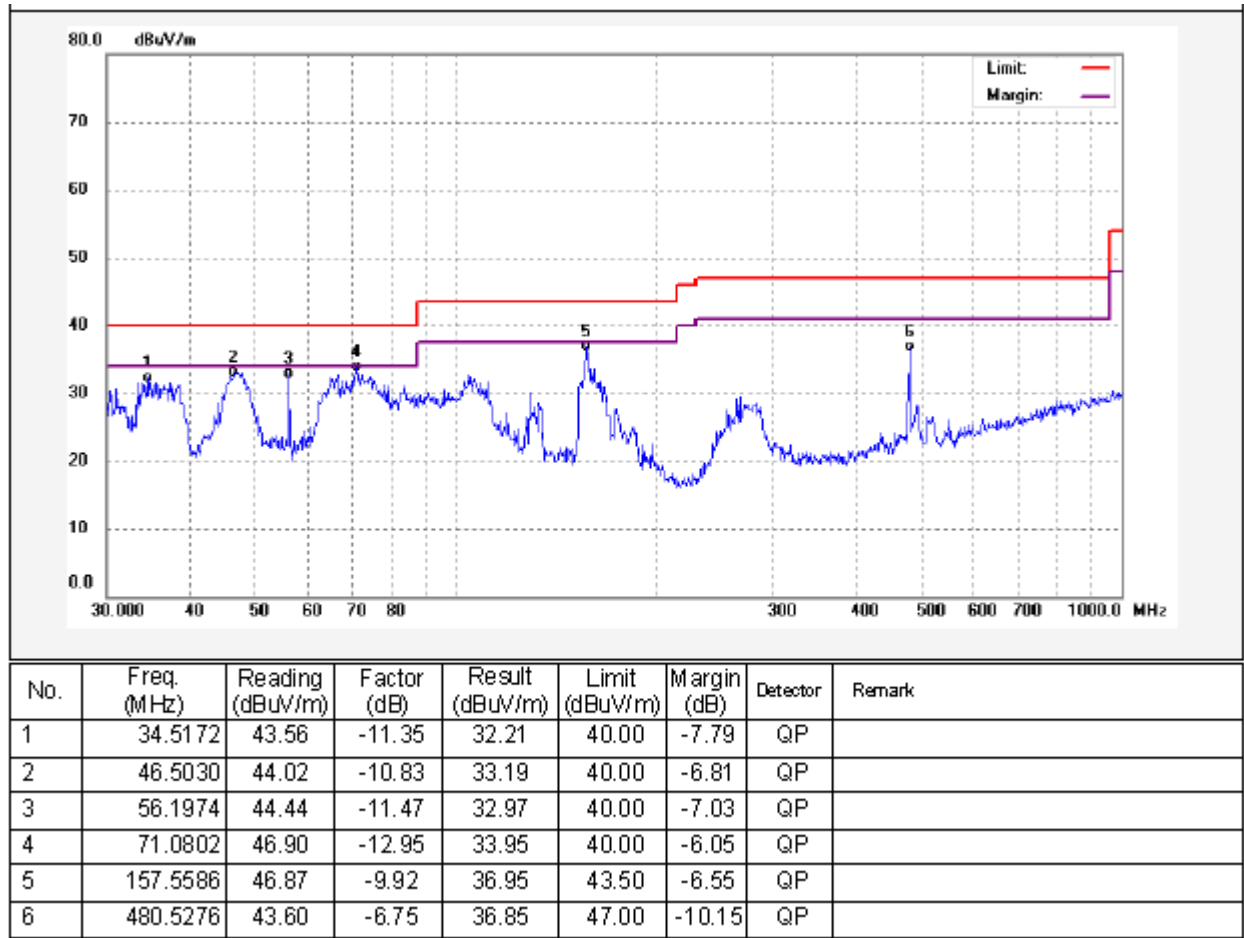
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.9618	45.00	-11.71	33.29	40.00	-6.71	QP	
2	46.5030	44.02	-10.83	33.19	40.00	-6.81	QP	
3	56.1974	44.94	-11.47	33.47	40.00	-6.53	QP	
4	104.5360	45.51	-12.82	32.69	43.50	-10.81	QP	
5	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
6	480.5276	45.10	-6.75	38.35	47.00	-8.65	QP	

Antenna Polarization: Horizontal

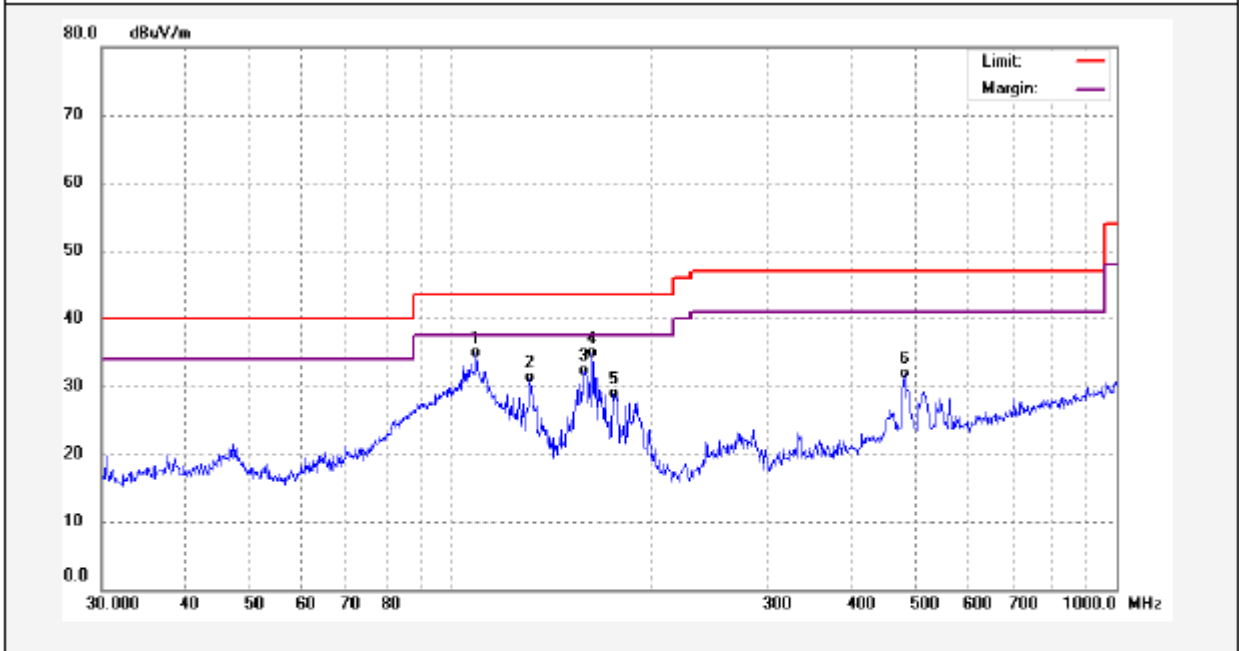


11g: Middle

Antenna Polarization: Vertical



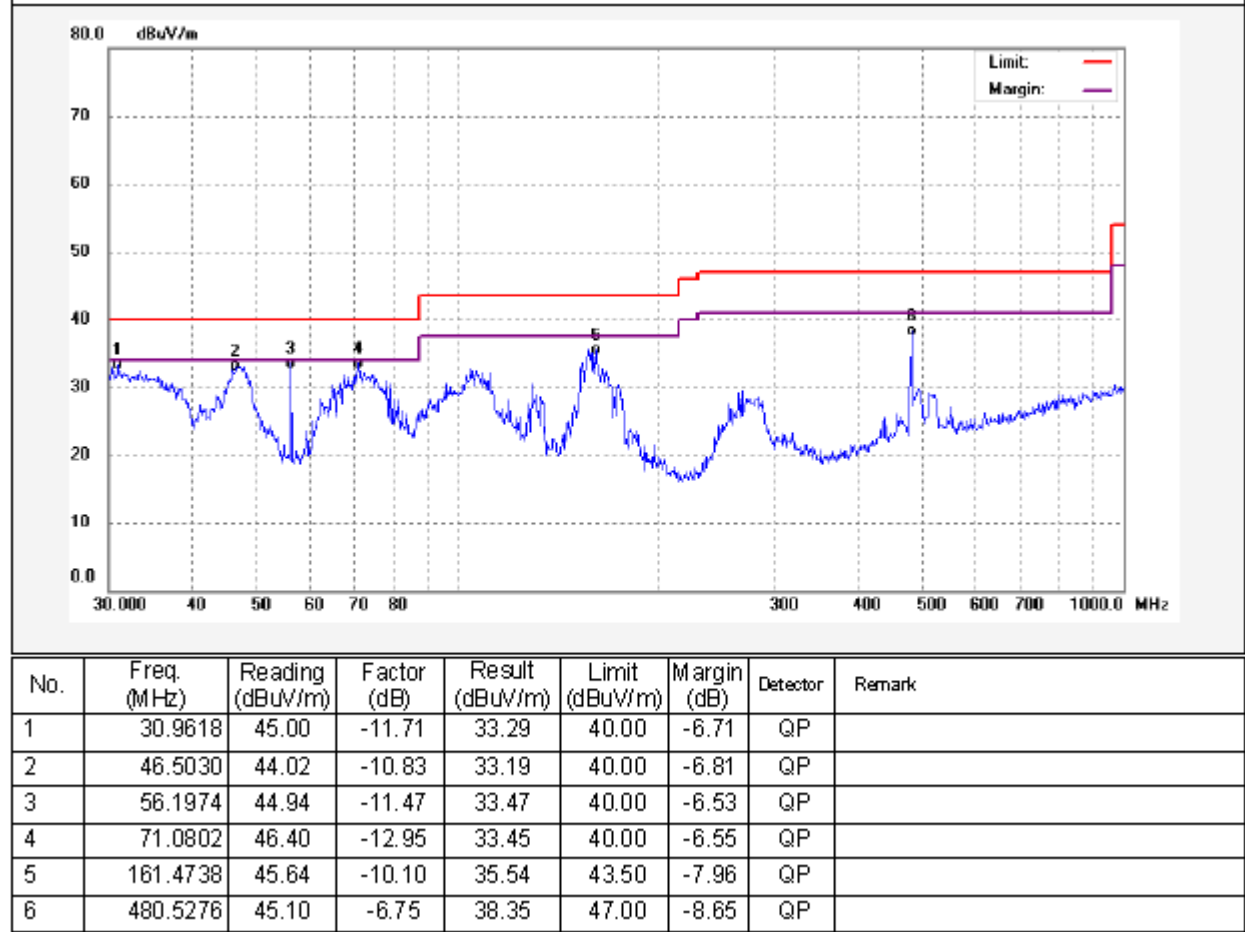
Antenna Polarization: Horizontal



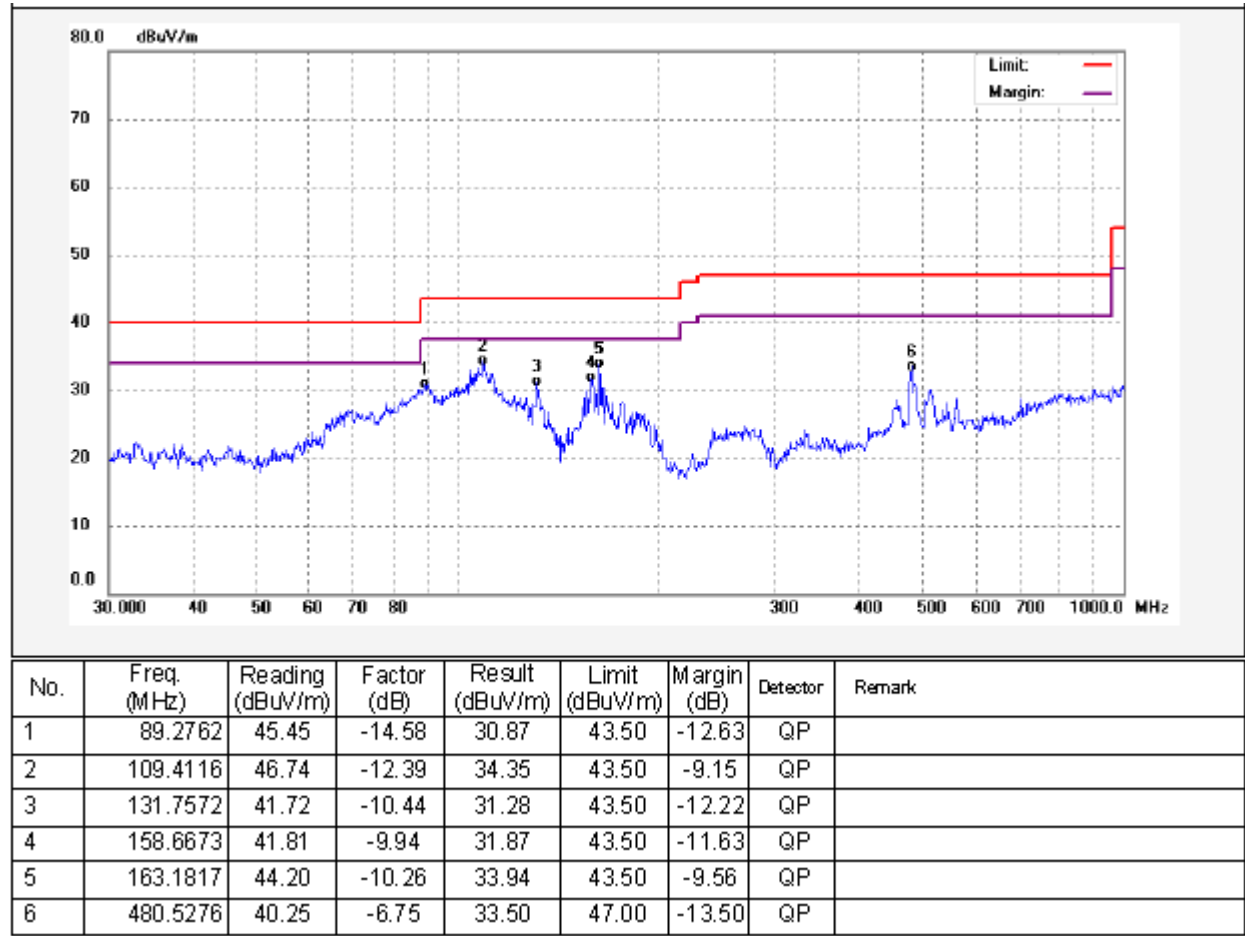
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	109.4116	47.24	-12.39	34.85	43.50	-8.65	QP	
2	131.7572	41.72	-10.44	31.28	43.50	-12.22	QP	
3	158.6673	42.31	-9.94	32.37	43.50	-11.13	QP	
4	163.1817	45.20	-10.26	34.94	43.50	-8.56	QP	
5	175.6516	40.44	-11.45	28.99	43.50	-14.51	QP	
6	480.5276	38.75	-6.75	32.00	47.00	-15.00	QP	

11g: High

Antenna Polarization: Vertical

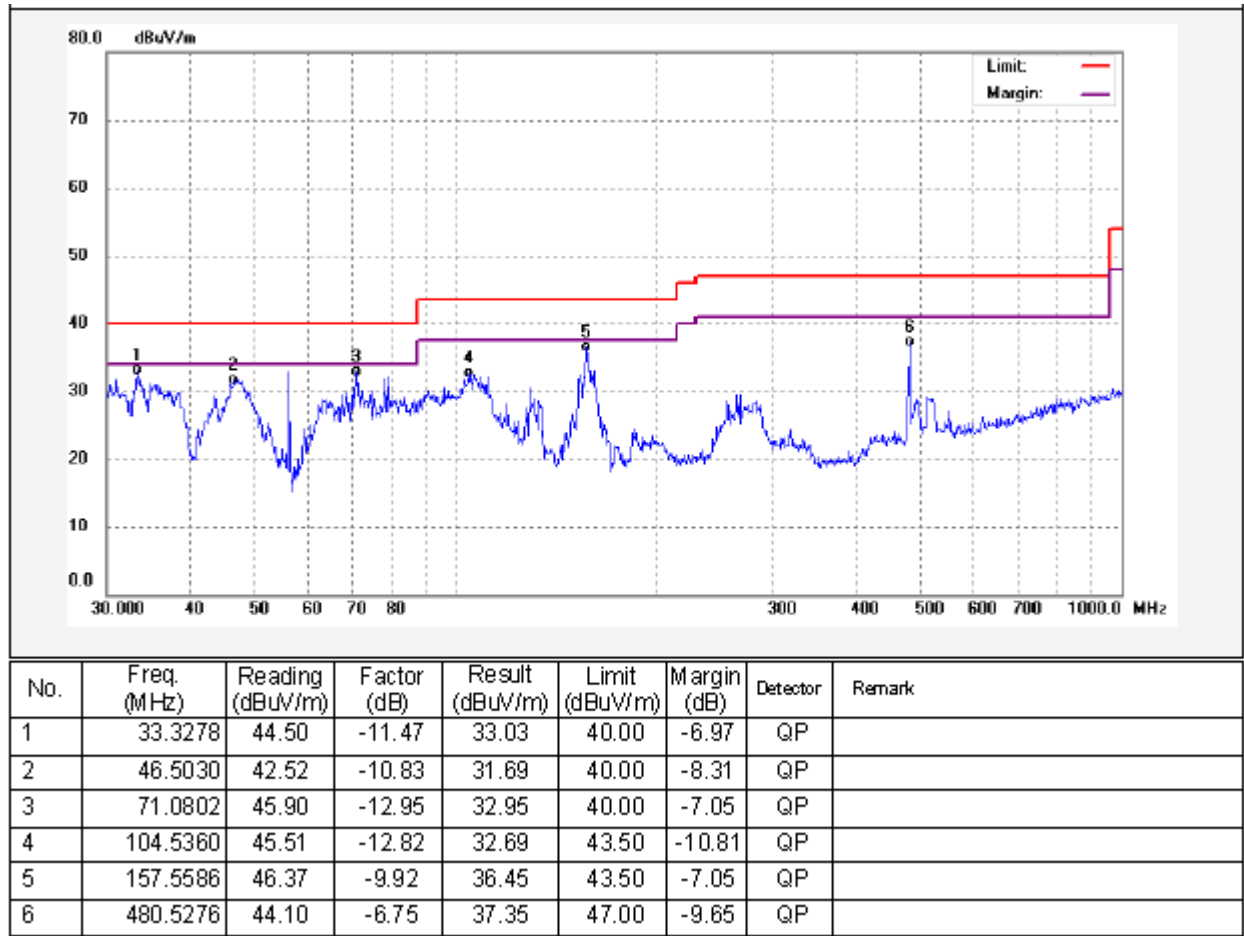


Antenna Polarization: Horizontal

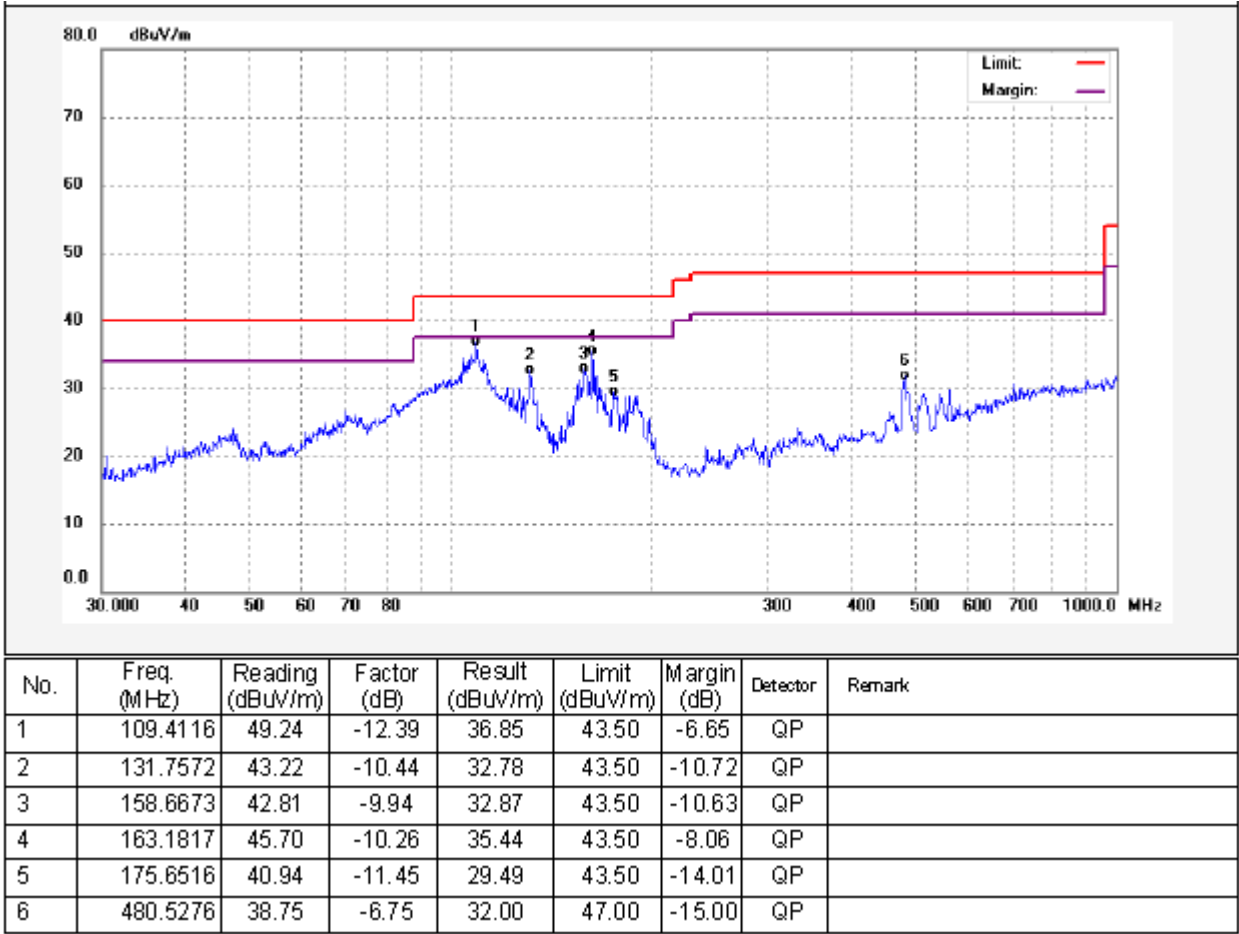


11n HT20: Low

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



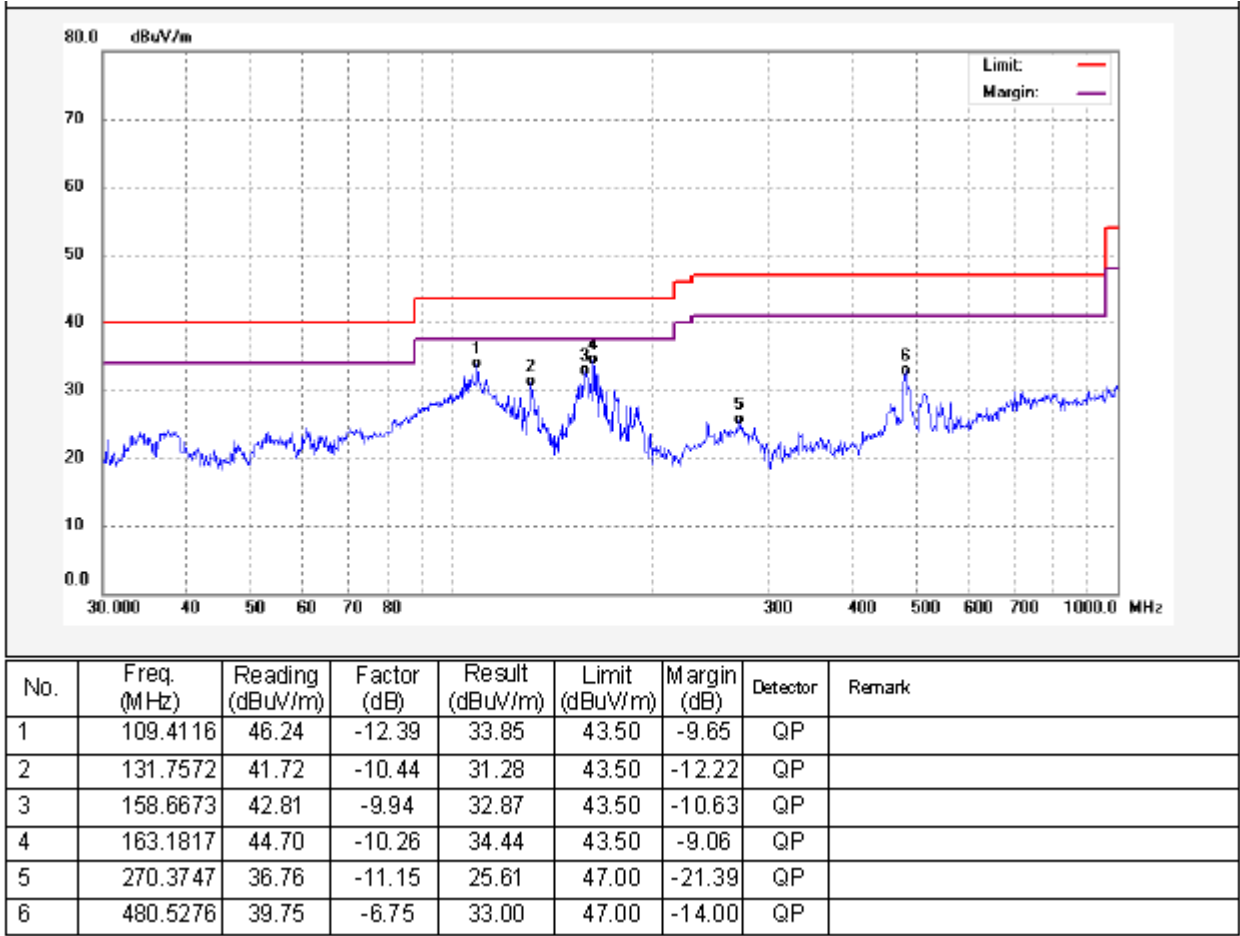
11n HT20: Middle

Antenna Polarization: Vertical



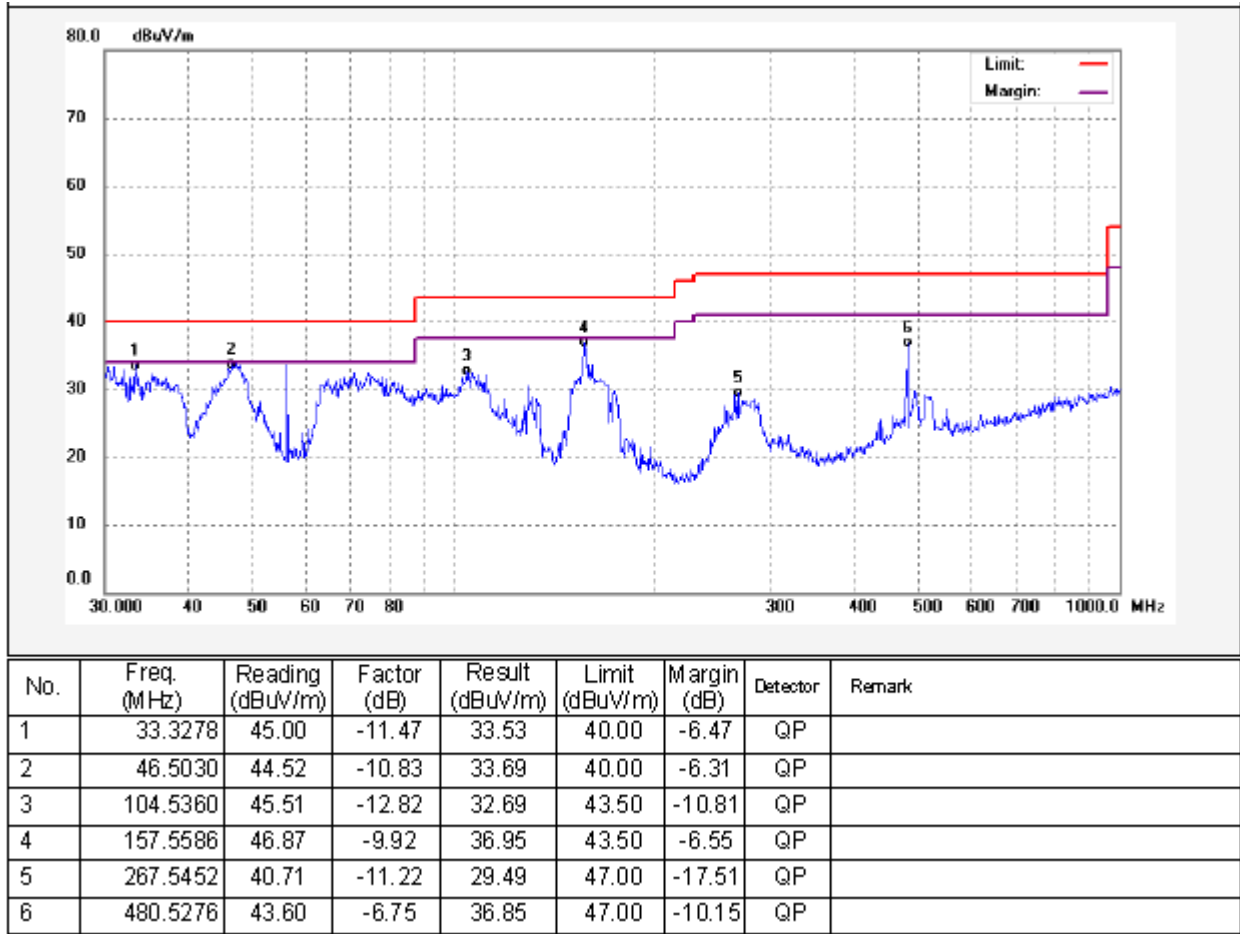
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.9618	45.50	-11.71	33.79	40.00	-6.21	QP	
2	46.0162	44.39	-10.82	33.57	40.00	-6.43	QP	
3	56.1974	44.94	-11.47	33.47	40.00	-6.53	QP	
4	74.3953	46.77	-13.28	33.49	40.00	-6.51	QP	
5	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
6	480.5276	45.10	-6.75	38.35	47.00	-8.65	QP	

Antenna Polarization: Horizontal

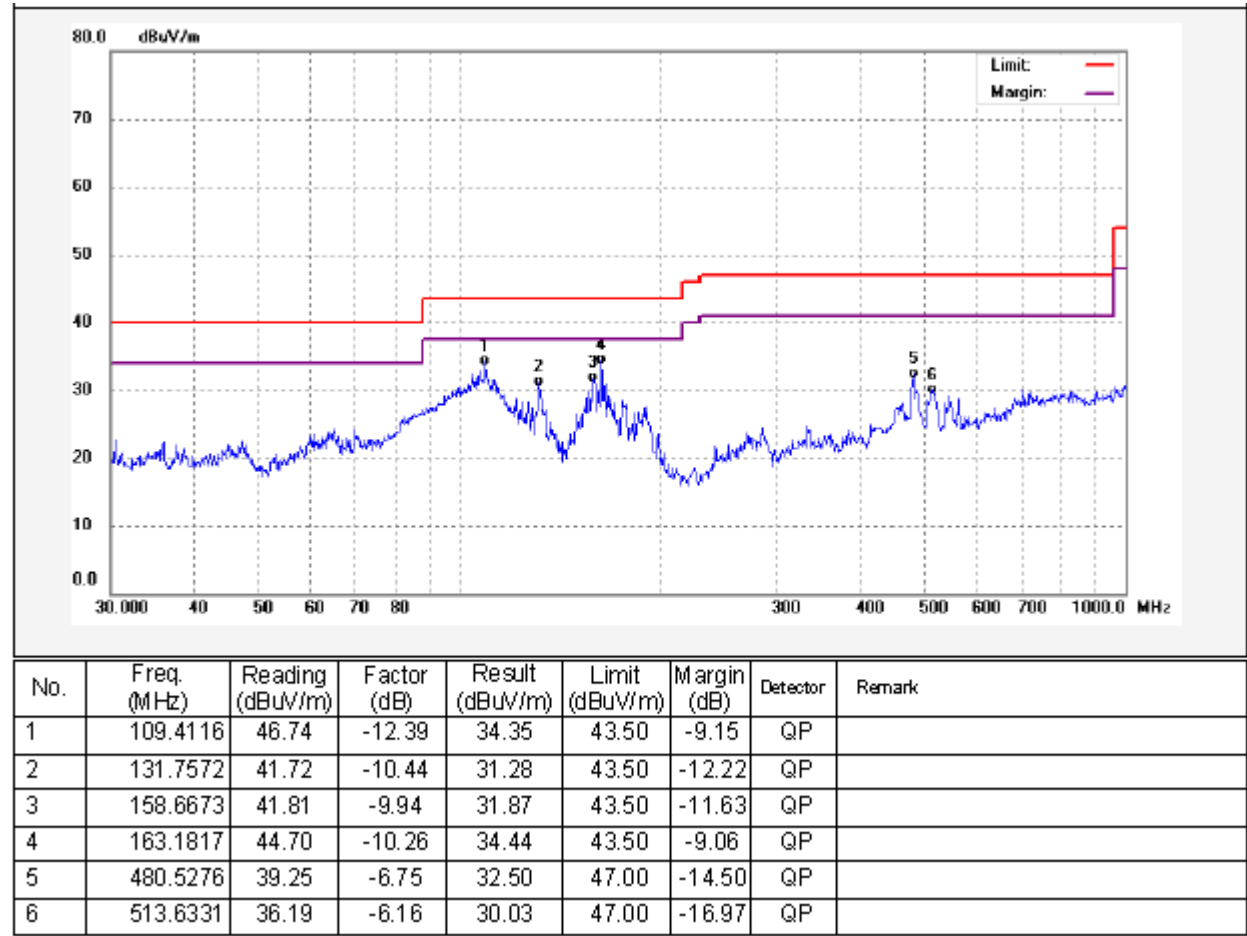


11n HT20: High

Antenna Polarization: Vertical

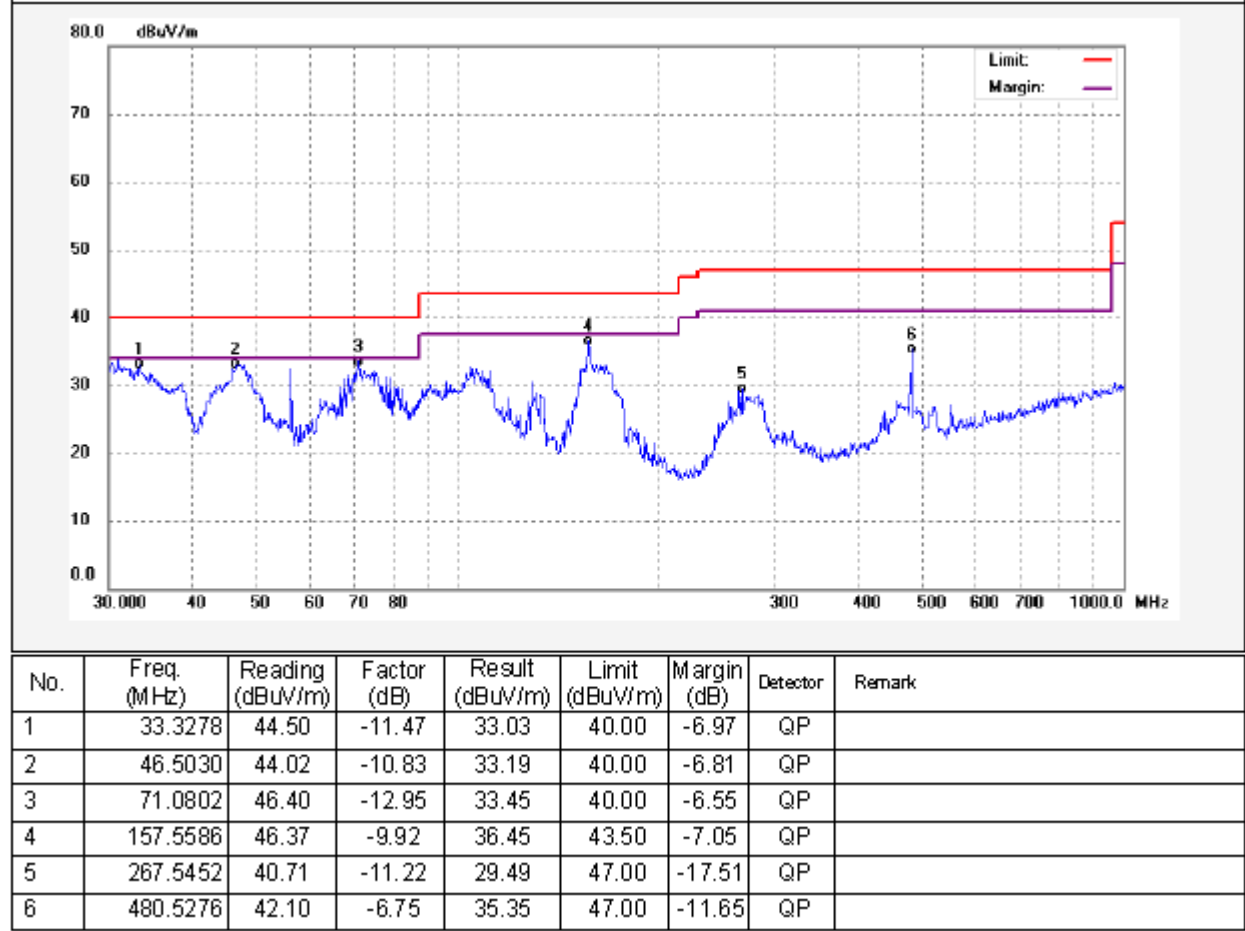


Antenna Polarization: Horizontal

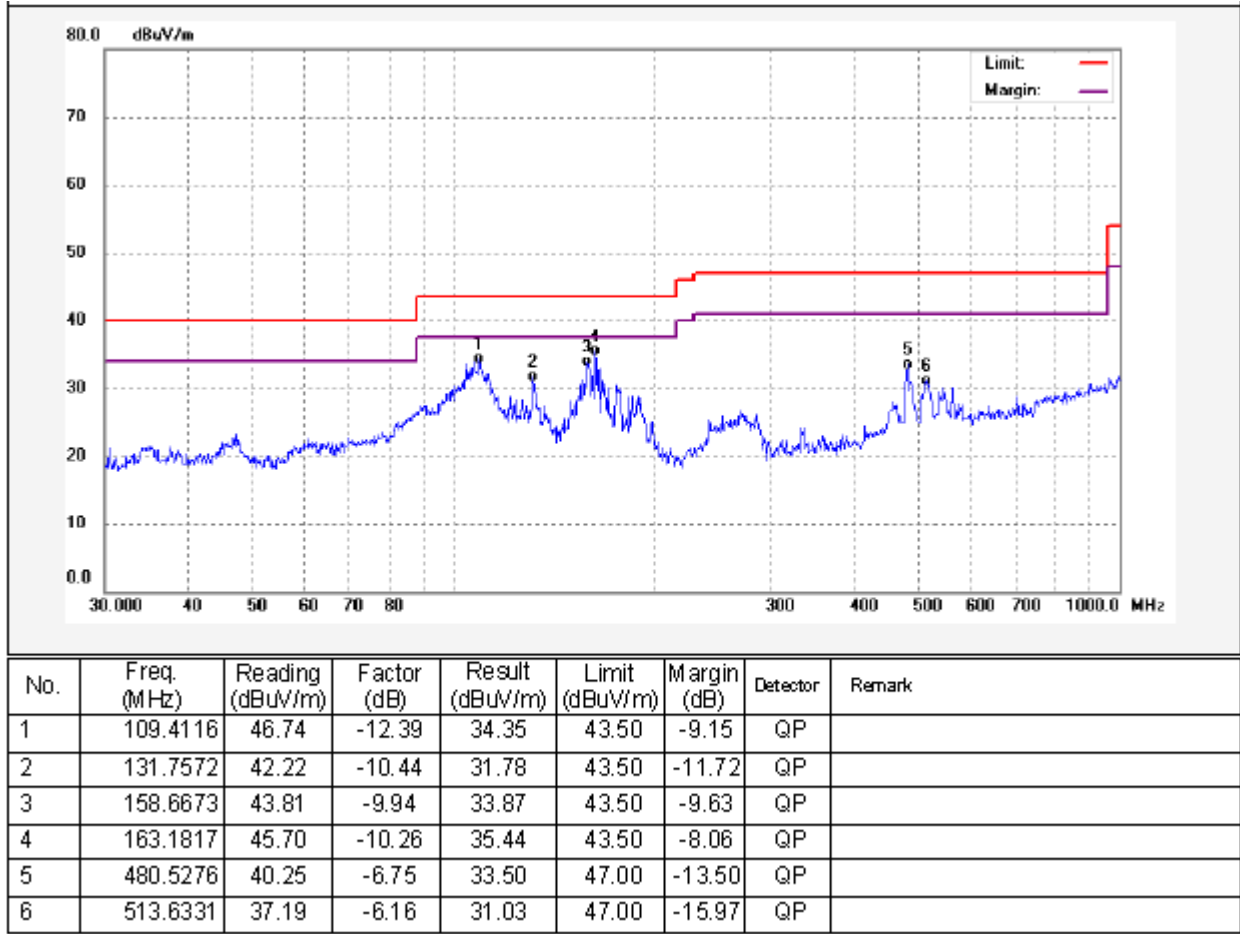


11n HT40: Low

Antenna Polarization: Vertical

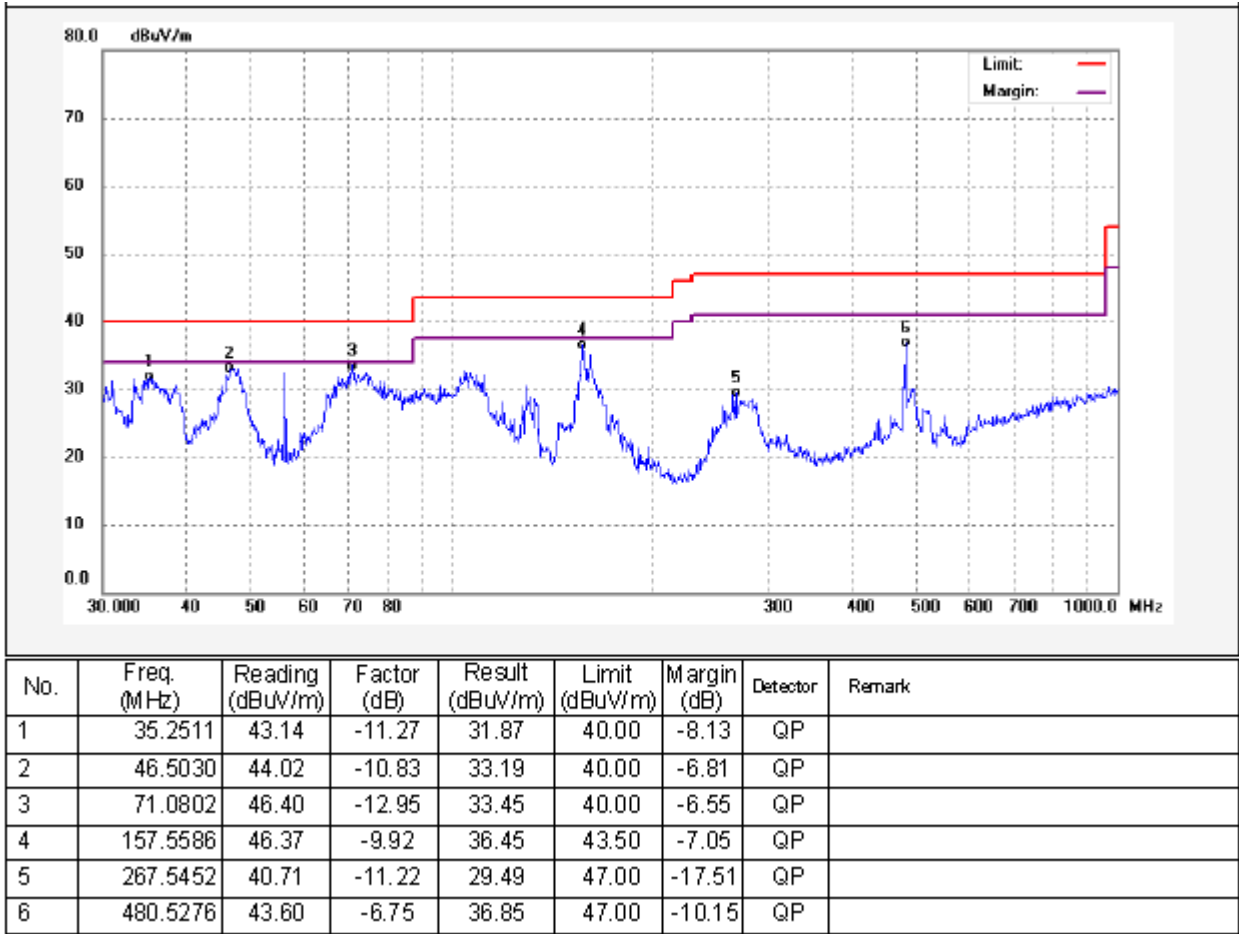


Antenna Polarization: Horizontal

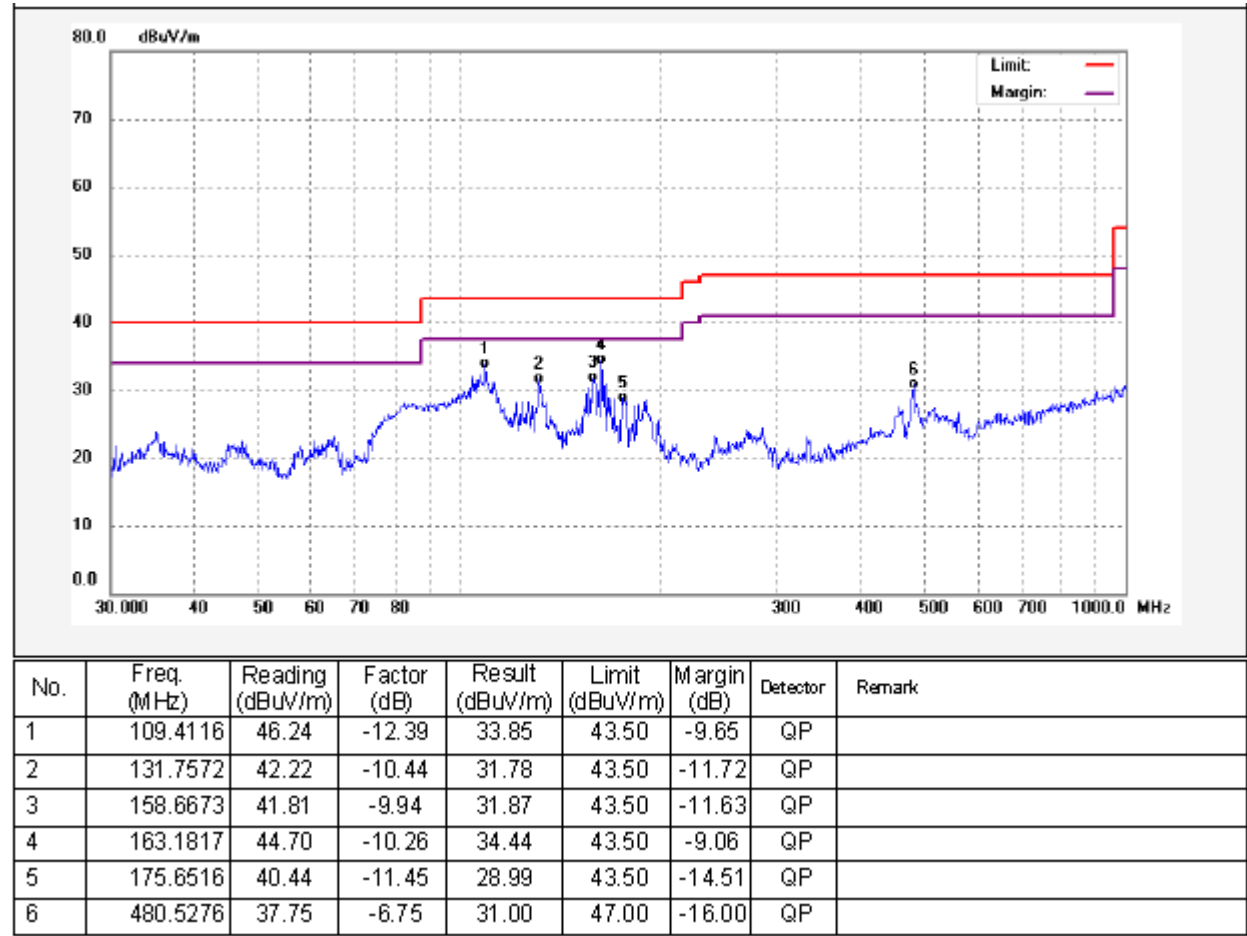


11n HT40: Middle

Antenna Polarization: Vertical

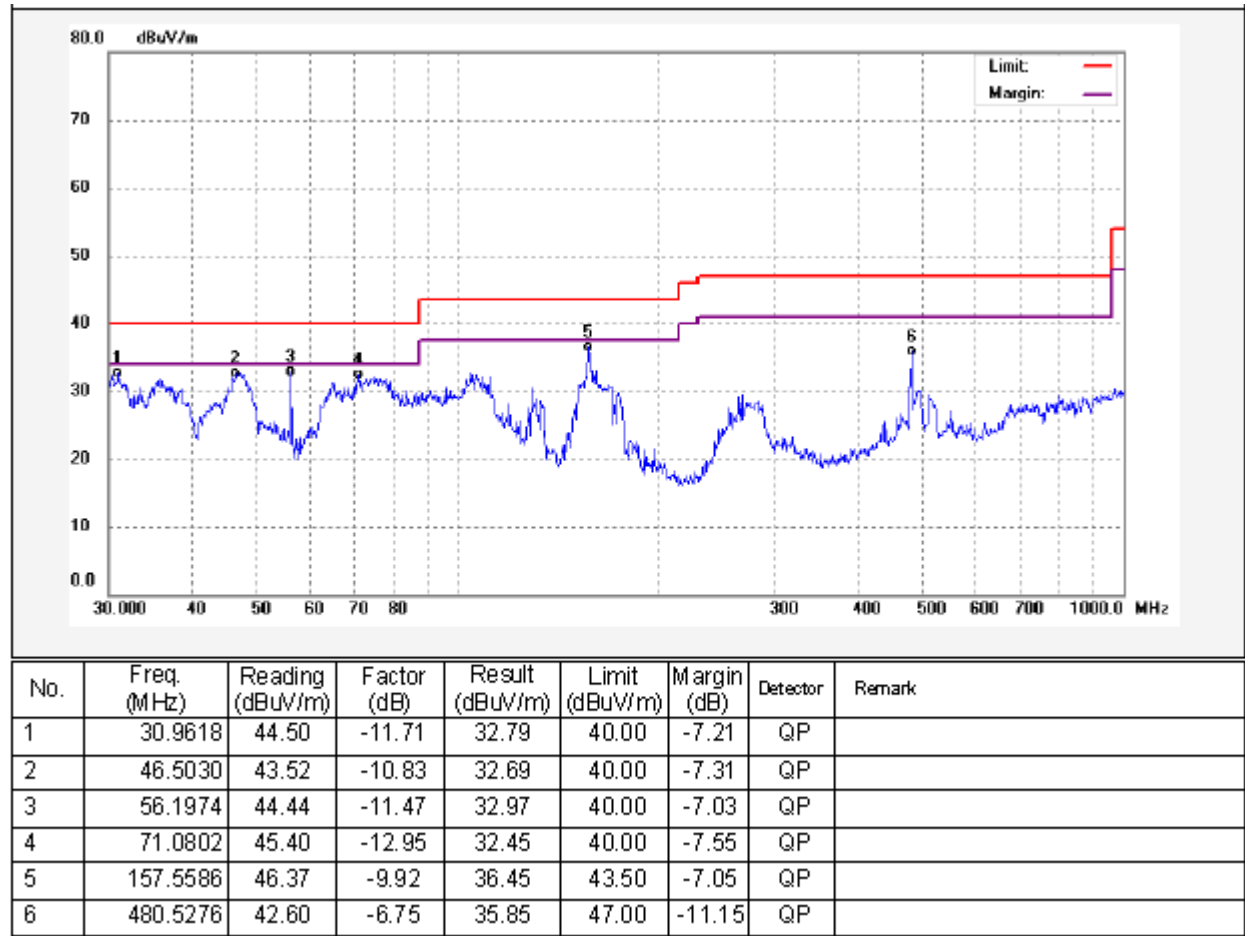


Antenna Polarization: Horizontal

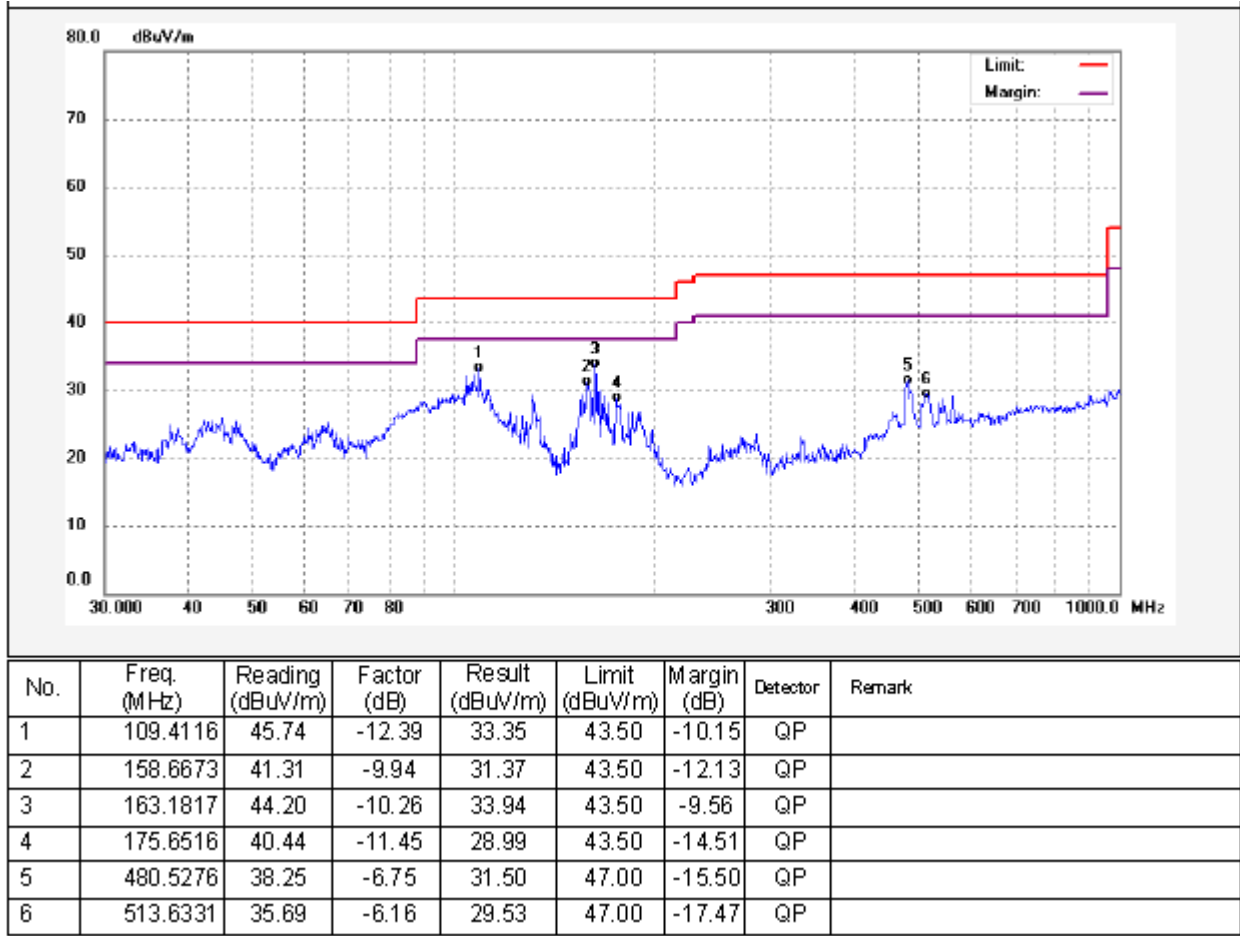


11n HT40: High

Antenna Polarization: Vertical



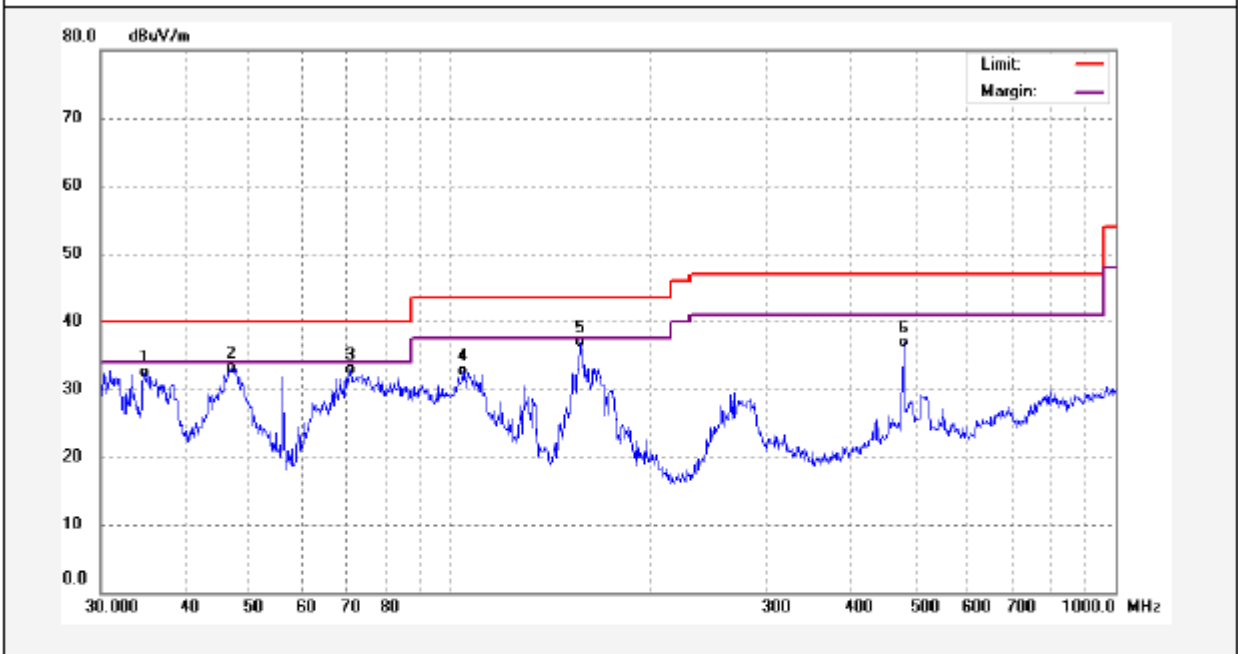
Antenna Polarization: Horizontal



Model: H02

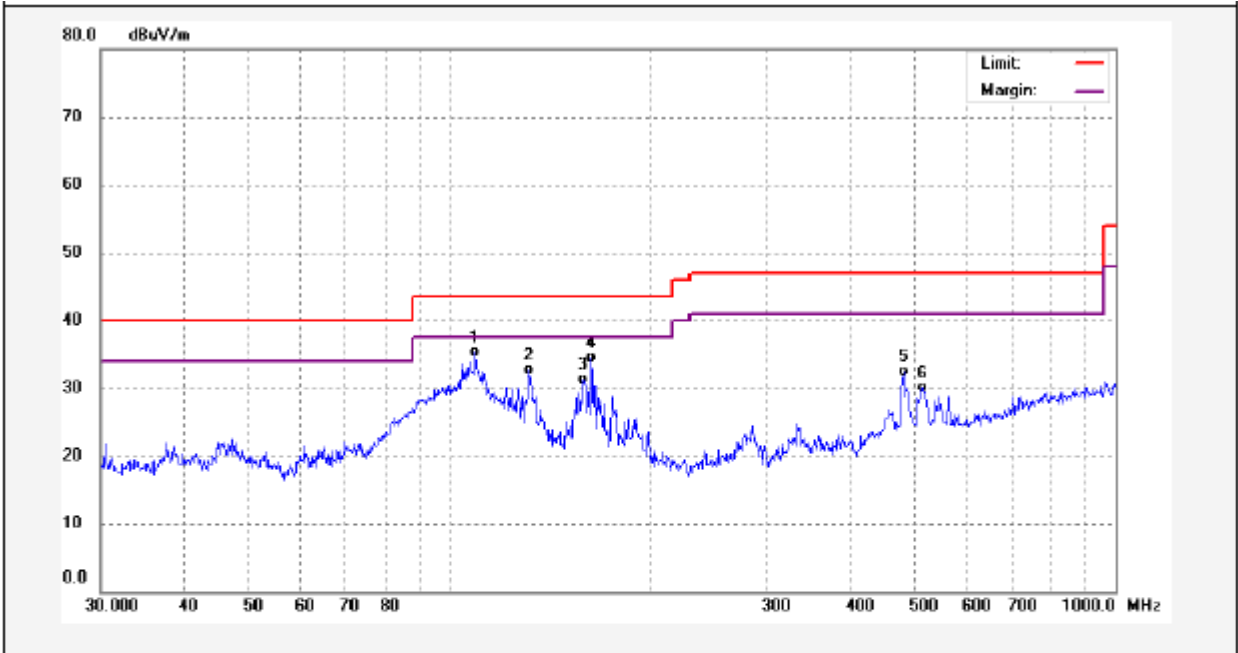
11b: Low

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	34.8821	43.88	-11.30	32.58	40.00	-7.42	QP	
2	47.1597	43.93	-10.83	33.10	40.00	-6.90	QP	
3	71.0802	45.90	-12.95	32.95	40.00	-7.05	QP	
4	104.5360	45.51	-12.82	32.69	43.50	-10.81	QP	
5	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
6	480.5276	43.60	-6.75	36.85	47.00	-10.15	QP	

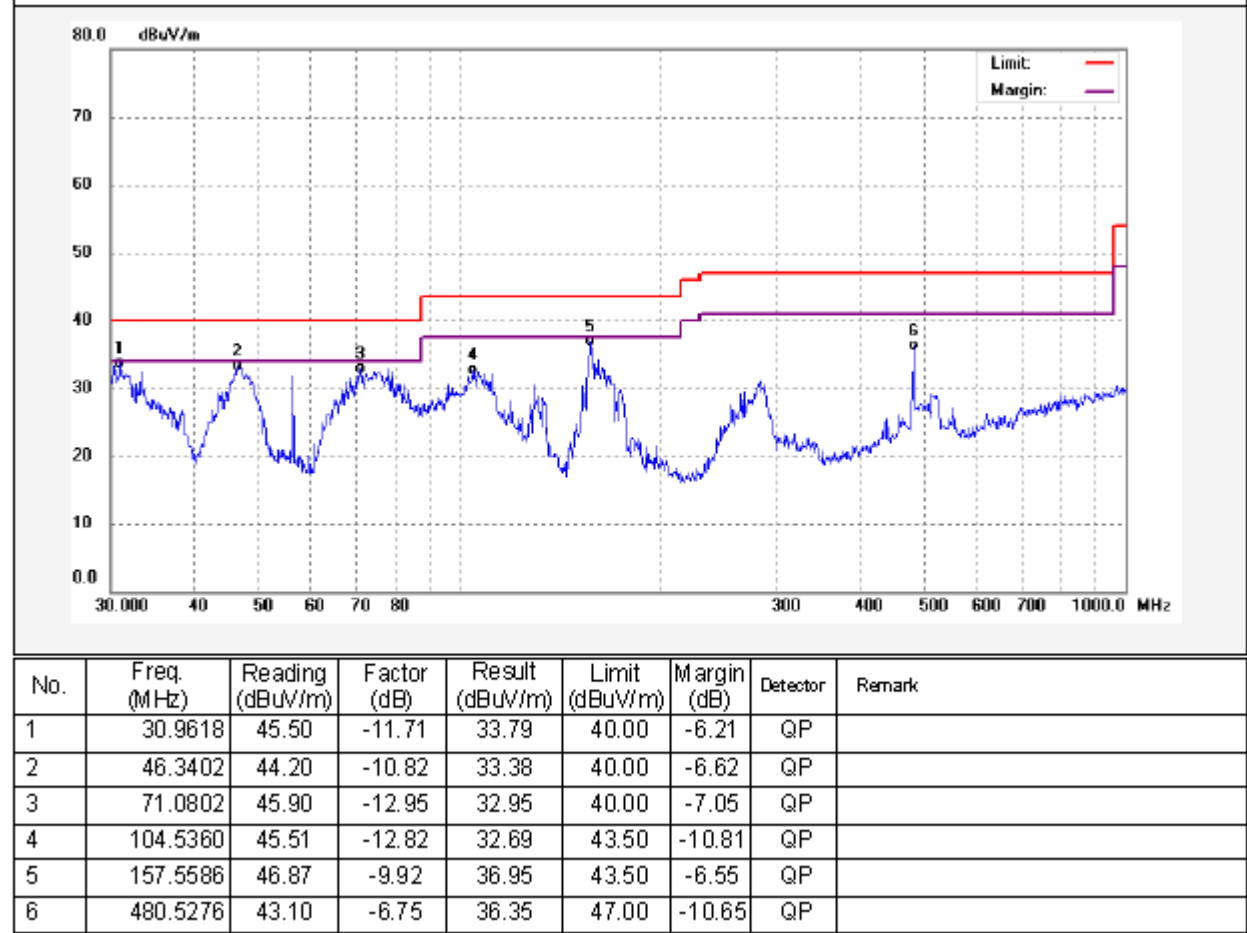
Antenna Polarization: Horizontal



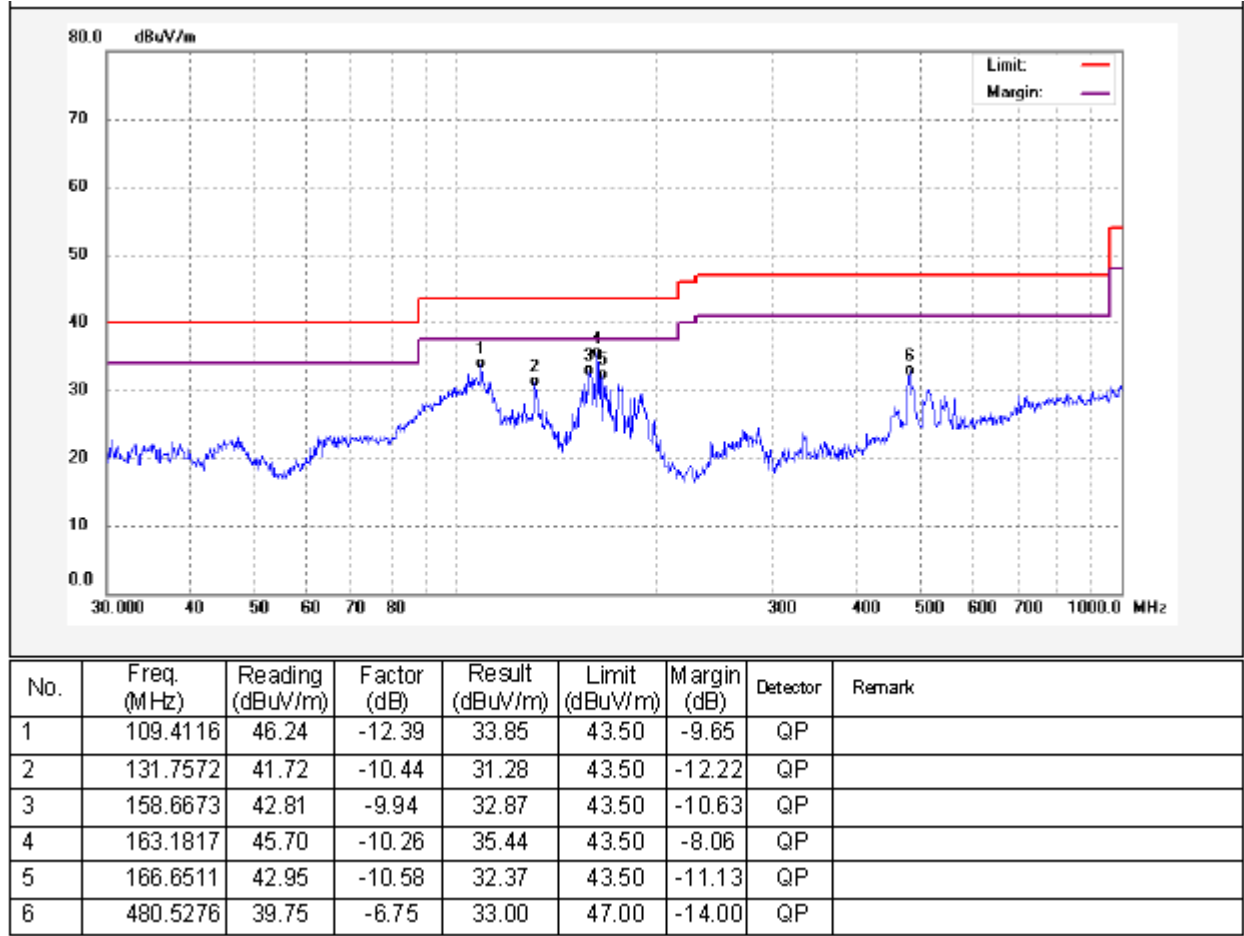
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	109.4116	47.74	-12.39	35.35	43.50	-8.15	QP	
2	131.7572	43.22	-10.44	32.78	43.50	-10.72	QP	
3	158.6673	41.31	-9.94	31.37	43.50	-12.13	QP	
4	163.1817	44.70	-10.26	34.44	43.50	-9.06	QP	
5	480.5276	39.25	-6.75	32.50	47.00	-14.50	QP	
6	513.6331	36.19	-6.16	30.03	47.00	-16.97	QP	

11b: Middle

Antenna Polarization: Vertical

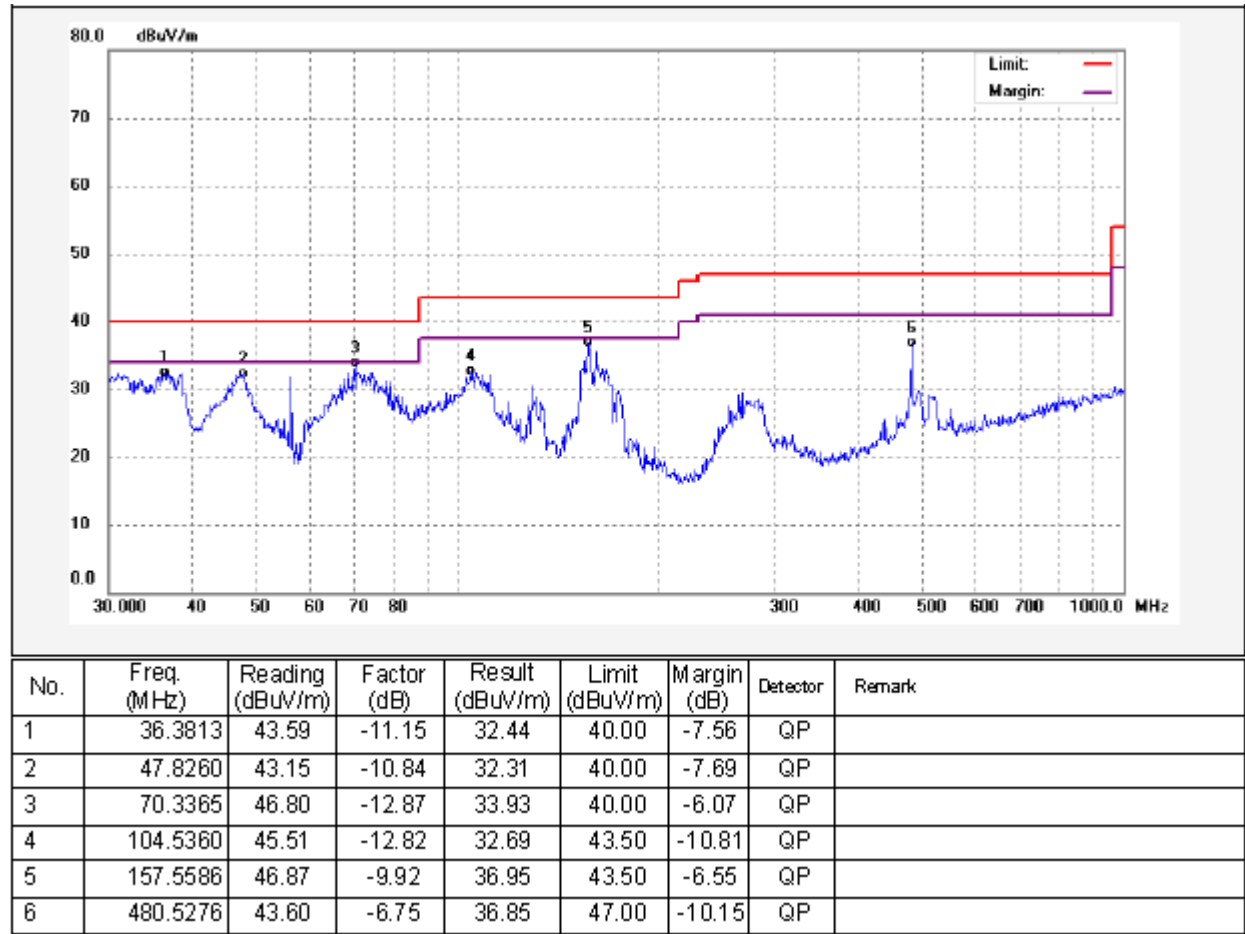


Antenna Polarization: Horizontal

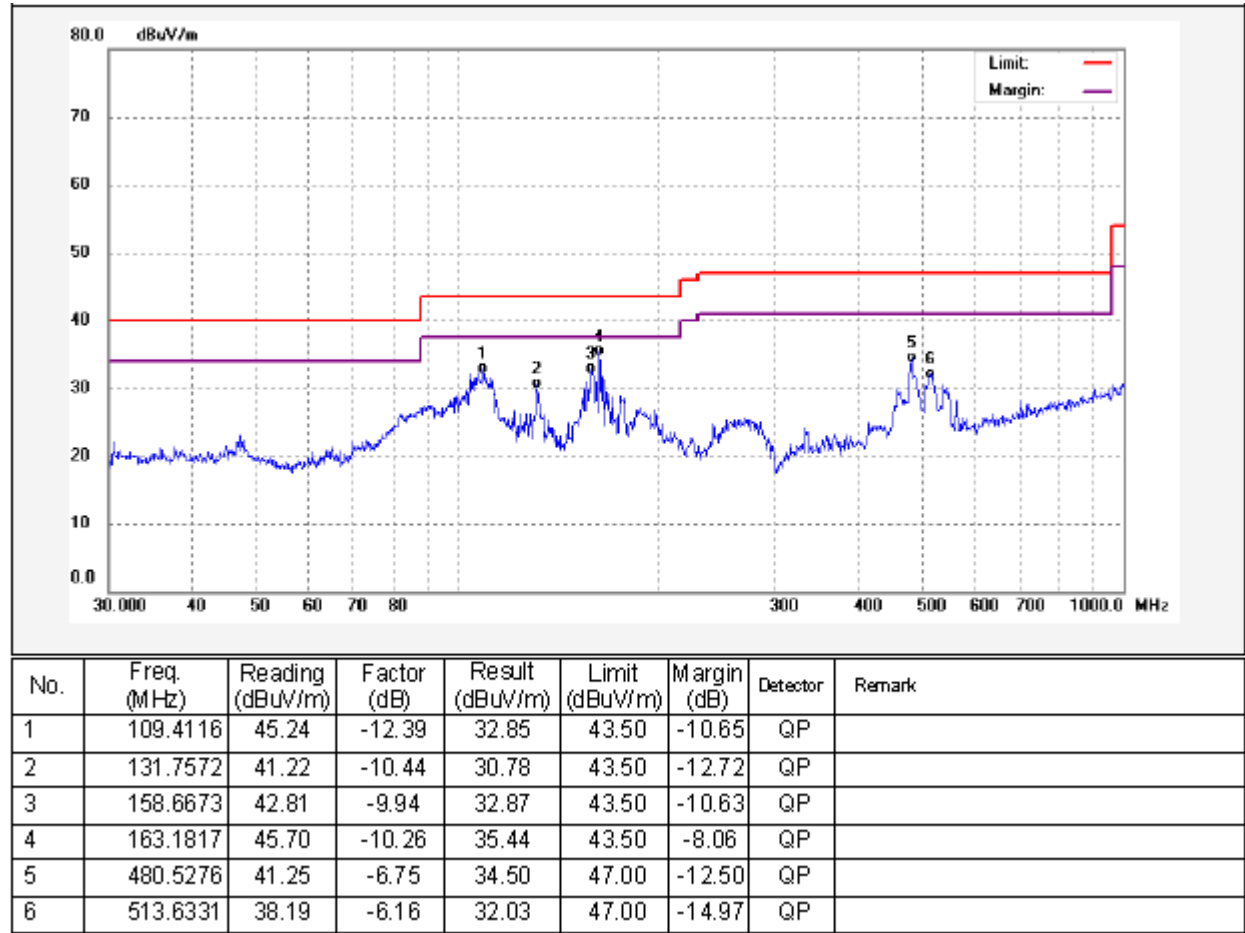


11b: High

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



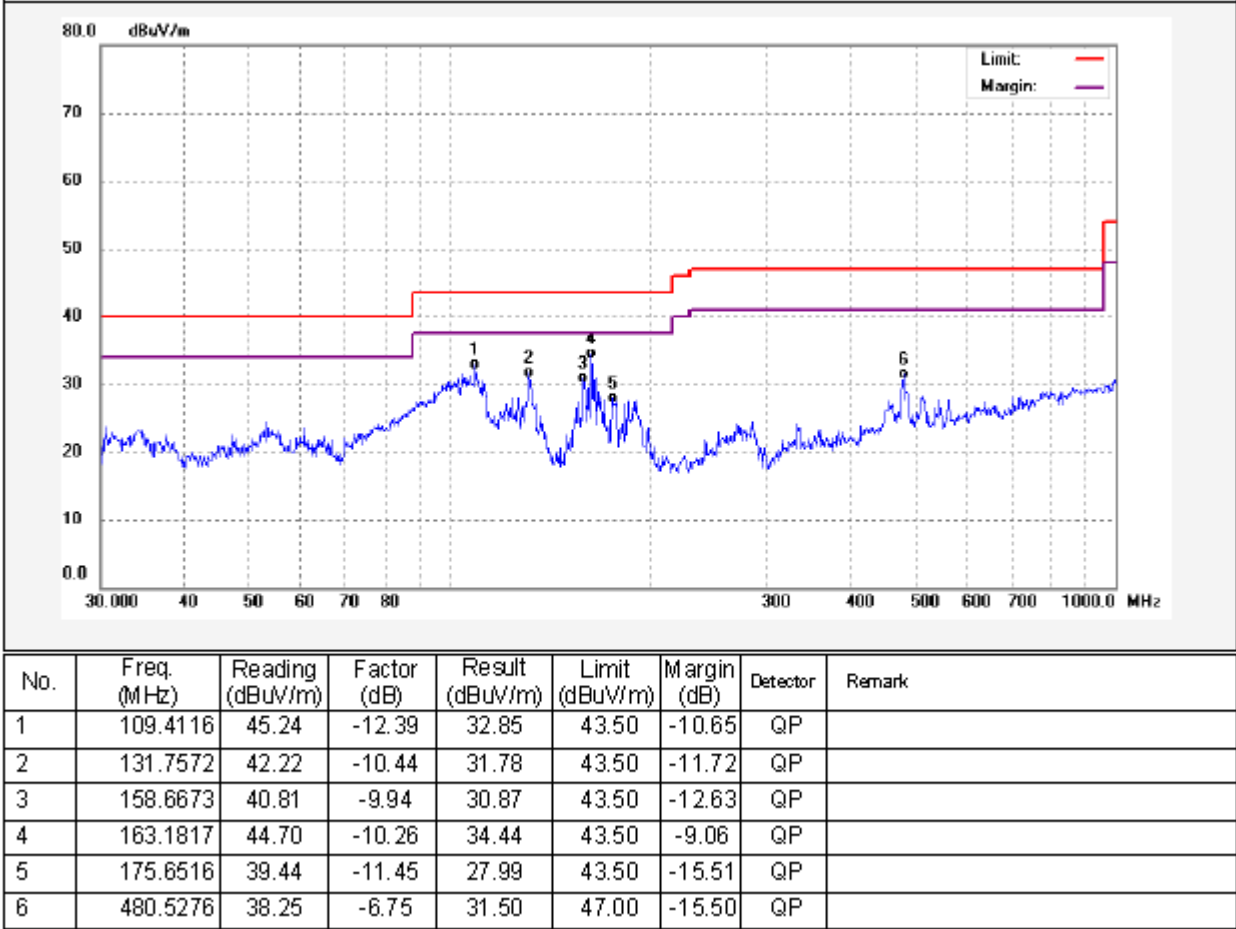
11g: Low

Antenna Polarization: Vertical



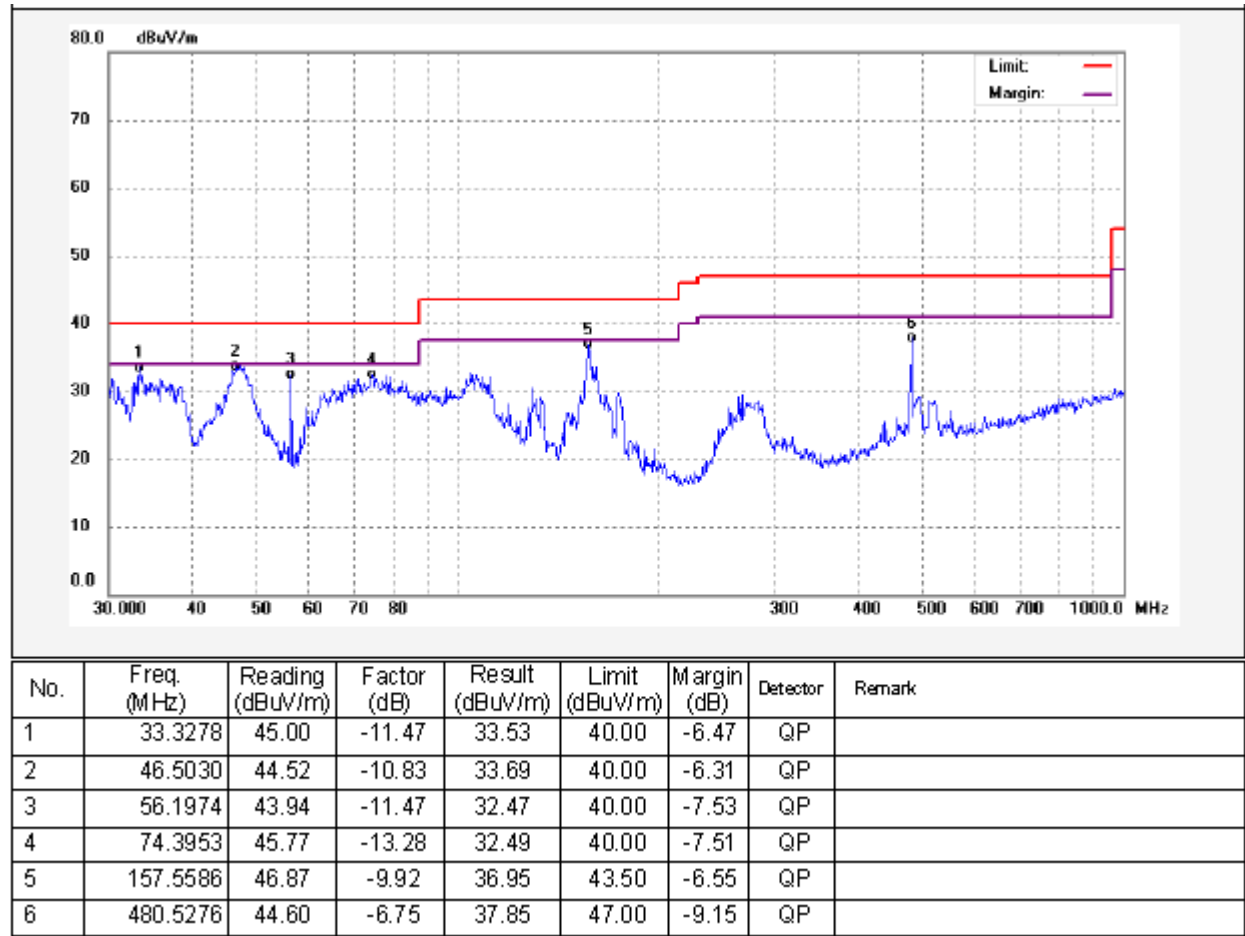
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	35.2511	43.64	-11.27	32.37	40.00	-7.63	QP	
2	46.5030	43.02	-10.83	32.19	40.00	-7.81	QP	
3	79.2425	46.77	-13.76	33.01	40.00	-6.99	QP	
4	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
5	267.5452	40.71	-11.22	29.49	47.00	-17.51	QP	
6	480.5276	44.10	-6.75	37.35	47.00	-9.65	QP	

Antenna Polarization: Horizontal

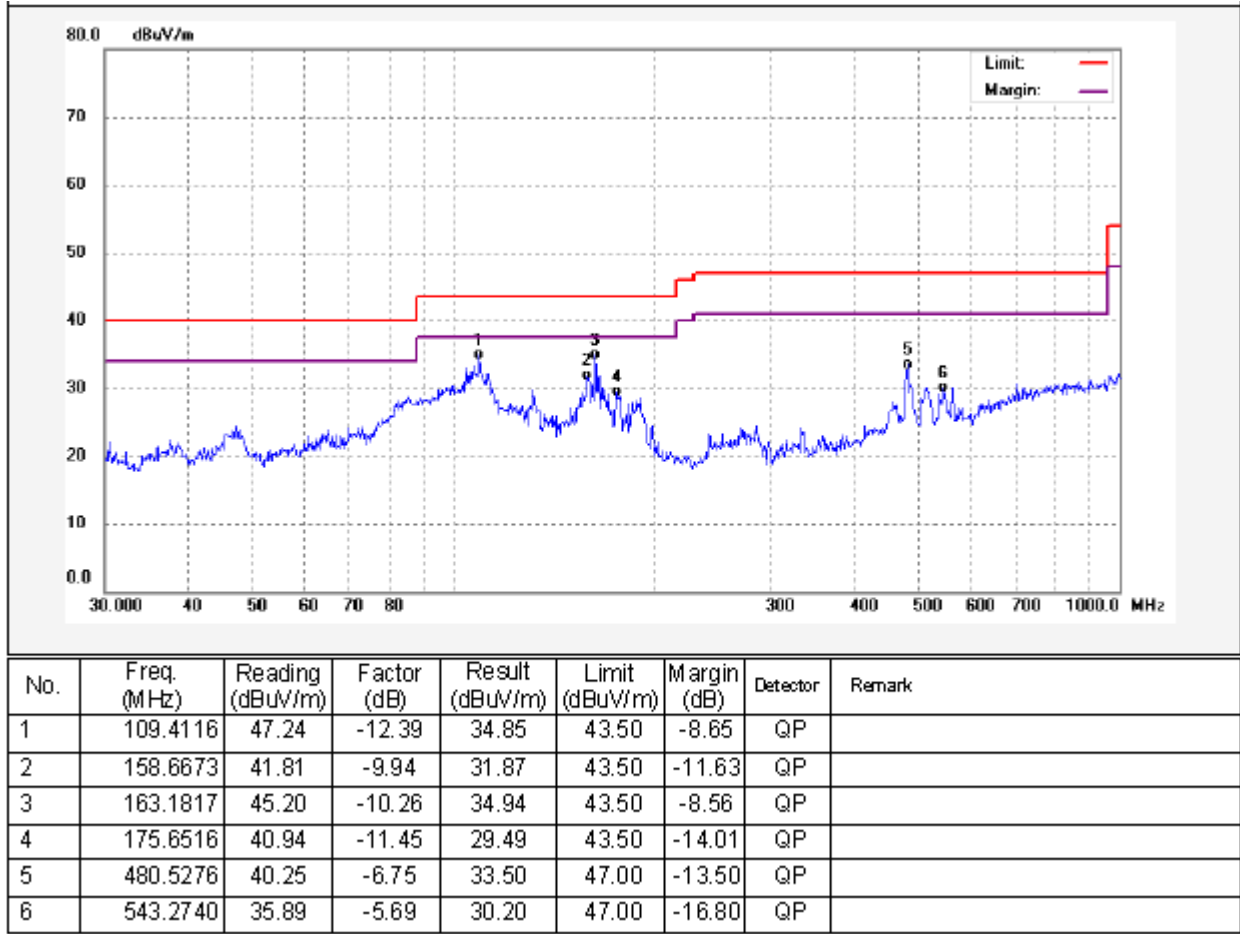


11g: Middle

Antenna Polarization: Vertical

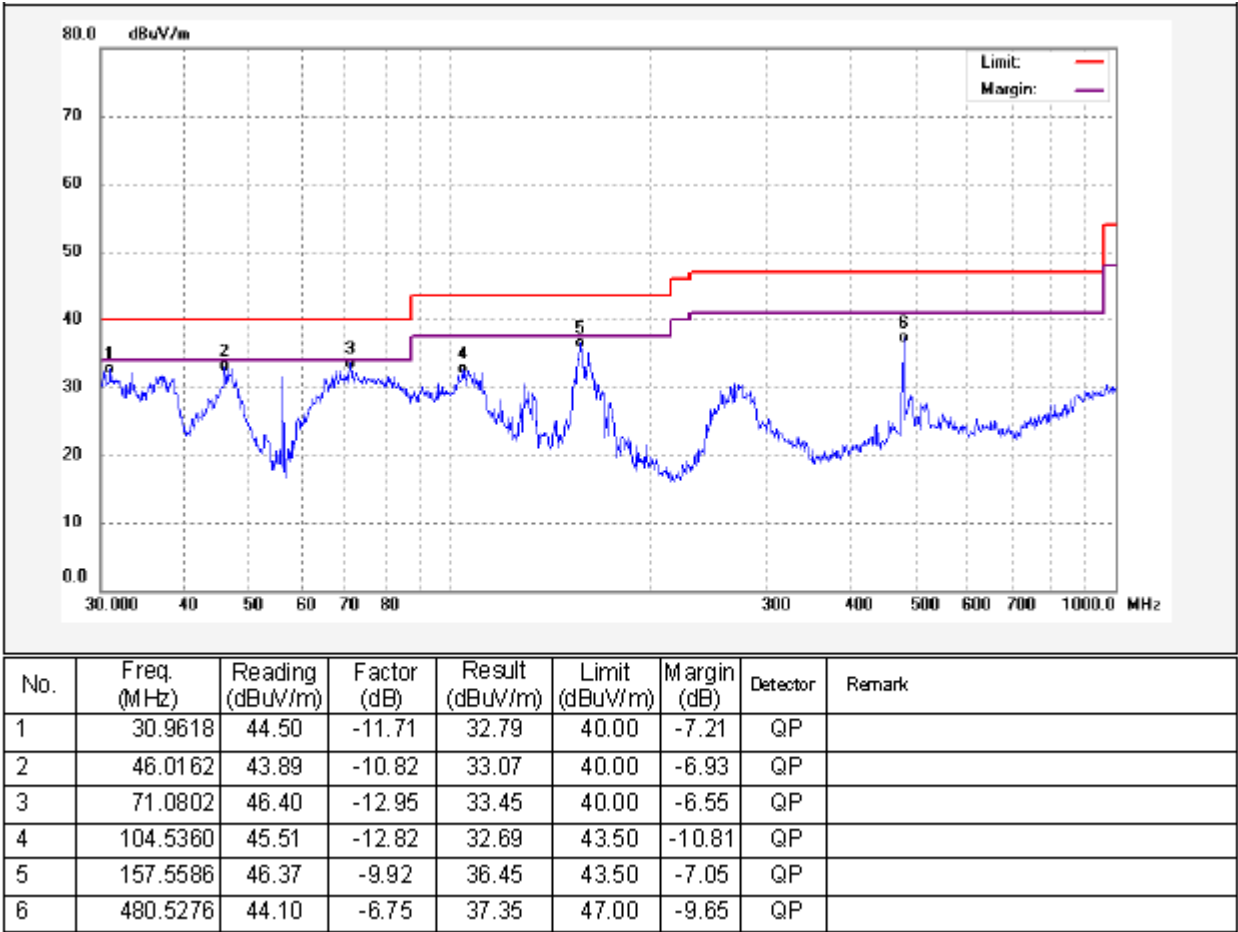


Antenna Polarization: Horizontal

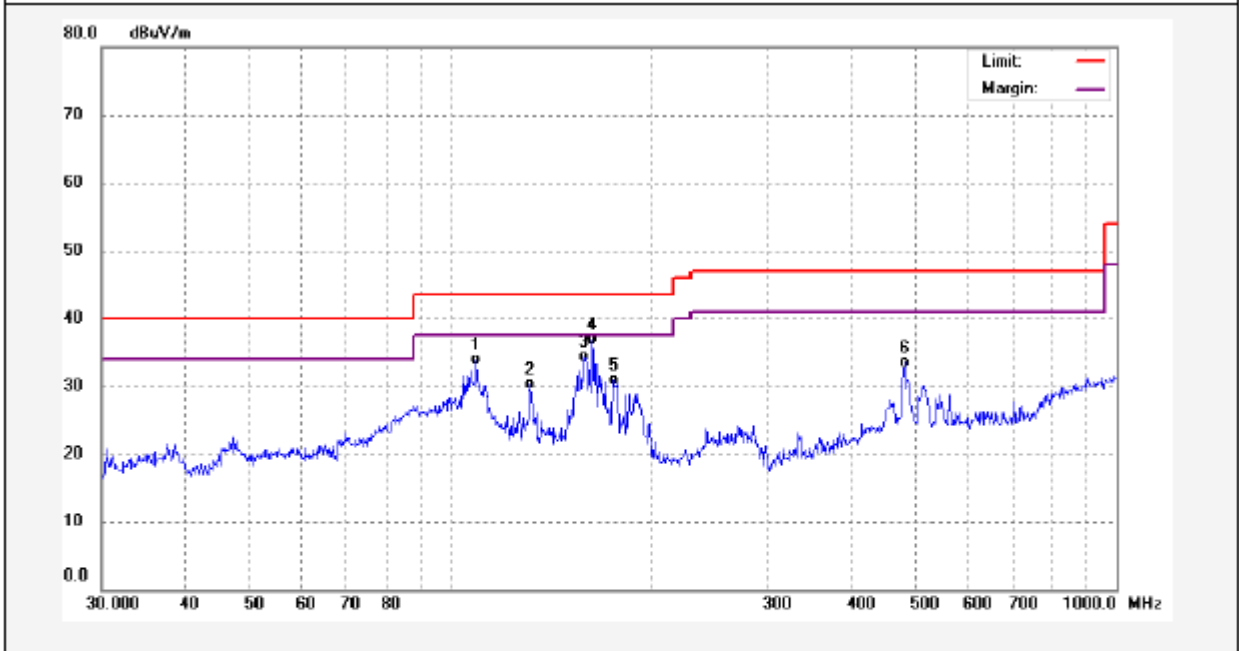


11g: High

Antenna Polarization: Vertical



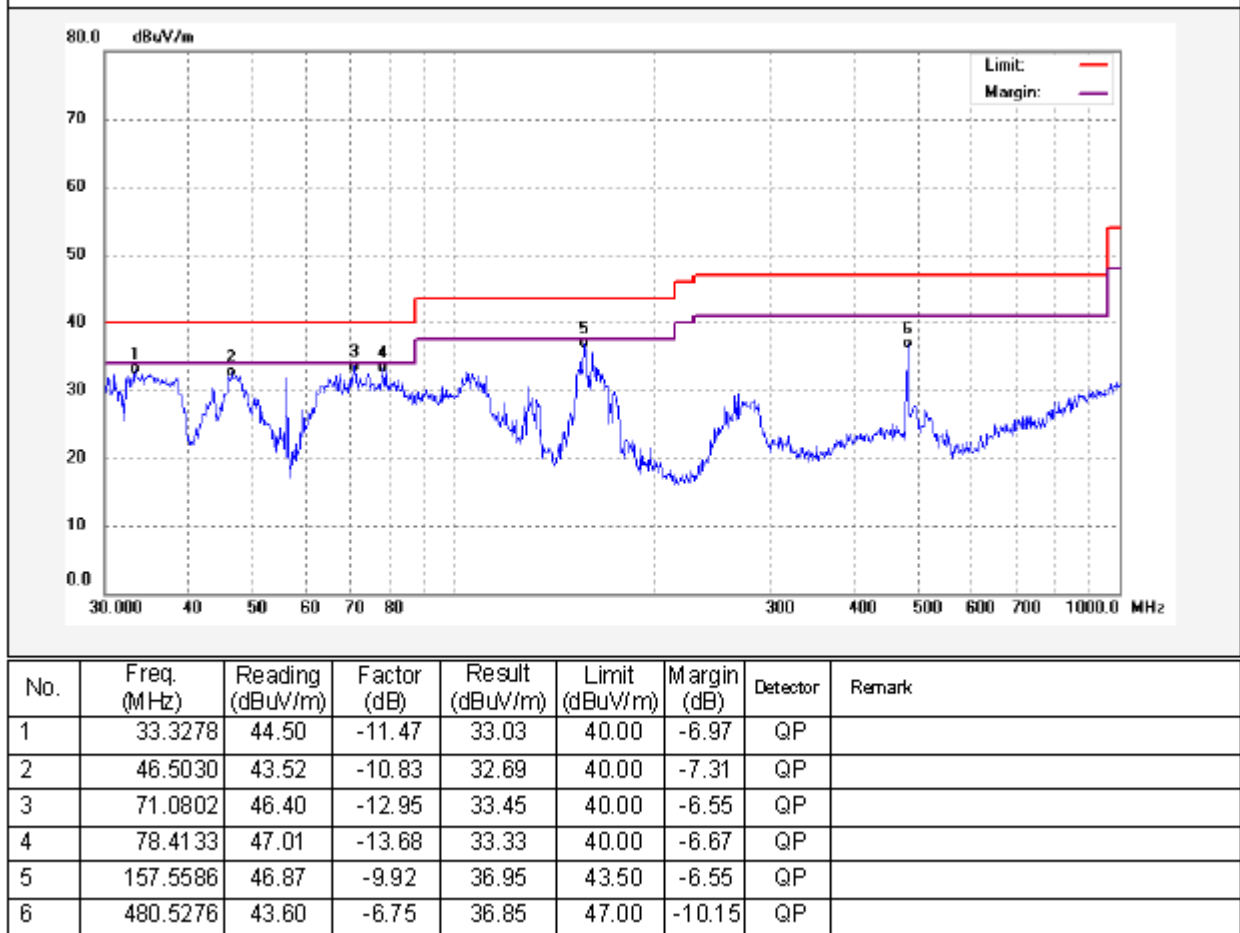
Antenna Polarization: Horizontal



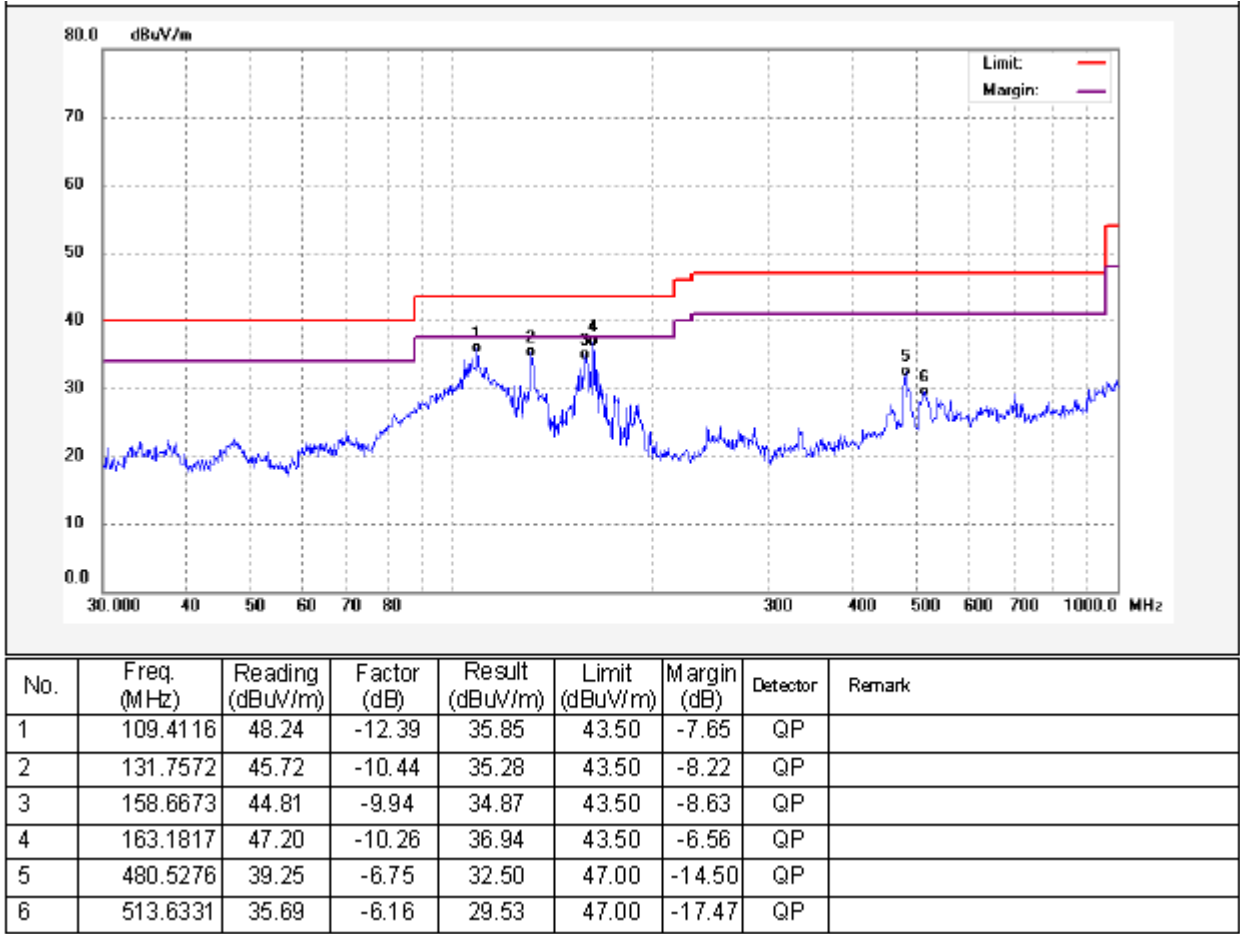
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	109.4116	46.24	-12.39	33.85	43.50	-9.65	QP	
2	131.7572	40.72	-10.44	30.28	43.50	-13.22	QP	
3	158.6673	44.31	-9.94	34.37	43.50	-9.13	QP	
4	163.1817	47.20	-10.26	36.94	43.50	-6.56	QP	
5	175.6516	42.44	-11.45	30.99	43.50	-12.51	QP	
6	480.5276	40.25	-6.75	33.50	47.00	-13.50	QP	

11n HT20: Low

Antenna Polarization: Vertical

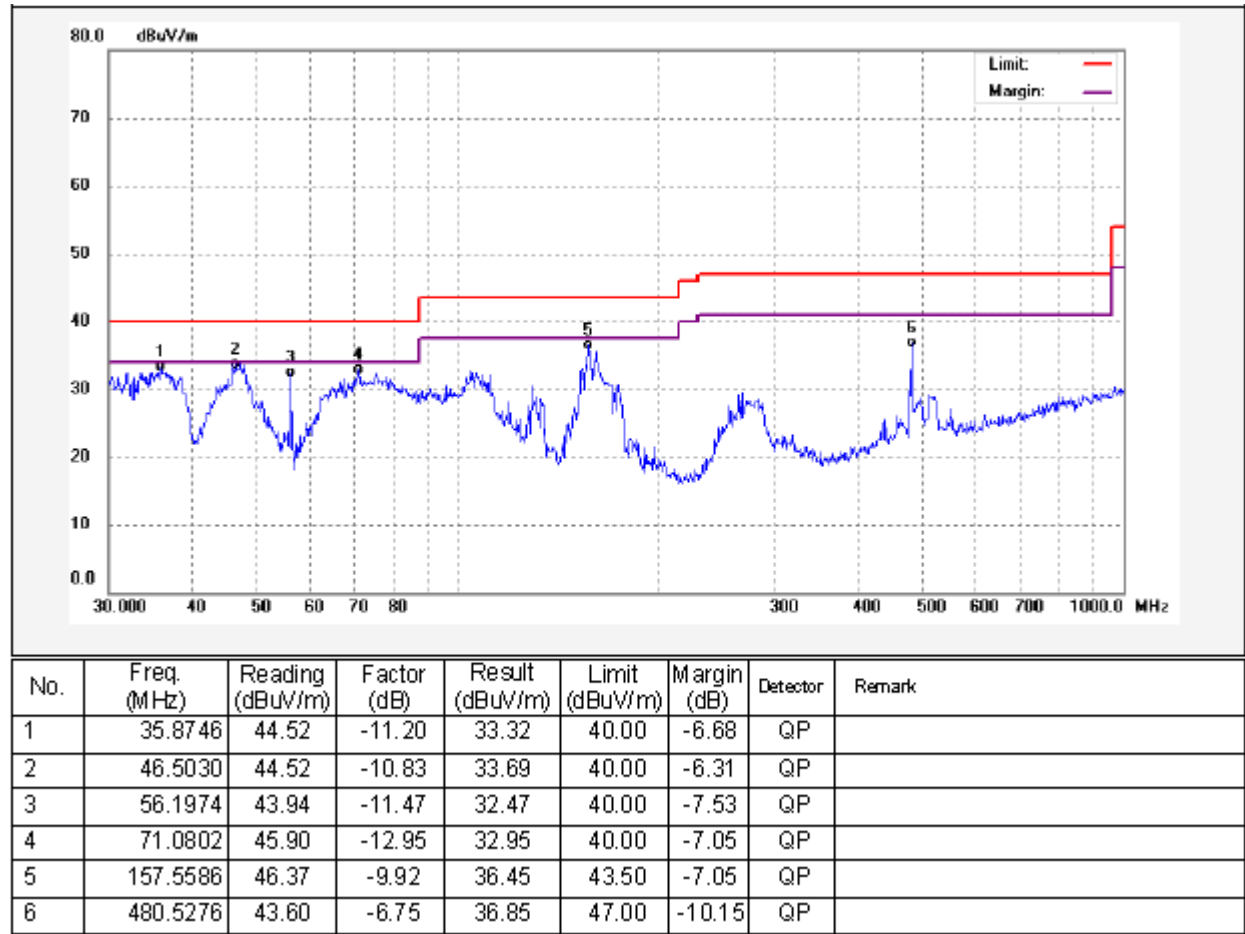


Antenna Polarization: Horizontal

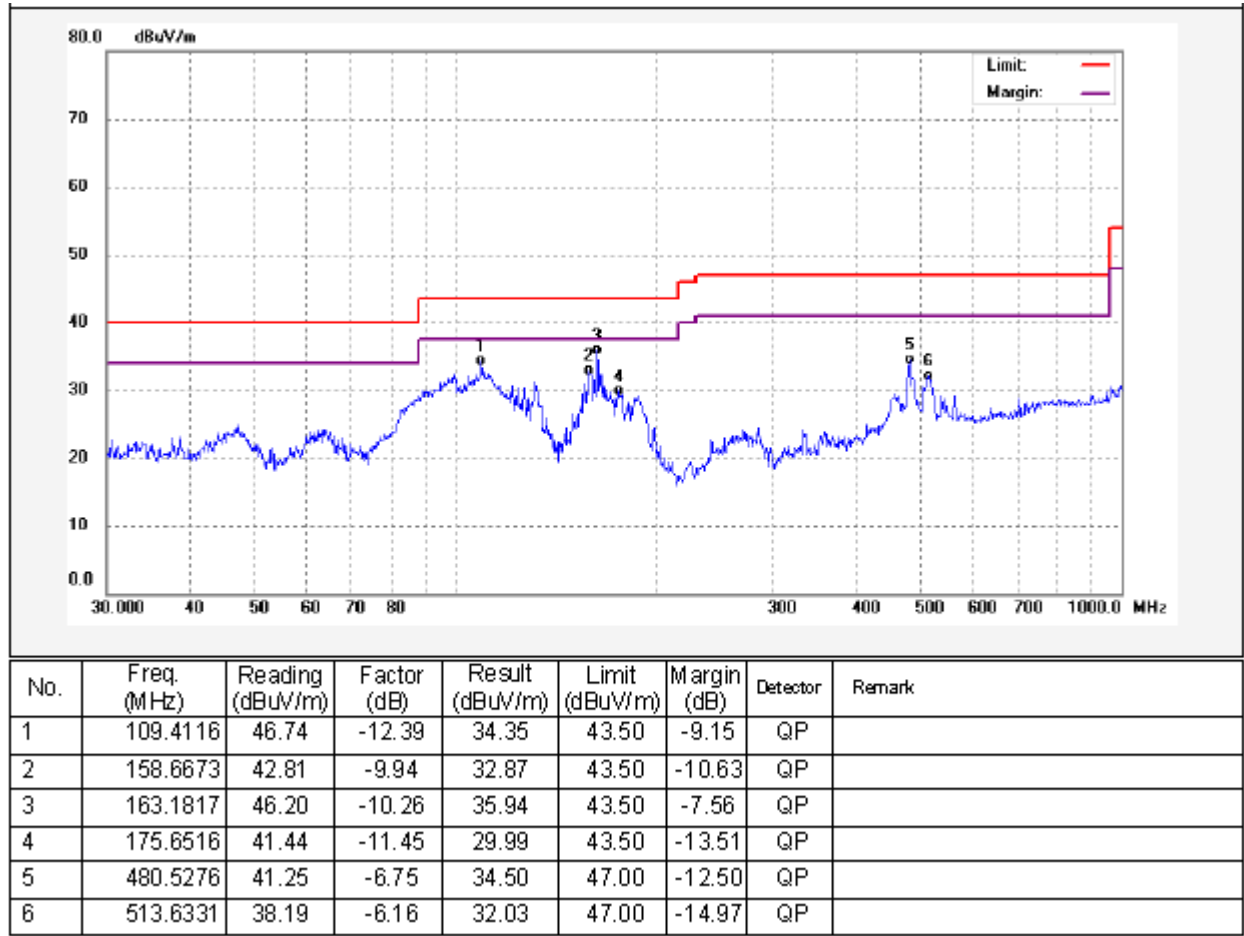


11n HT20: Middle

Antenna Polarization: Vertical

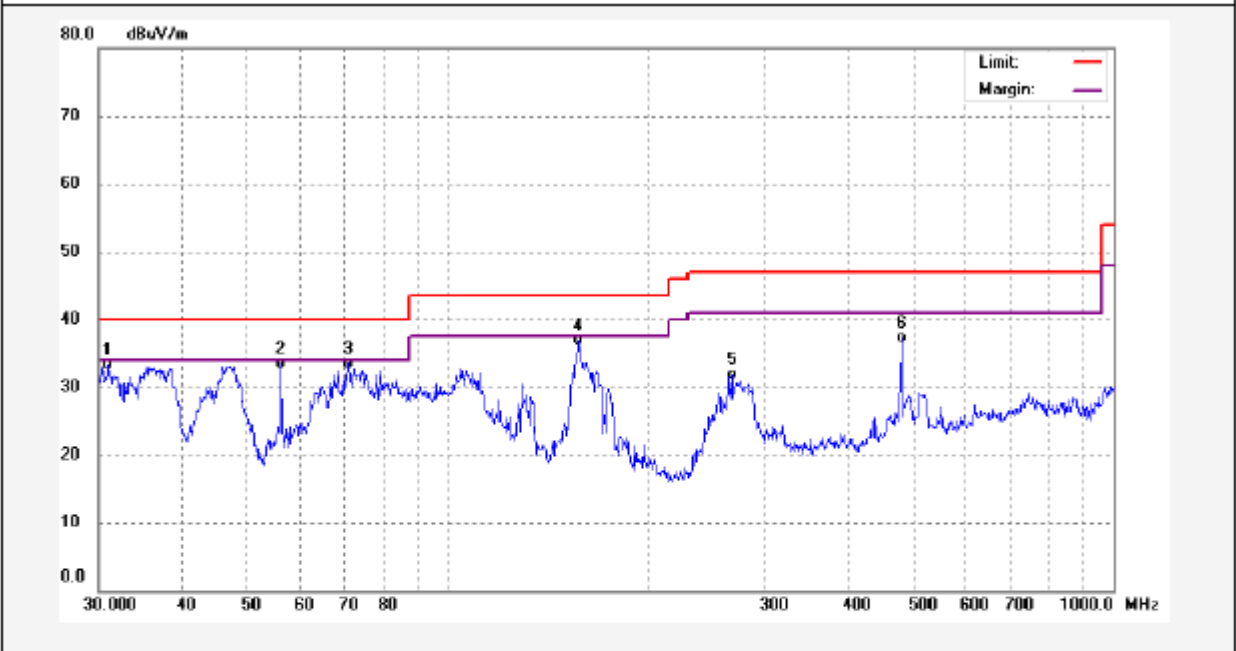


Antenna Polarization: Horizontal



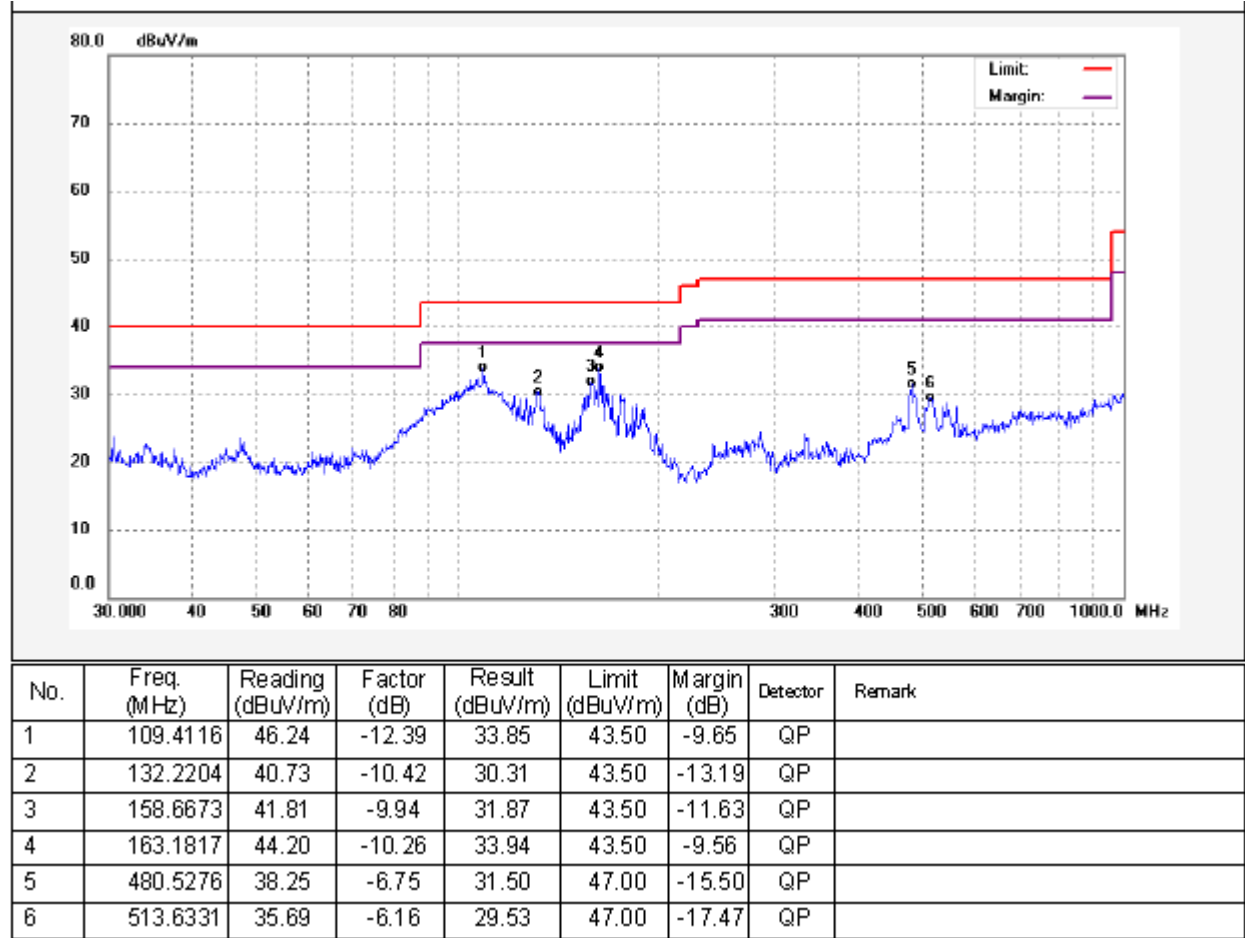
11n HT20: High

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.9618	45.00	-11.71	33.29	40.00	-6.71	QP	
2	56.1974	44.94	-11.47	33.47	40.00	-6.53	QP	
3	71.0802	46.40	-12.95	33.45	40.00	-6.55	QP	
4	157.5586	46.87	-9.92	36.95	43.50	-6.55	QP	
5	267.5452	43.21	-11.22	31.99	47.00	-15.01	QP	
6	480.5276	44.10	-6.75	37.35	47.00	-9.65	QP	

Antenna Polarization: Horizontal



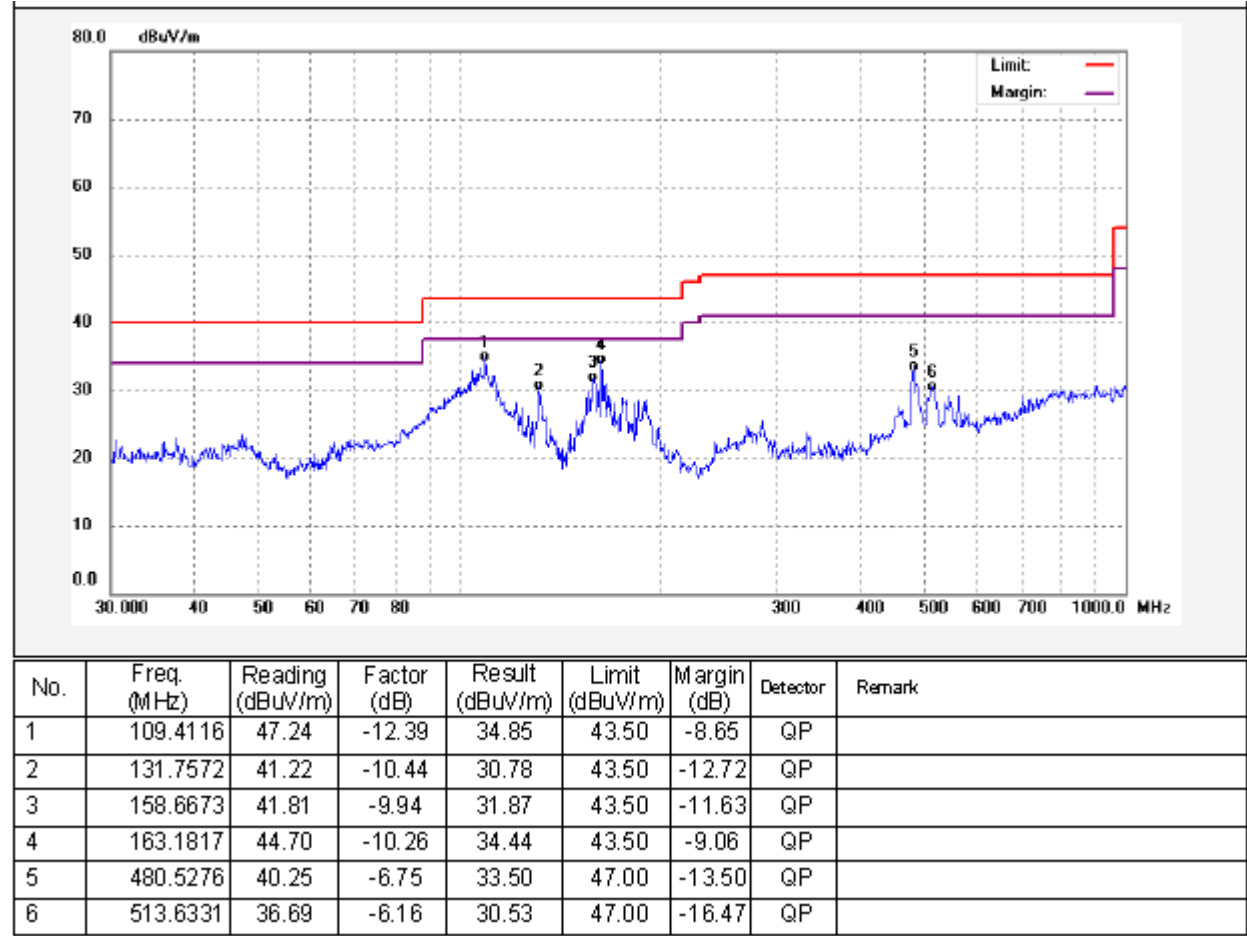
11n HT40: Low

Antenna Polarization: Vertical



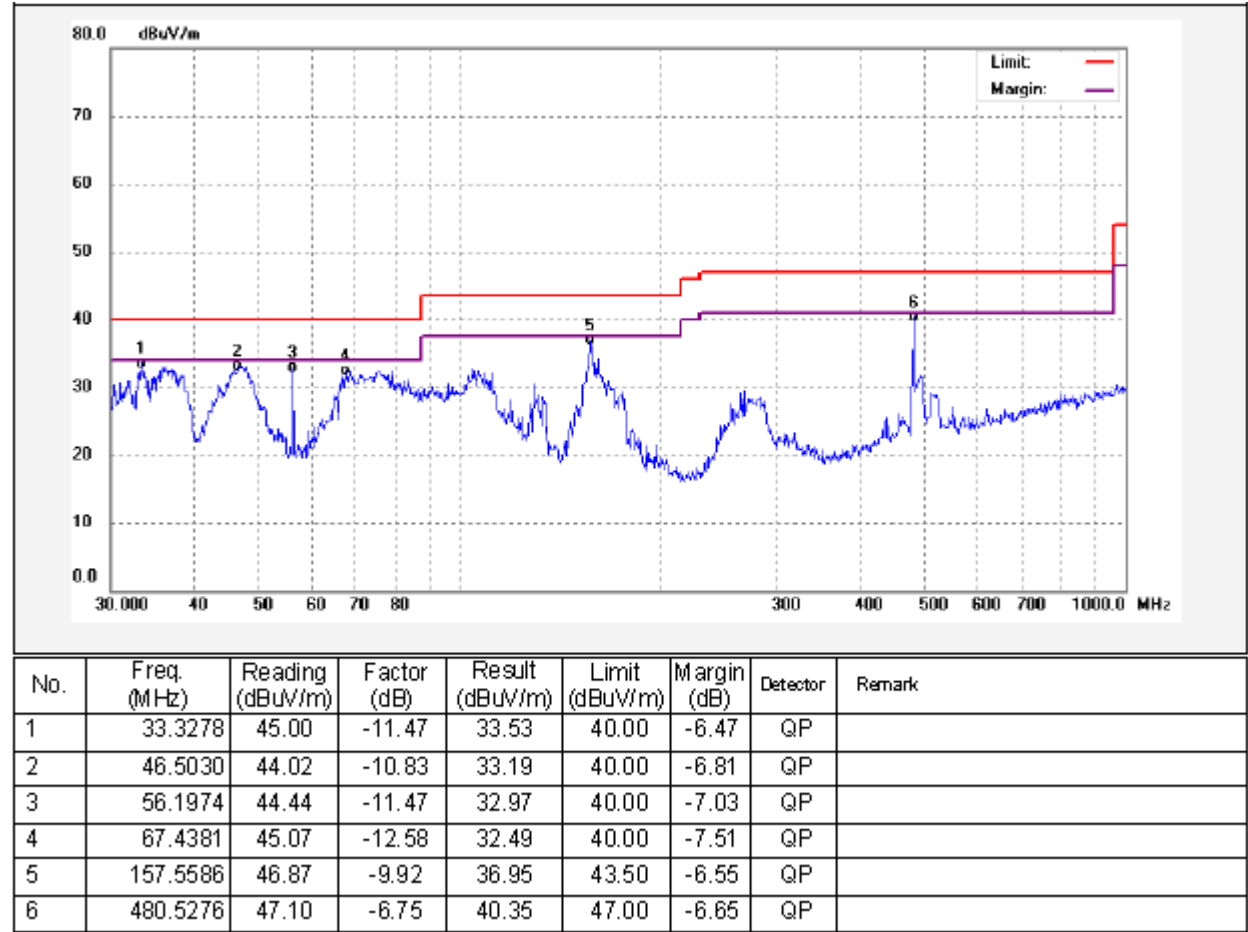
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.9618	44.50	-11.71	32.79	40.00	-7.21	QP	
2	46.5030	44.02	-10.83	33.19	40.00	-6.81	QP	
3	71.0802	46.40	-12.95	33.45	40.00	-6.55	QP	
4	79.2425	47.27	-13.76	33.51	40.00	-6.49	QP	
5	157.5586	46.37	-9.92	36.45	43.50	-7.05	QP	
6	480.5276	44.60	-6.75	37.85	47.00	-9.15	QP	

Antenna Polarization: Horizontal

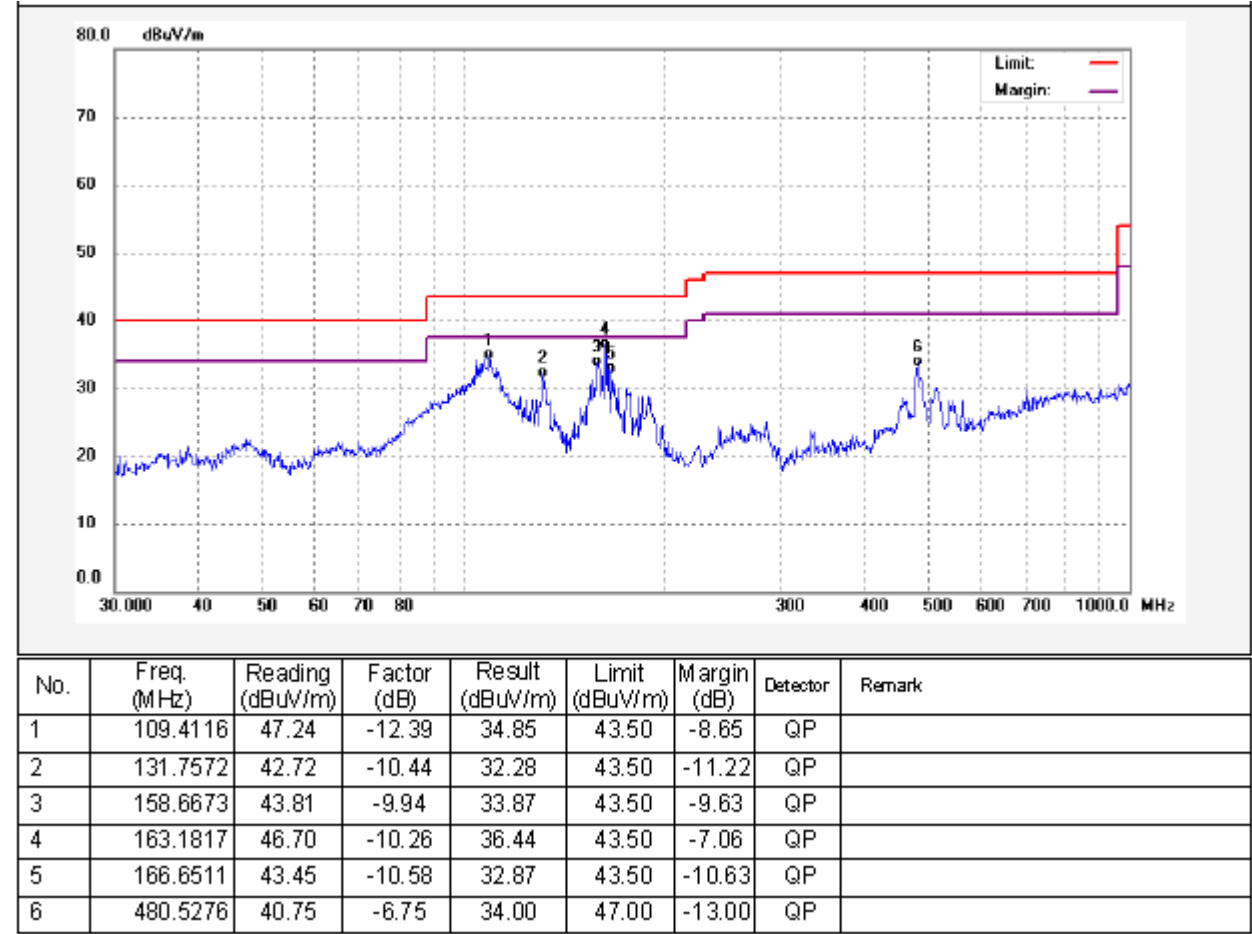


11n HT40: Middle

Antenna Polarization: Vertical

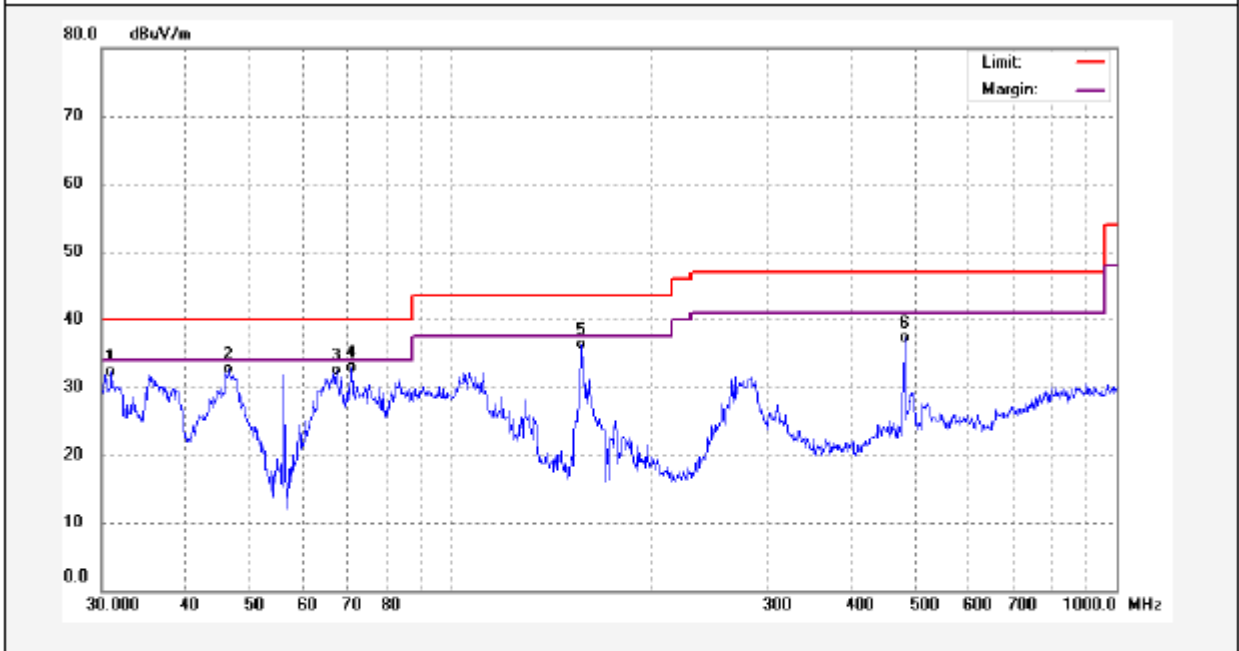


Antenna Polarization: Horizontal



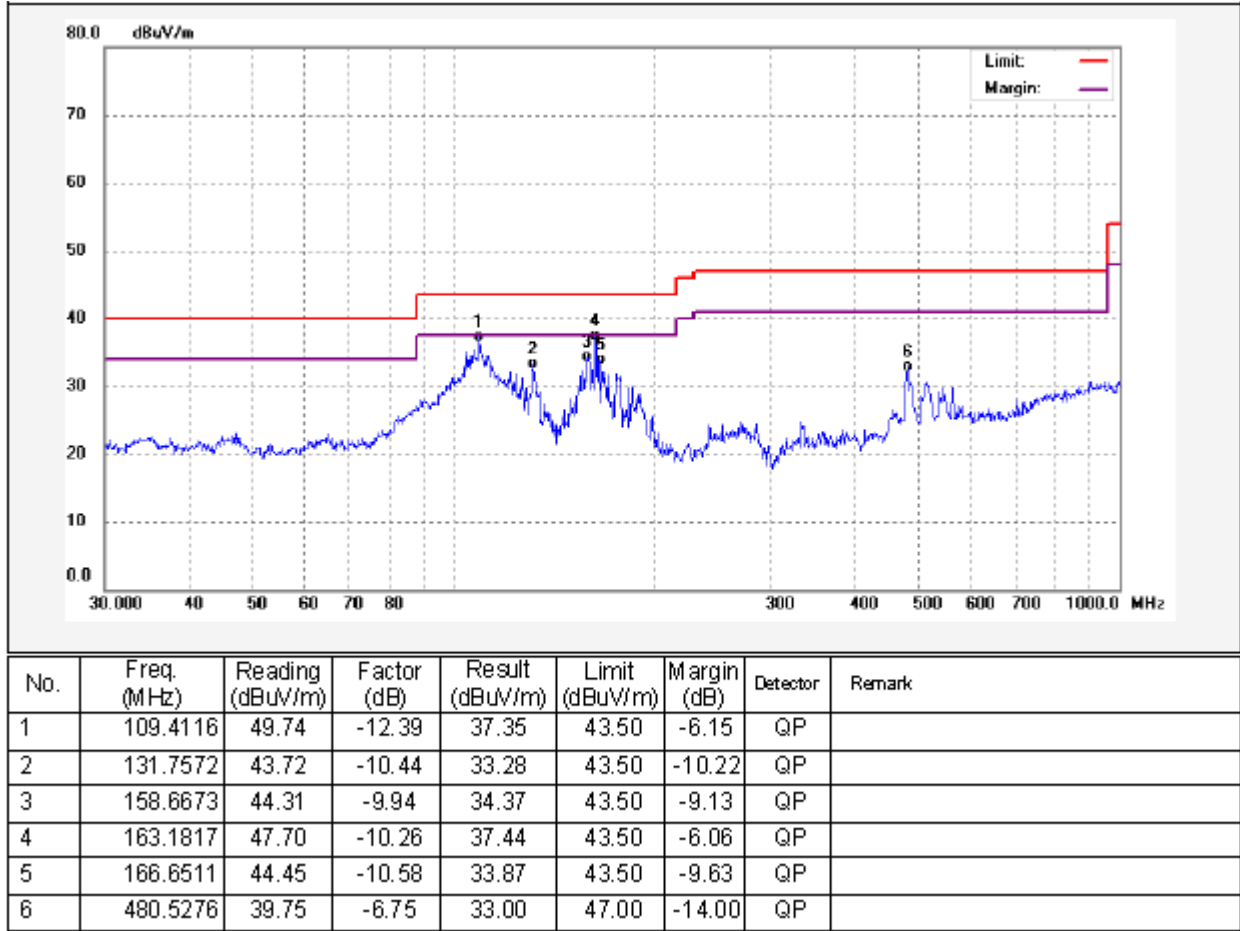
11n HT40: High

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.9618	44.00	-11.71	32.29	40.00	-7.71	QP	
2	46.5030	43.52	-10.83	32.69	40.00	-7.31	QP	
3	67.4381	45.07	-12.58	32.49	40.00	-7.51	QP	
4	71.0802	45.90	-12.95	32.95	40.00	-7.05	QP	
5	157.0072	46.13	-9.91	36.22	43.50	-7.28	QP	
6	480.5276	44.10	-6.75	37.35	47.00	-9.65	QP	

Antenna Polarization: Horizontal

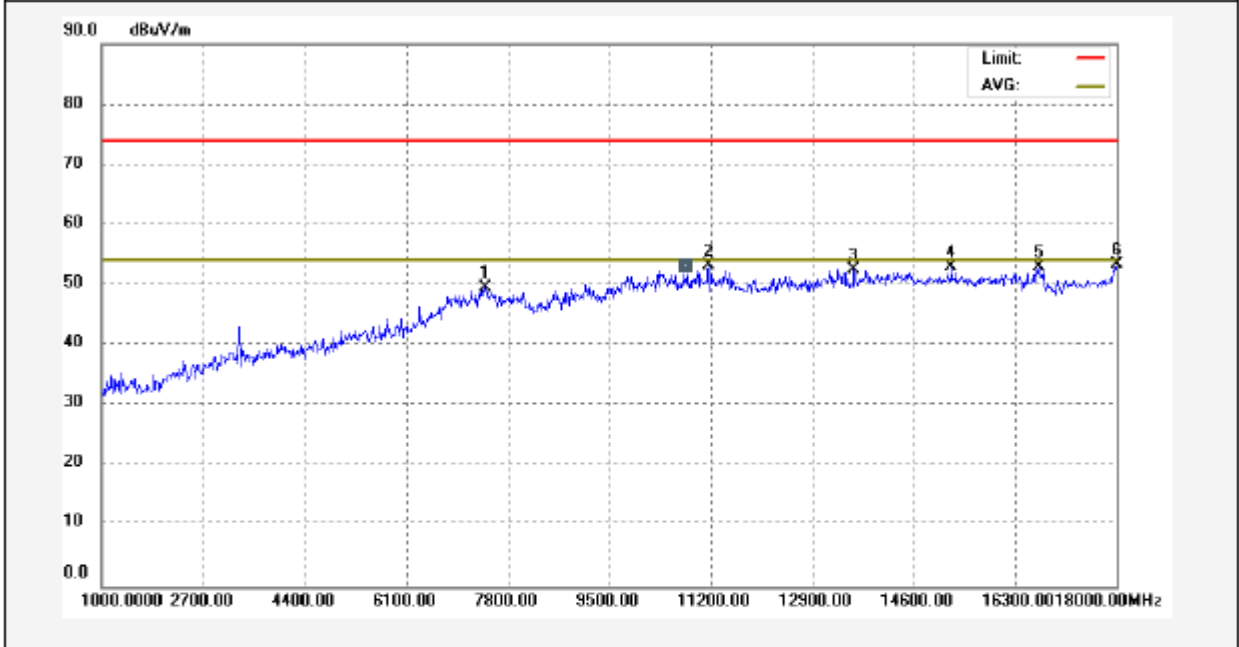


Radiated Restricted Band Emission, Above 1000MHz

Model: H02_Pro

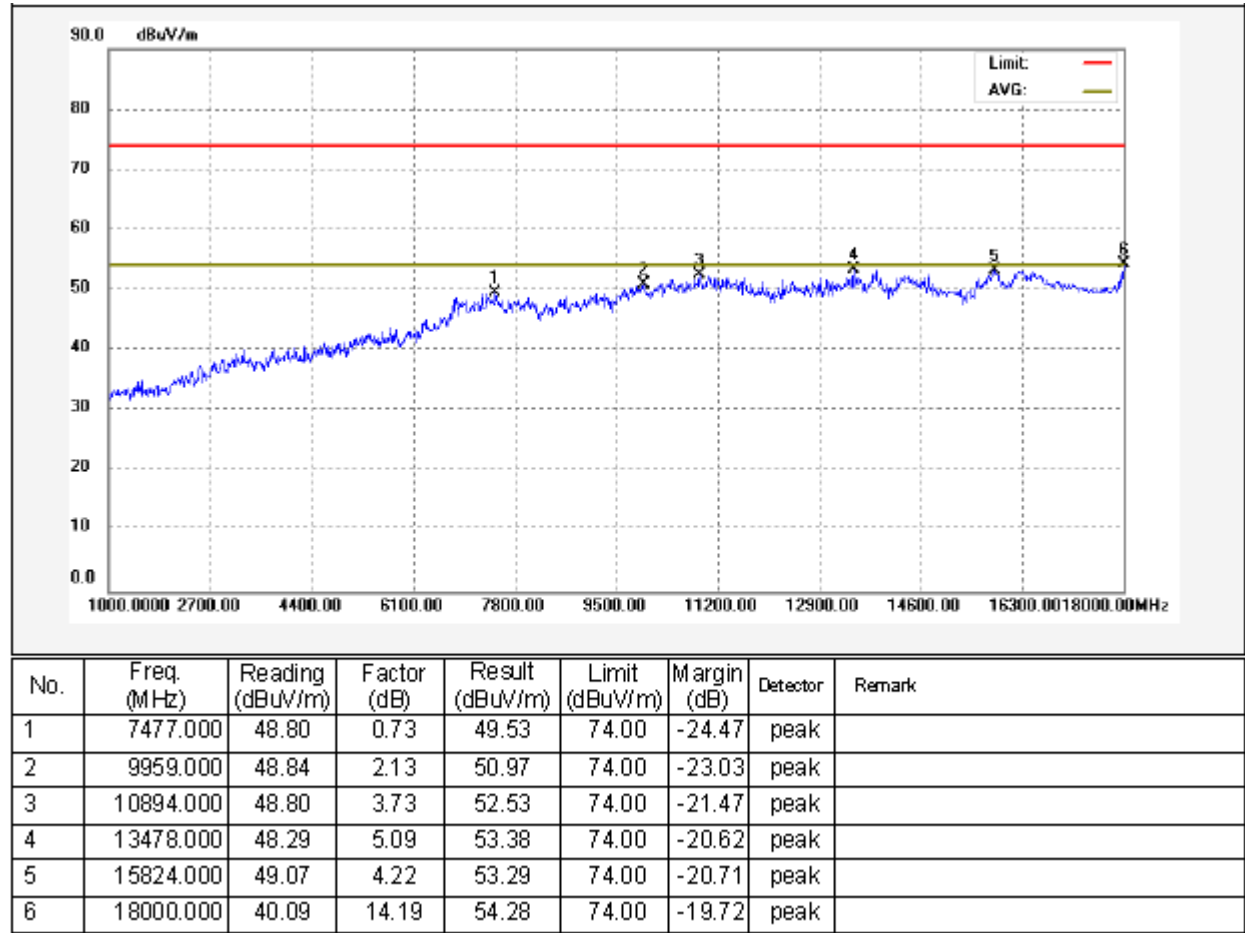
11b: Low

Antenna Polarization: Vertical



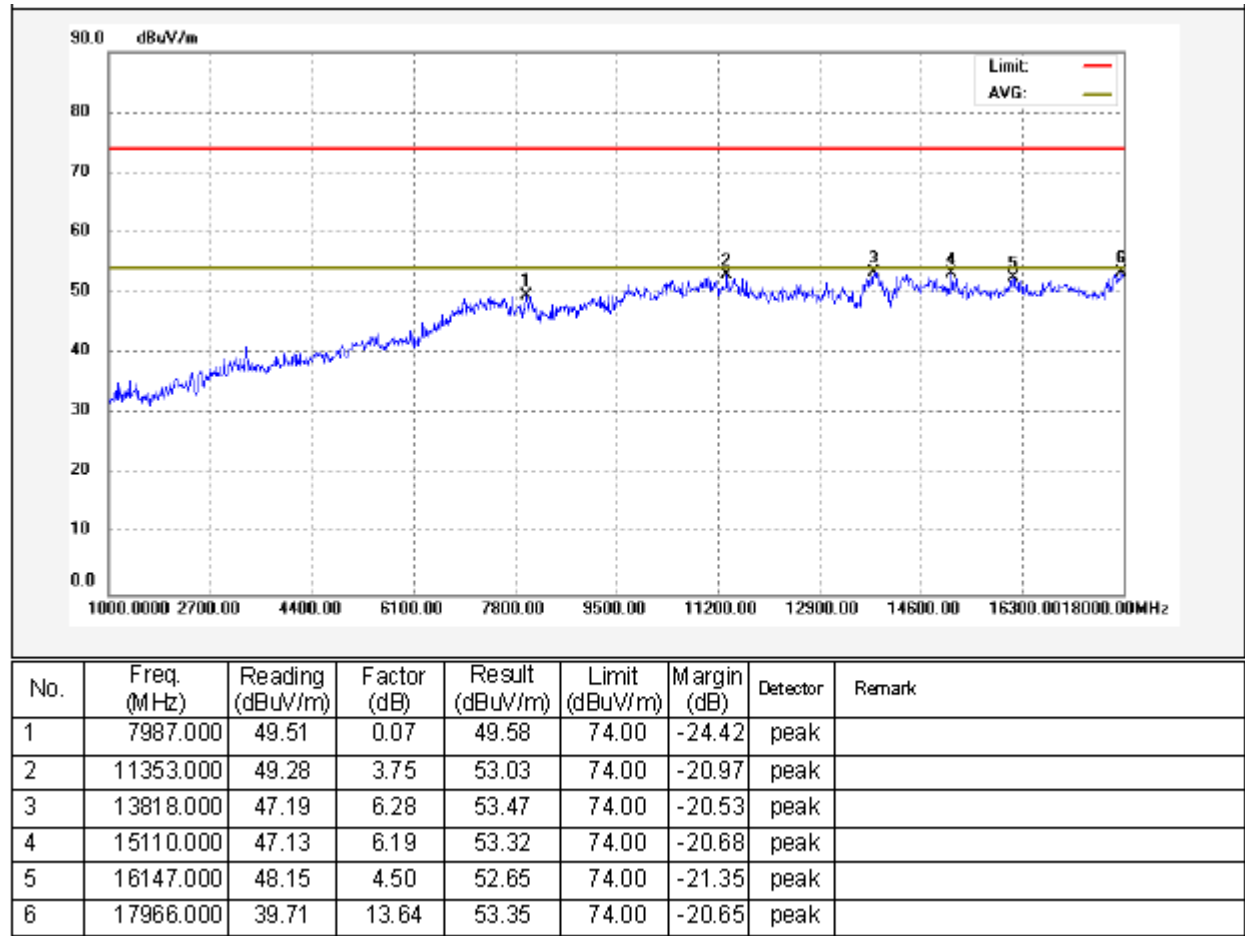
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7426.000	48.83	0.81	49.64	74.00	-24.36	peak	
2	11166.000	49.31	3.82	53.13	74.00	-20.87	peak	
3	13597.000	46.98	5.52	52.50	74.00	-21.50	peak	
4	15229.000	47.32	5.63	52.95	74.00	-21.05	peak	
5	16691.000	46.57	6.47	53.04	74.00	-20.96	peak	
6	18000.000	39.22	14.19	53.41	74.00	-20.59	peak	

Antenna Polarization: Horizontal

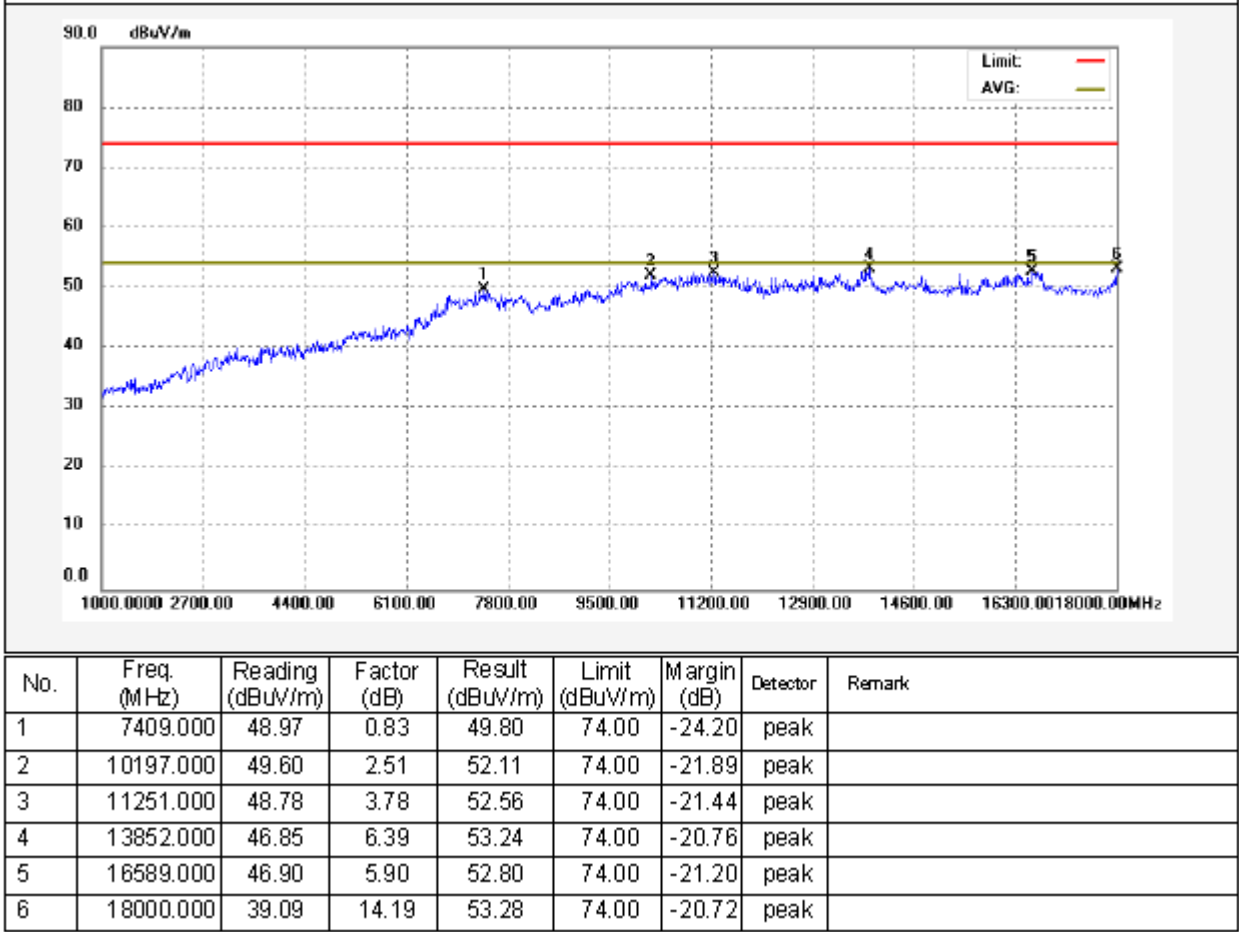


11b: Middle

Antenna Polarization: Vertical

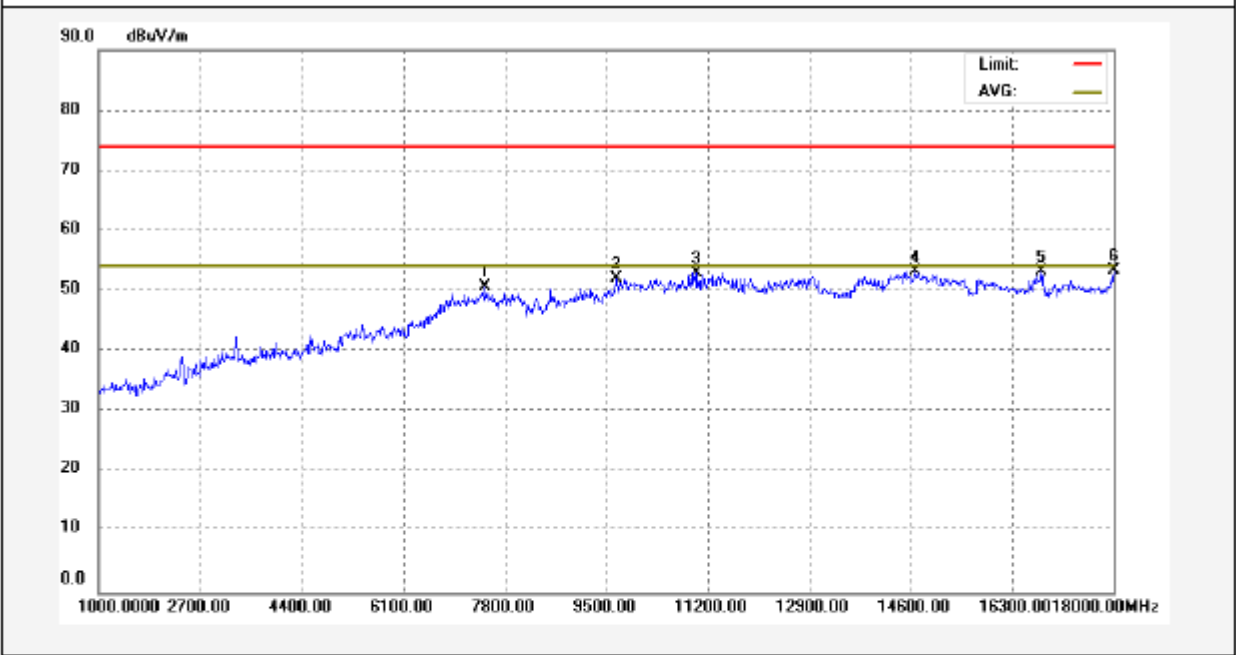


Antenna Polarization: Horizontal



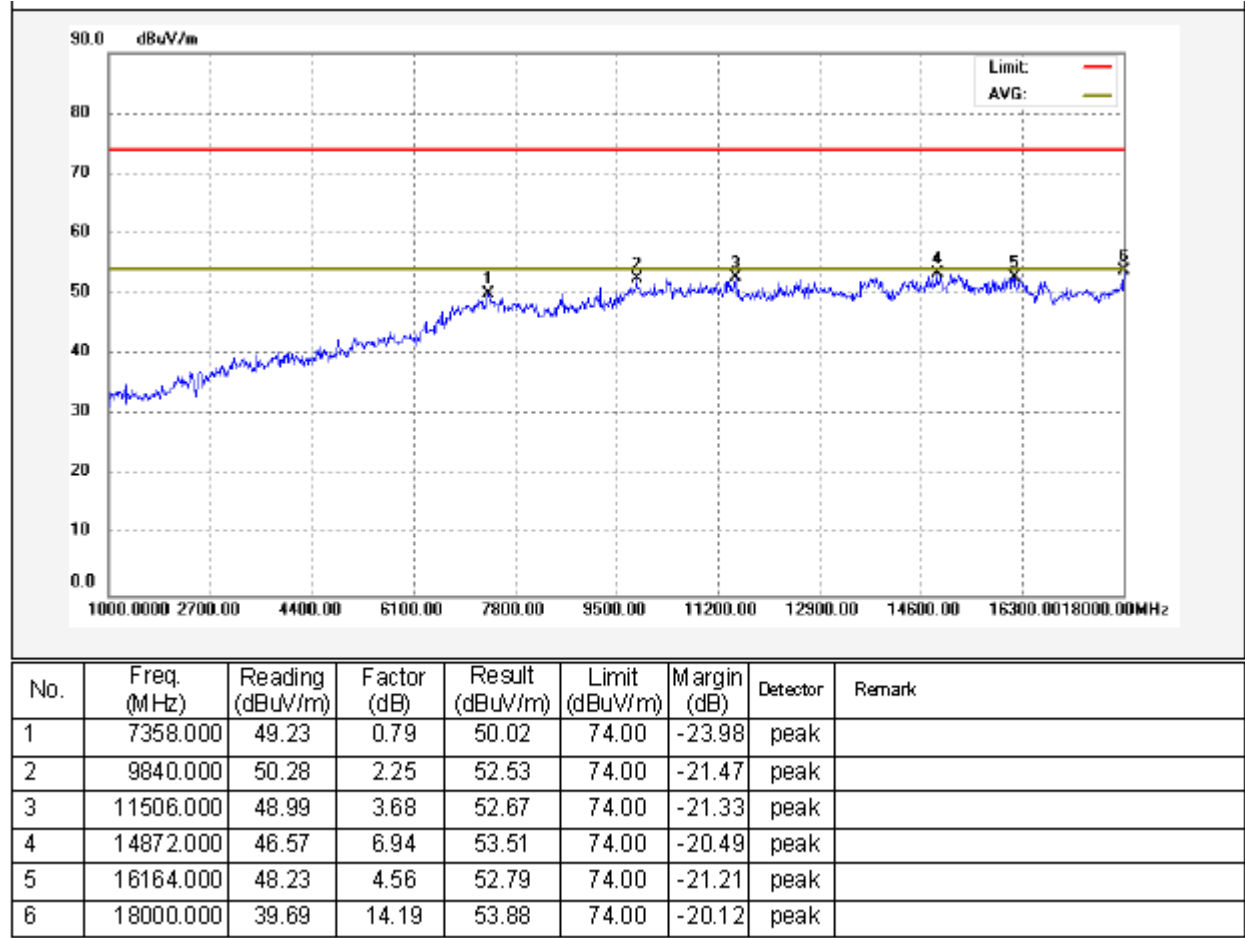
11b: High

Antenna Polarization: Vertical



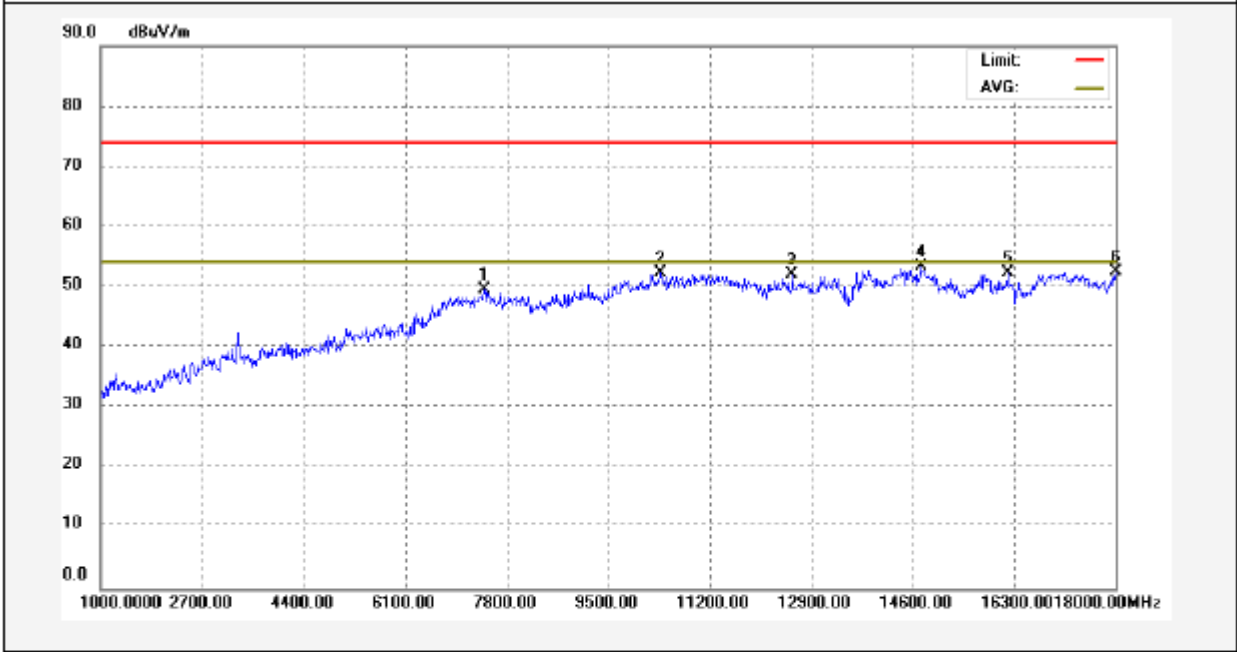
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7477.000	49.94	0.73	50.67	74.00	-23.33	peak	
2	9670.000	50.34	1.77	52.11	74.00	-21.89	peak	
3	11013.000	49.11	3.88	52.99	74.00	-21.01	peak	
4	14668.000	45.84	7.33	53.17	74.00	-20.83	peak	
5	16776.000	46.23	6.96	53.19	74.00	-20.81	peak	
6	18000.000	39.14	14.19	53.33	74.00	-20.67	peak	

Antenna Polarization: Horizontal



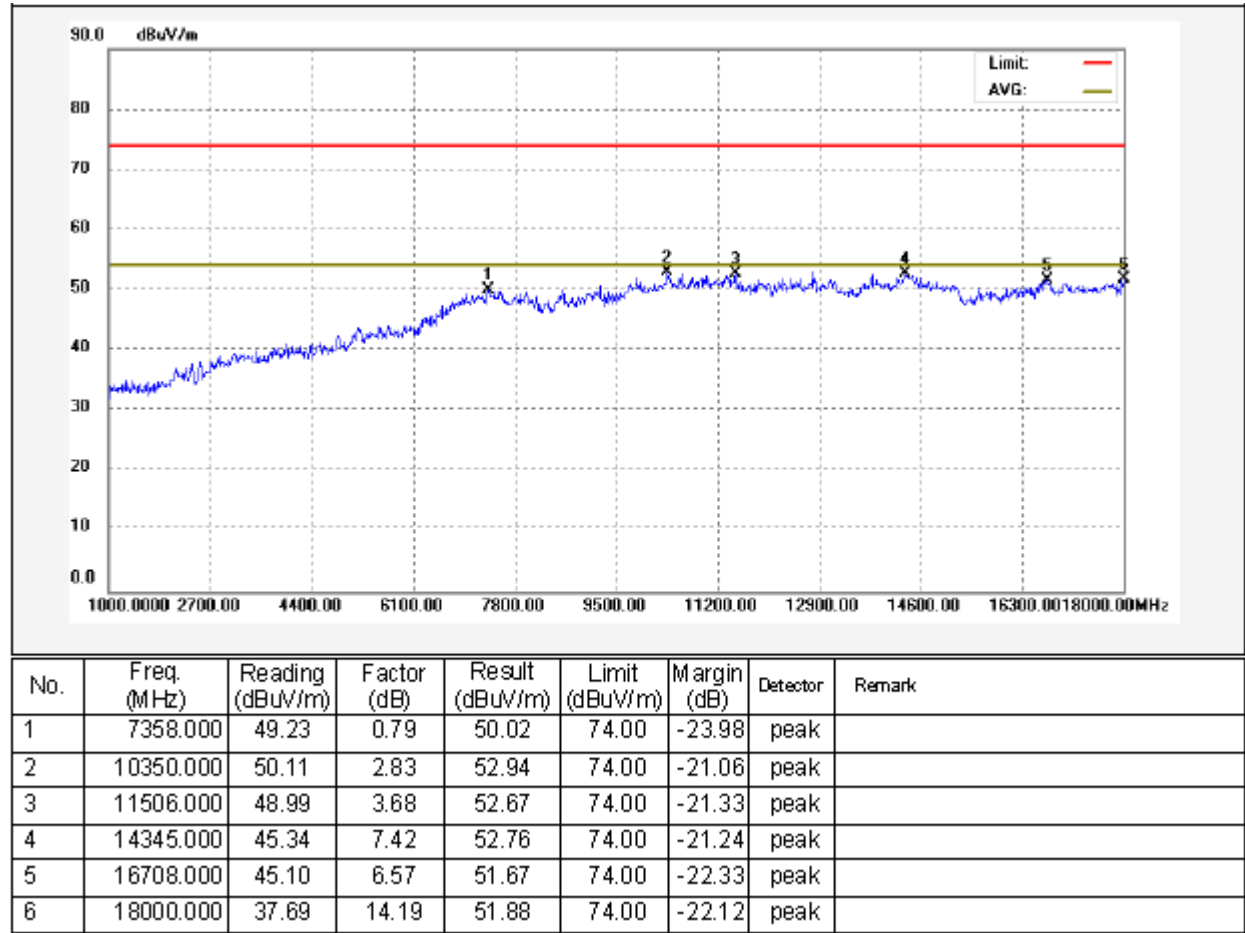
11g: Low

Antenna Polarization: Vertical



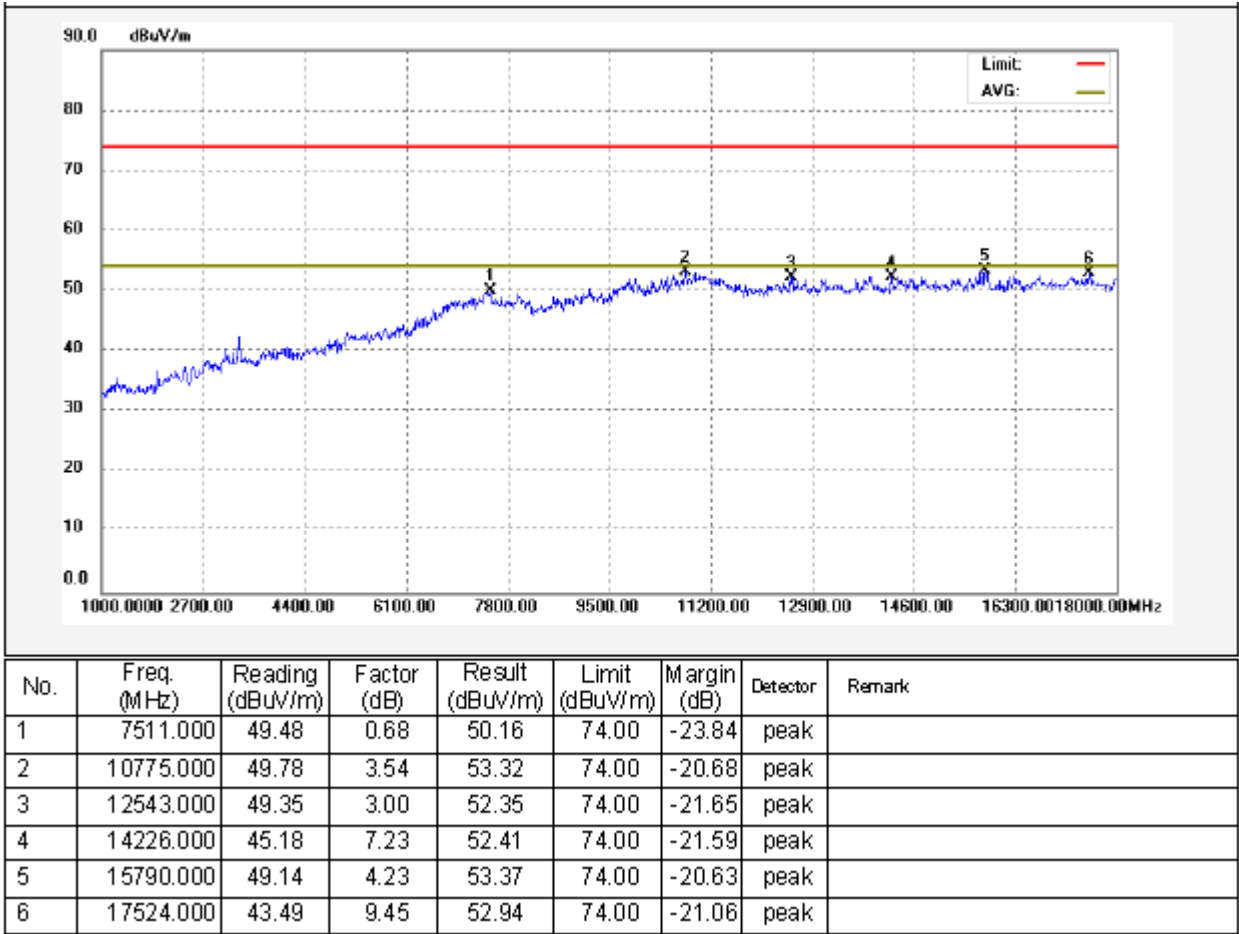
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7426.000	48.73	0.81	49.54	74.00	-24.46	peak	
2	10367.000	49.44	2.86	52.30	74.00	-21.70	peak	
3	12577.000	49.16	3.02	52.18	74.00	-21.82	peak	
4	14736.000	46.14	7.20	53.34	74.00	-20.66	peak	
5	16198.000	47.70	4.64	52.34	74.00	-21.66	peak	
6	18000.000	38.31	14.19	52.50	74.00	-21.50	peak	

Antenna Polarization: Horizontal

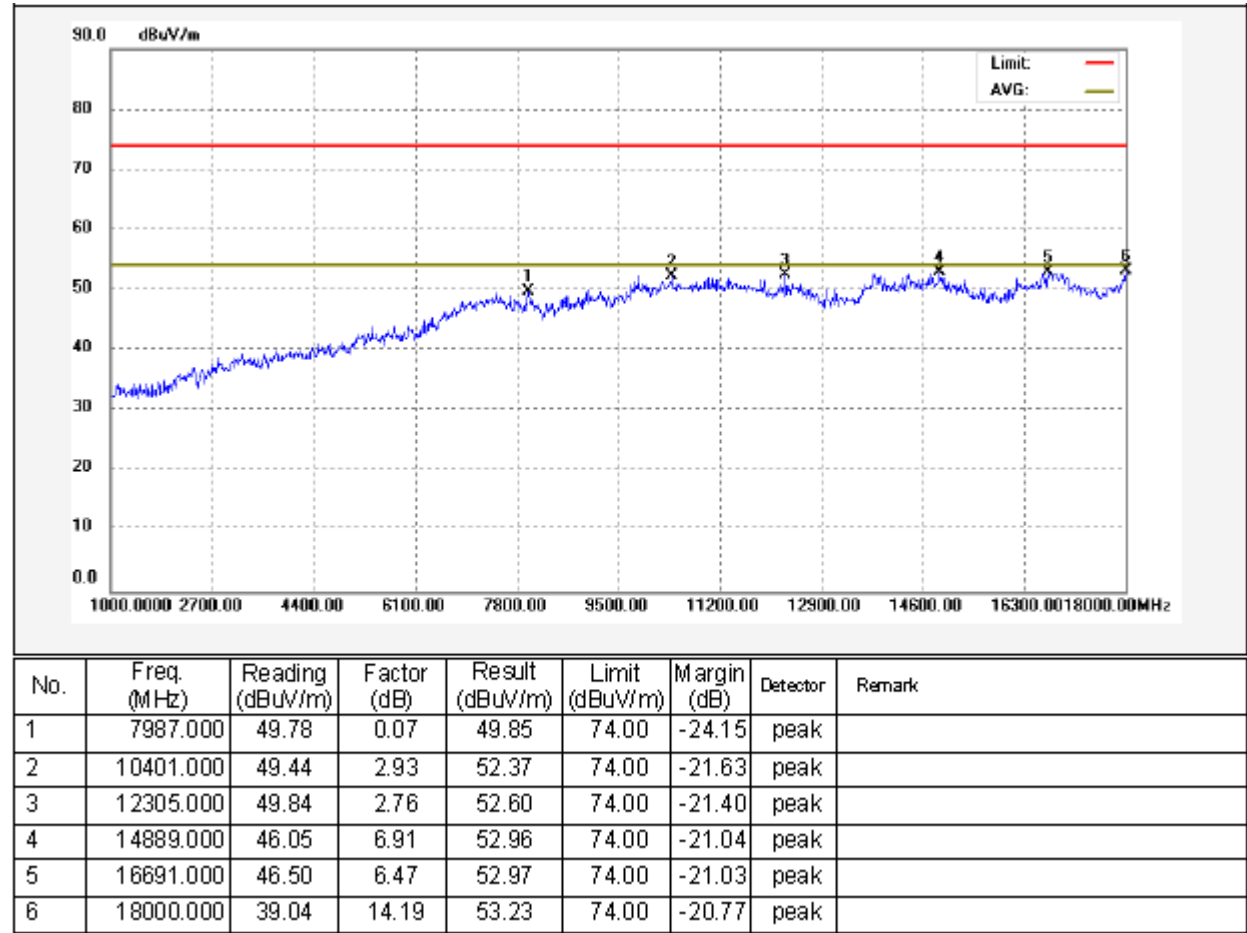


11g: Middle

Antenna Polarization: Vertical

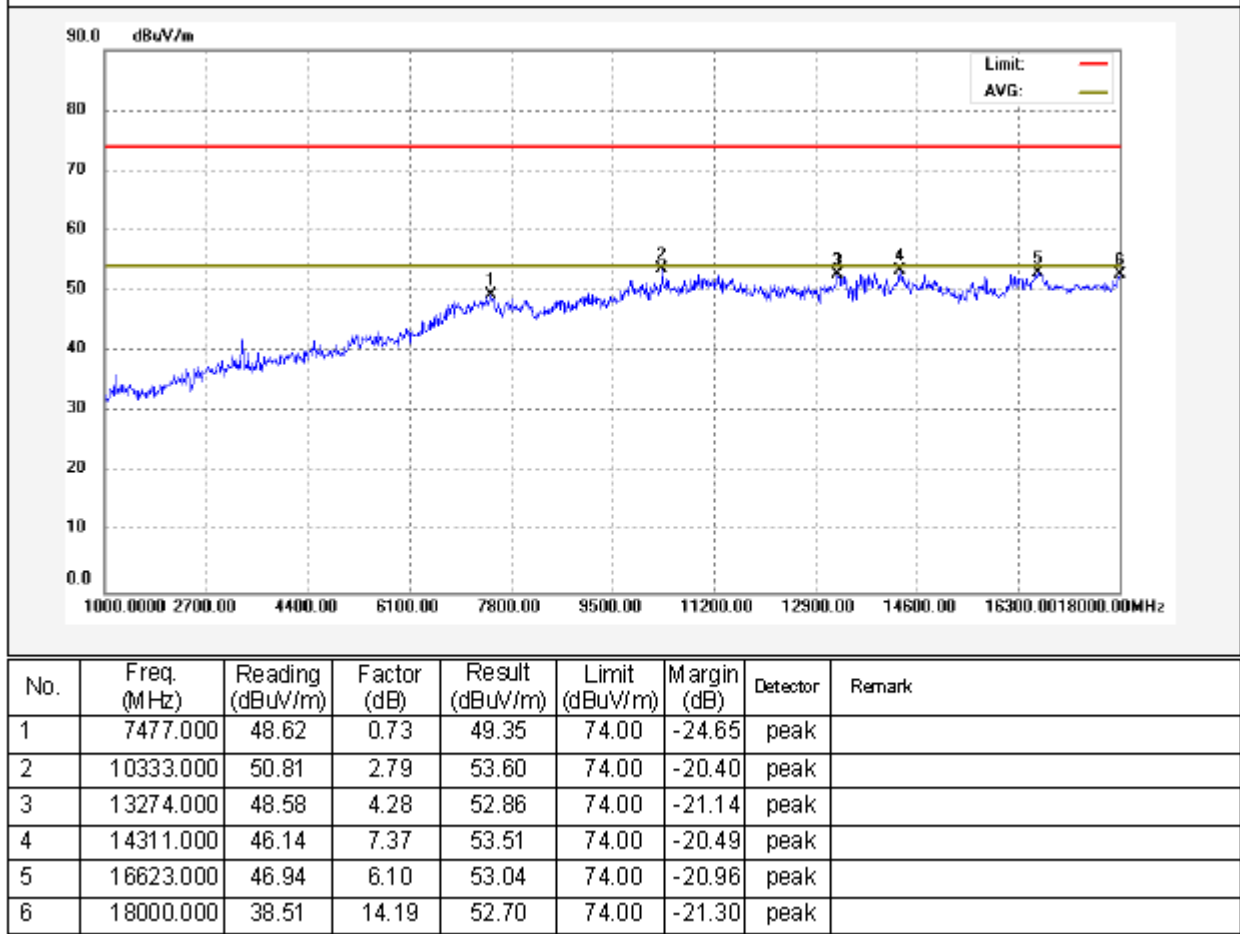


Antenna Polarization: Horizontal

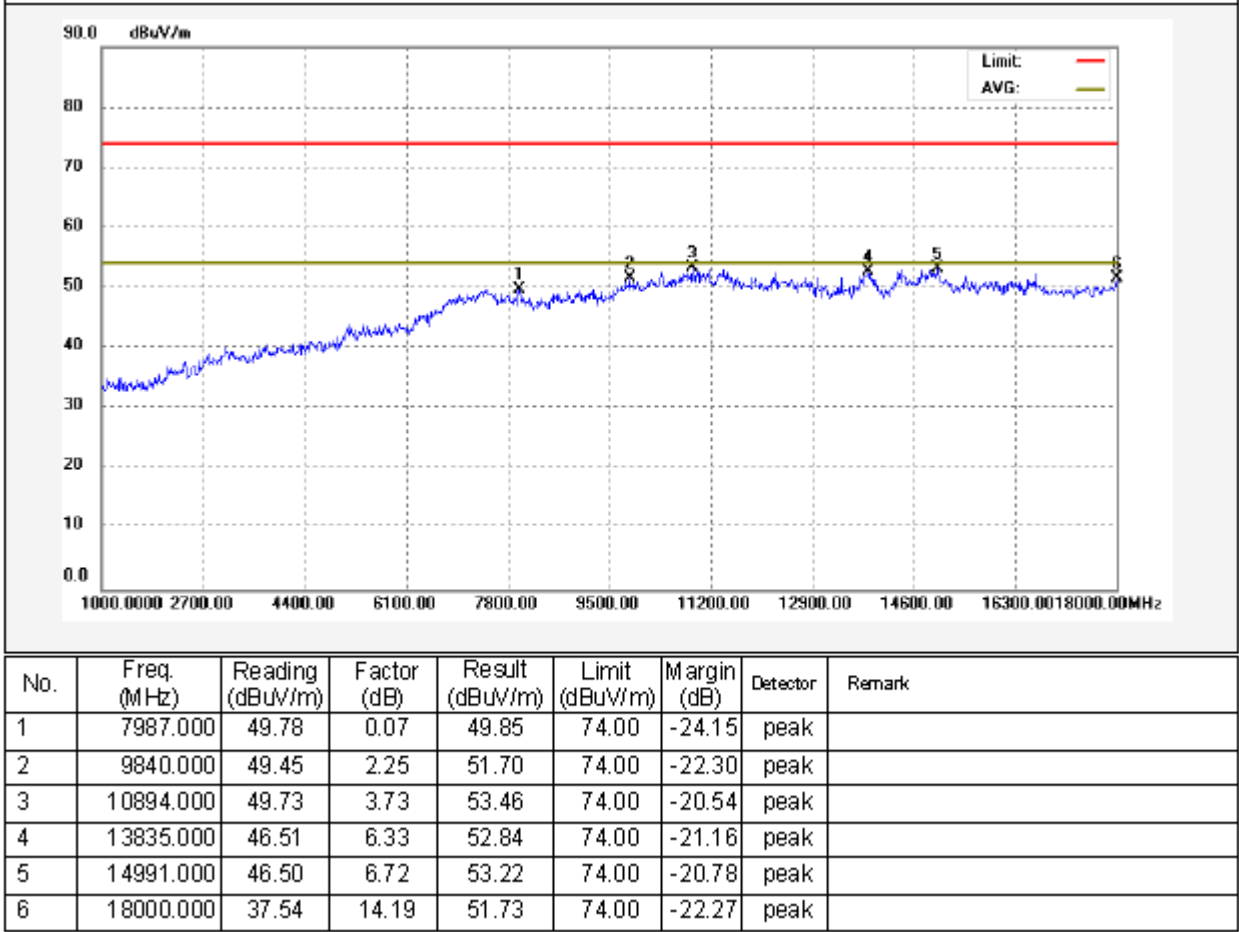


11g: High

Antenna Polarization: Vertical

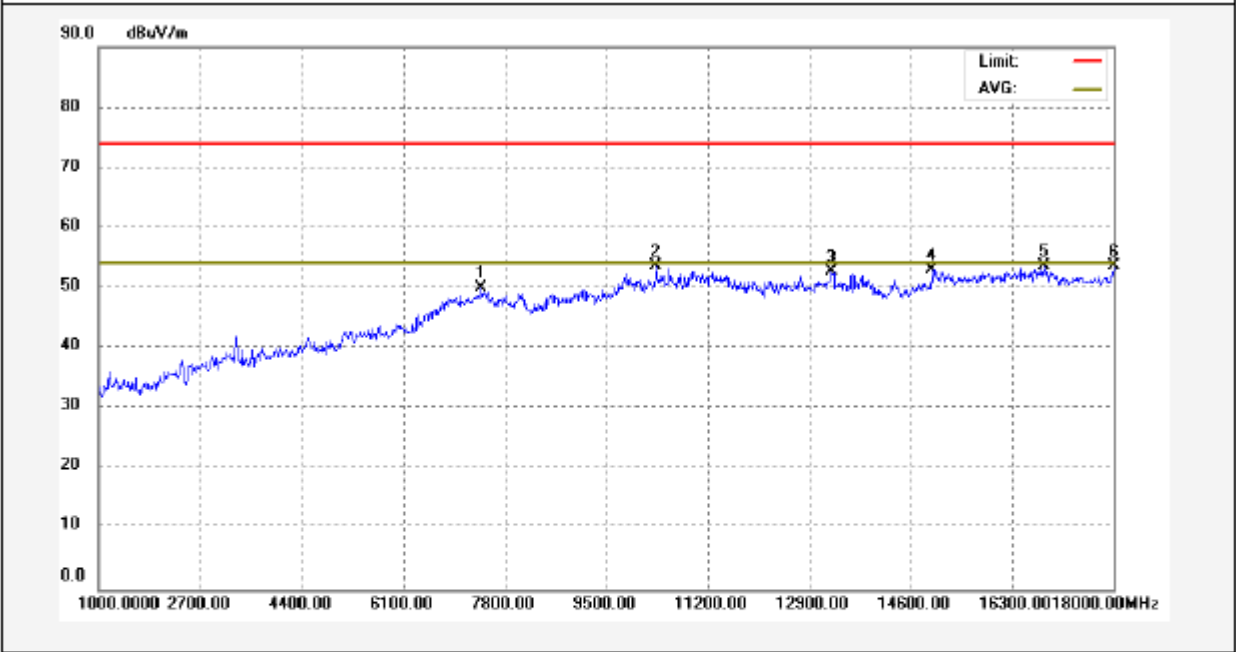


Antenna Polarization: Horizontal



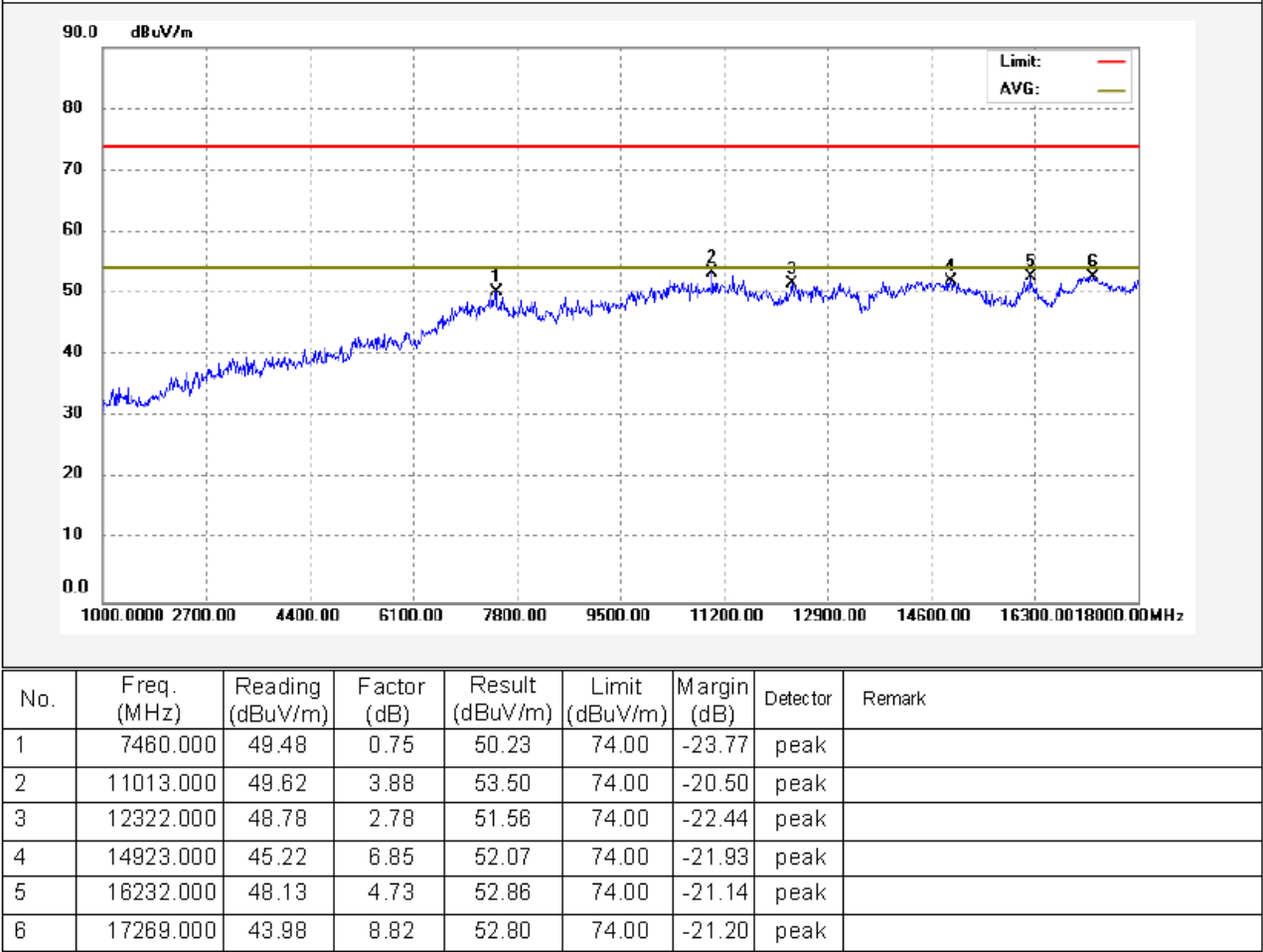
11n HT20: Low

Antenna Polarization: Vertical



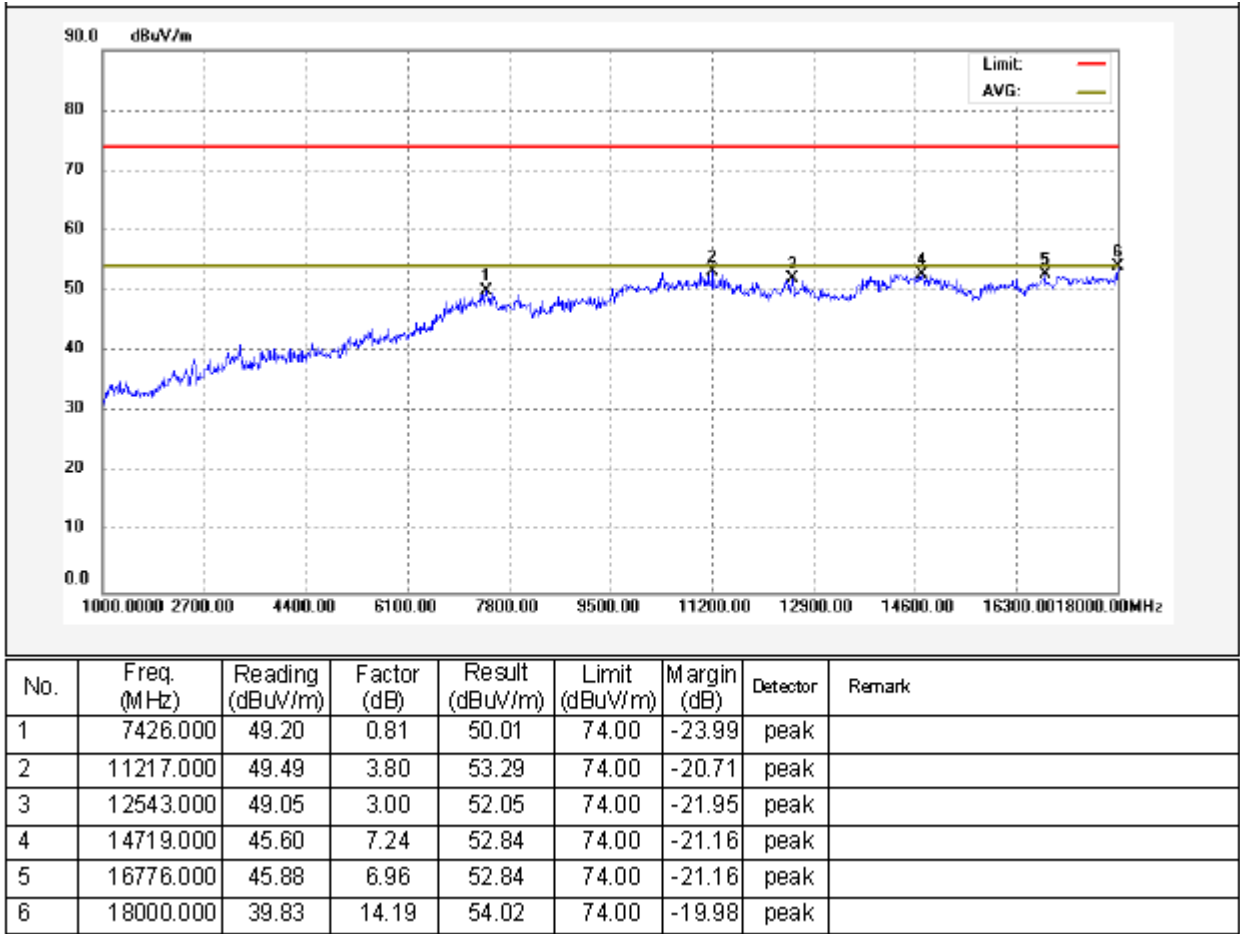
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7409.000	49.23	0.83	50.06	74.00	-23.94	peak	
2	10333.000	50.81	2.79	53.60	74.00	-20.40	peak	
3	13274.000	48.58	4.28	52.86	74.00	-21.14	peak	
4	14957.000	46.22	6.78	53.00	74.00	-21.00	peak	
5	16827.000	46.49	7.25	53.74	74.00	-20.26	peak	
6	18000.000	39.51	14.19	53.70	74.00	-20.30	peak	

Antenna Polarization: Horizontal

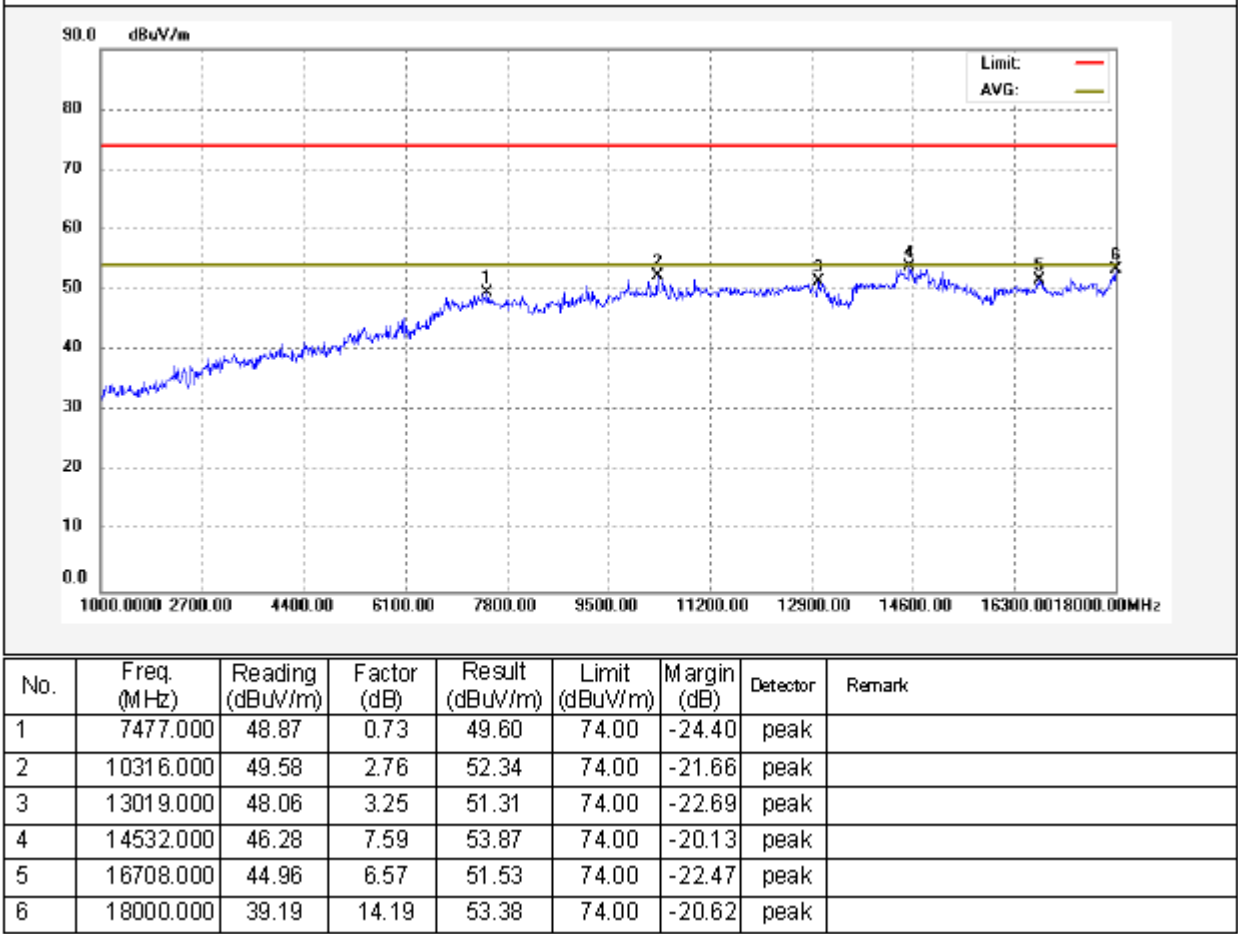


11n HT20: Middle

Antenna Polarization: Vertical

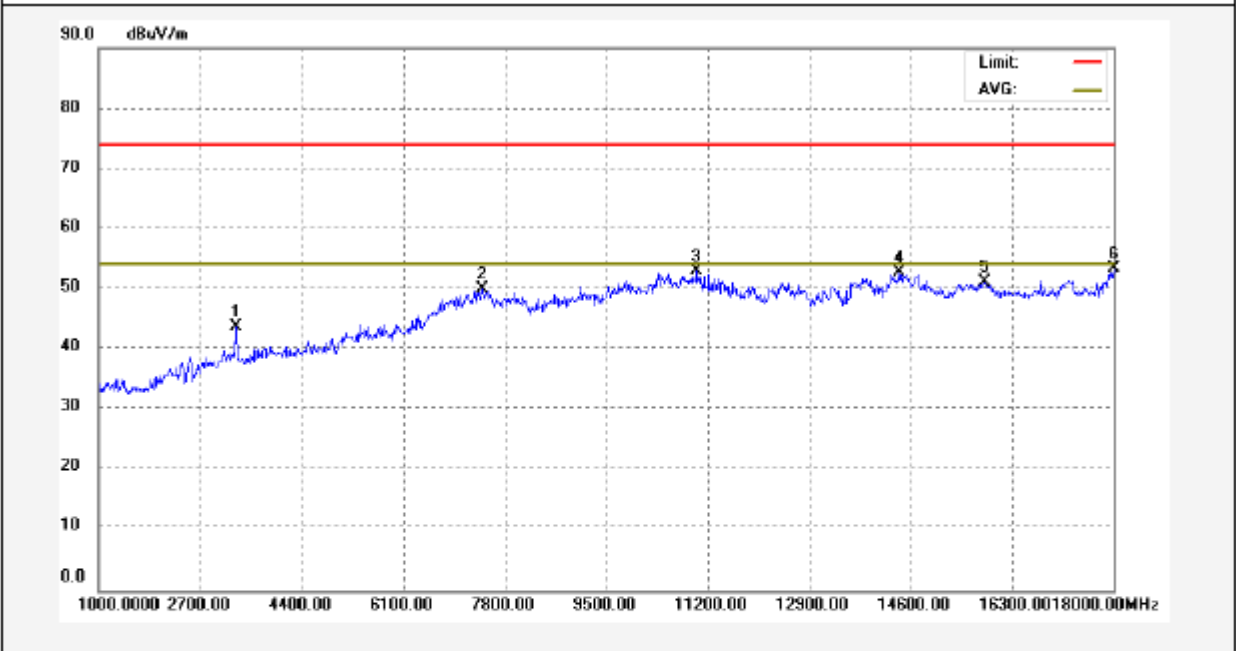


Antenna Polarization: Horizontal



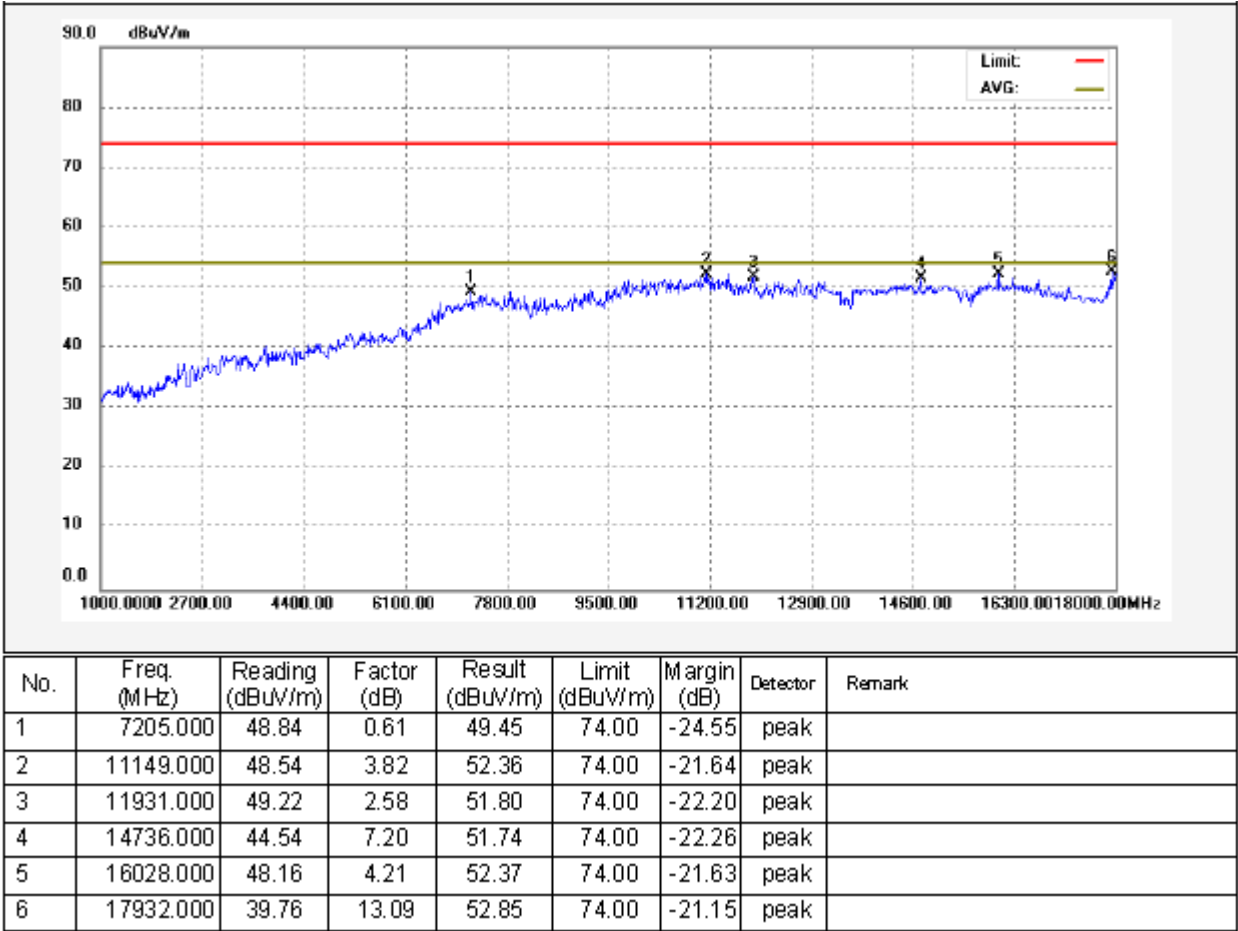
11n HT20: High

Antenna Polarization: Vertical



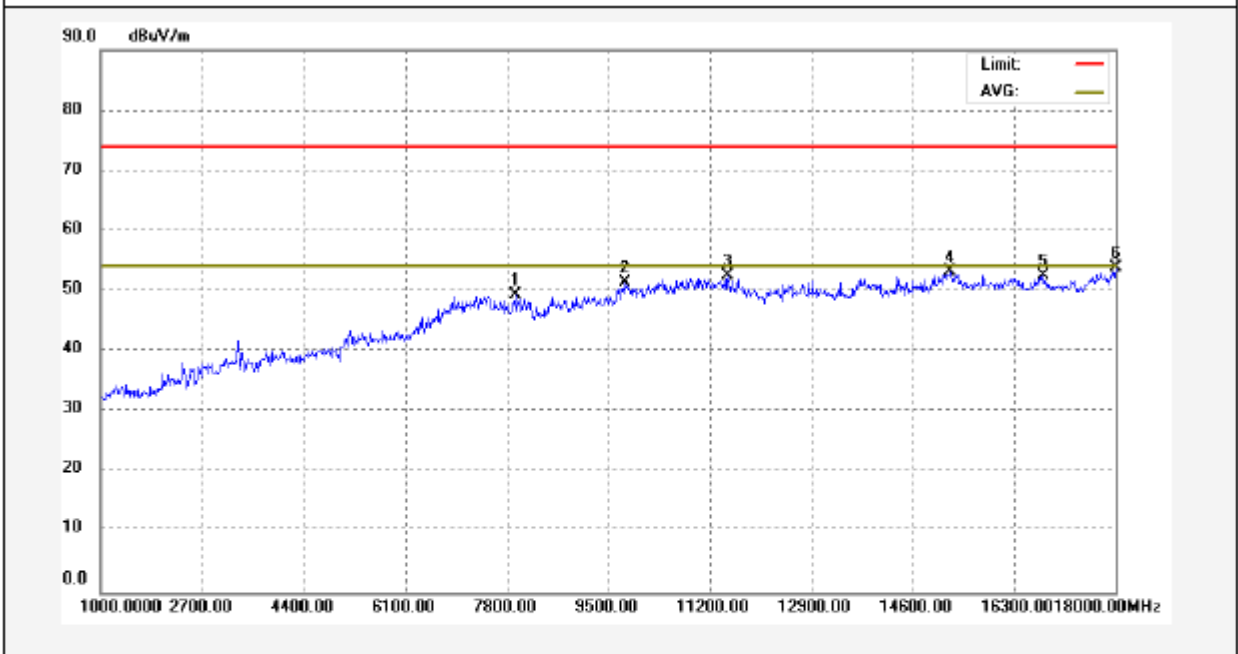
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	3295.000	52.67	-8.96	43.71	74.00	-30.29	peak	
2	7426.000	49.20	0.81	50.01	74.00	-23.99	peak	
3	11013.000	49.00	3.88	52.88	74.00	-21.12	peak	
4	14413.000	45.25	7.52	52.77	74.00	-21.23	peak	
5	15841.000	46.98	4.22	51.20	74.00	-22.80	peak	
6	18000.000	39.33	14.19	53.52	74.00	-20.48	peak	

Antenna Polarization: Horizontal



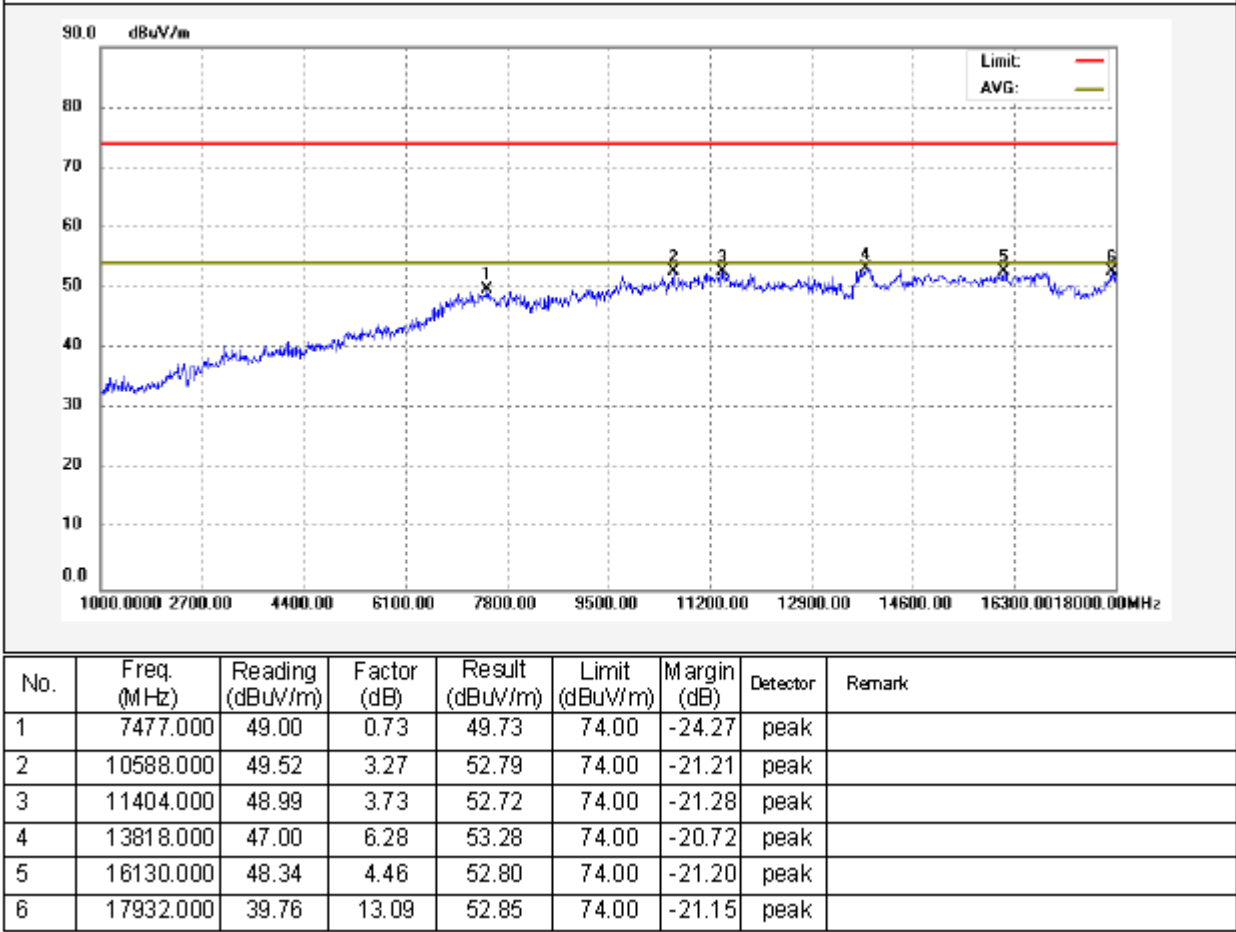
11n HT40: Low

Antenna Polarization: Vertical



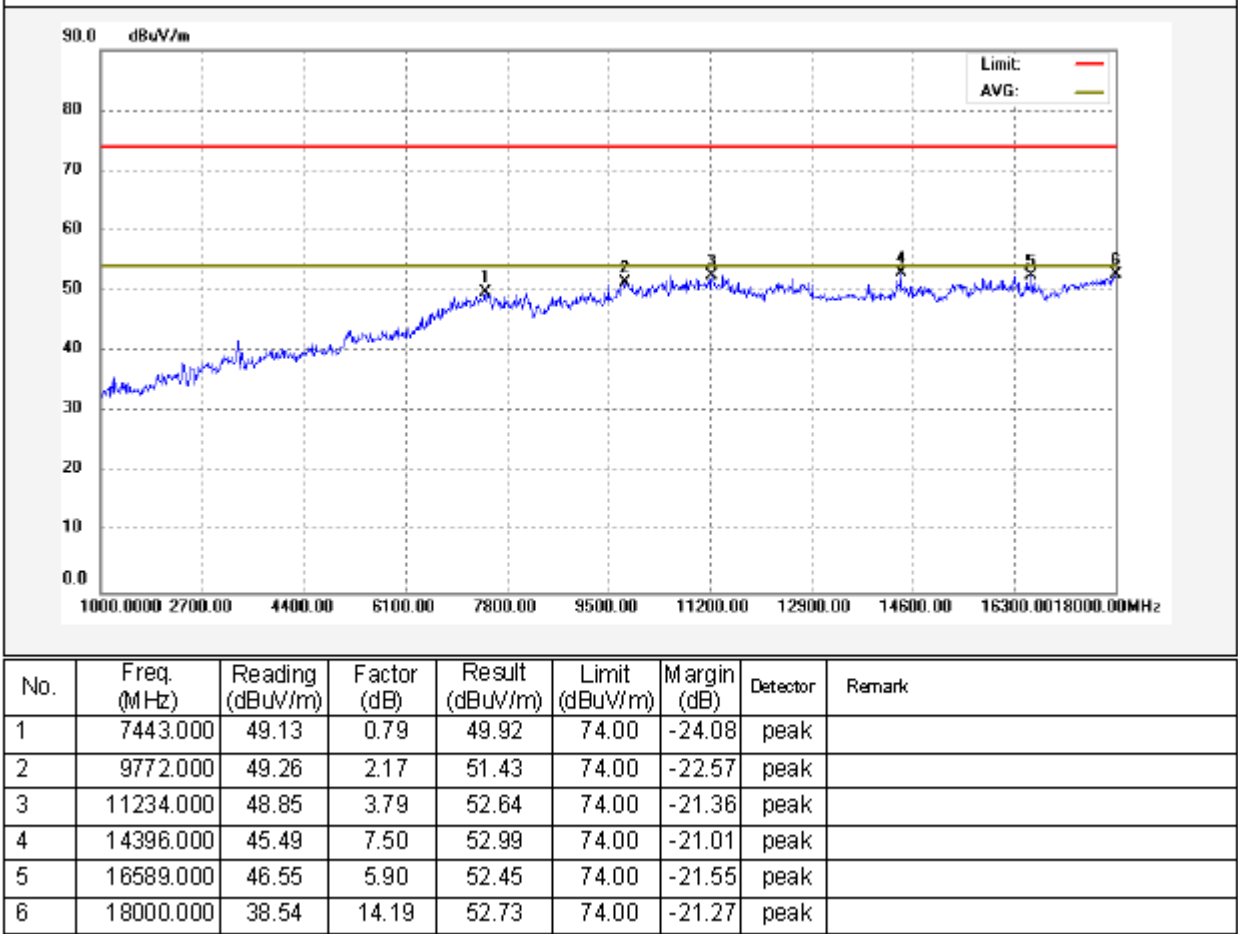
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7936.000	49.24	0.12	49.36	74.00	-24.64	peak	
2	9772.000	49.26	2.17	51.43	74.00	-22.57	peak	
3	11506.000	48.85	3.68	52.53	74.00	-21.47	peak	
4	15229.000	47.62	5.63	53.25	74.00	-20.75	peak	
5	16776.000	45.49	6.96	52.45	74.00	-21.55	peak	
6	18000.000	39.64	14.19	53.83	74.00	-20.17	peak	

Antenna Polarization: Horizontal

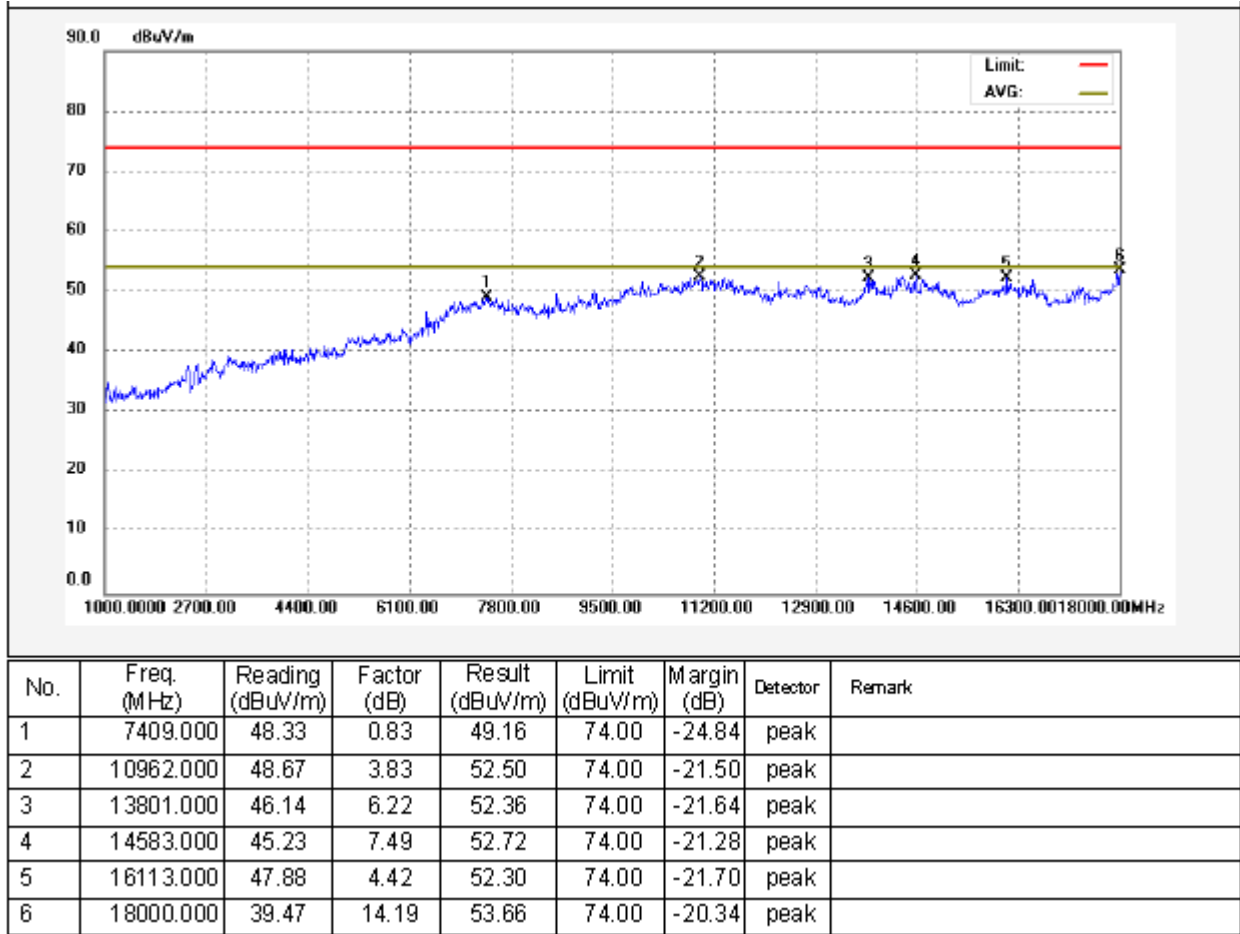


11n HT40: Middle

Antenna Polarization: Vertical

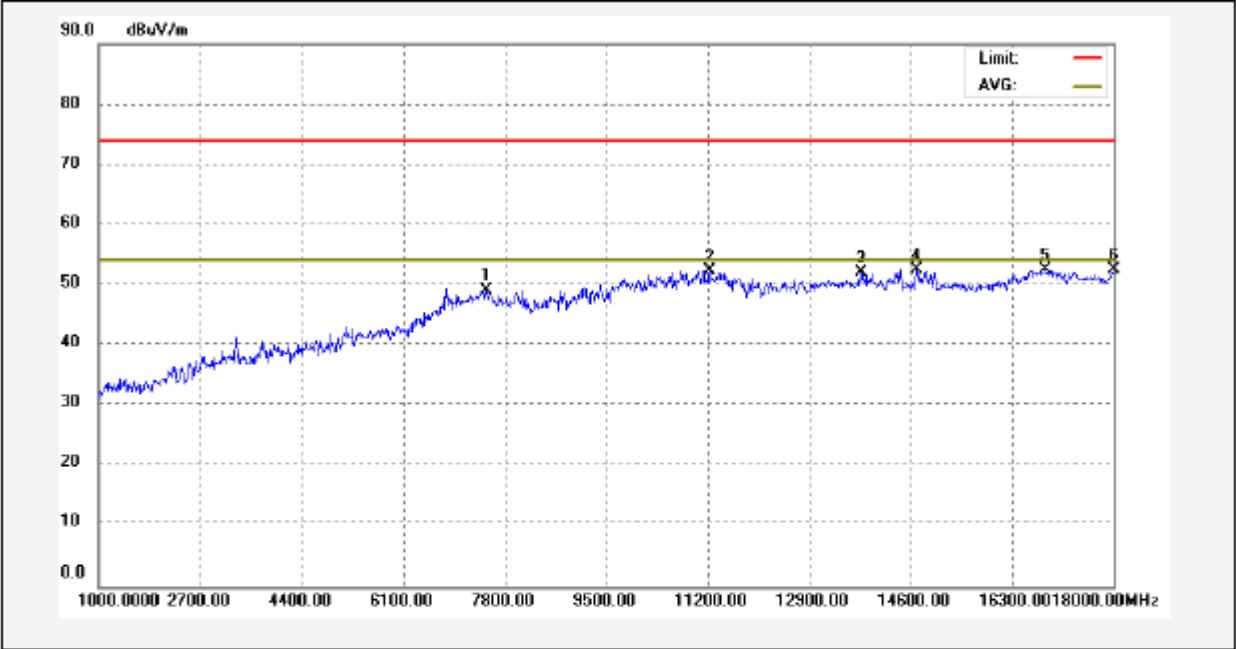


Antenna Polarization: Horizontal



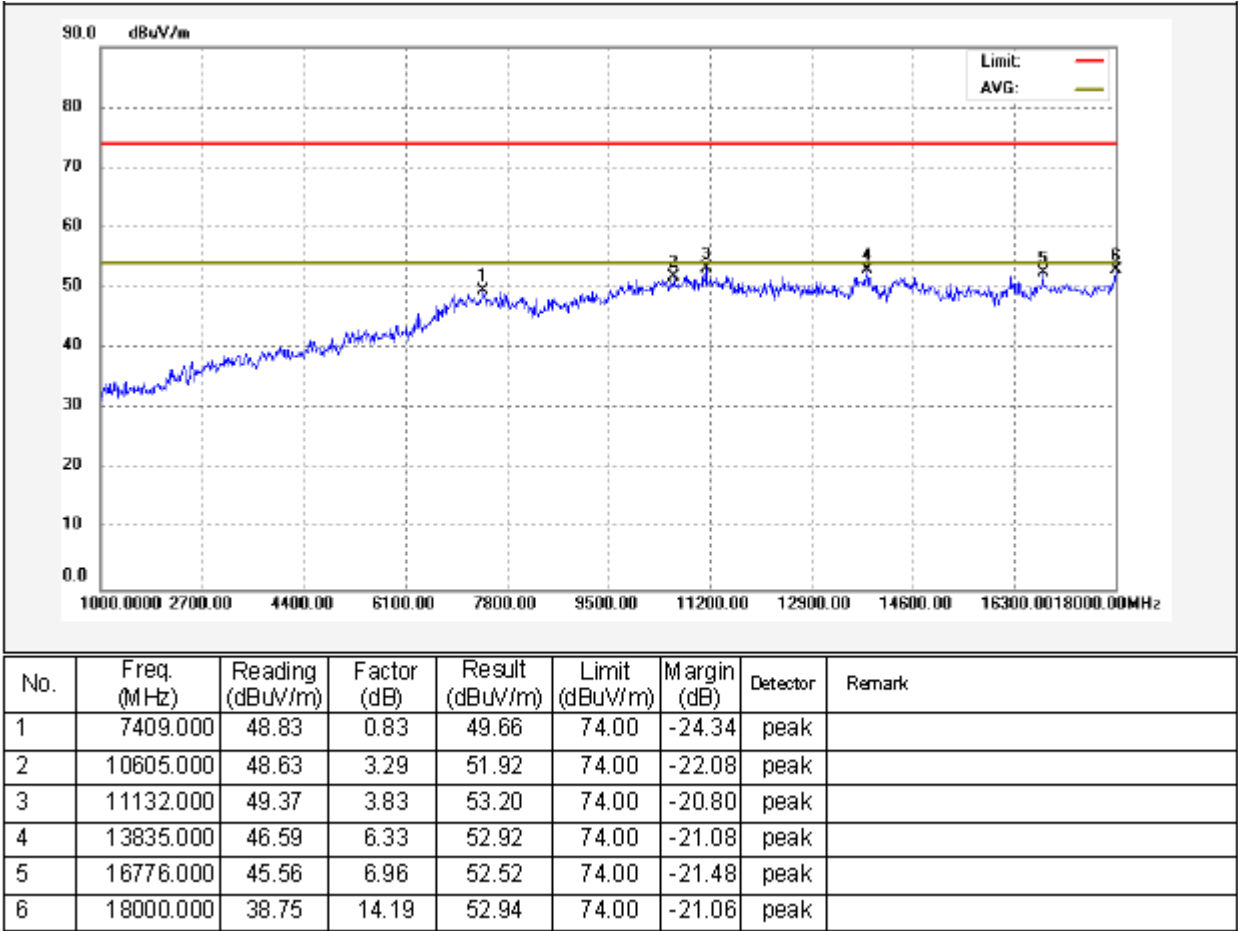
11n HT40: High

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7494.000	48.54	0.71	49.25	74.00	-24.75	peak	
2	11234.000	48.55	3.79	52.34	74.00	-21.66	peak	
3	13767.000	46.07	6.10	52.17	74.00	-21.83	peak	
4	14702.000	45.22	7.27	52.49	74.00	-21.51	peak	
5	16861.000	44.97	7.46	52.43	74.00	-21.57	peak	
6	18000.000	38.39	14.19	52.58	74.00	-21.42	peak	

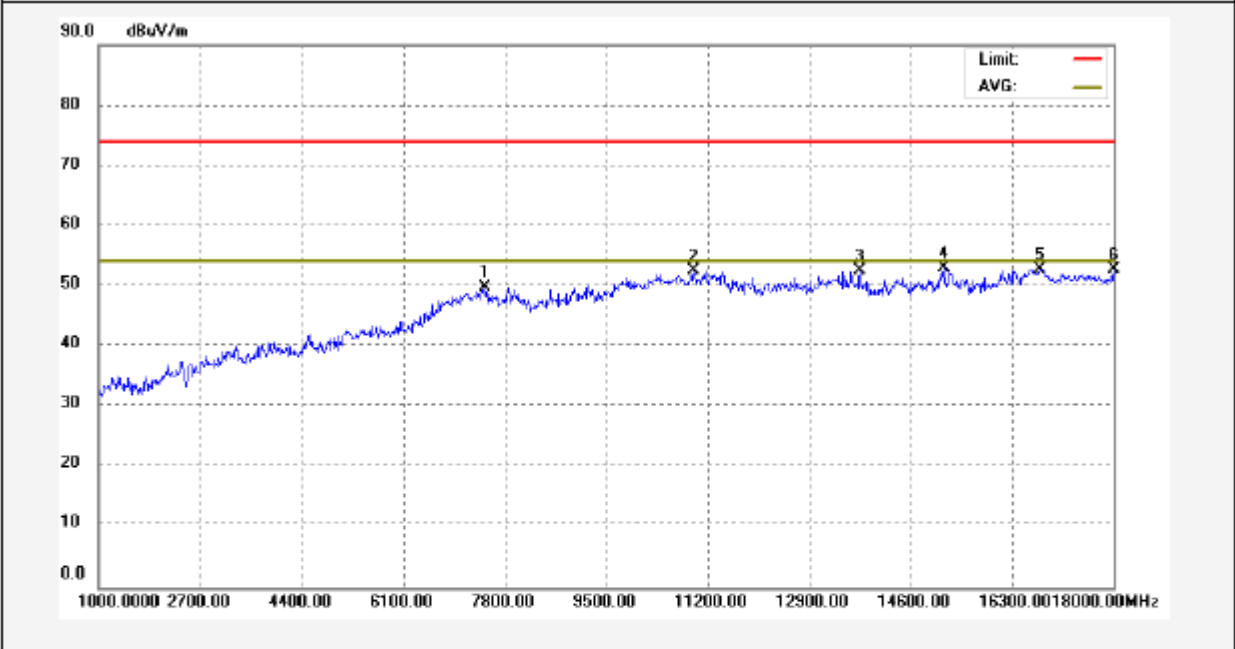
Antenna Polarization: Horizontal



Model: H02

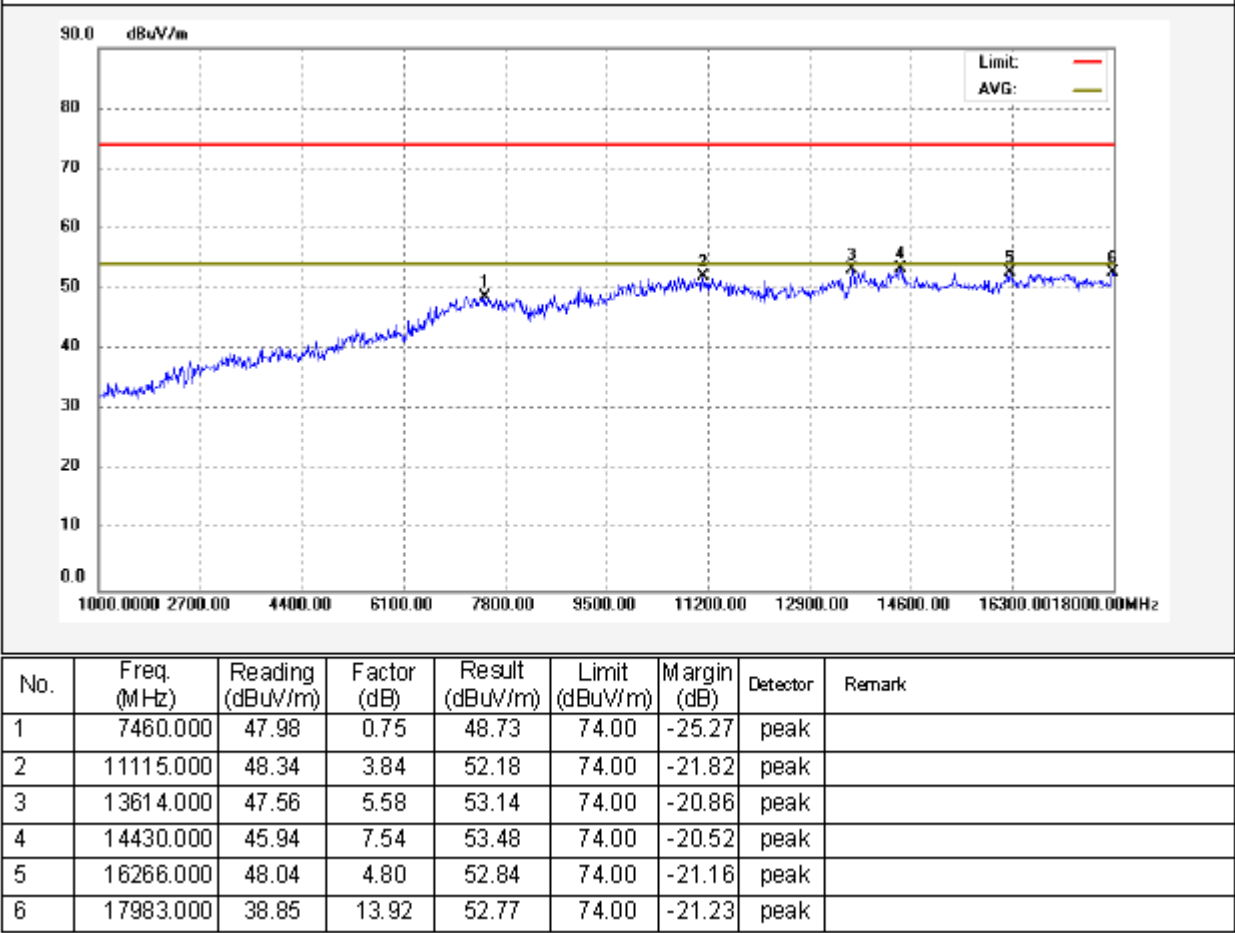
11b: Low

Antenna Polarization: Vertical



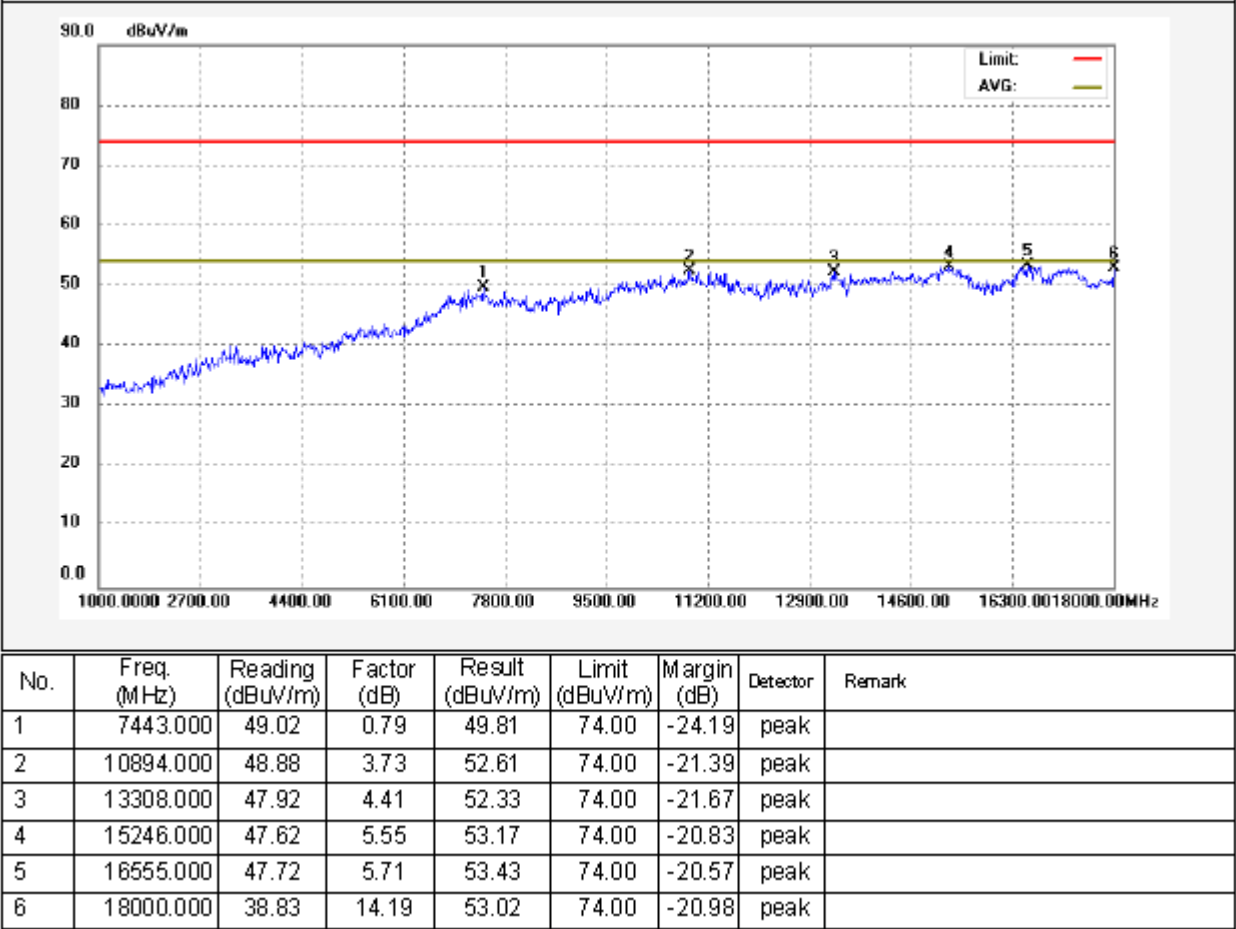
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7477.000	49.15	0.73	49.88	74.00	-24.12	peak	
2	10962.000	48.72	3.83	52.55	74.00	-21.45	peak	
3	13750.000	46.39	6.04	52.43	74.00	-21.57	peak	
4	15144.000	47.06	6.02	53.08	74.00	-20.92	peak	
5	16759.000	45.81	6.87	52.68	74.00	-21.32	peak	
6	18000.000	38.54	14.19	52.73	74.00	-21.27	peak	

Antenna Polarization: Horizontal

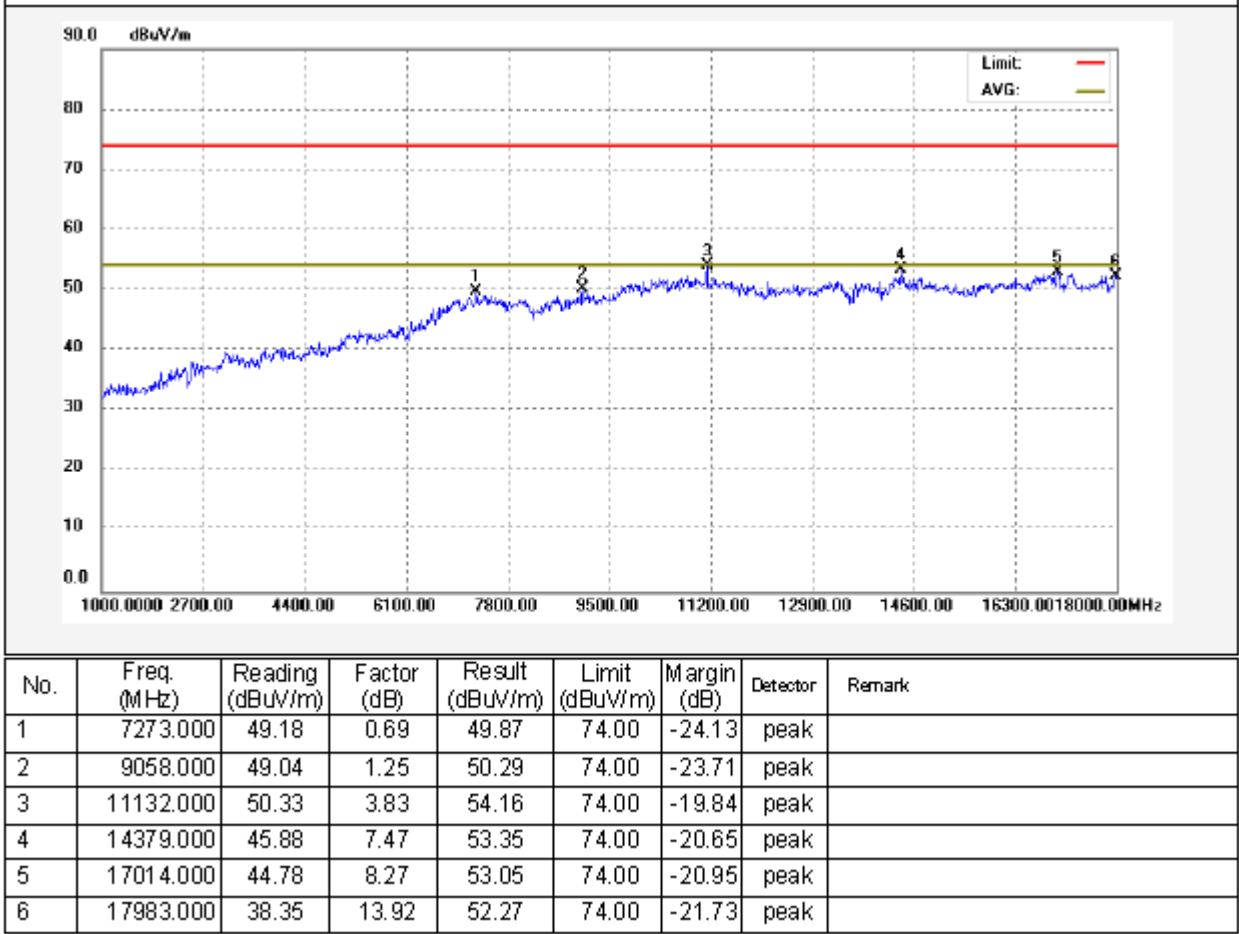


11b: Middle

Antenna Polarization: Vertical

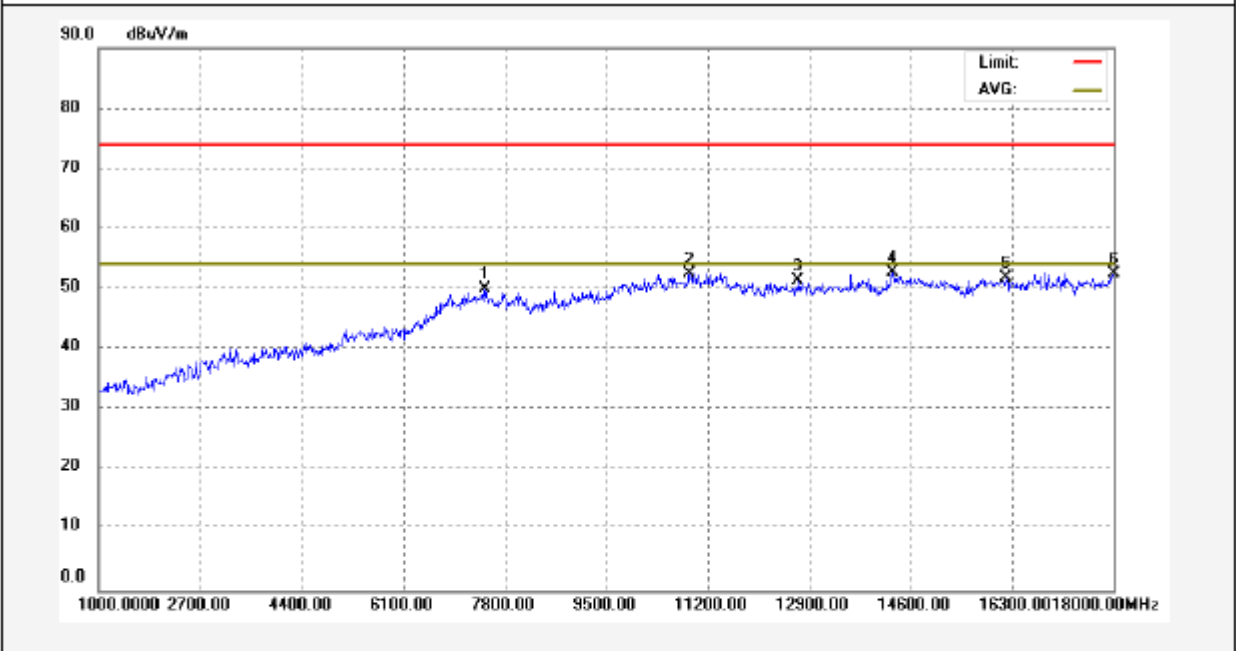


Antenna Polarization: Horizontal



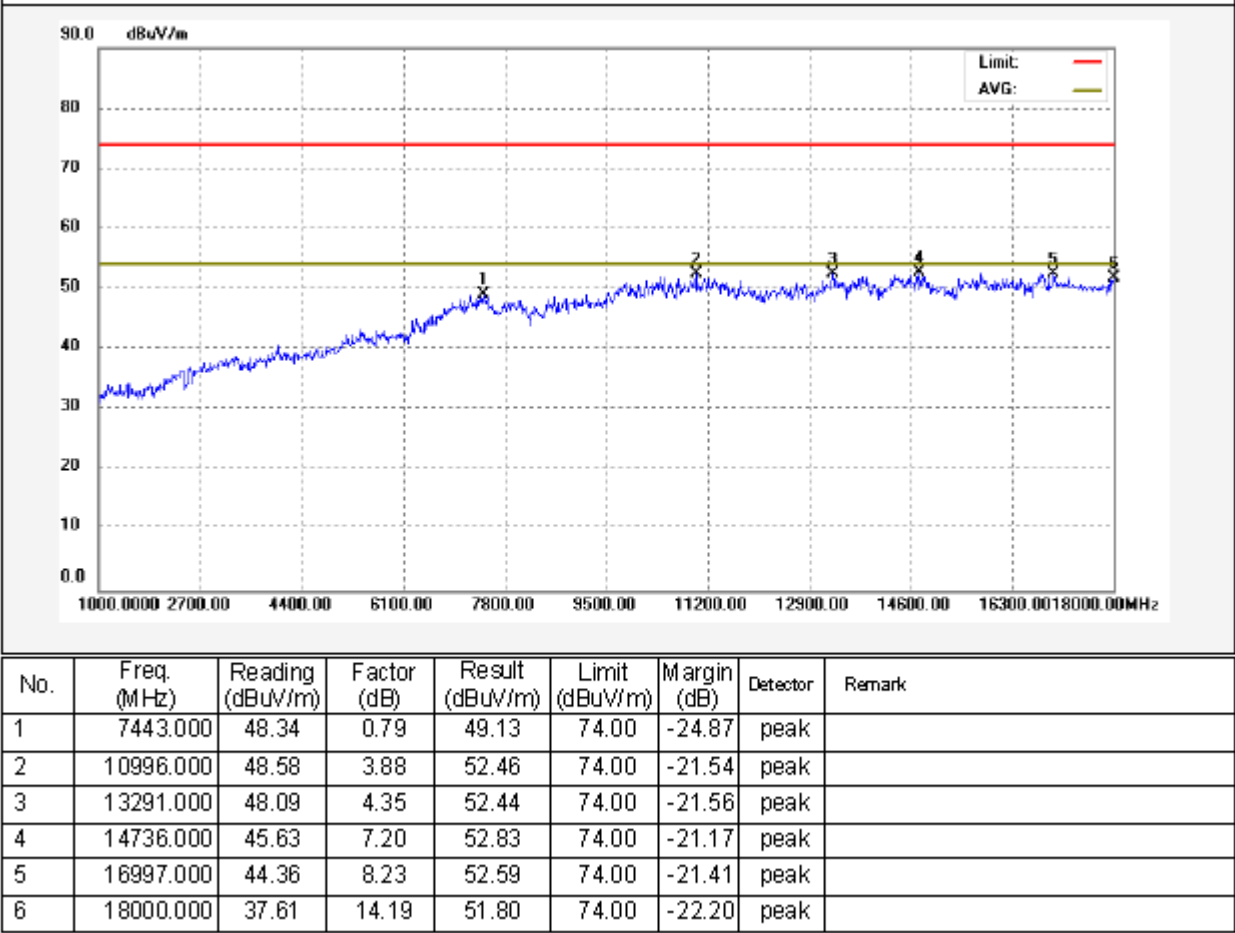
11b: High

Antenna Polarization: Vertical



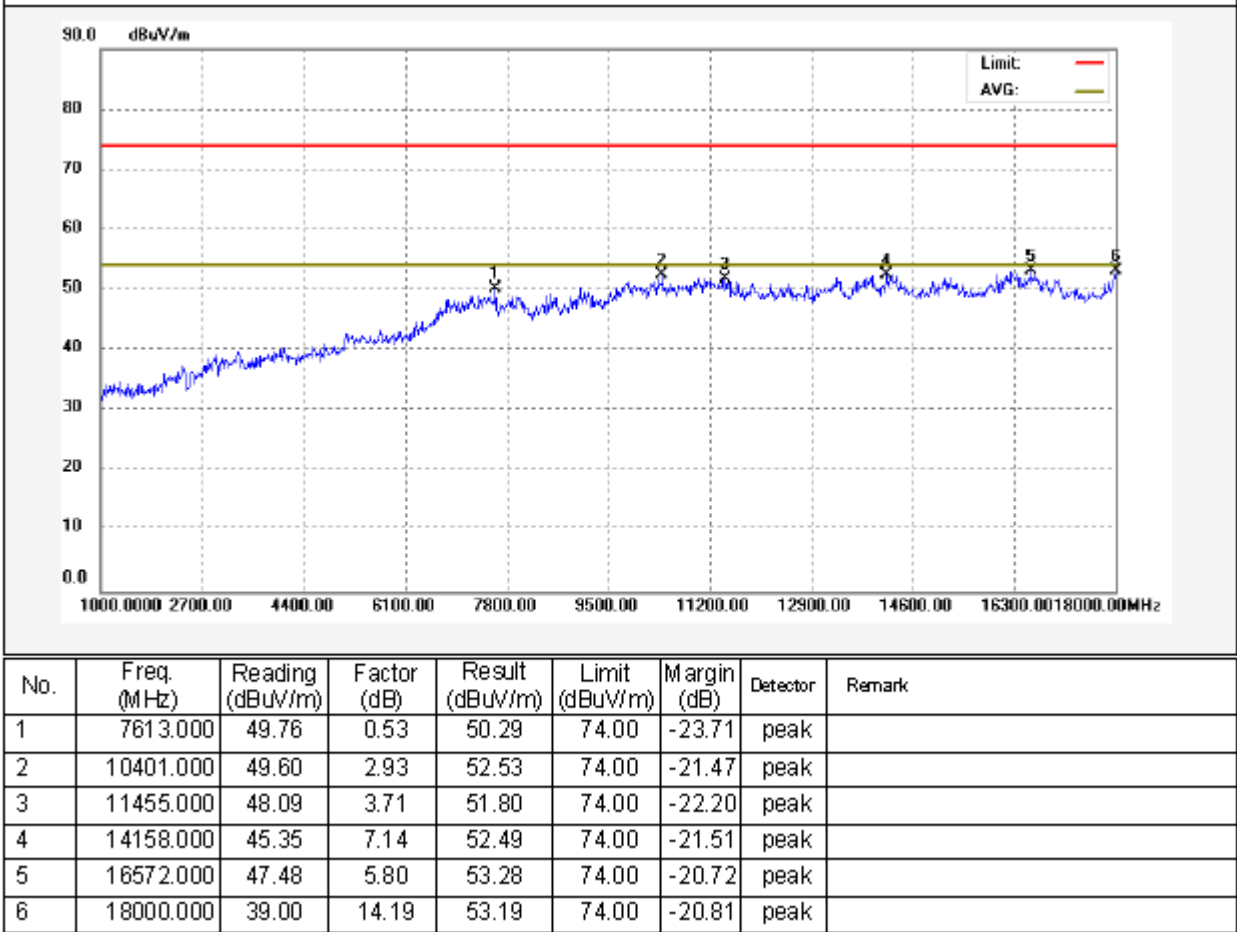
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7477.000	49.41	0.73	50.14	74.00	-23.86	peak	
2	10894.000	48.88	3.73	52.61	74.00	-21.39	peak	
3	12713.000	48.25	3.06	51.31	74.00	-22.69	peak	
4	14294.000	45.43	7.34	52.77	74.00	-21.23	peak	
5	16198.000	47.33	4.64	51.97	74.00	-22.03	peak	
6	18000.000	38.46	14.19	52.65	74.00	-21.35	peak	

Antenna Polarization: Horizontal

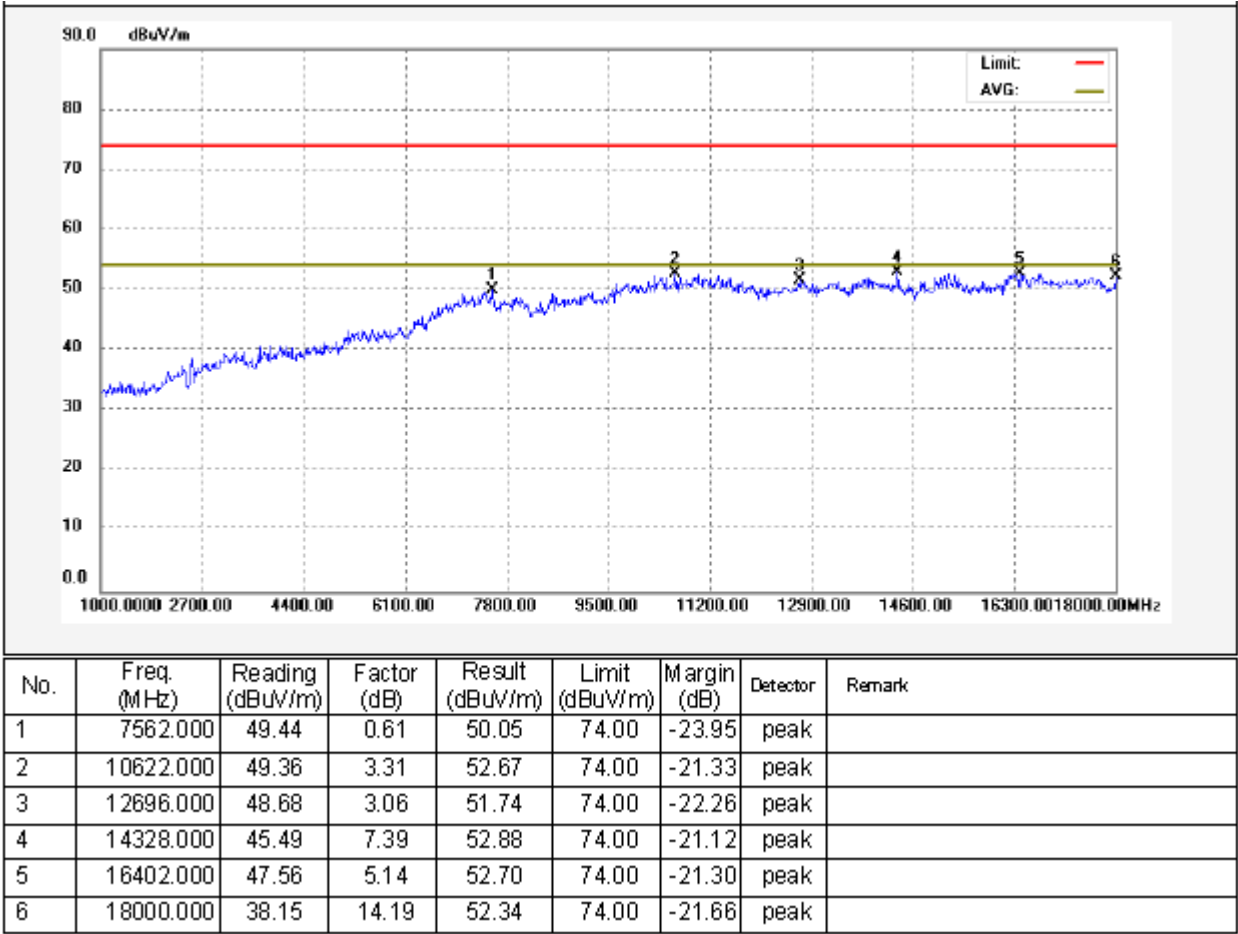


11g: Low

Antenna Polarization: Vertical

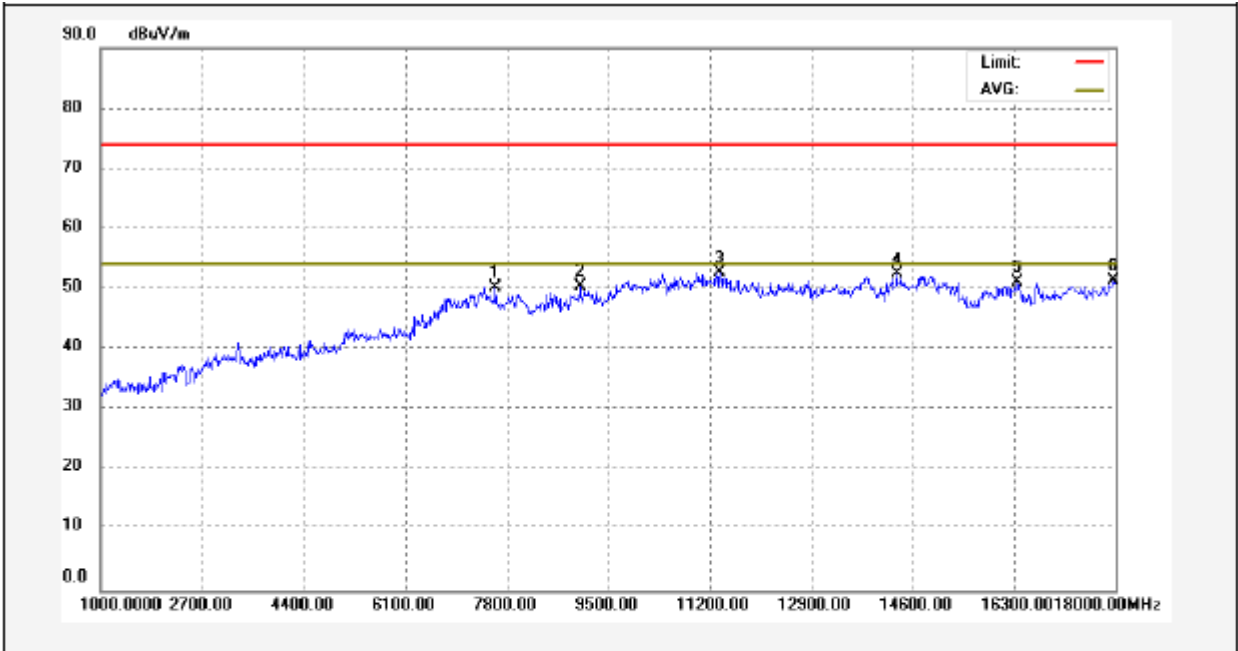


Antenna Polarization: Horizontal



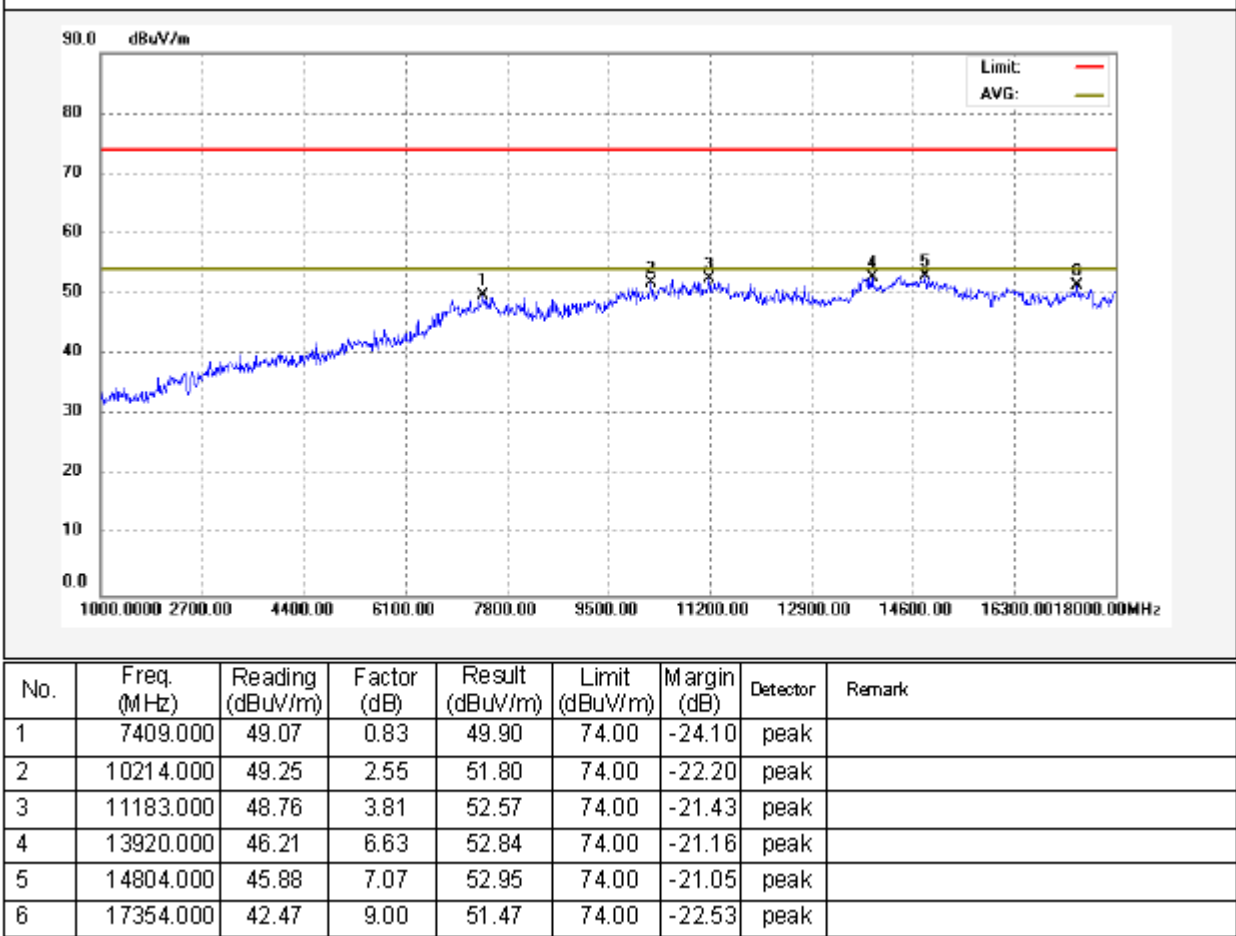
11g: Middle

Antenna Polarization: Vertical



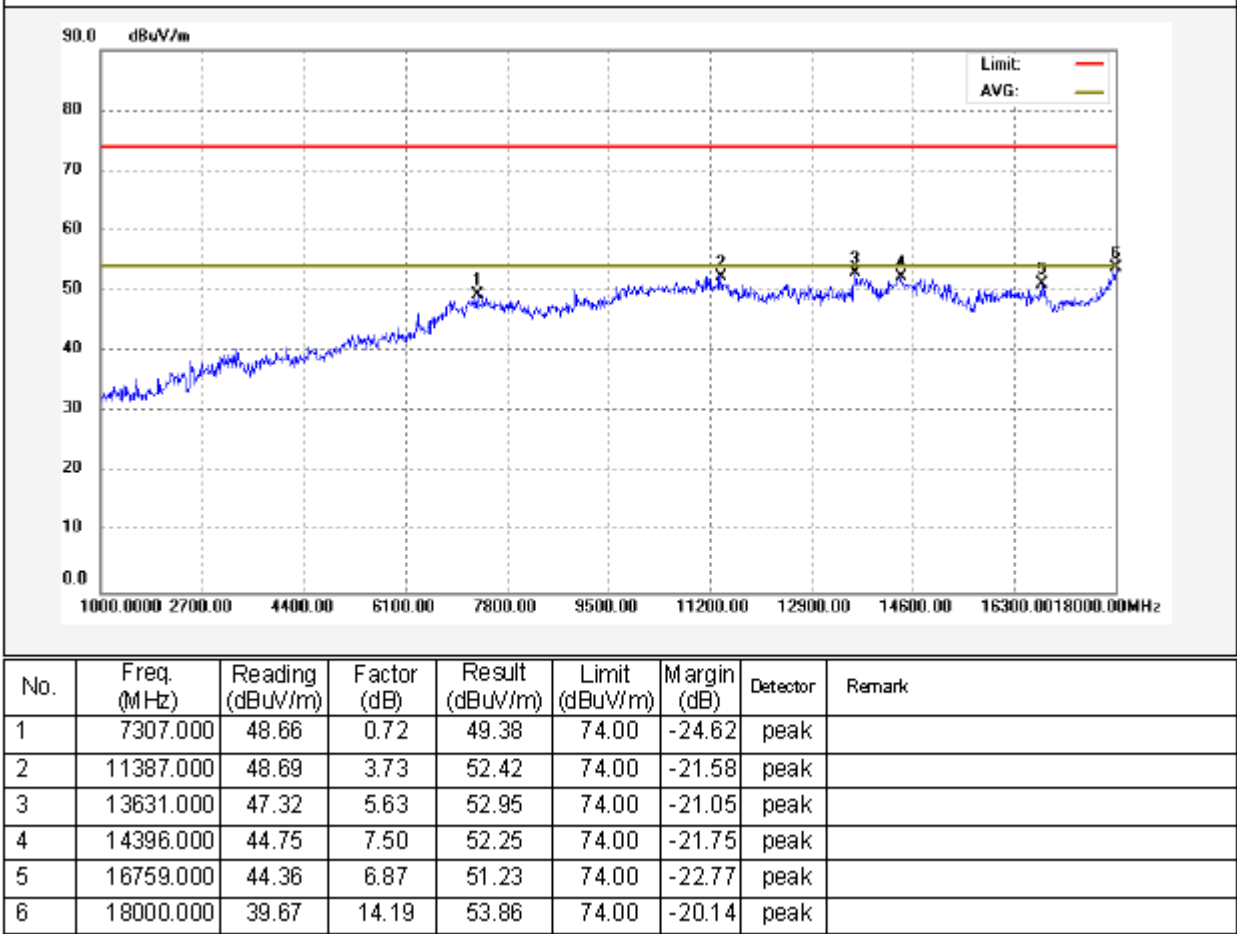
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7613.000	49.76	0.53	50.29	74.00	-23.71	peak	
2	9024.000	49.27	1.32	50.59	74.00	-23.41	peak	
3	11370.000	48.93	3.74	52.67	74.00	-21.33	peak	
4	14328.000	45.04	7.39	52.43	74.00	-21.57	peak	
5	16351.000	46.25	5.02	51.27	74.00	-22.73	peak	
6	17966.000	37.83	13.64	51.47	74.00	-22.53	peak	

Antenna Polarization: Horizontal

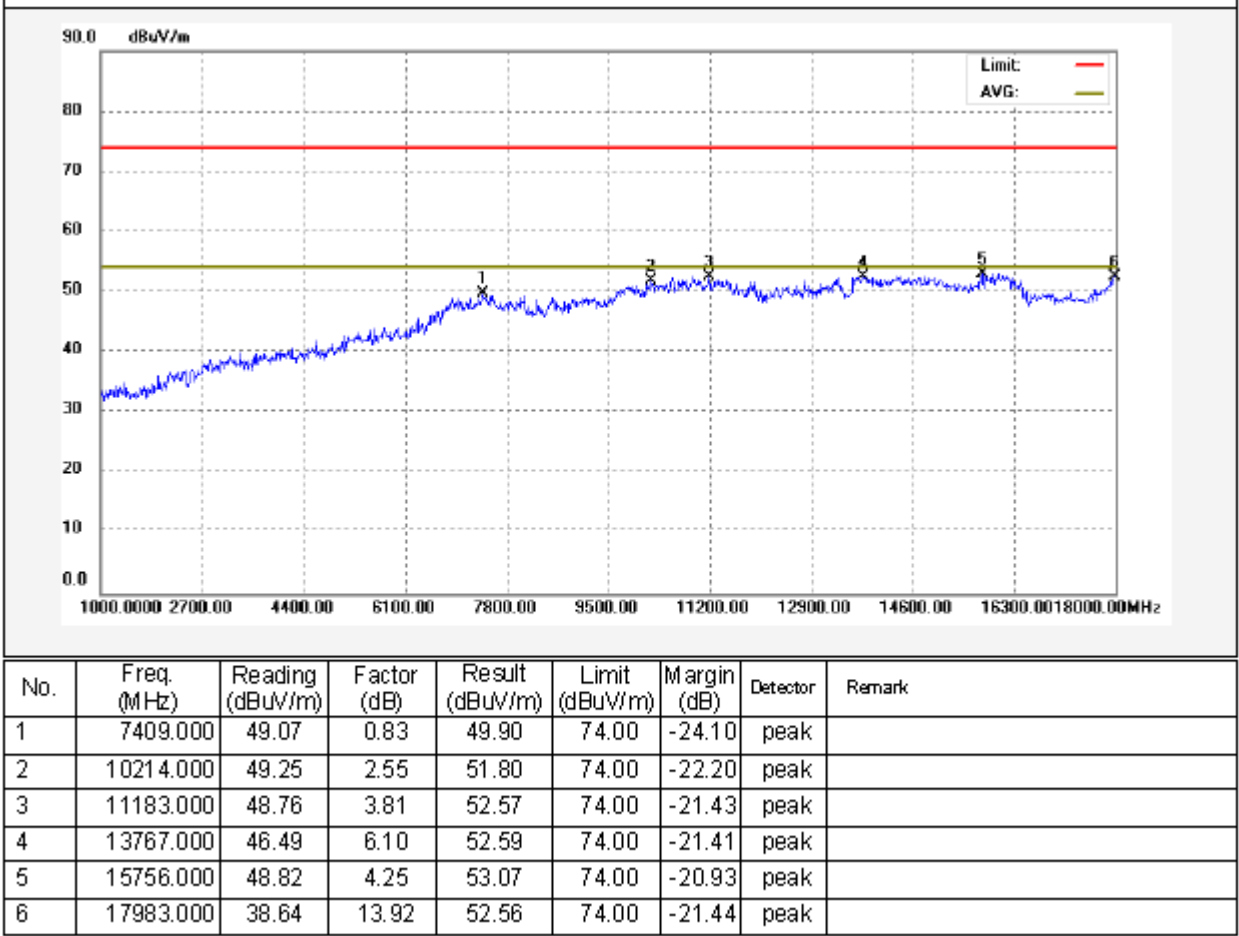


11g: High

Antenna Polarization: Vertical

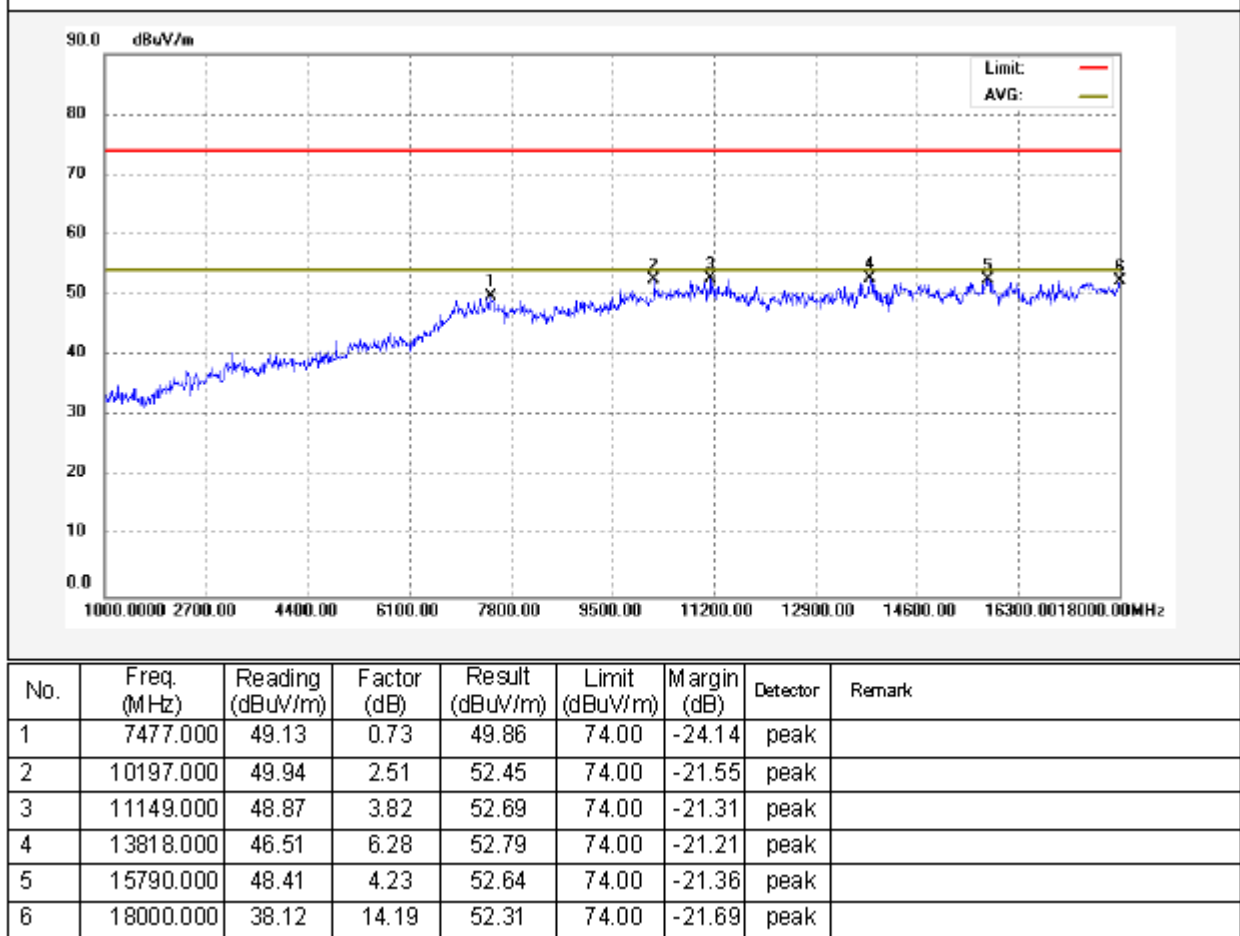


Antenna Polarization: Horizontal

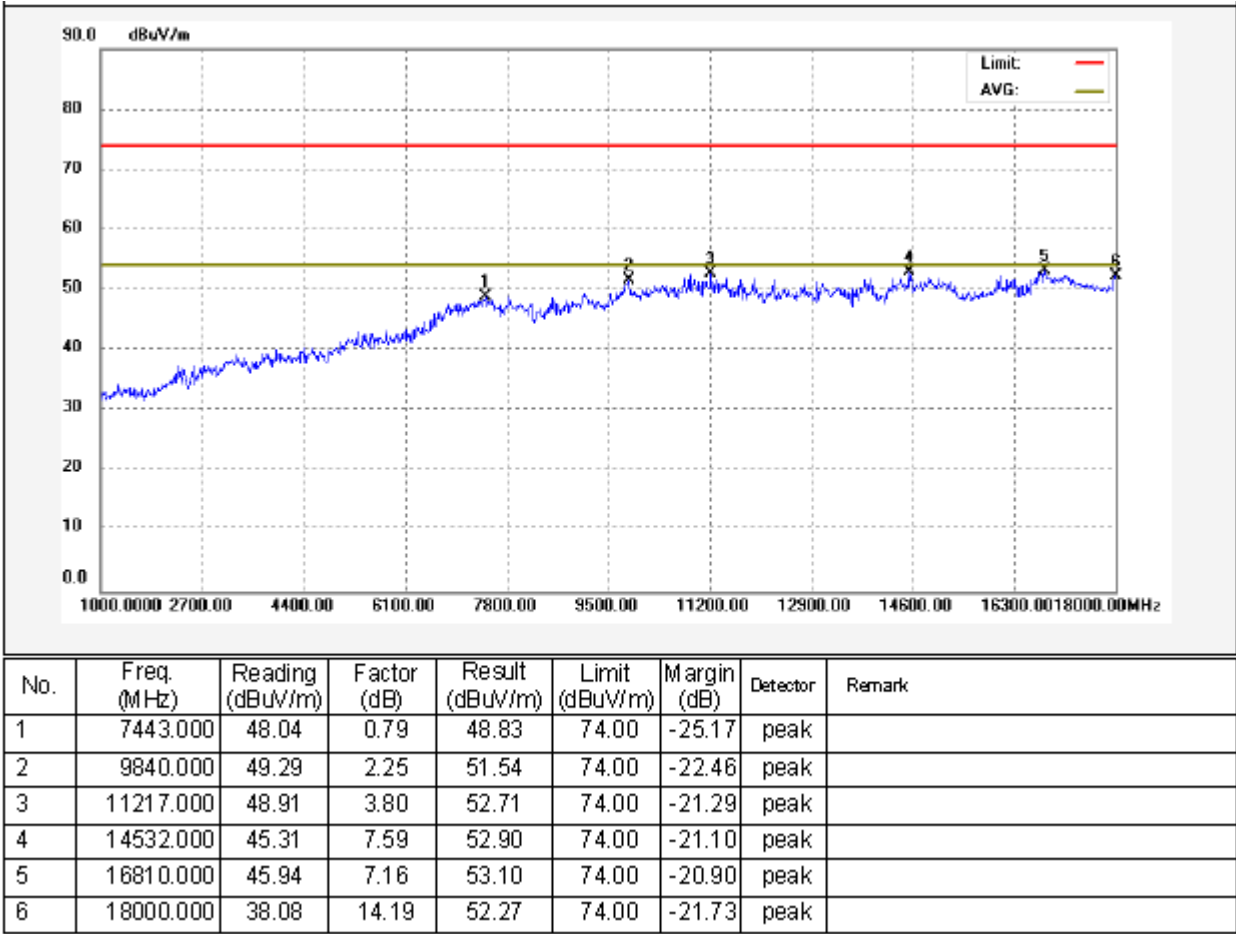


11n HT20: Low

Antenna Polarization: Vertical

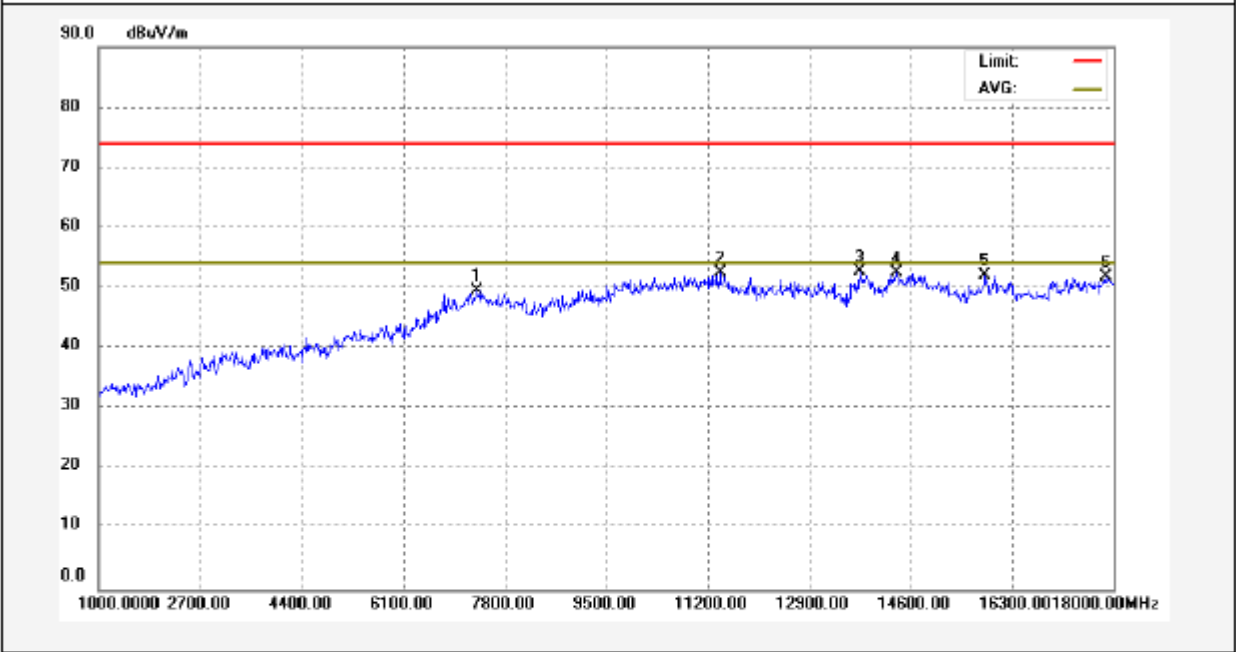


Antenna Polarization: Horizontal



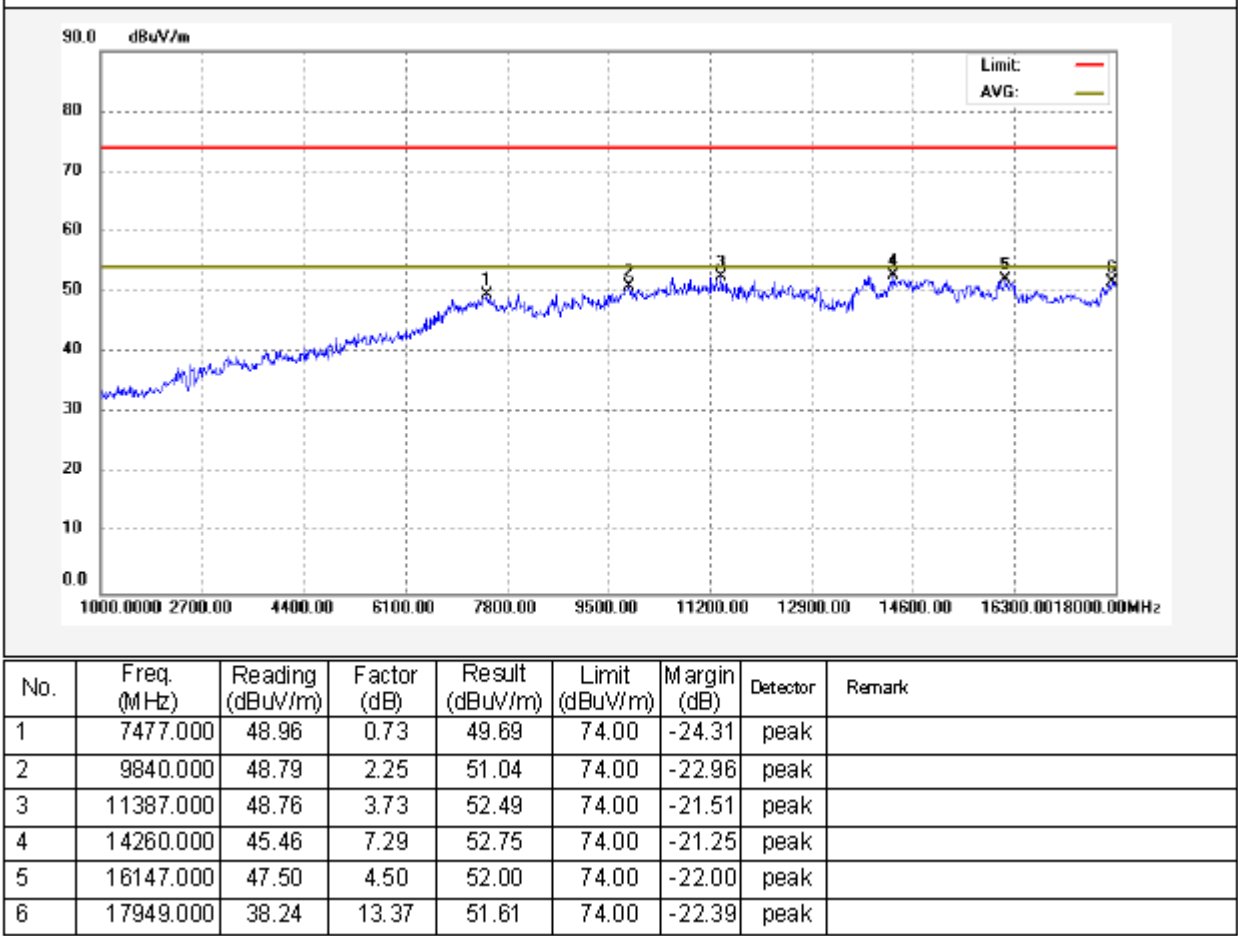
11n HT20: Middle

Antenna Polarization: Vertical



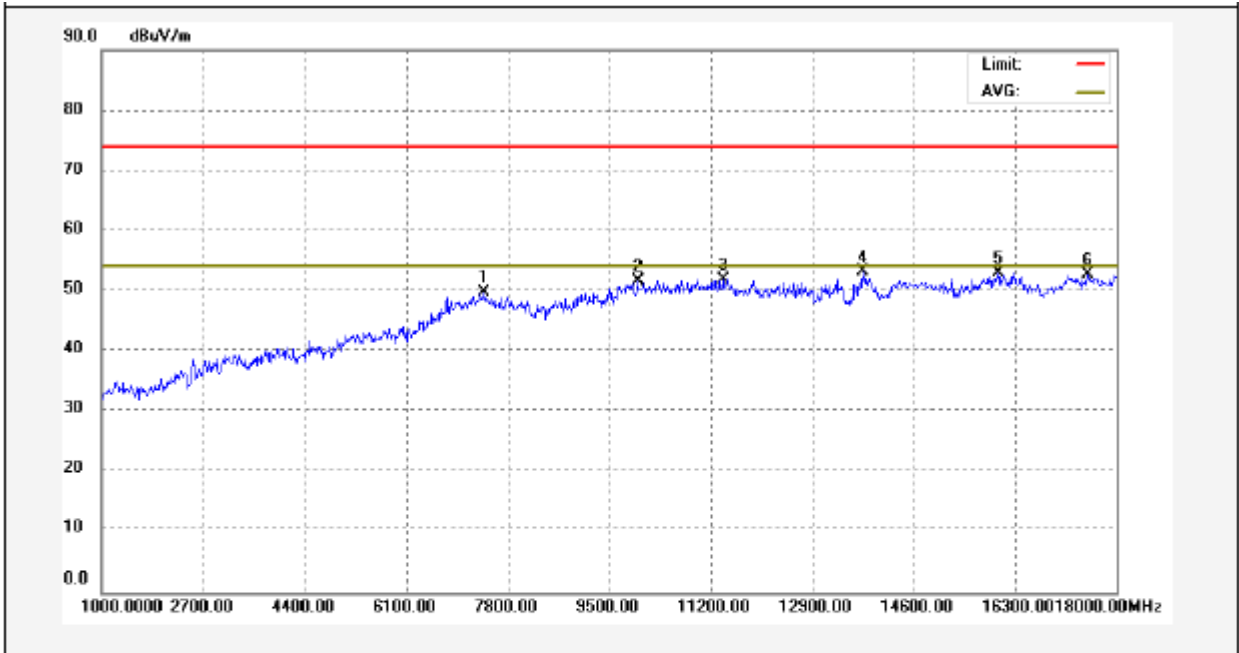
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7341.000	48.80	0.77	49.57	74.00	-24.43	peak	
2	11404.000	48.71	3.73	52.44	74.00	-21.56	peak	
3	13750.000	46.77	6.04	52.81	74.00	-21.19	peak	
4	14362.000	45.14	7.44	52.58	74.00	-21.42	peak	
5	15841.000	47.85	4.22	52.07	74.00	-21.93	peak	
6	17864.000	39.87	11.99	51.86	74.00	-22.14	peak	

Antenna Polarization: Horizontal



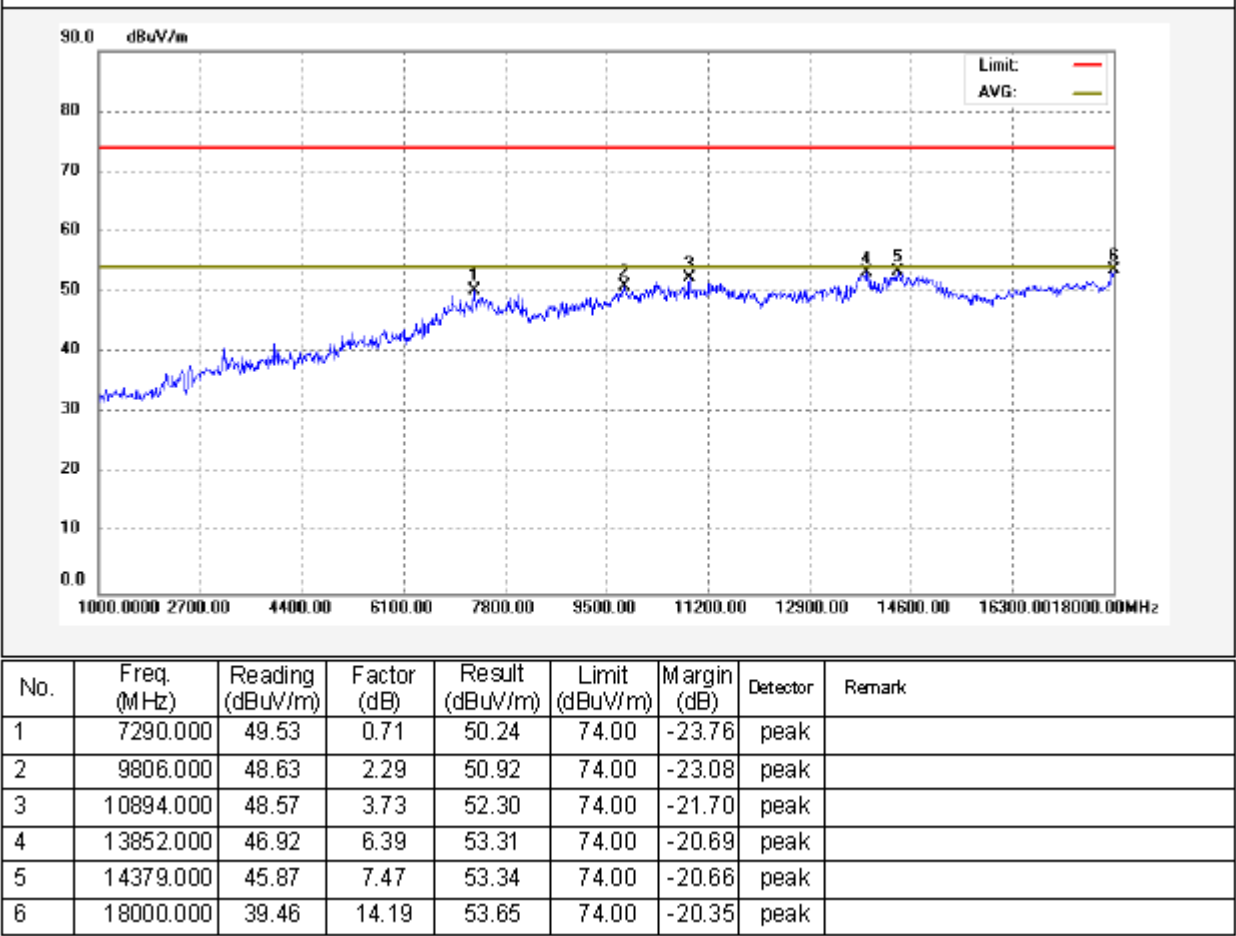
11n HT20: High

Antenna Polarization: Vertical



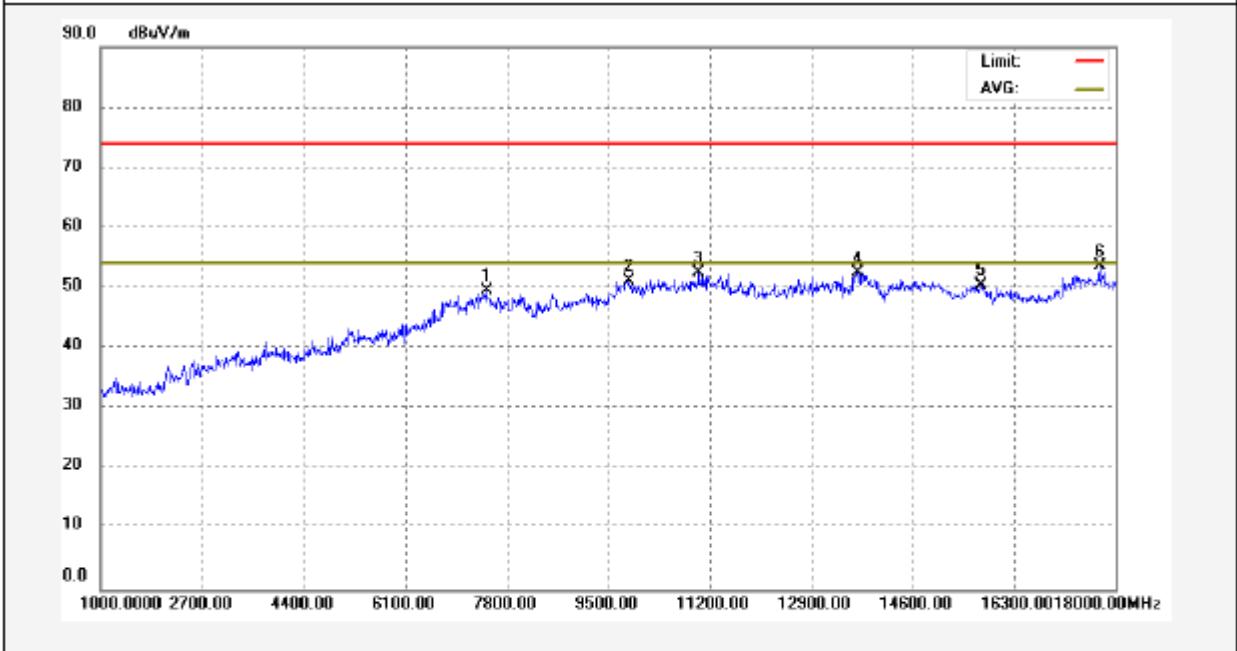
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7392.000	49.04	0.83	49.87	74.00	-24.13	peak	
2	9976.000	49.55	2.13	51.68	74.00	-22.32	peak	
3	11404.000	48.21	3.73	51.94	74.00	-22.06	peak	
4	13750.000	47.27	6.04	53.31	74.00	-20.69	peak	
5	16011.000	48.81	4.17	52.98	74.00	-21.02	peak	
6	17507.000	43.40	9.35	52.75	74.00	-21.25	peak	

Antenna Polarization: Horizontal



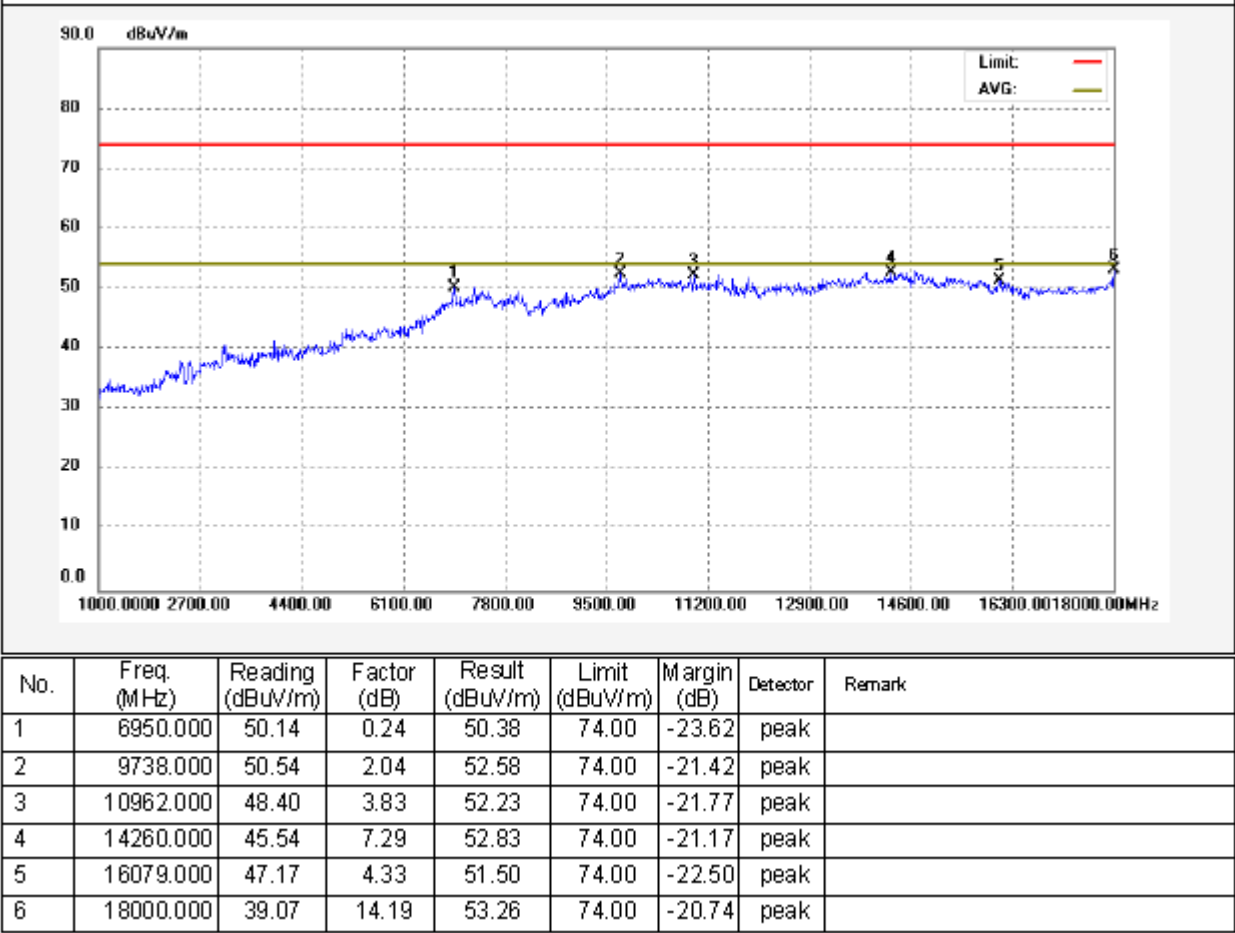
11n HT40: Low

Antenna Polarization: Vertical



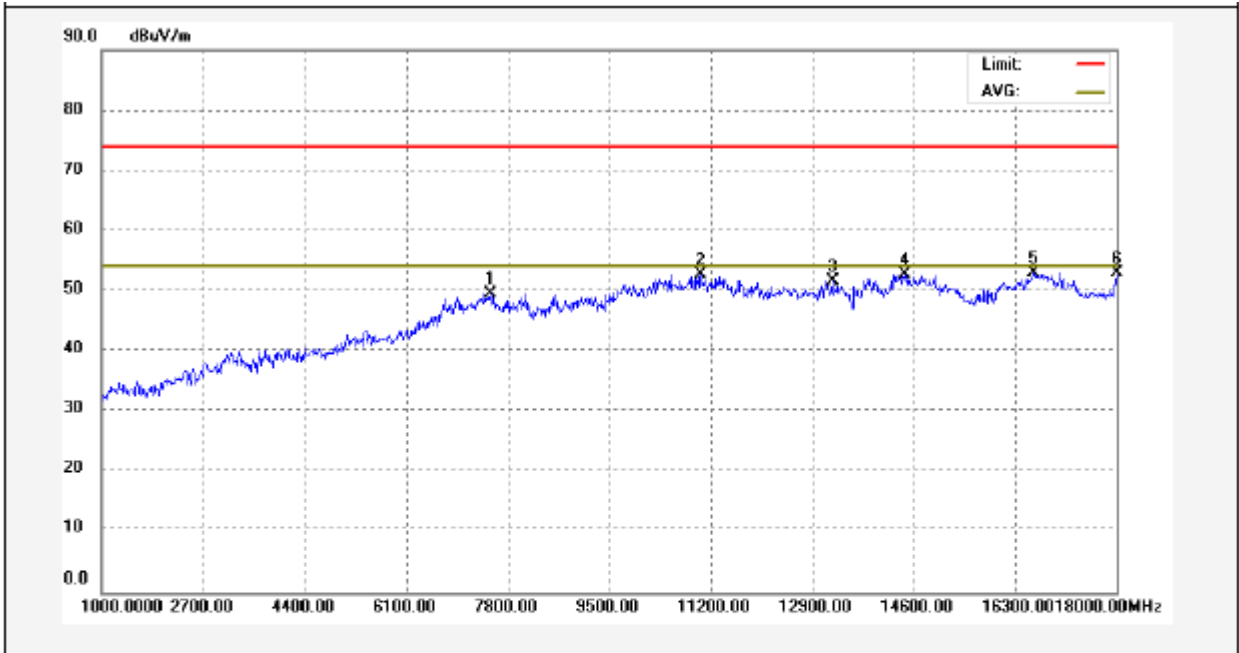
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7460.000	48.79	0.75	49.54	74.00	-24.46	peak	
2	9840.000	49.05	2.25	51.30	74.00	-22.70	peak	
3	11013.000	48.63	3.88	52.51	74.00	-21.49	peak	
4	13682.000	46.75	5.80	52.55	74.00	-21.45	peak	
5	15739.000	46.36	4.26	50.62	74.00	-23.38	peak	
6	17728.000	43.07	10.57	53.64	74.00	-20.36	peak	

Antenna Polarization: Horizontal



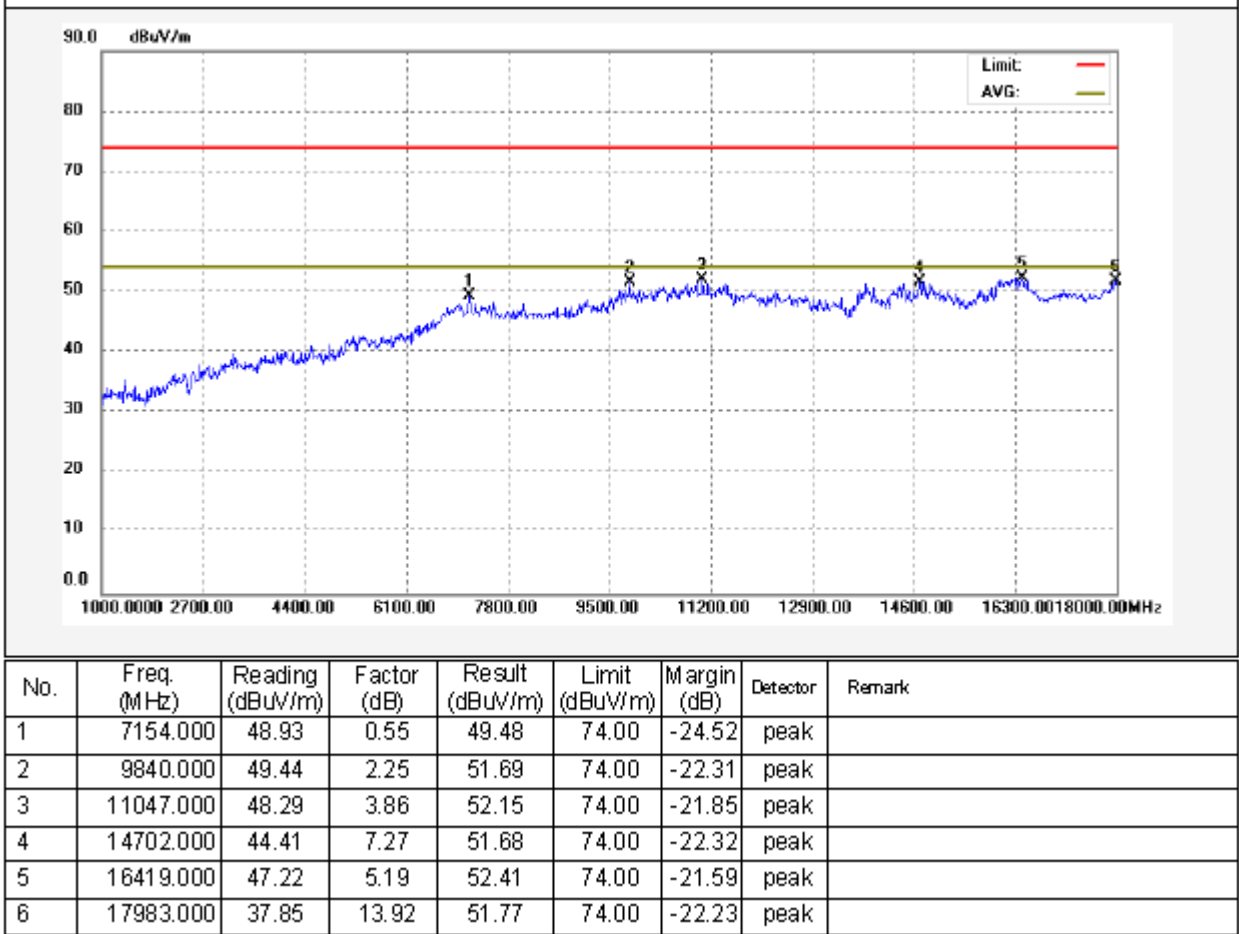
11n HT40: Middle

Antenna Polarization: Vertical



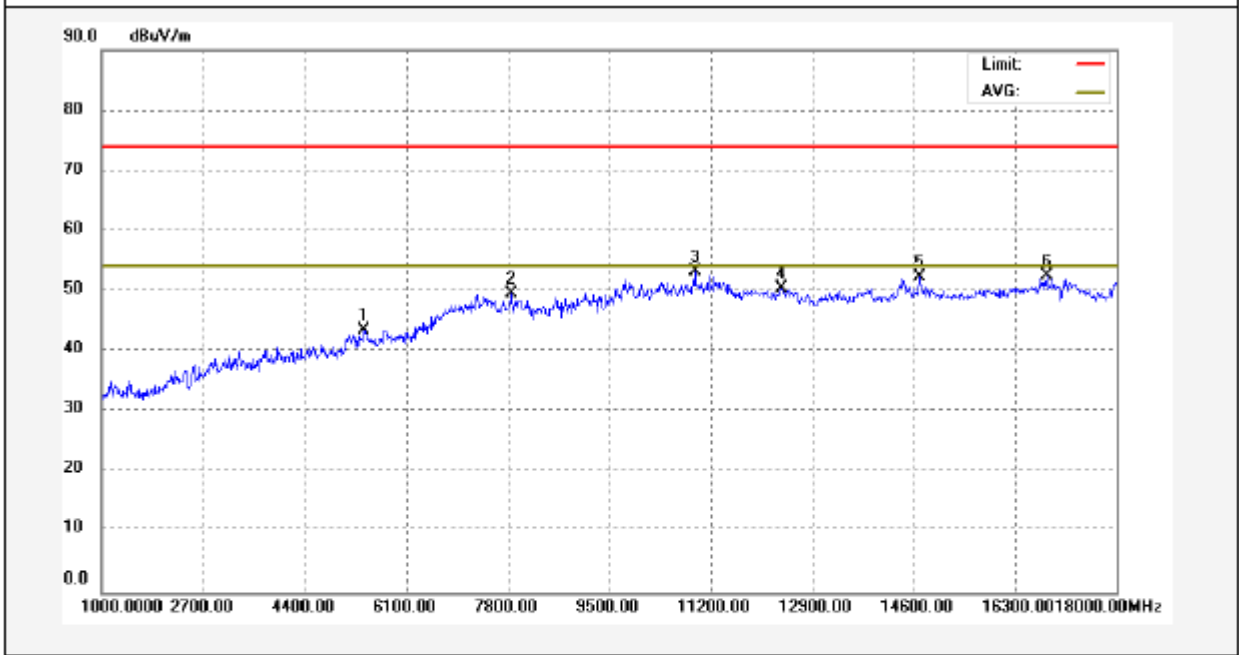
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	7511.000	48.95	0.68	49.63	74.00	-24.37	peak	
2	11030.000	48.84	3.86	52.70	74.00	-21.30	peak	
3	13240.000	47.57	4.13	51.70	74.00	-22.30	peak	
4	14447.000	45.16	7.58	52.74	74.00	-21.26	peak	
5	16606.000	46.94	6.00	52.94	74.00	-21.06	peak	
6	18000.000	38.72	14.19	52.91	74.00	-21.09	peak	

Antenna Polarization: Horizontal



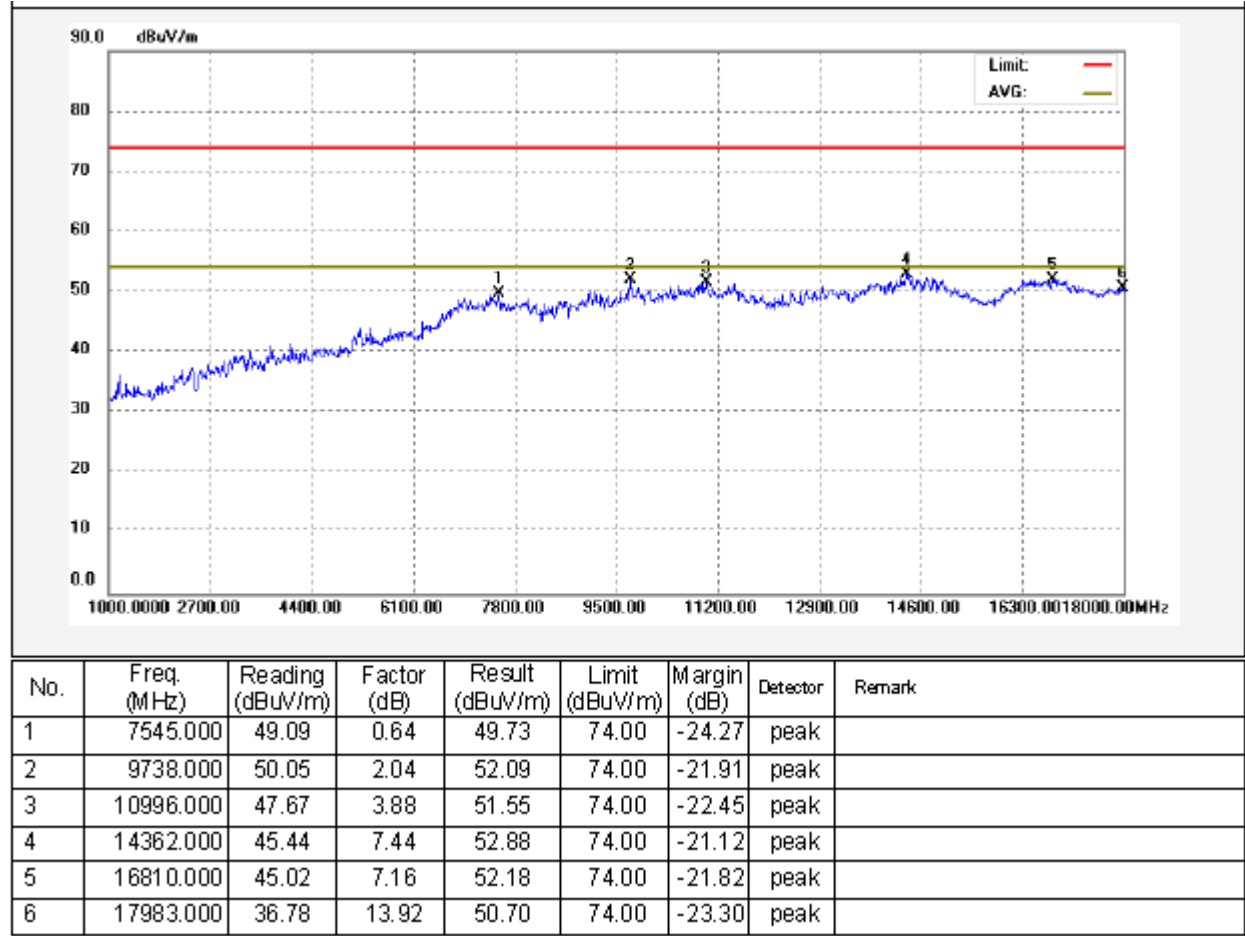
11n HT40: High

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	5386.000	48.43	-4.78	43.65	74.00	-30.35	peak	
2	7851.000	49.36	0.20	49.56	74.00	-24.44	peak	
3	10928.000	49.51	3.78	53.29	74.00	-20.71	peak	
4	12390.000	47.59	2.86	50.45	74.00	-23.55	peak	
5	14702.000	44.95	7.27	52.22	74.00	-21.78	peak	
6	16827.000	45.23	7.25	52.48	74.00	-21.52	peak	

Antenna Polarization: Horizontal



Test Frequency: 18GHz~25GHz

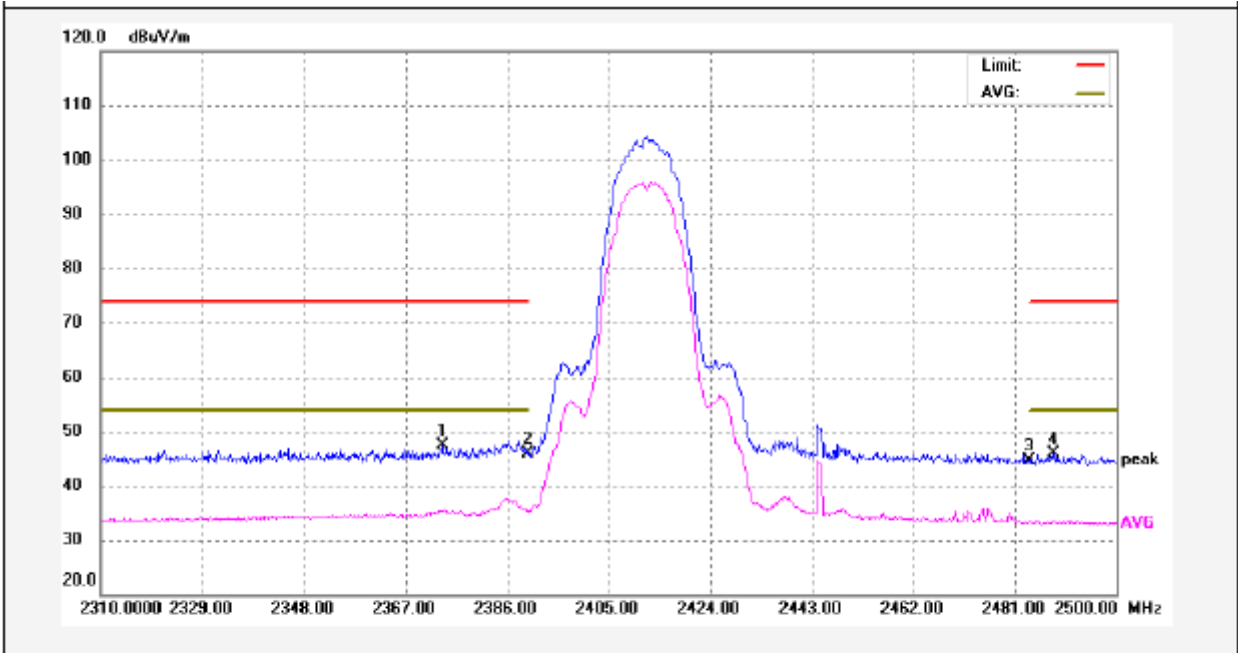
The measurements were more than 20 dB below the limit and not reported.

In Restricted Frequency Bands

Model: -H02_Pro

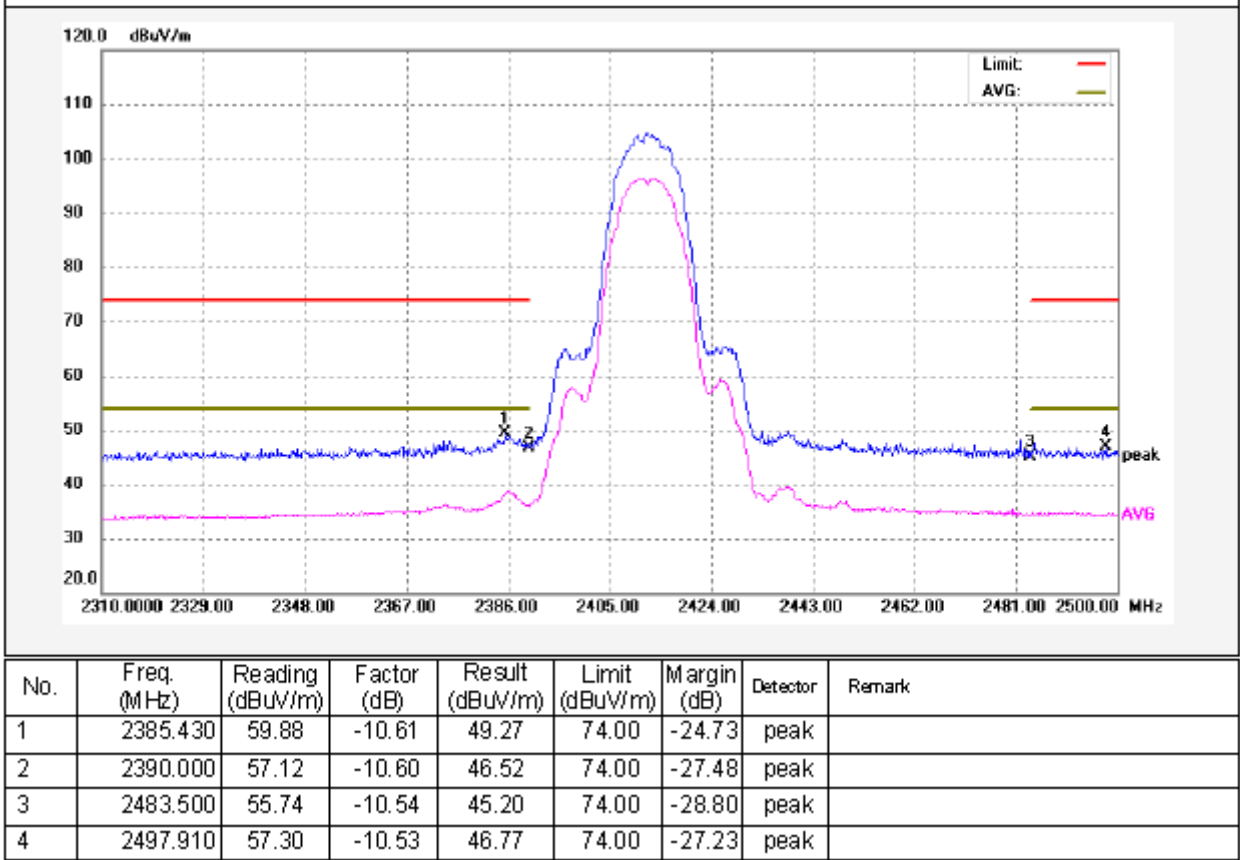
11b:Low

Antenna Polarization: Vertical

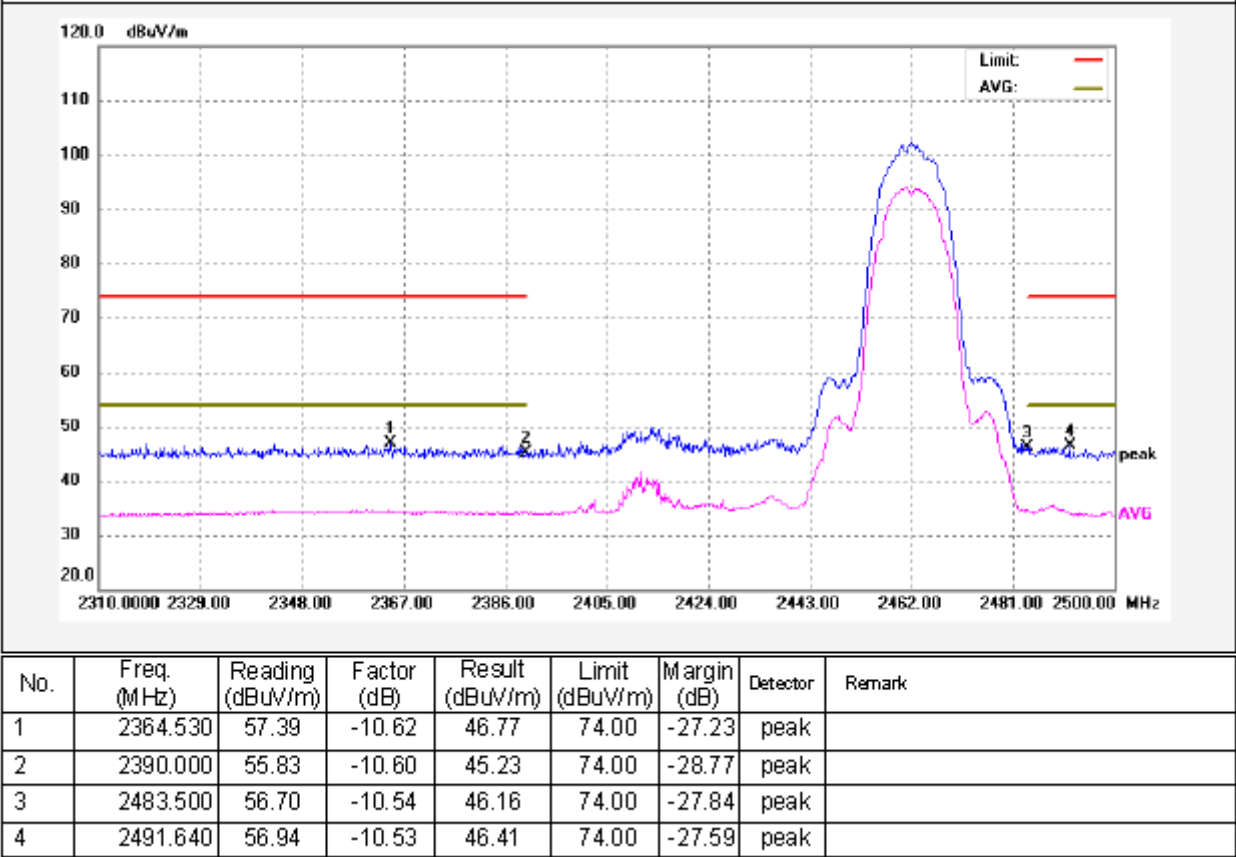


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2373.840	58.01	-10.62	47.39	74.00	-26.61	peak	
2	2390.000	56.58	-10.60	45.98	74.00	-28.02	peak	
3	2483.500	55.16	-10.54	44.62	74.00	-29.38	peak	
4	2488.220	56.37	-10.53	45.84	74.00	-28.16	peak	

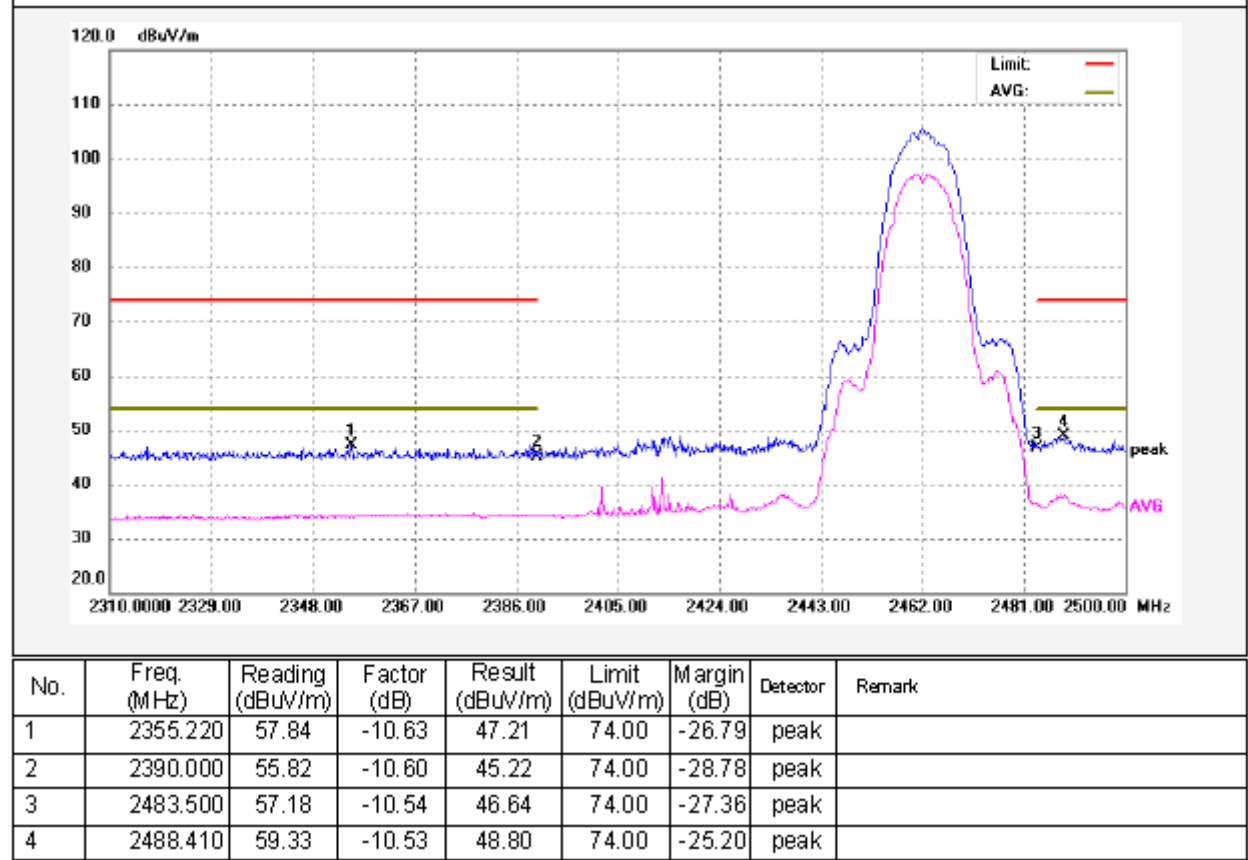
Antenna Polarization: Horizontal



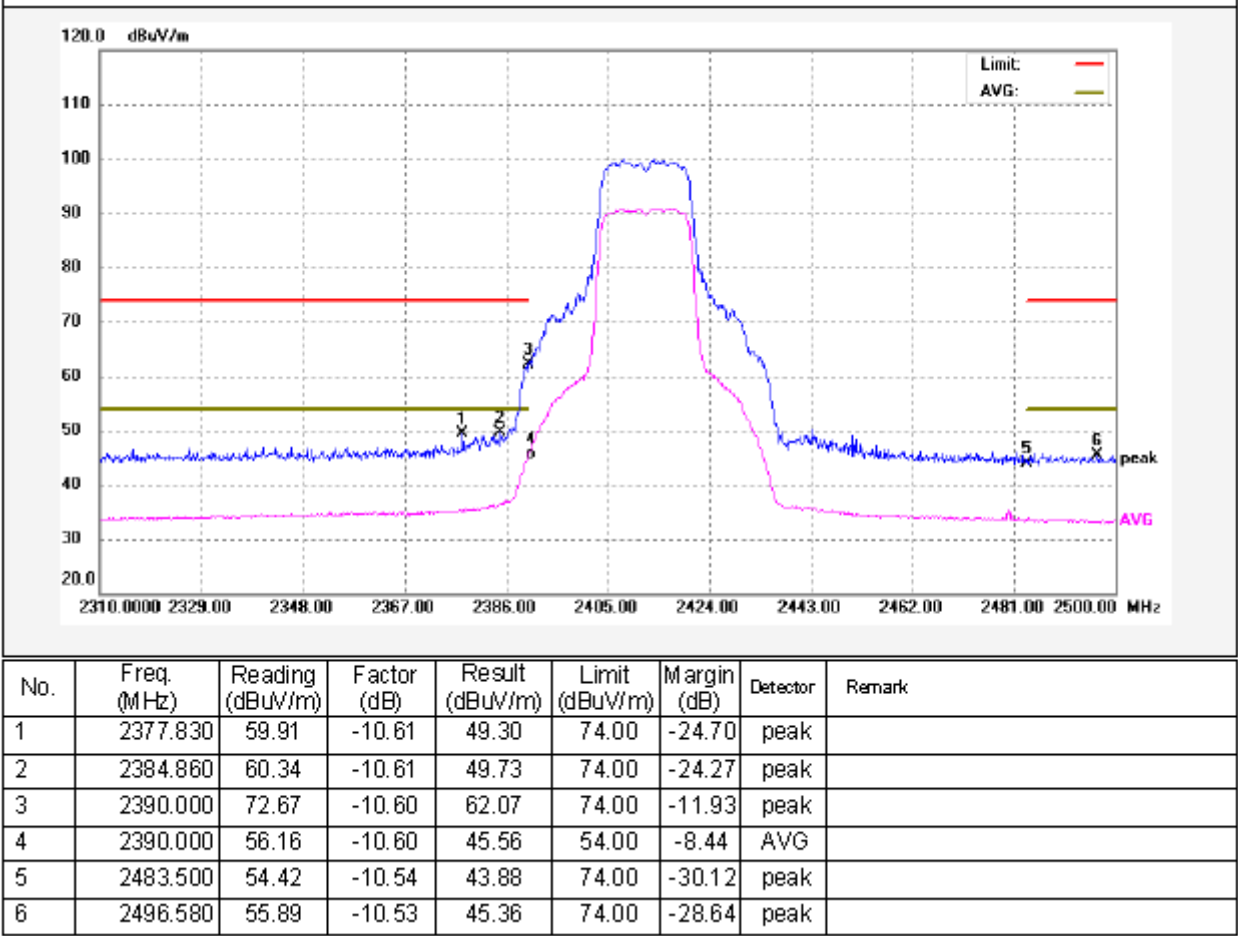
11b: High
Antenna Polarization: Vertical



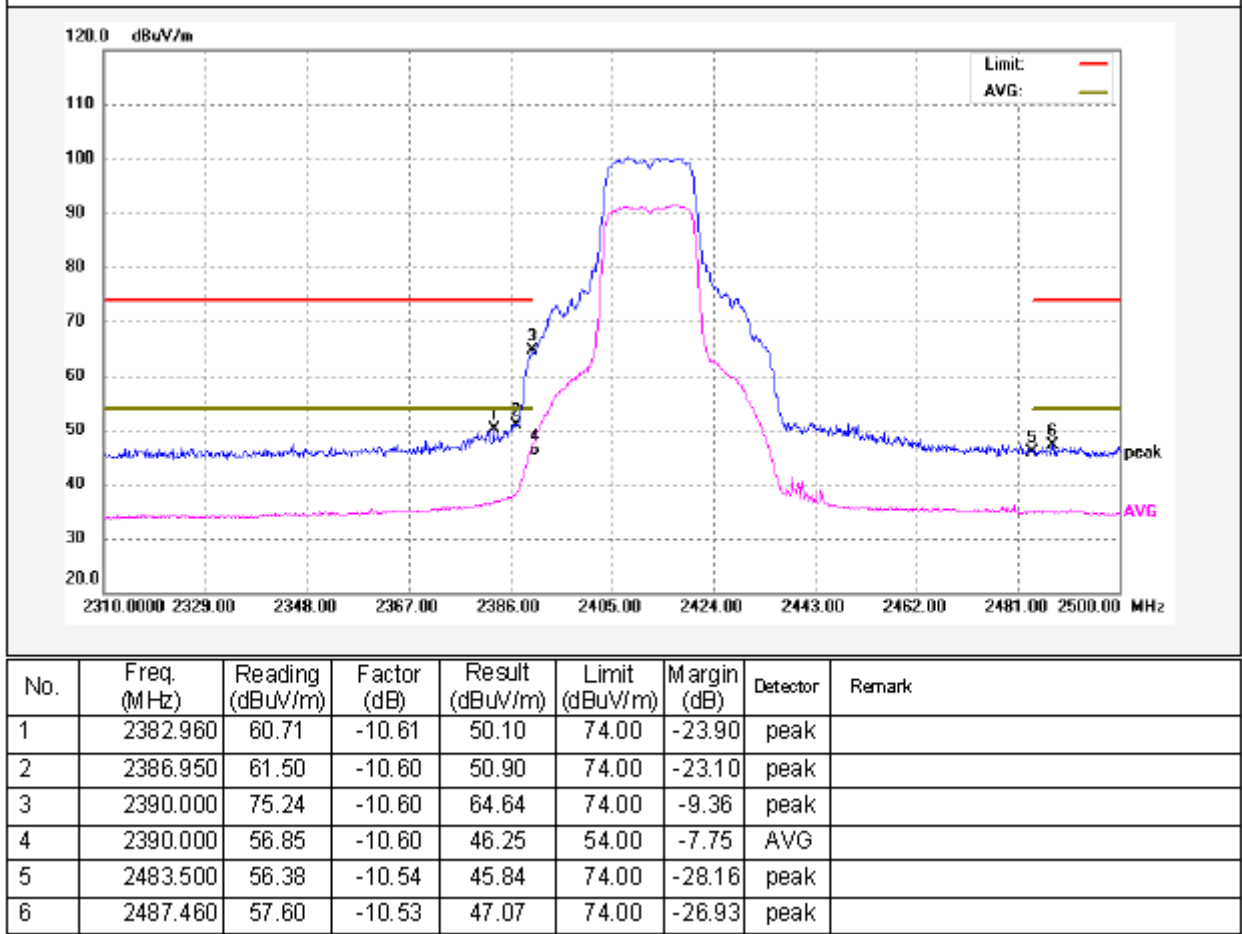
Antenna Polarization: Horizontal



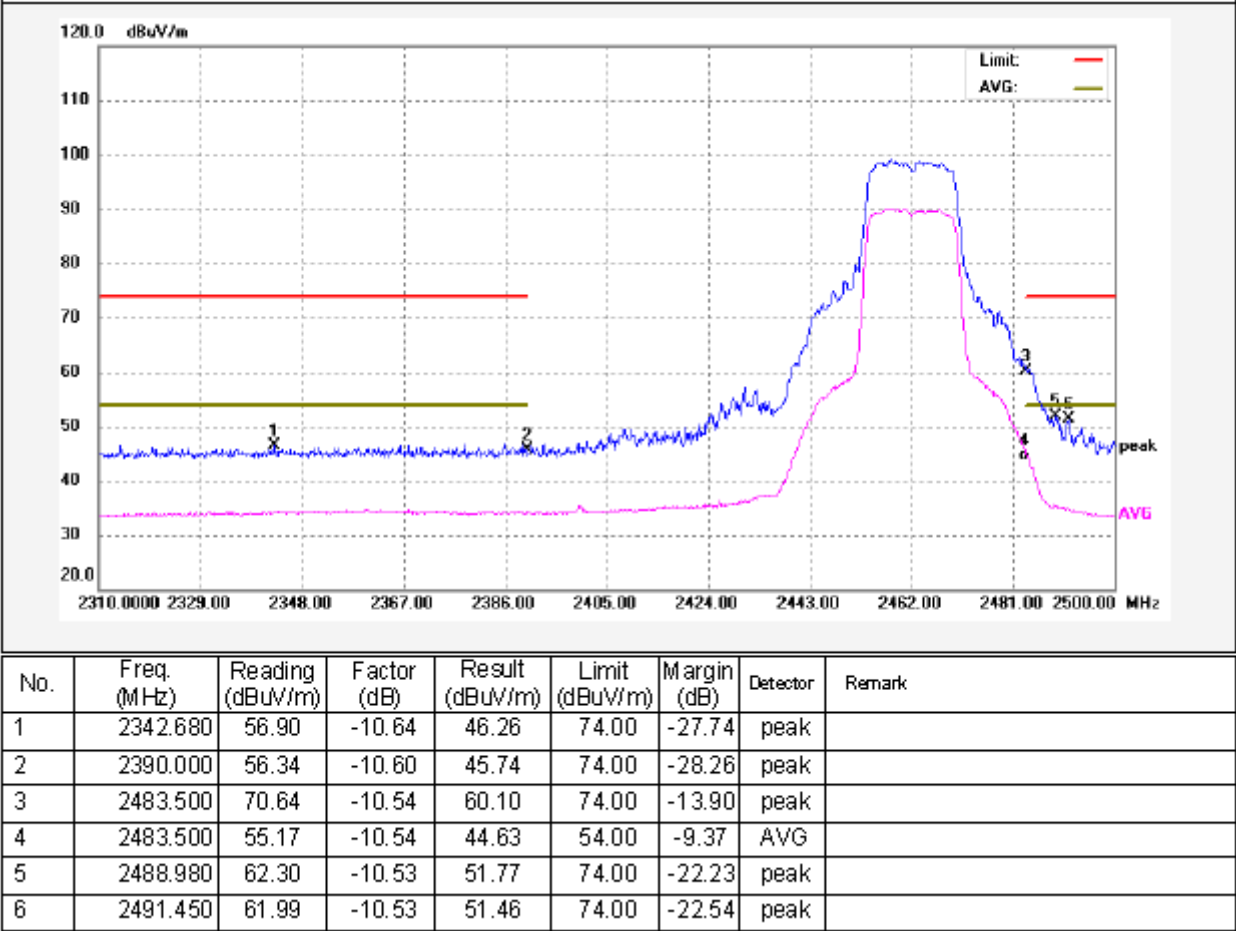
11g:Low
Antenna Polarization: Vertical



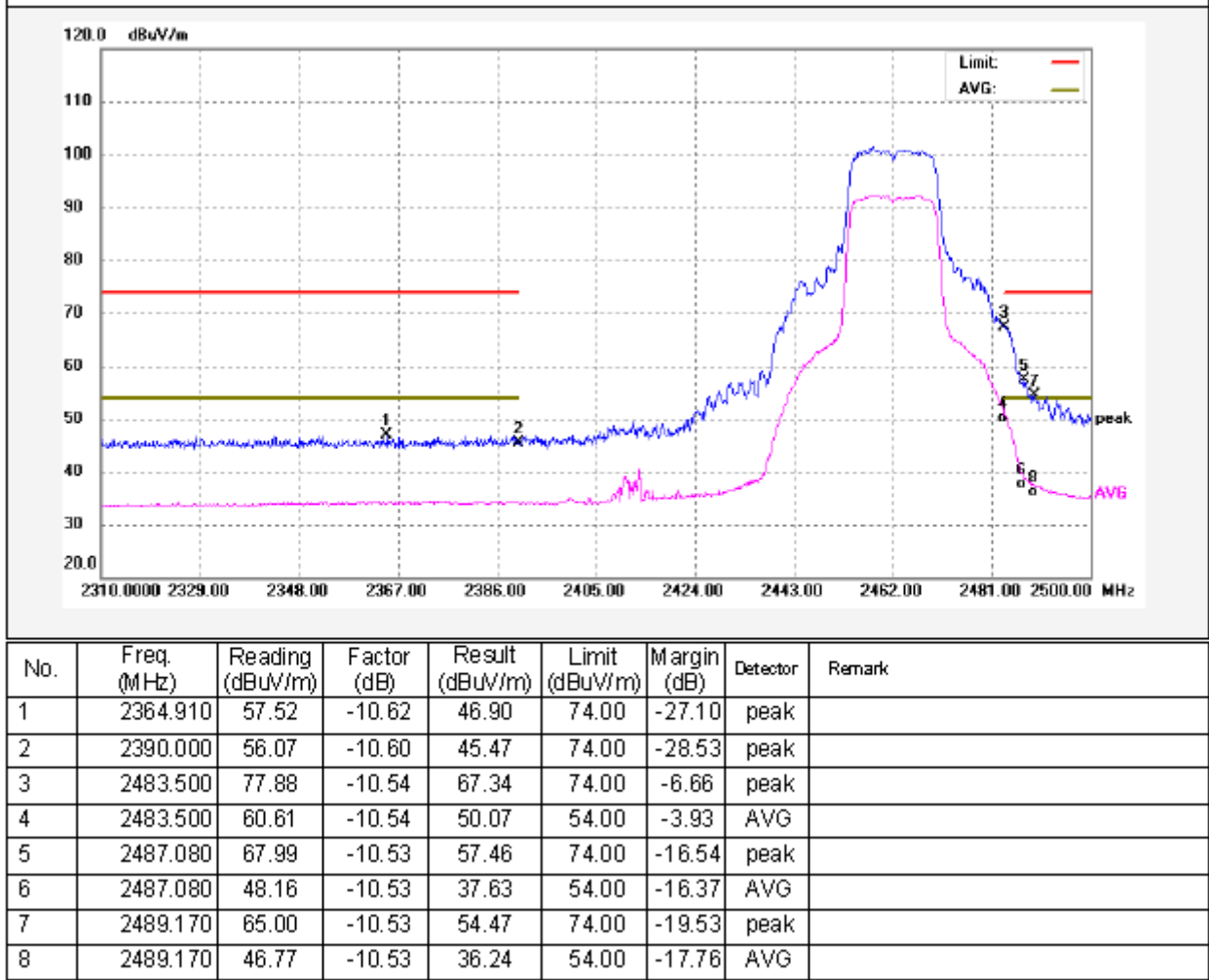
Antenna Polarization: Horizontal



11g: High
Antenna Polarization: Vertical

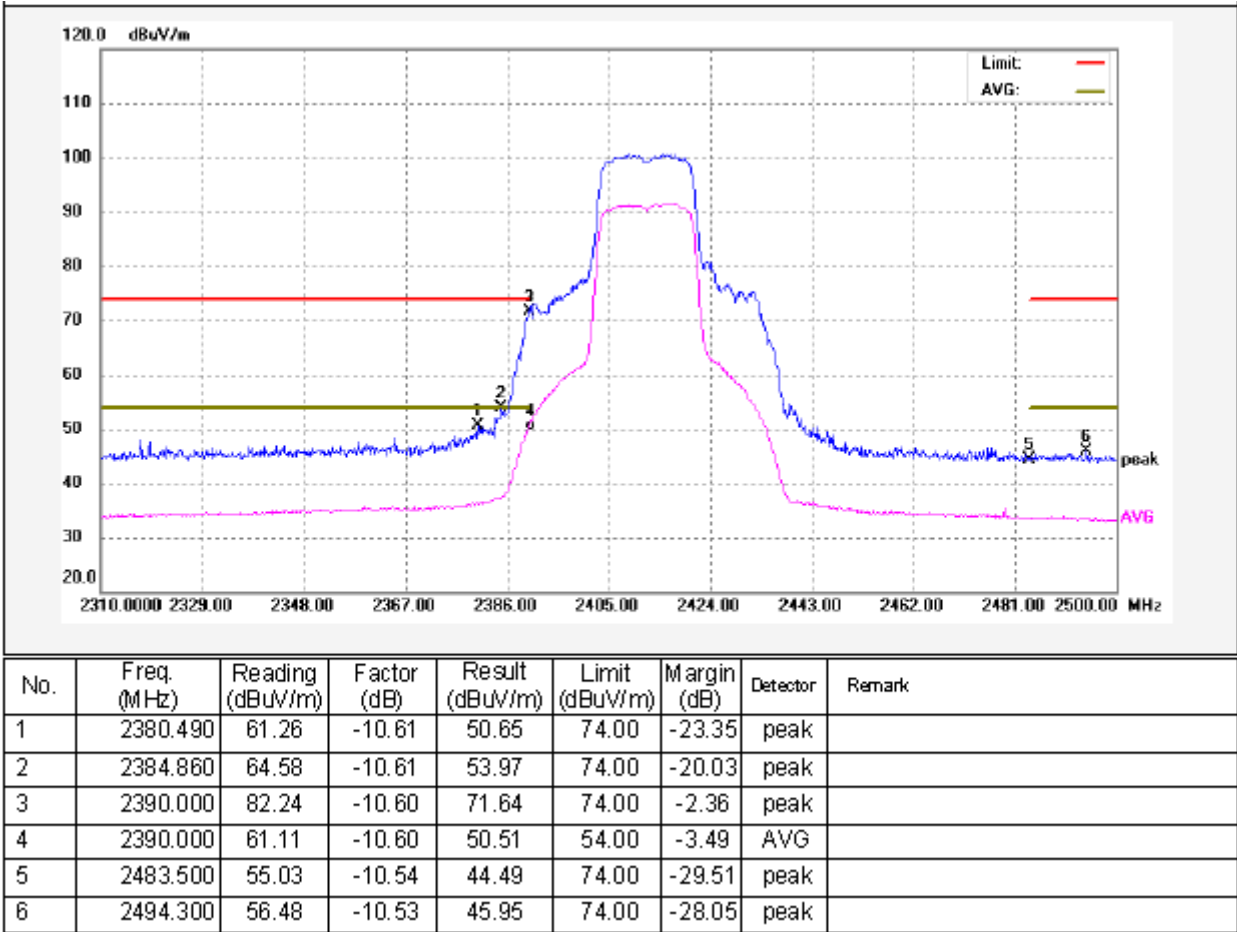


Antenna Polarization: Horizontal

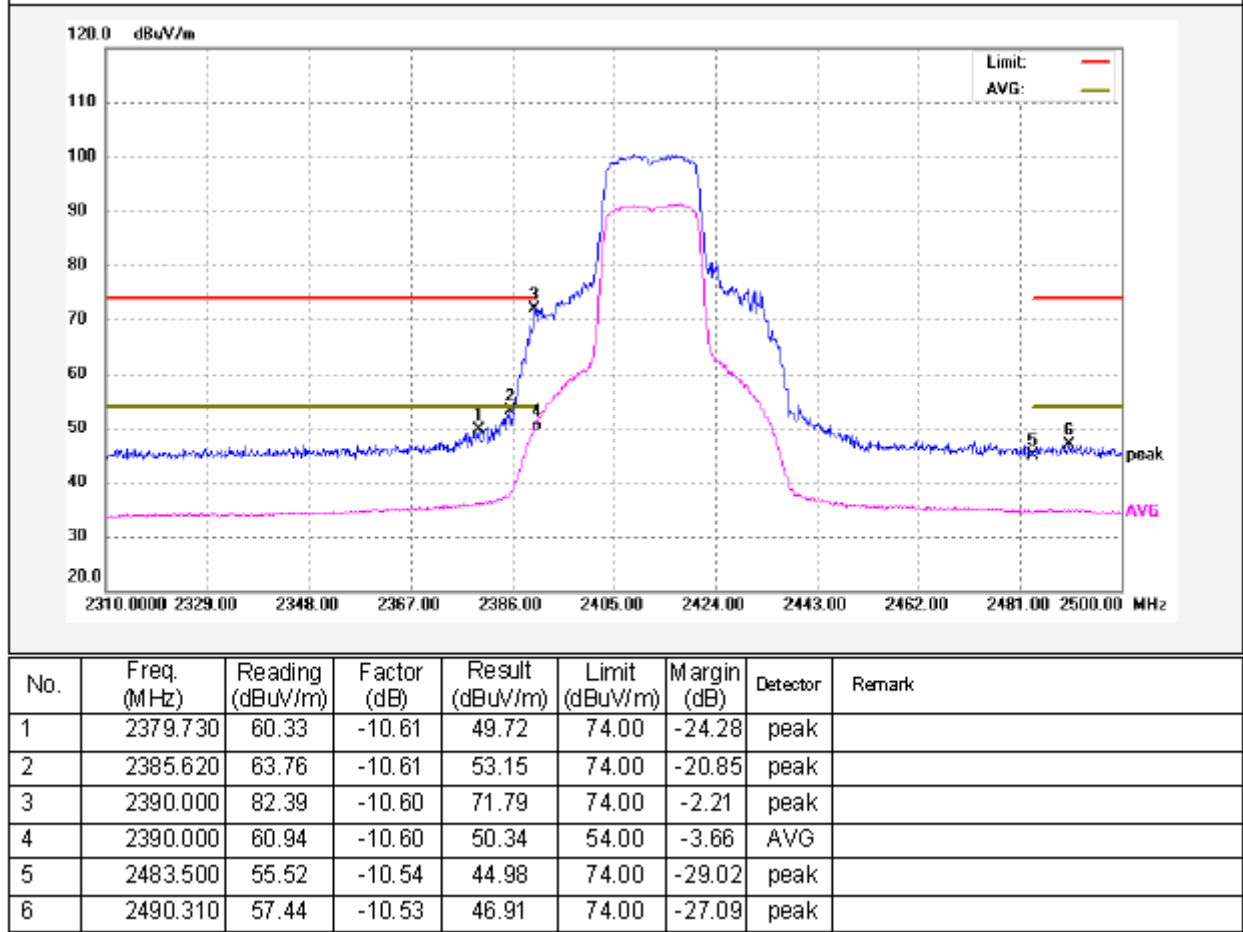


11n HT20:Low

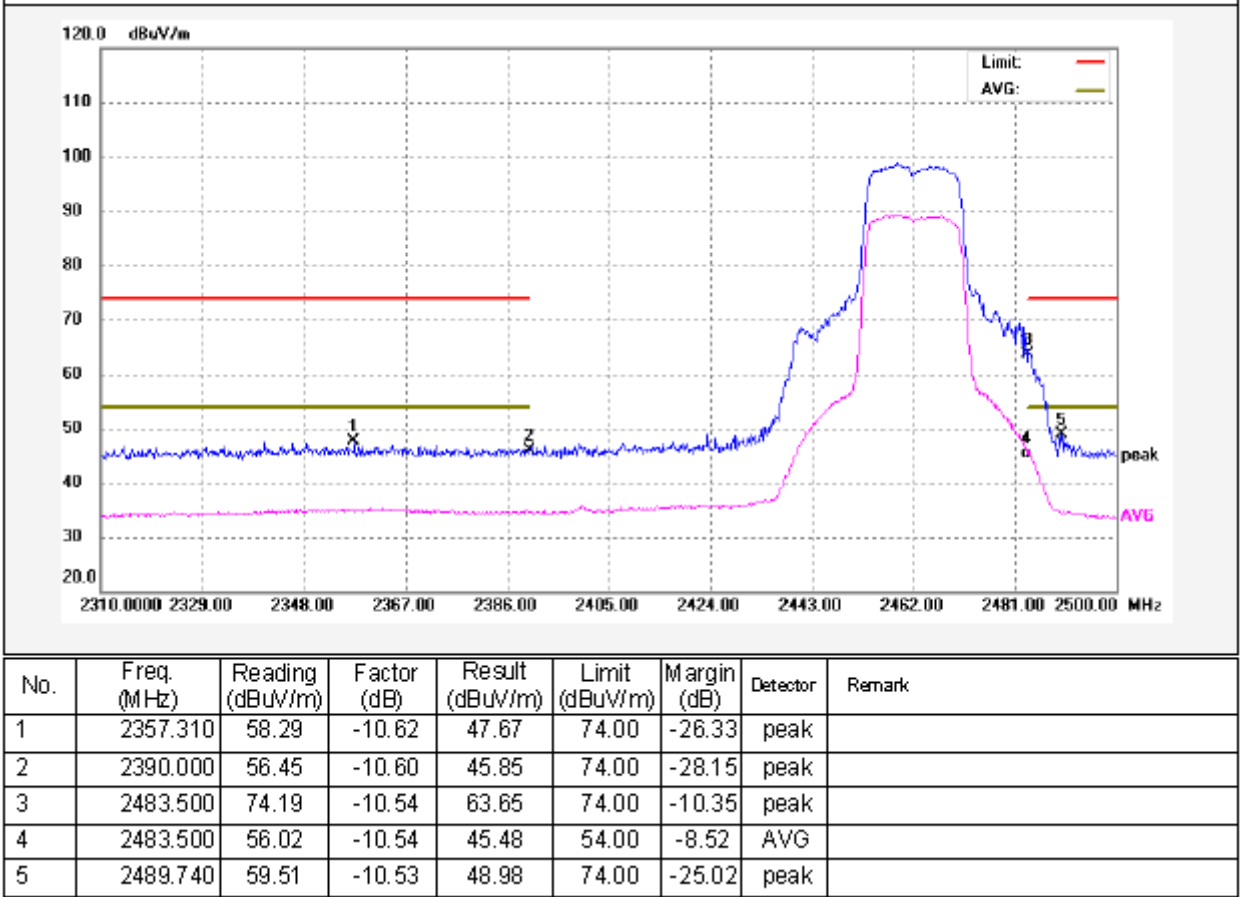
Antenna Polarization: Vertical



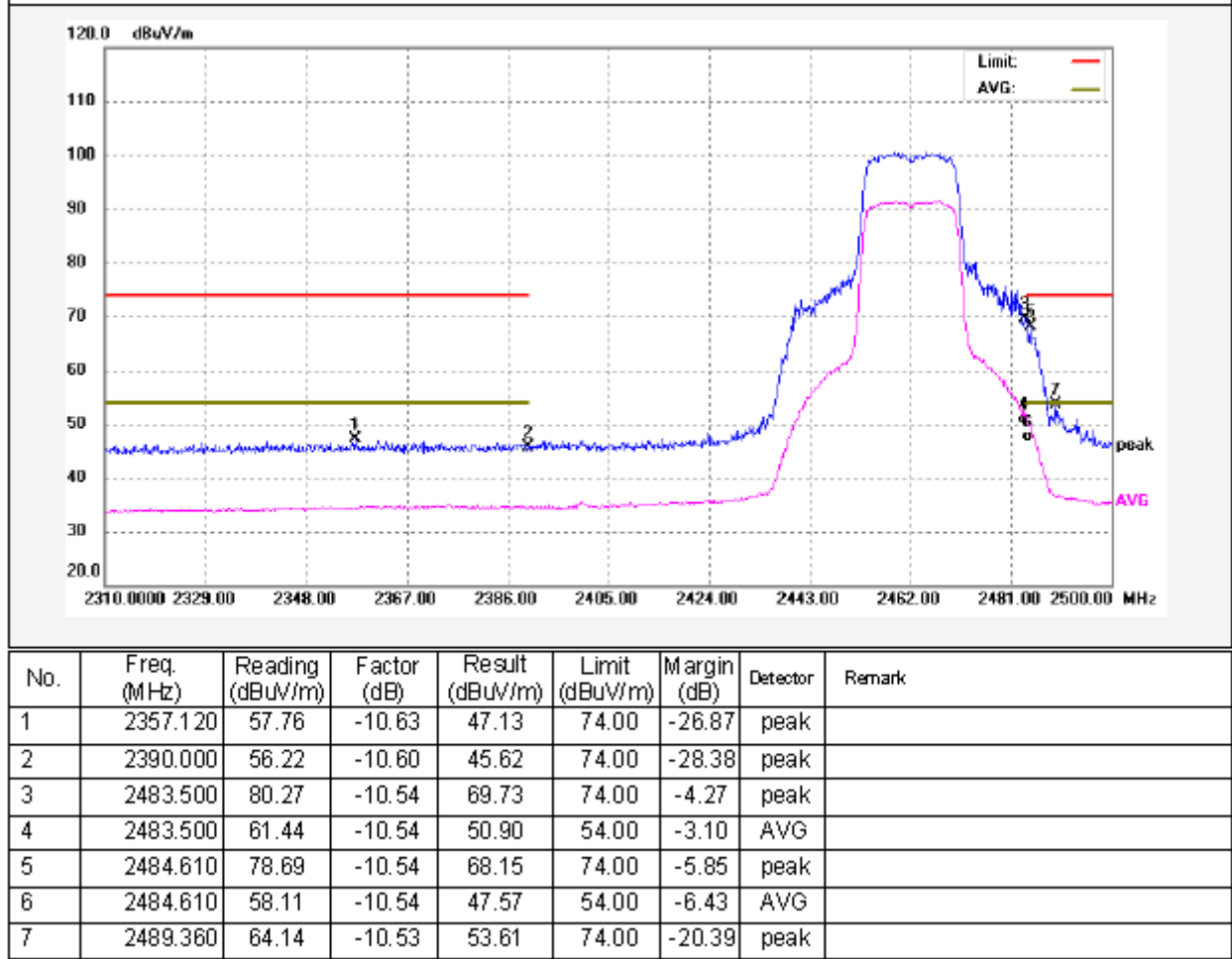
Antenna Polarization: Horizontal



11n HT20: High
Antenna Polarization: Vertical

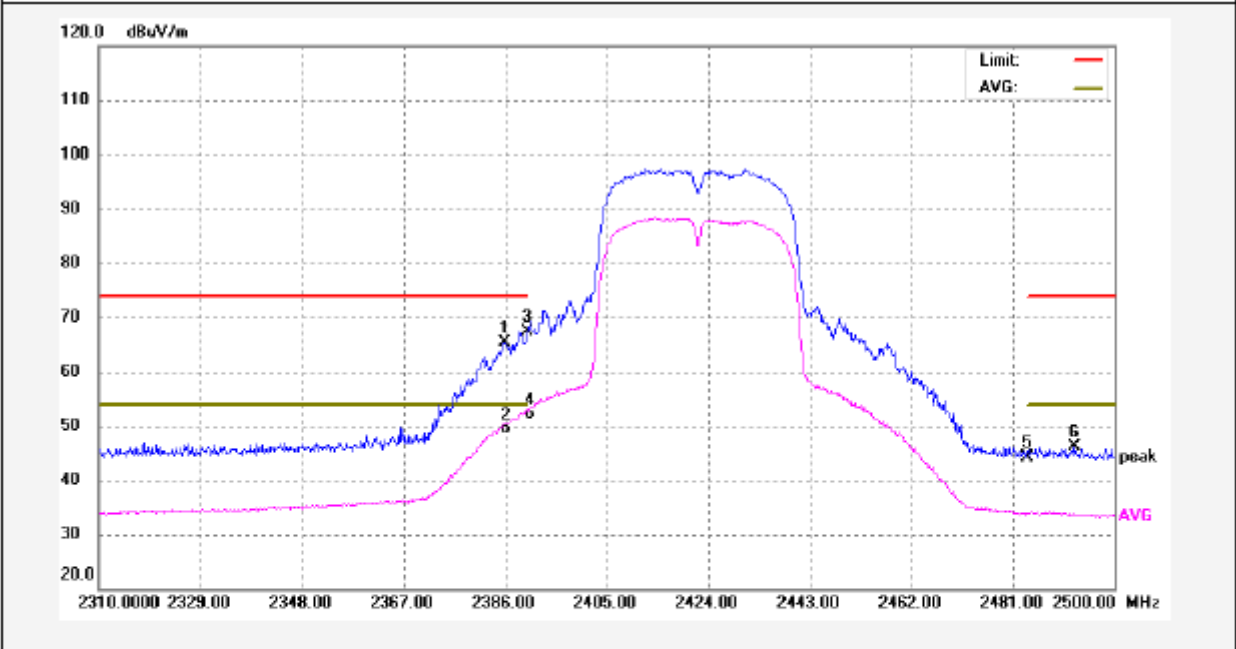


Antenna Polarization: Horizontal



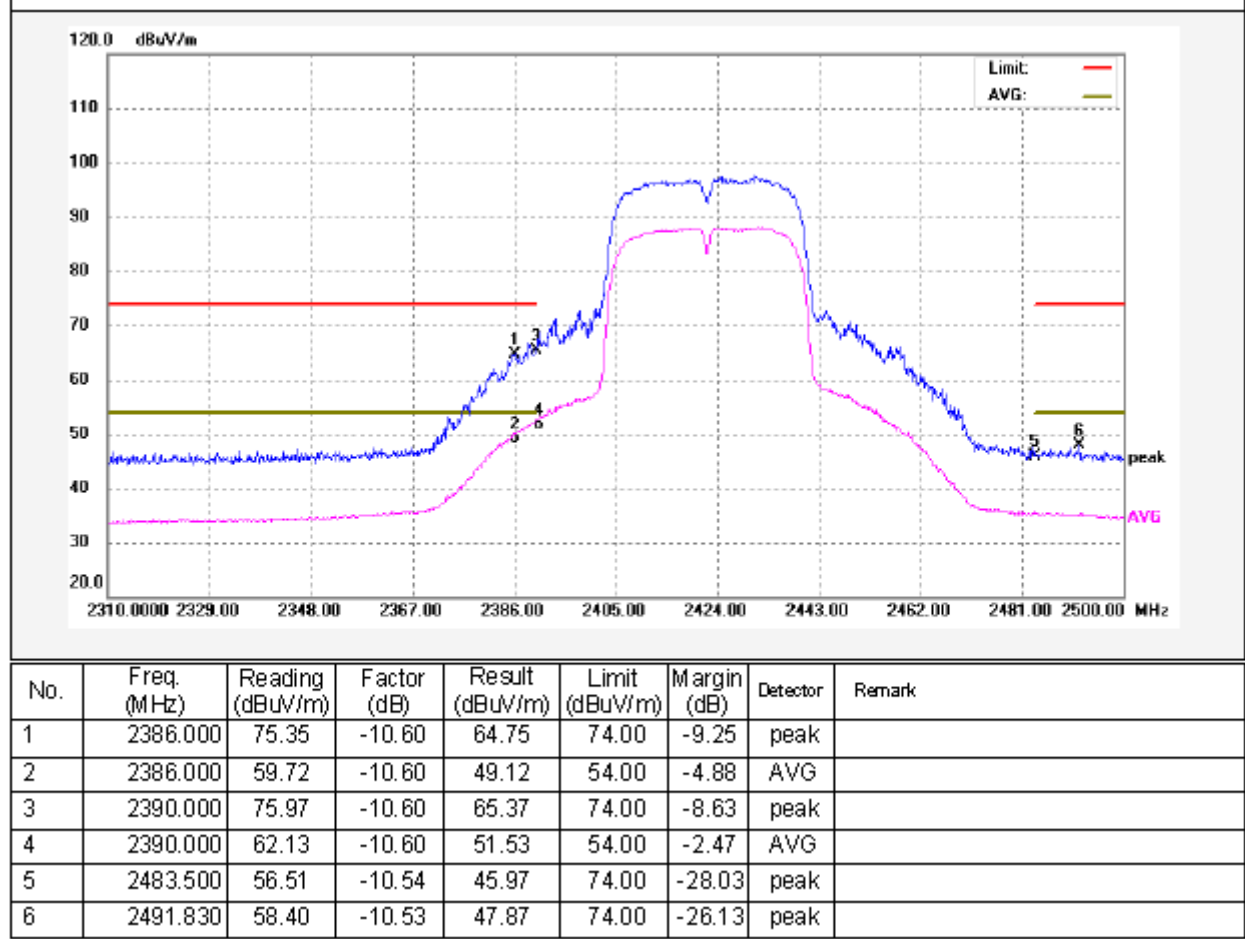
11n HT40:Low

Antenna Polarization: Vertical



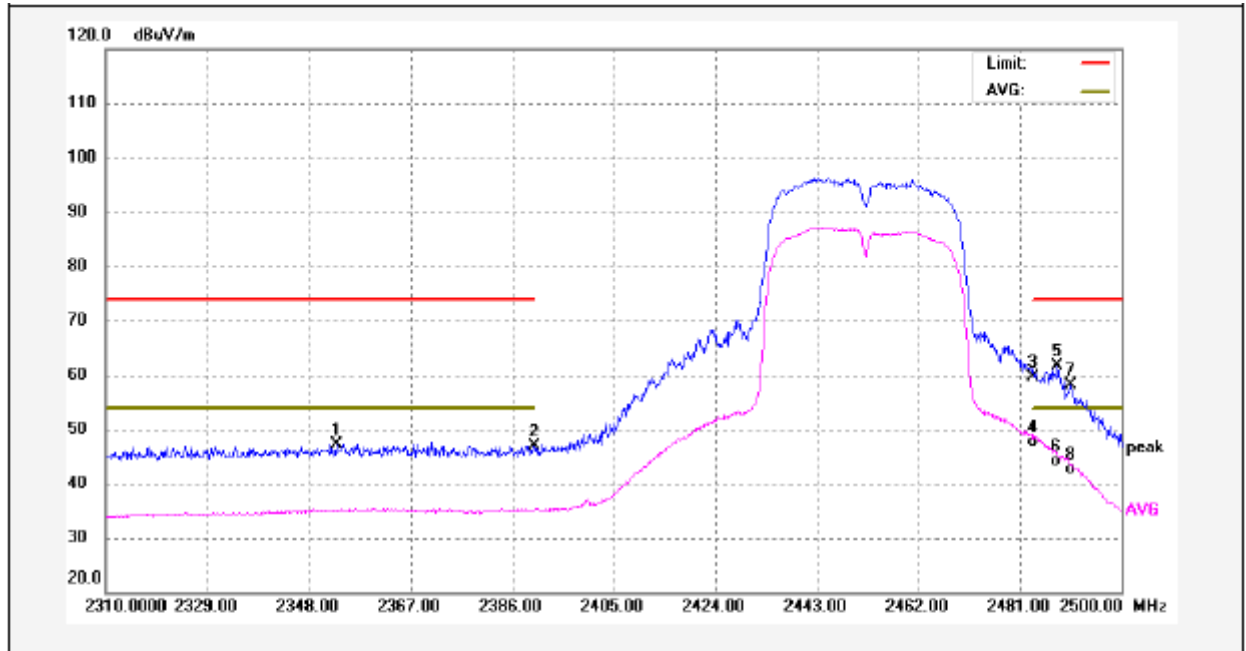
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2385.810	76.10	-10.60	65.50	74.00	-8.50	peak	
2	2385.810	59.99	-10.60	49.39	54.00	-4.61	AVG	
3	2390.000	78.01	-10.60	67.41	74.00	-6.59	peak	
4	2390.000	62.64	-10.60	52.04	54.00	-1.96	AVG	
5	2483.500	54.57	-10.54	44.03	74.00	-29.97	peak	
6	2492.590	56.63	-10.53	46.10	74.00	-27.90	peak	

Antenna Polarization: Horizontal



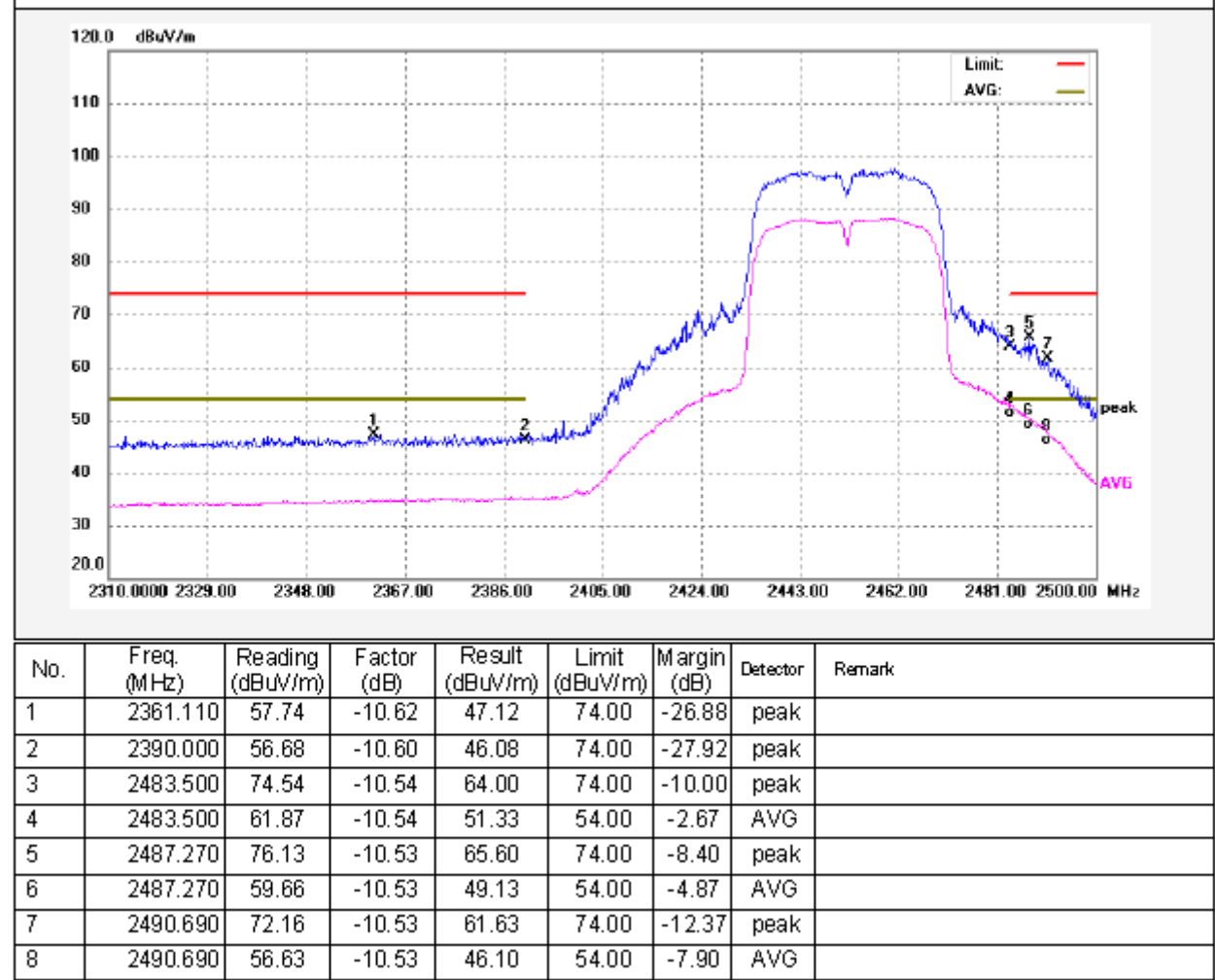
11n HT40: High

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2353.130	57.69	-10.63	47.06	74.00	-26.94	peak	
2	2390.000	57.41	-10.60	46.81	74.00	-27.19	peak	
3	2483.500	70.21	-10.54	59.67	74.00	-14.33	peak	
4	2483.500	58.22	-10.54	47.68	54.00	-6.32	AVG	
5	2488.030	72.14	-10.53	61.61	74.00	-12.39	peak	
6	2488.030	54.65	-10.53	44.12	54.00	-9.88	AVG	
7	2490.500	68.62	-10.53	58.09	74.00	-15.91	peak	
8	2490.500	53.10	-10.53	42.57	54.00	-11.43	AVG	

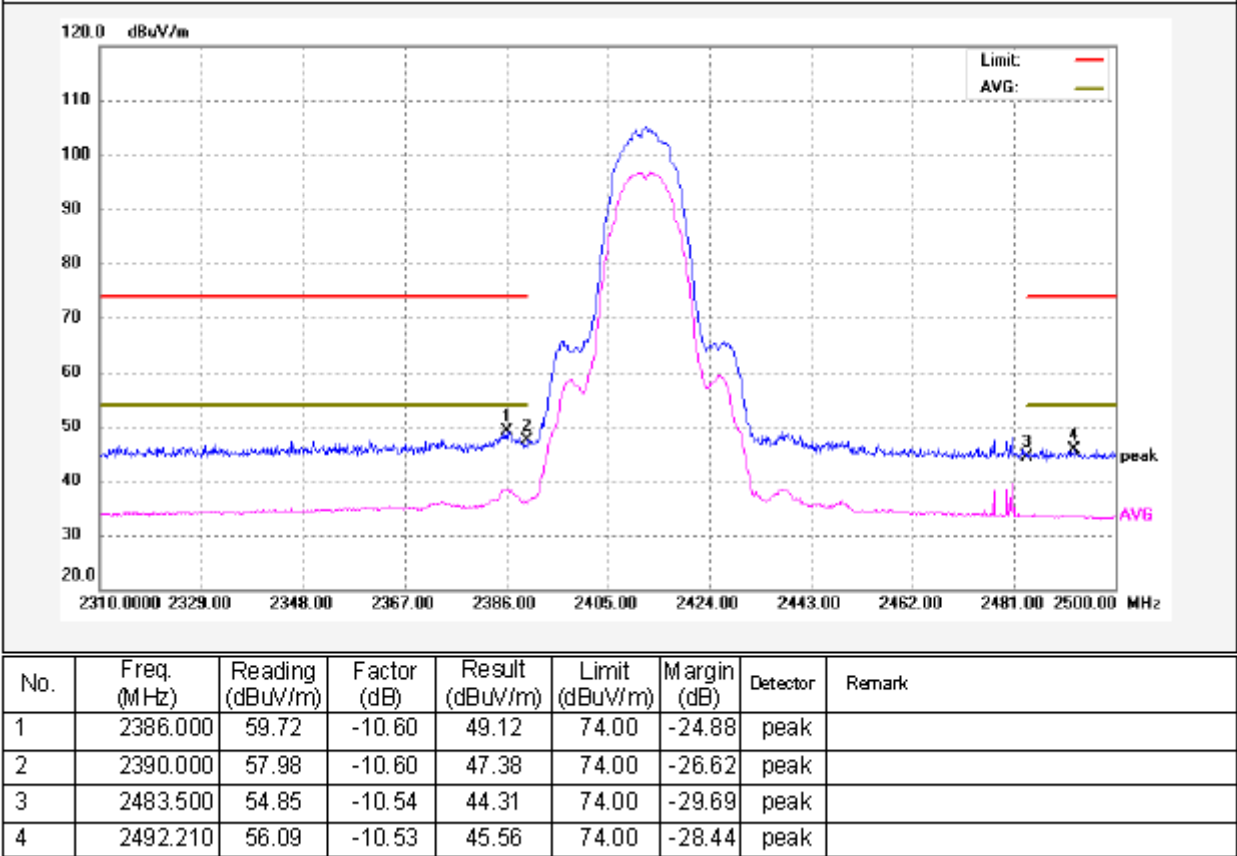
Antenna Polarization: Horizontal



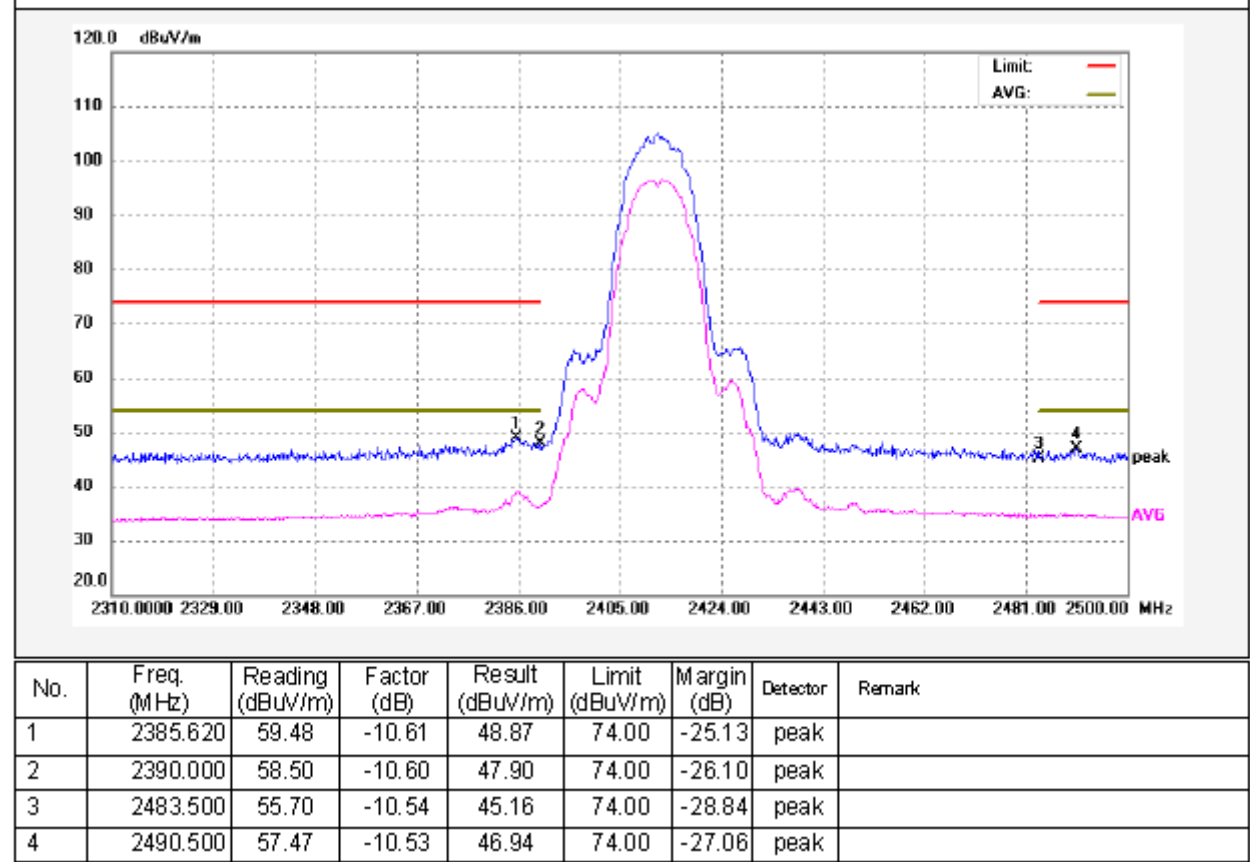
Model H02

11b:Low

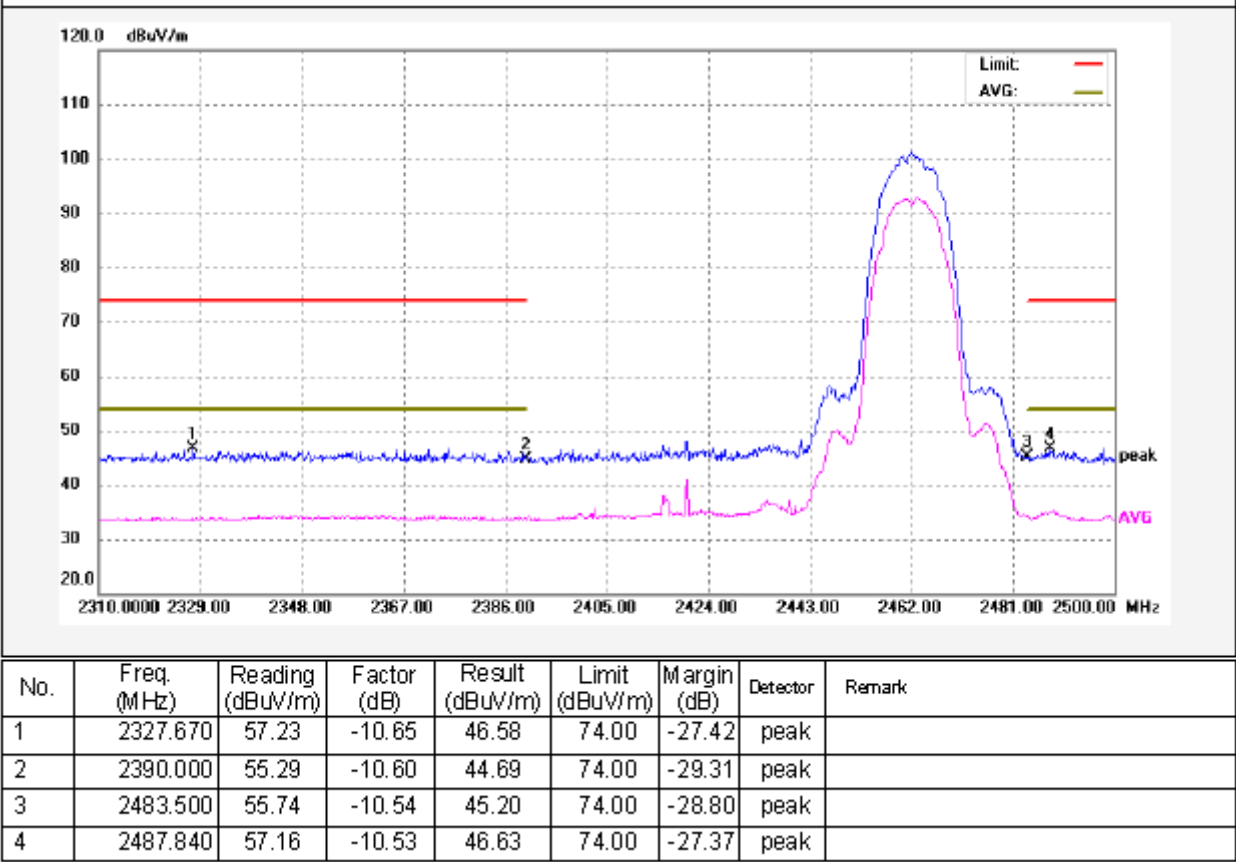
Antenna Polarization: Vertical



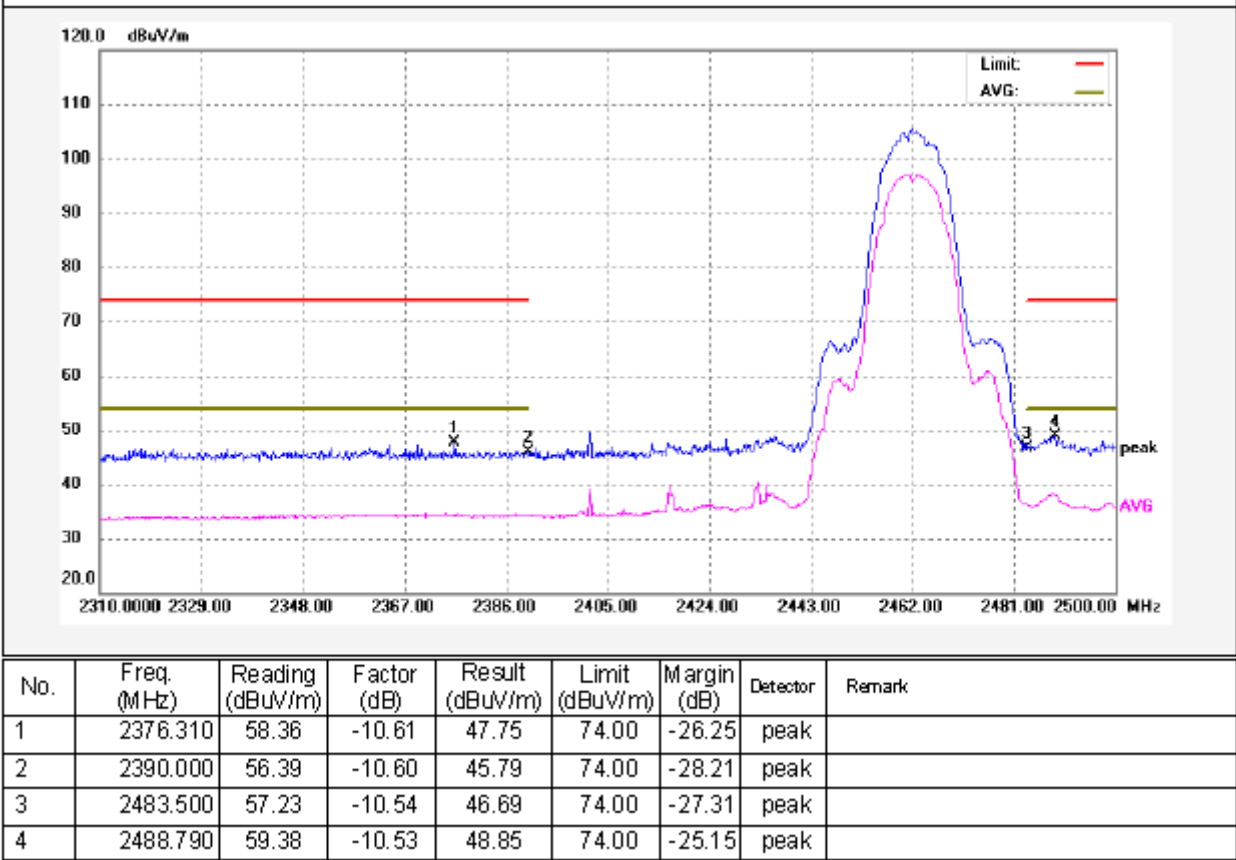
Antenna Polarization: Horizontal



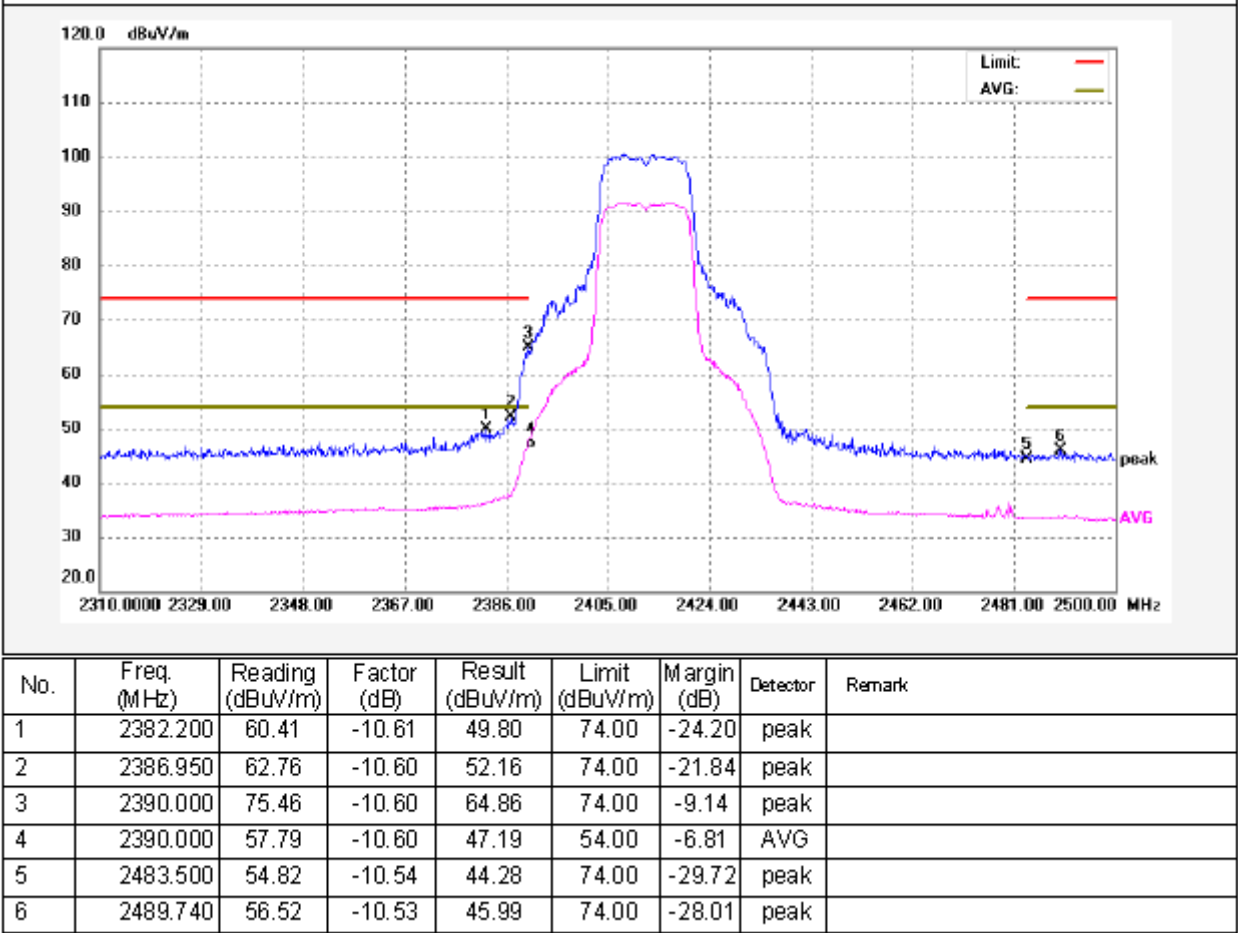
11b: High
Antenna Polarization: Vertical



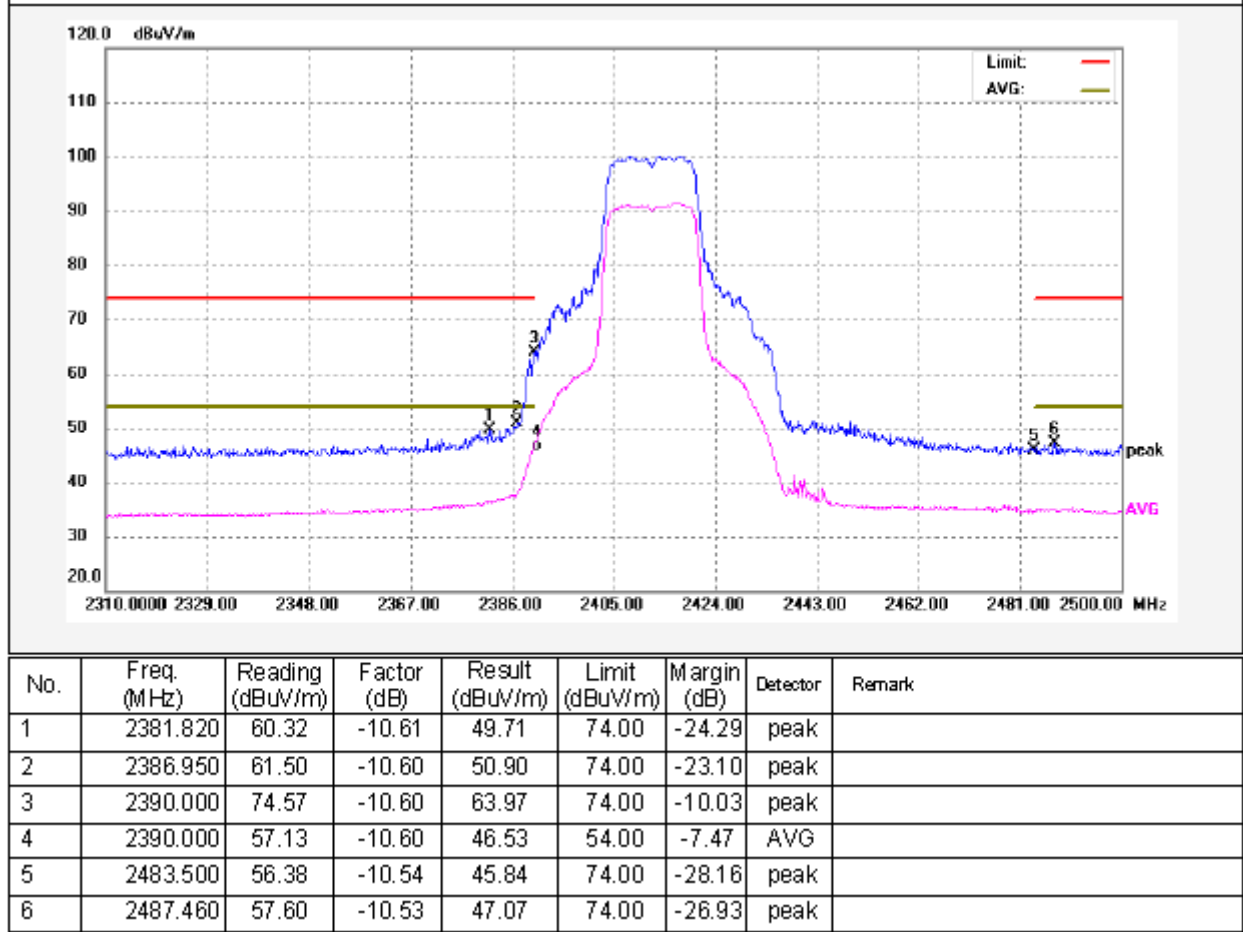
Antenna Polarization: Horizontal



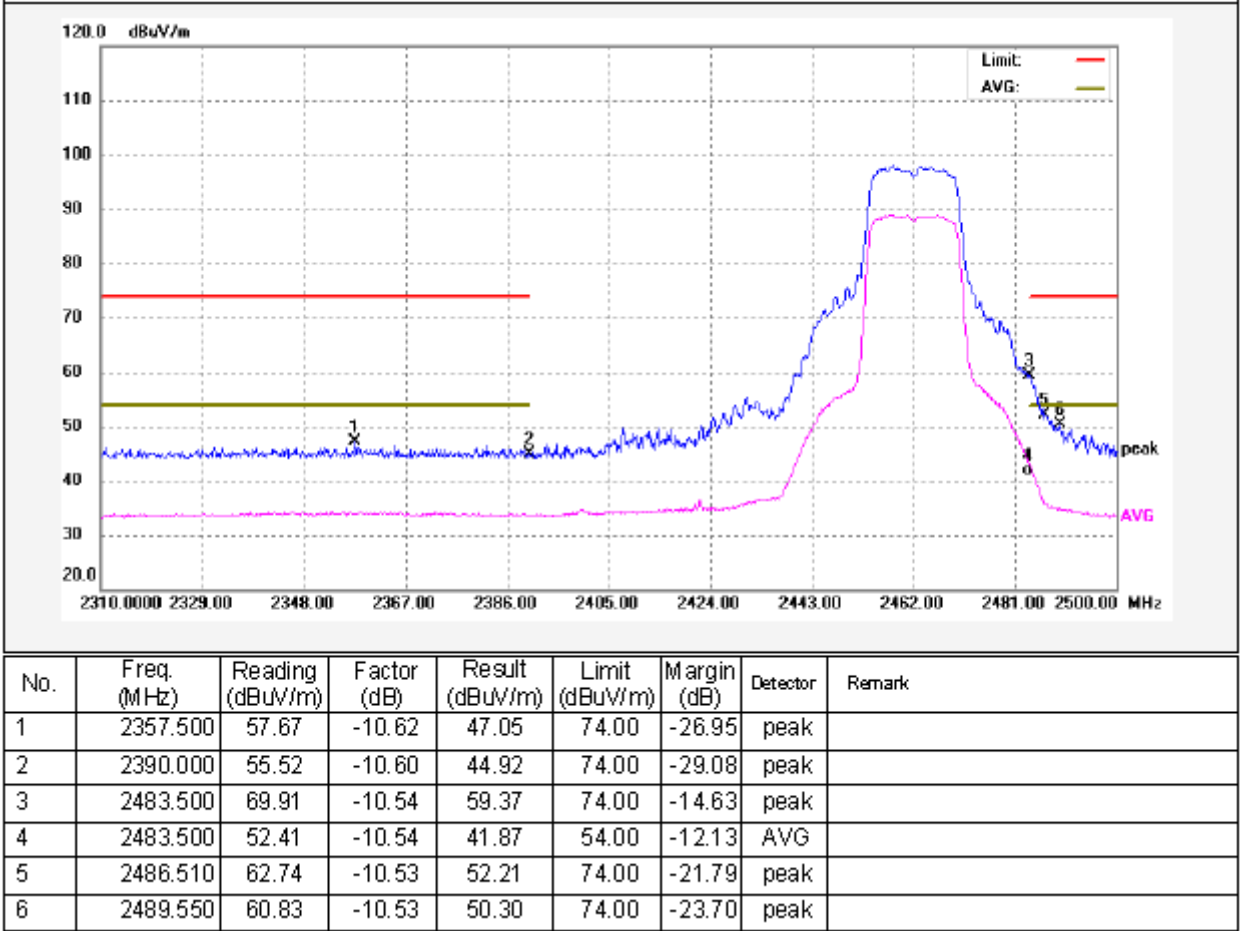
11g:Low
Antenna Polarization: Vertical



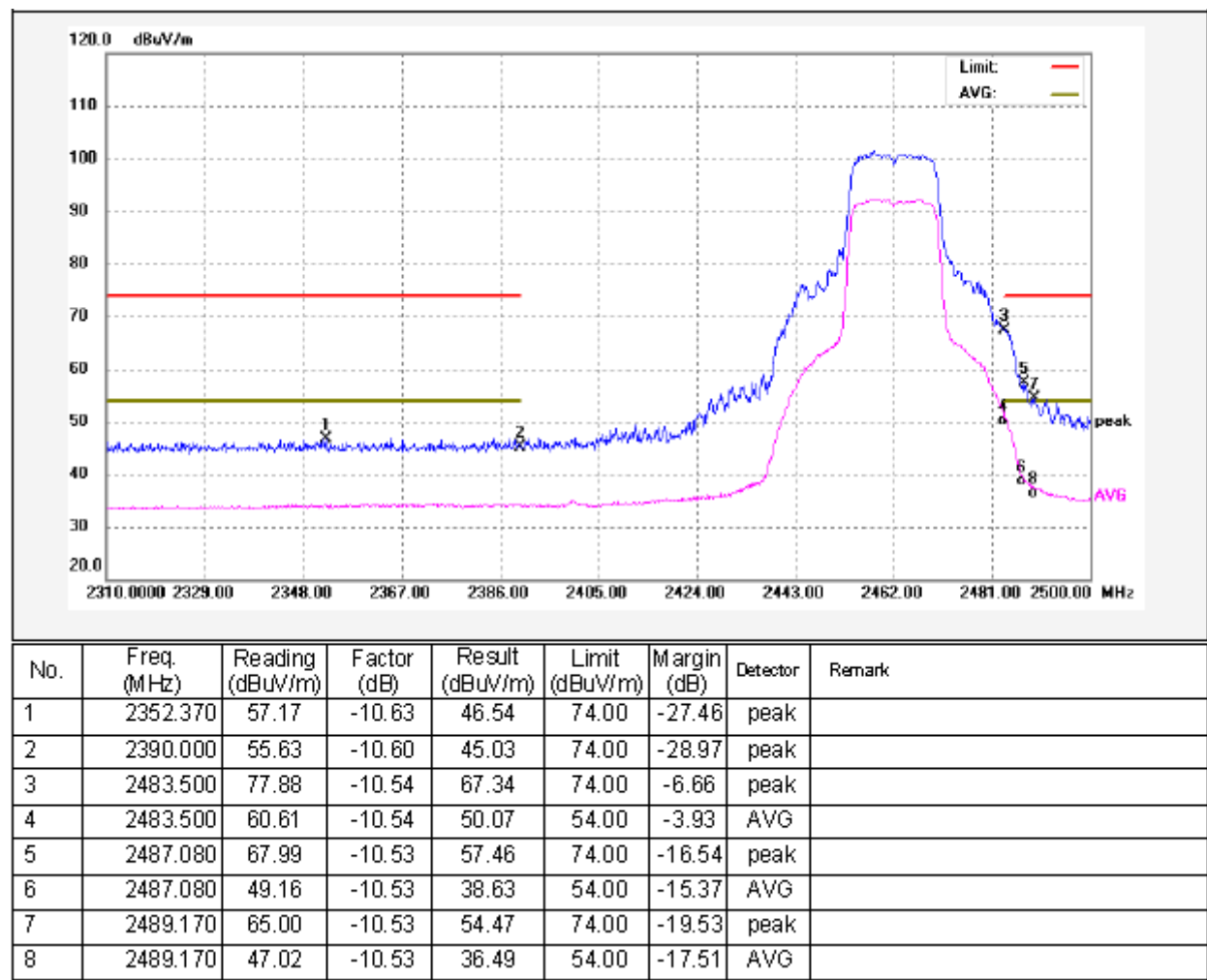
Antenna Polarization: Horizontal



11g: High
Antenna Polarization: Vertical

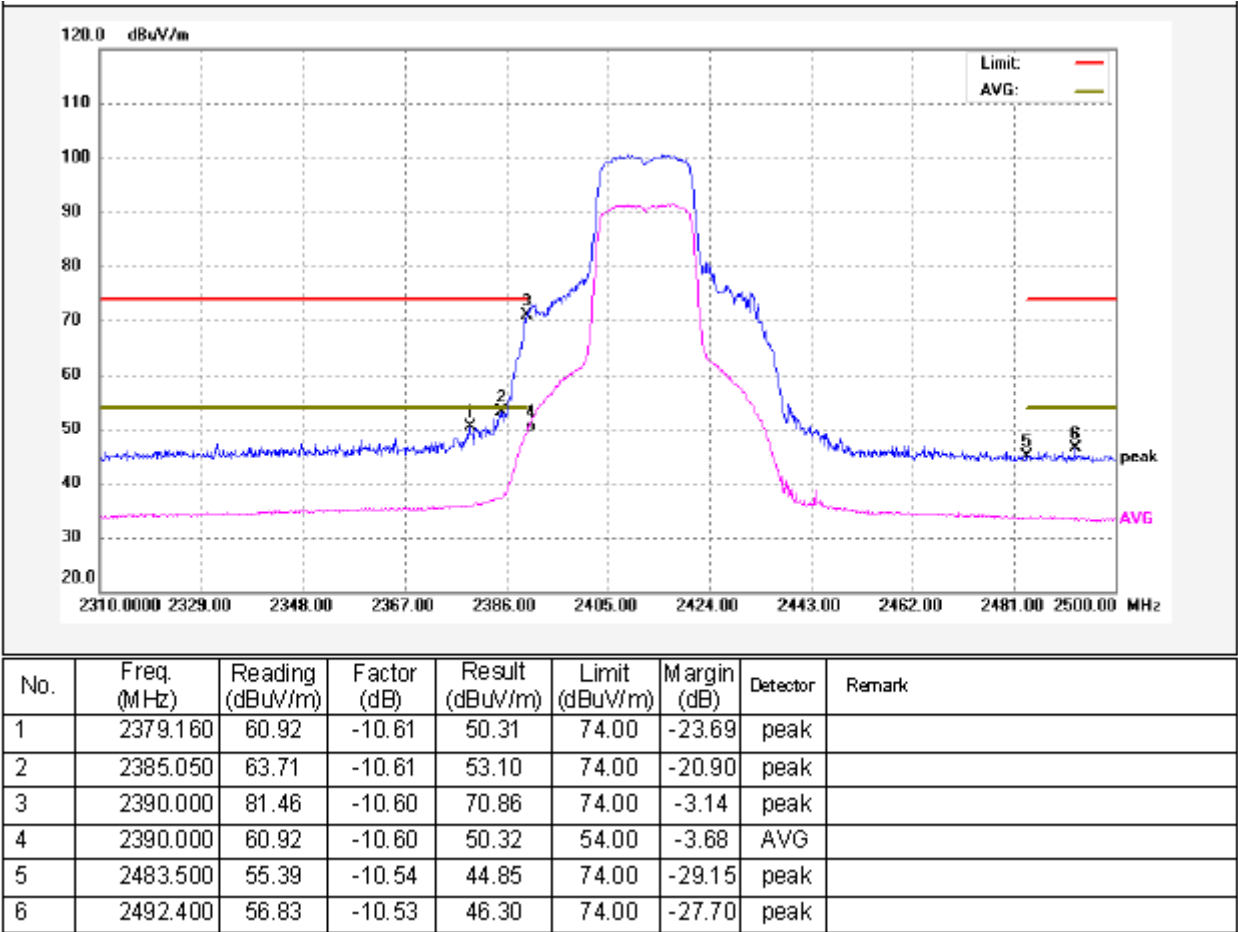


Antenna Polarization: Horizontal

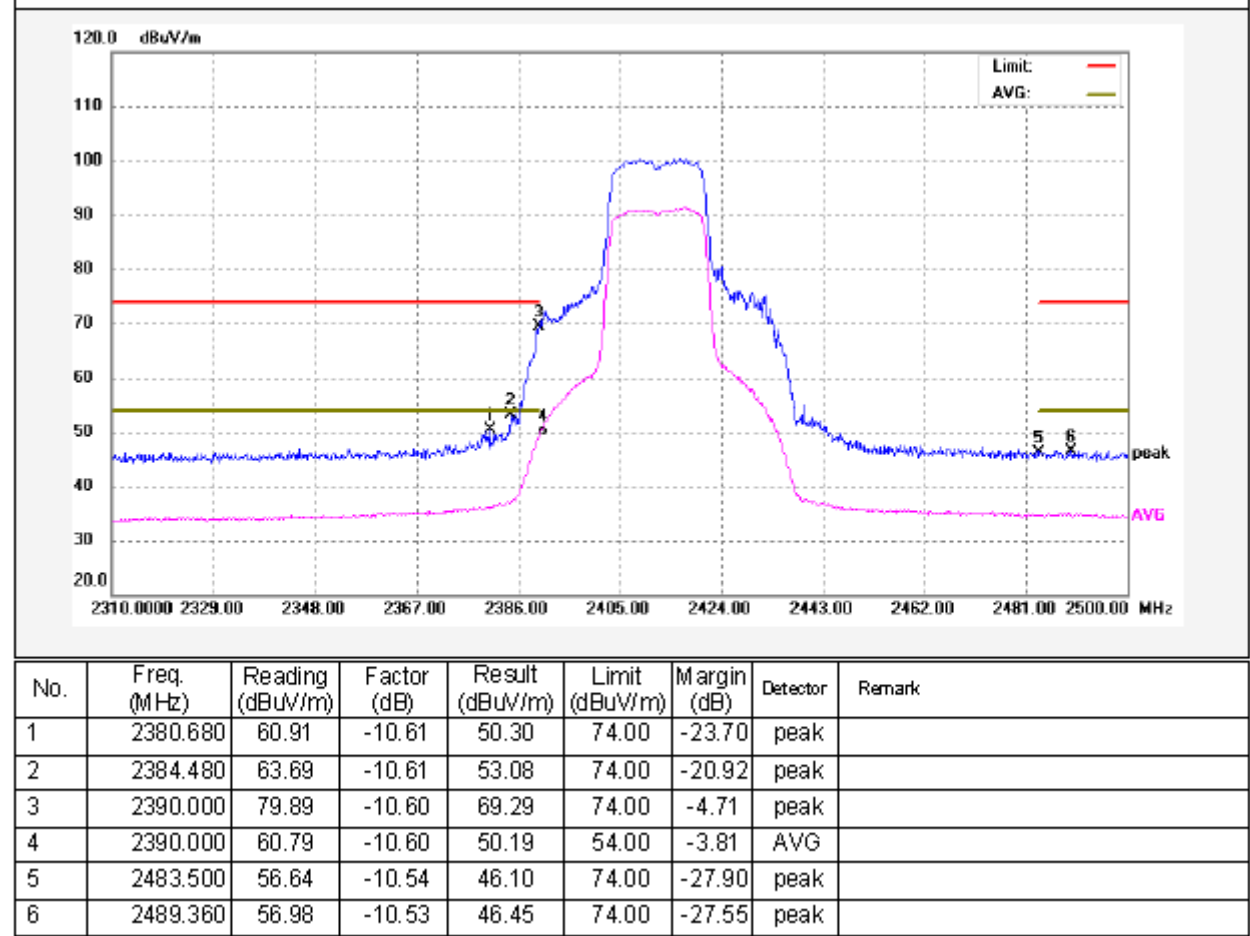


11n HT20:Low

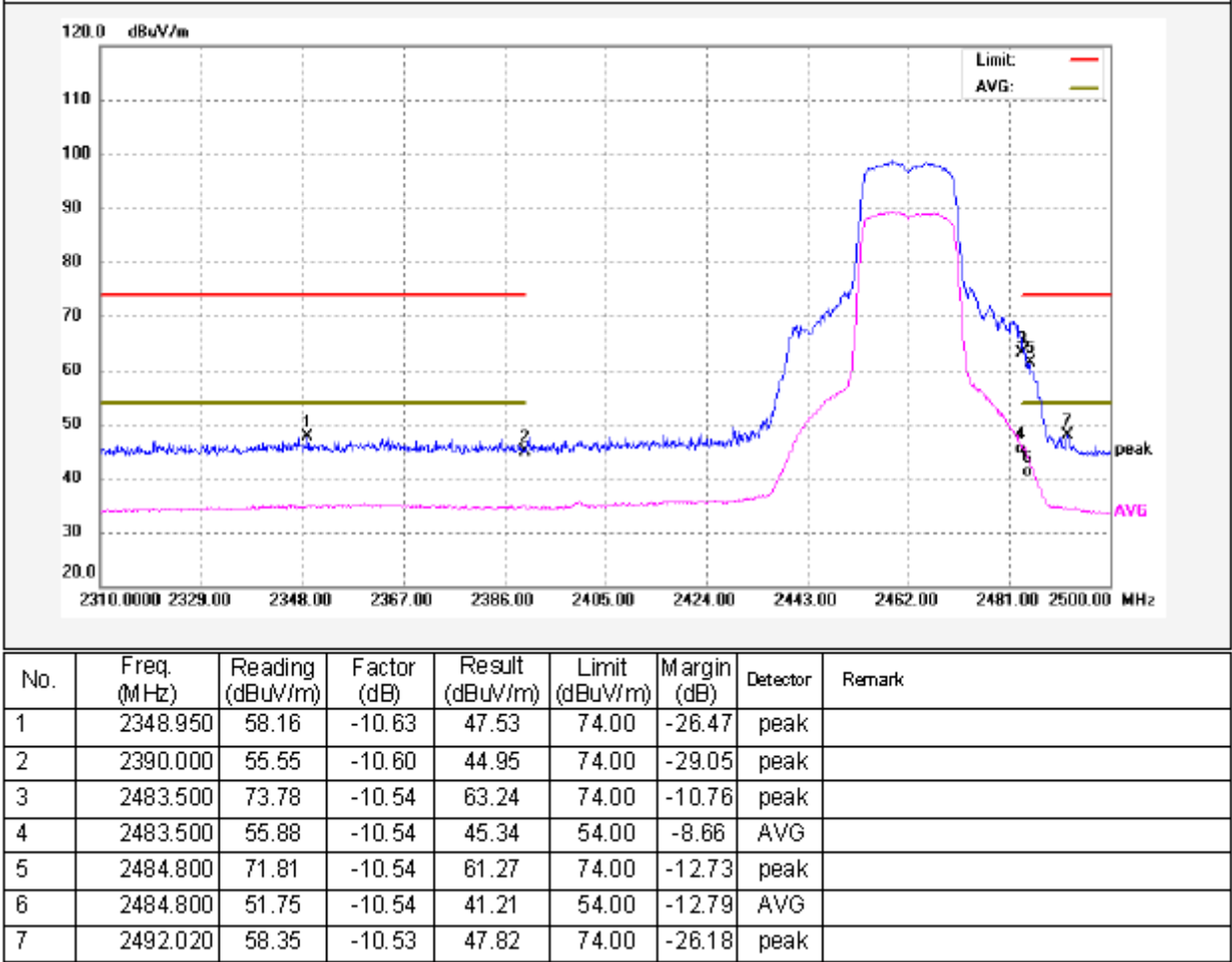
Antenna Polarization: Vertical



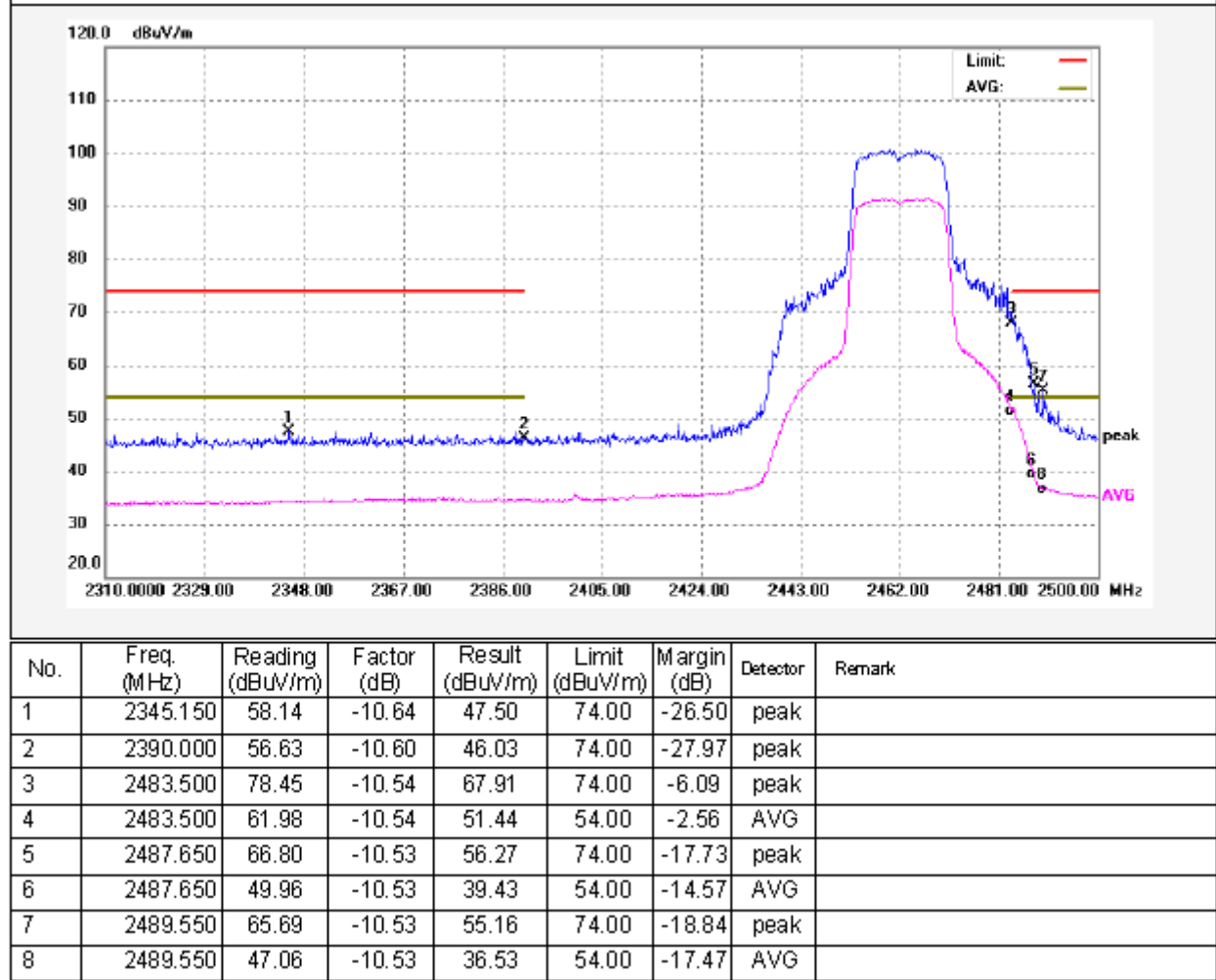
Antenna Polarization: Horizontal



11n HT20: High
Antenna Polarization: Vertical

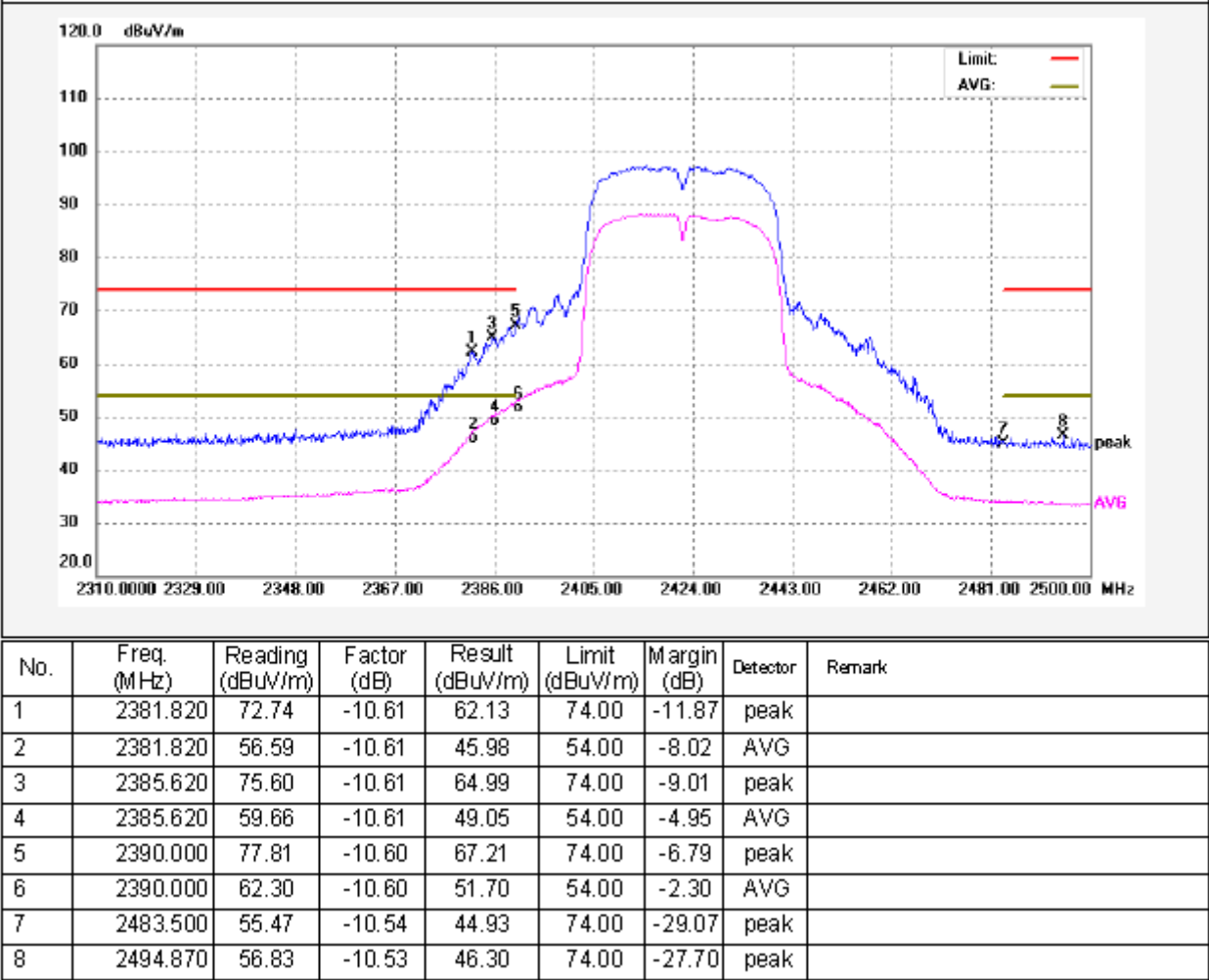


Antenna Polarization: Horizontal

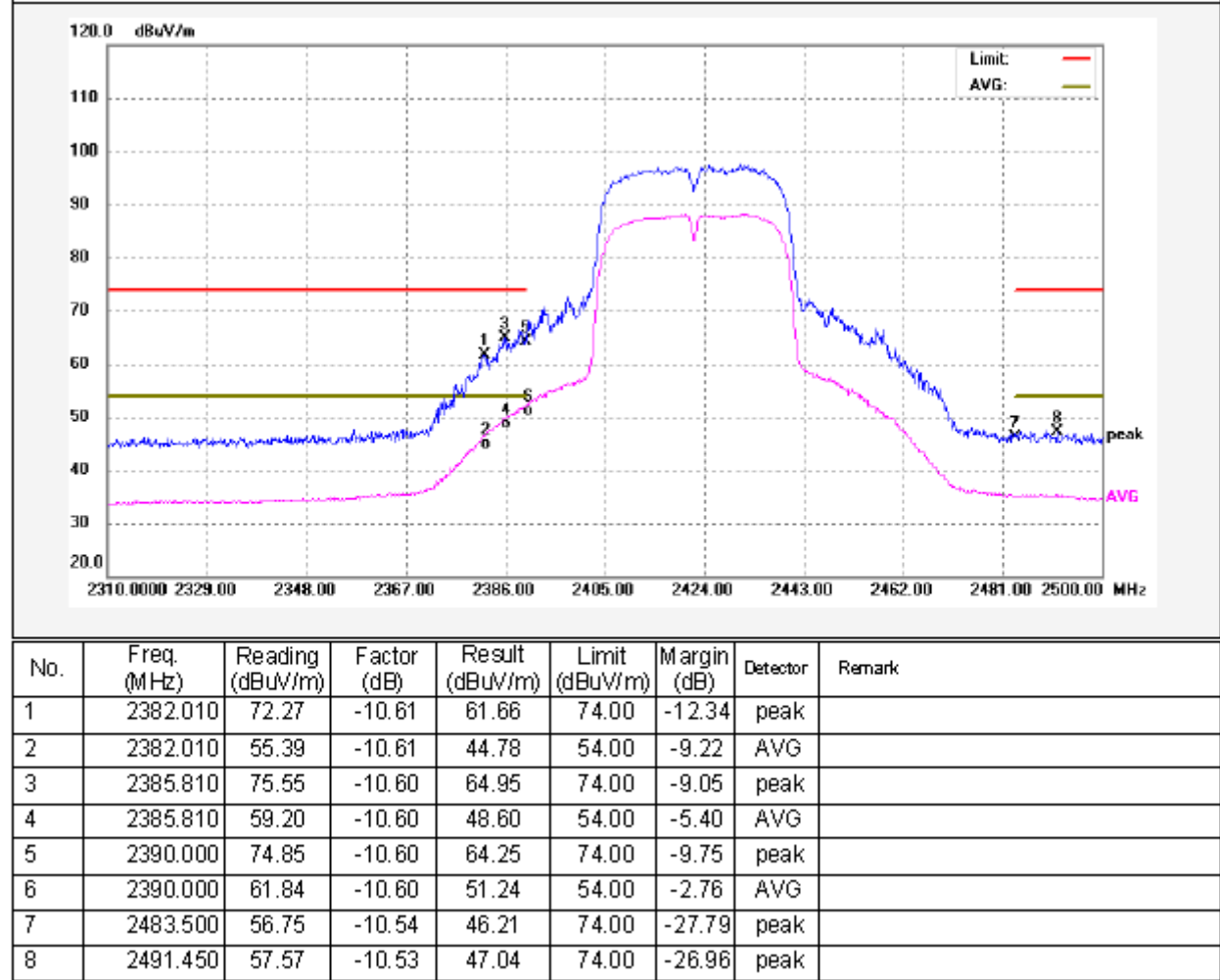


11n HT40:Low

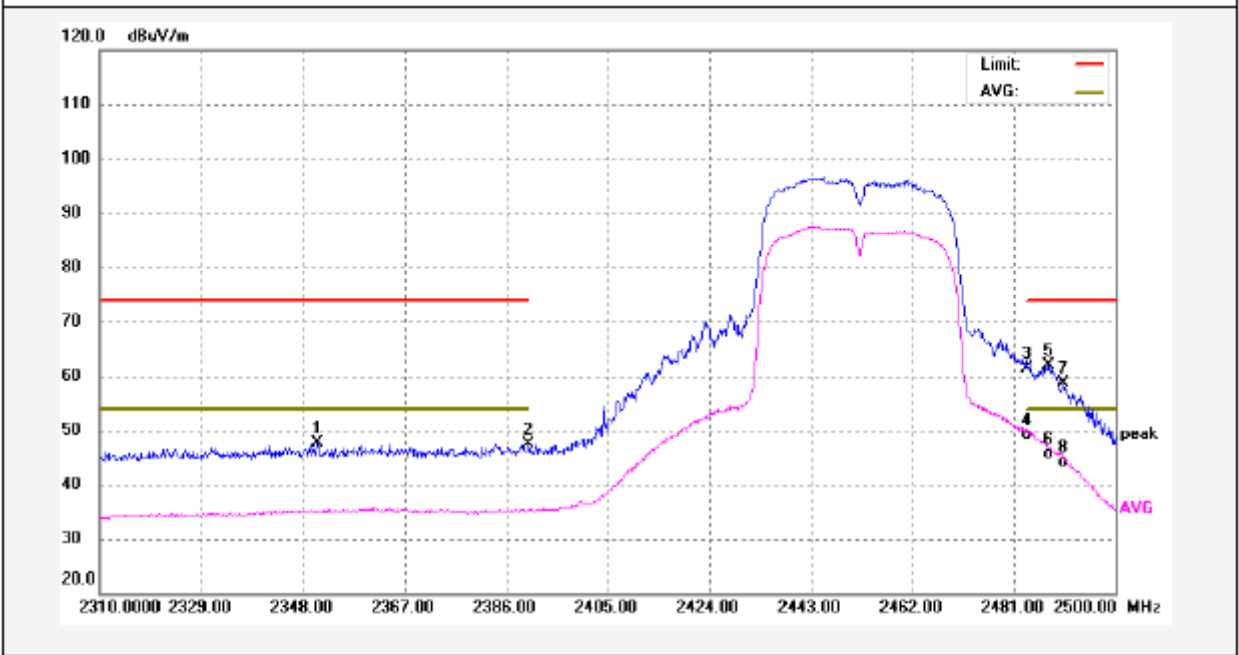
Antenna Polarization: Vertical



Antenna Polarization: Horizontal

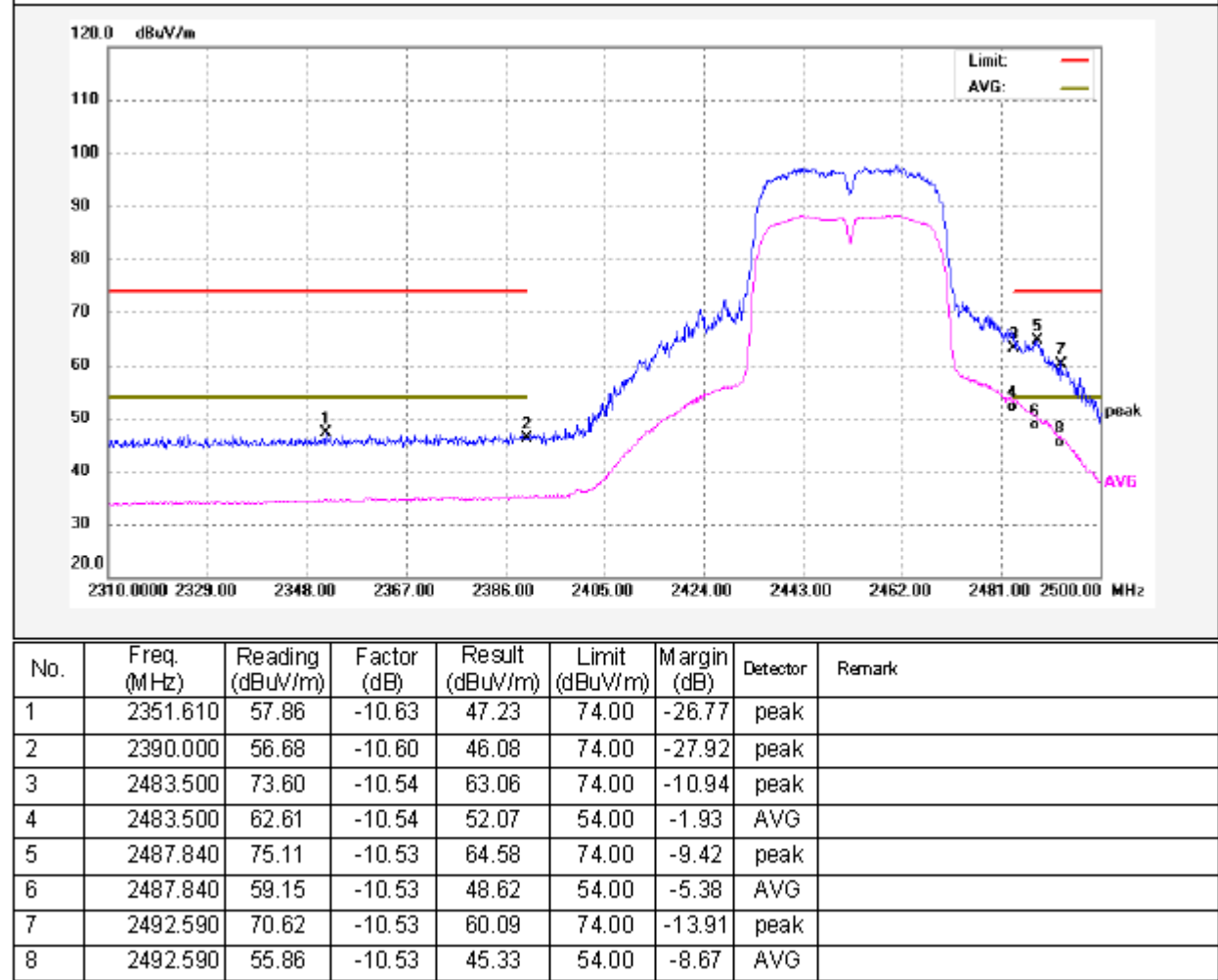


11n HT40: High
Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2350.660	58.15	-10.63	47.52	74.00	-26.48	peak	
2	2390.000	58.04	-10.60	47.44	74.00	-26.56	peak	
3	2483.500	71.97	-10.54	61.43	74.00	-12.57	peak	
4	2483.500	59.63	-10.54	49.09	54.00	-4.91	AVG	
5	2487.460	72.29	-10.53	61.76	74.00	-12.24	peak	
6	2487.460	56.27	-10.53	45.74	54.00	-8.26	AVG	
7	2490.310	69.22	-10.53	58.69	74.00	-15.31	peak	
8	2490.310	54.61	-10.53	44.08	54.00	-9.92	AVG	

Antenna Polarization: Horizontal



10 Conducted Spurious Emissions

Test Requirement: 47CFR FCC Part15 Subpart C §15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
ANSI C63.10-2020

Test Limit: Regulation 15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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)).

Test Mode: Transmitting

Test Result: PASS

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:

Below 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

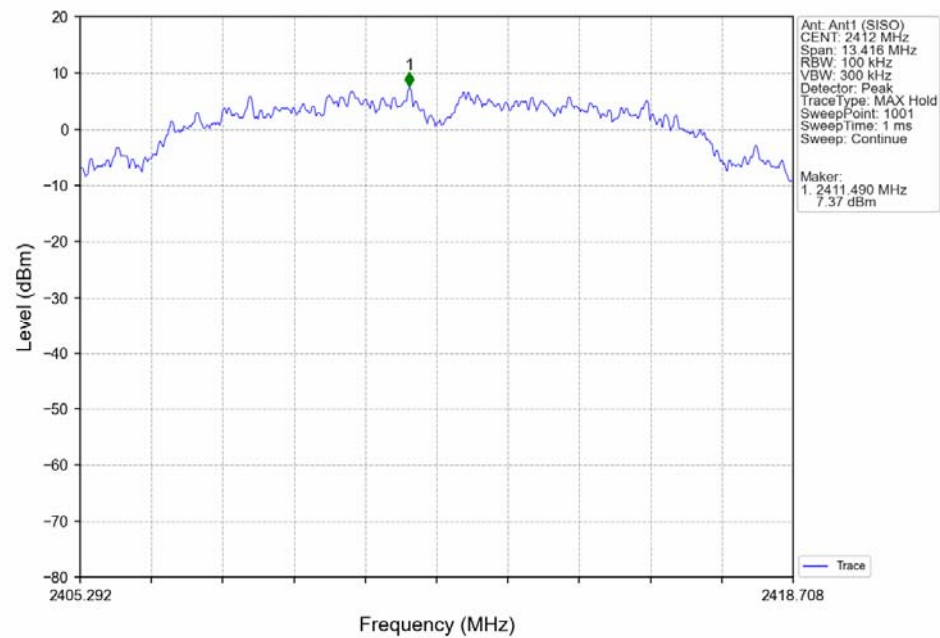
Above 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

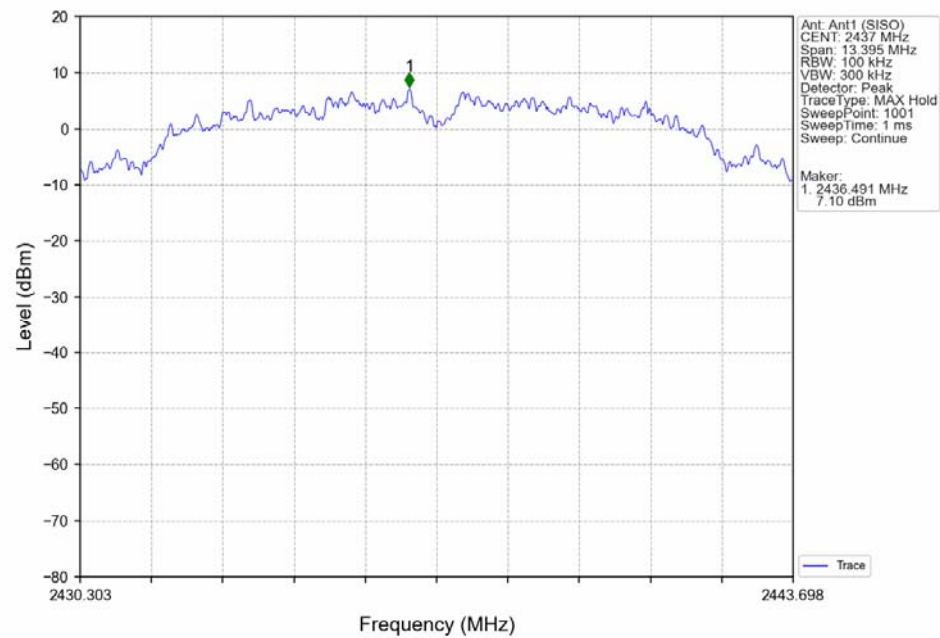
Detector function = peak, Trace = max hold

10.2 Test Result

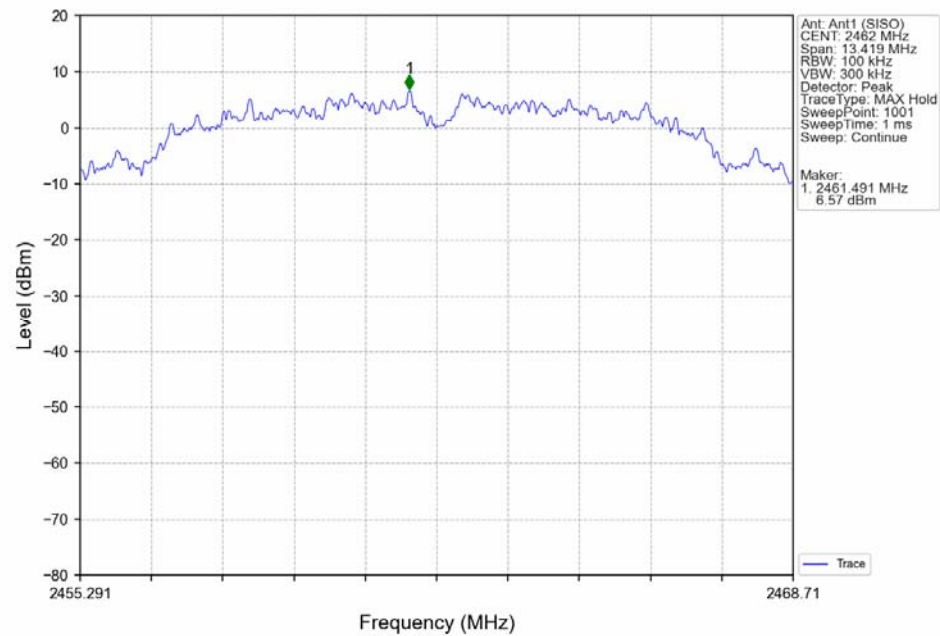
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



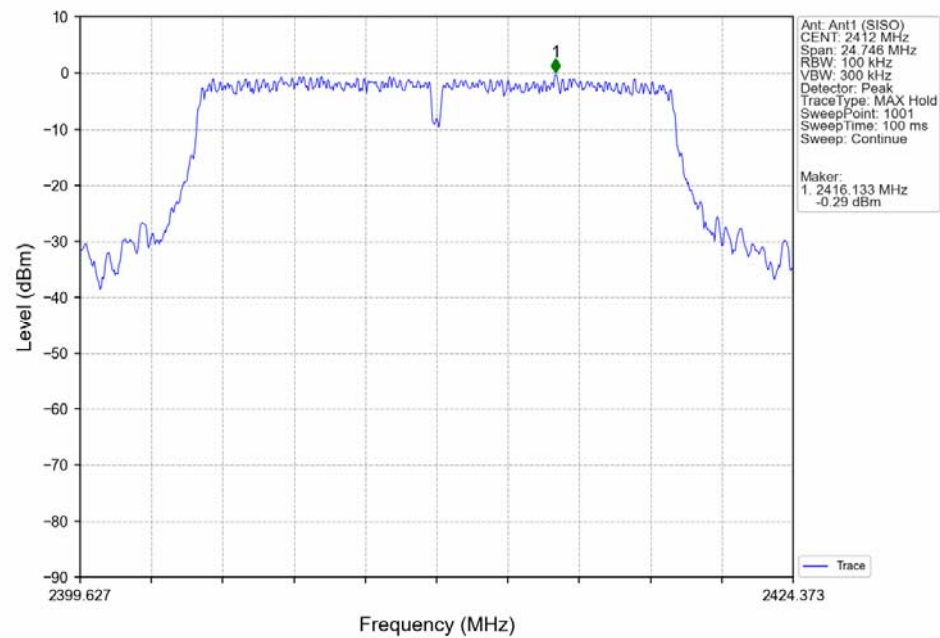
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



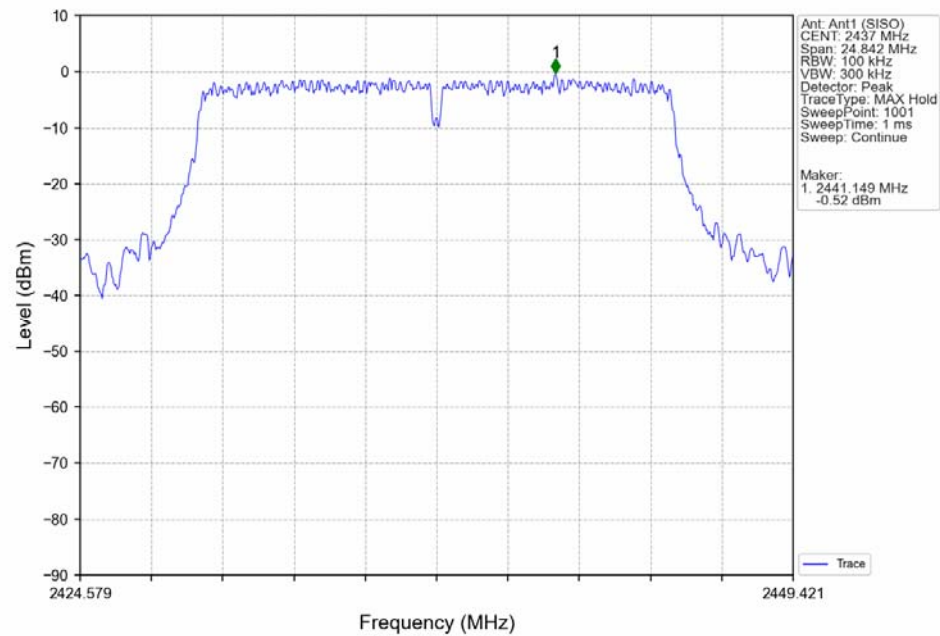
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



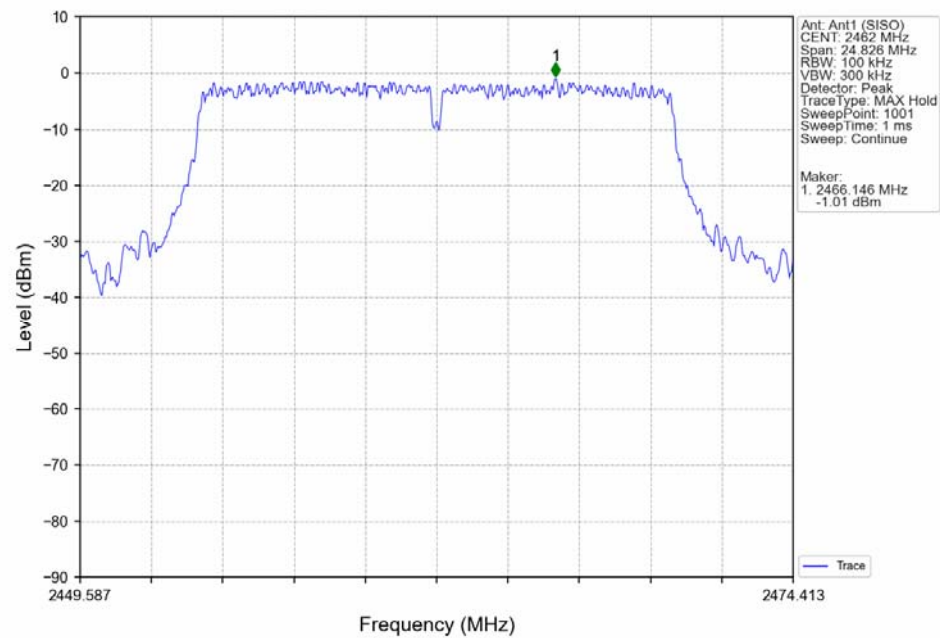
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



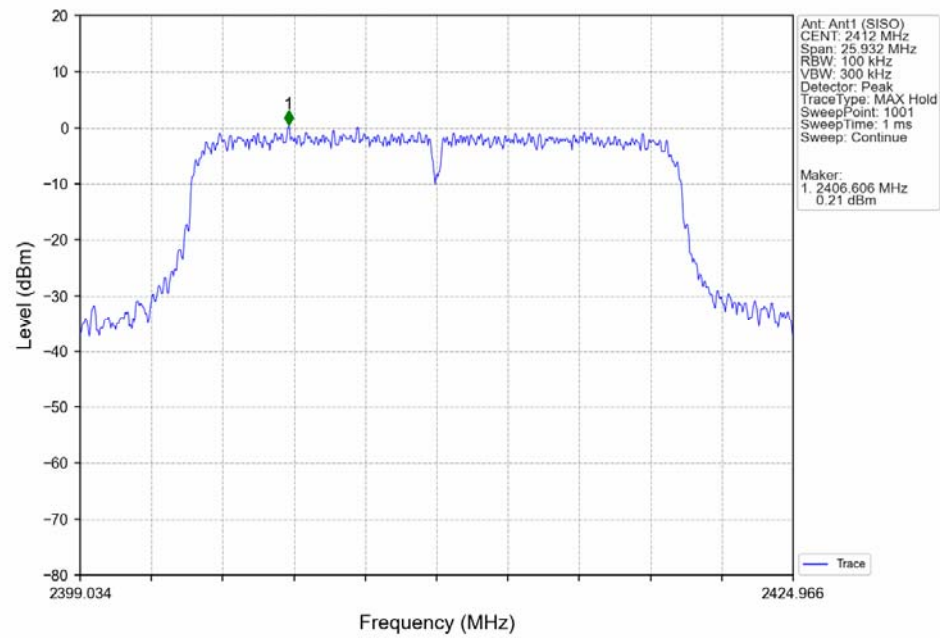
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



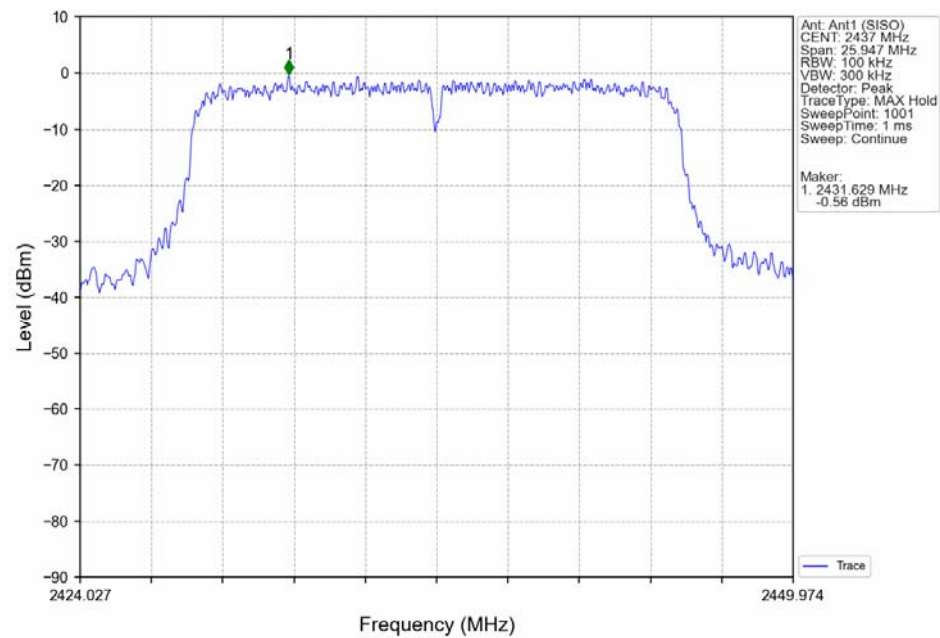
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



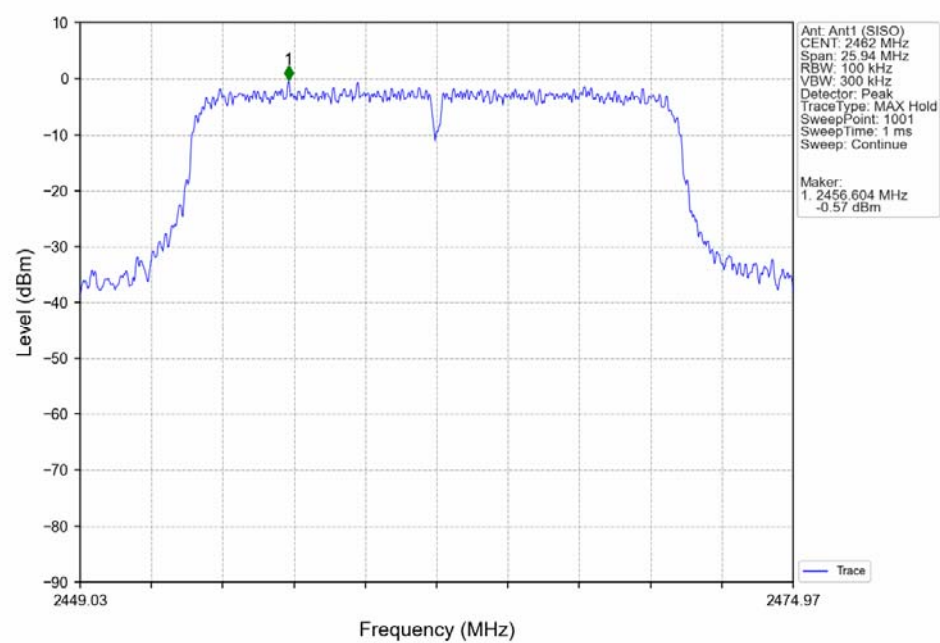
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



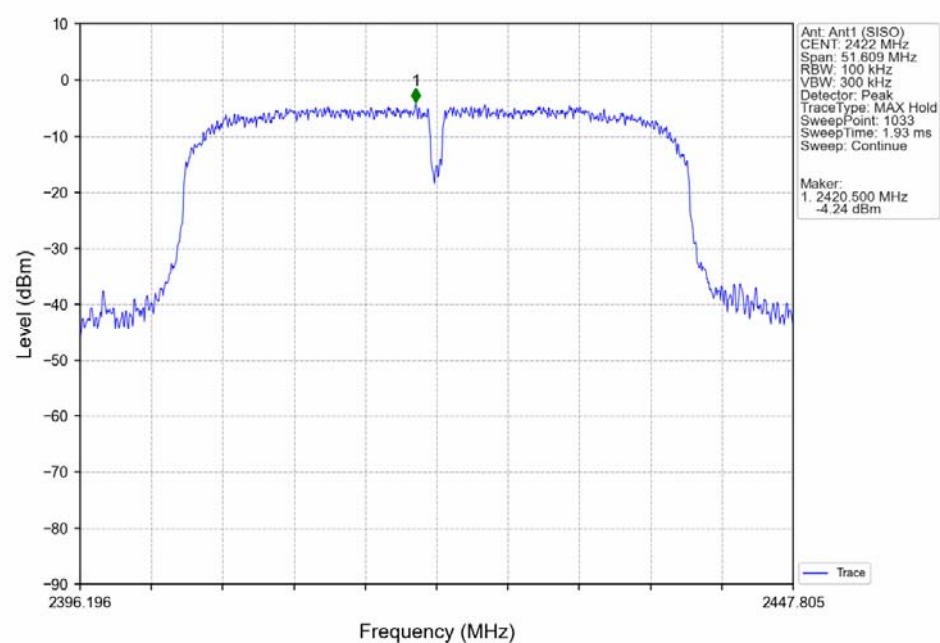
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



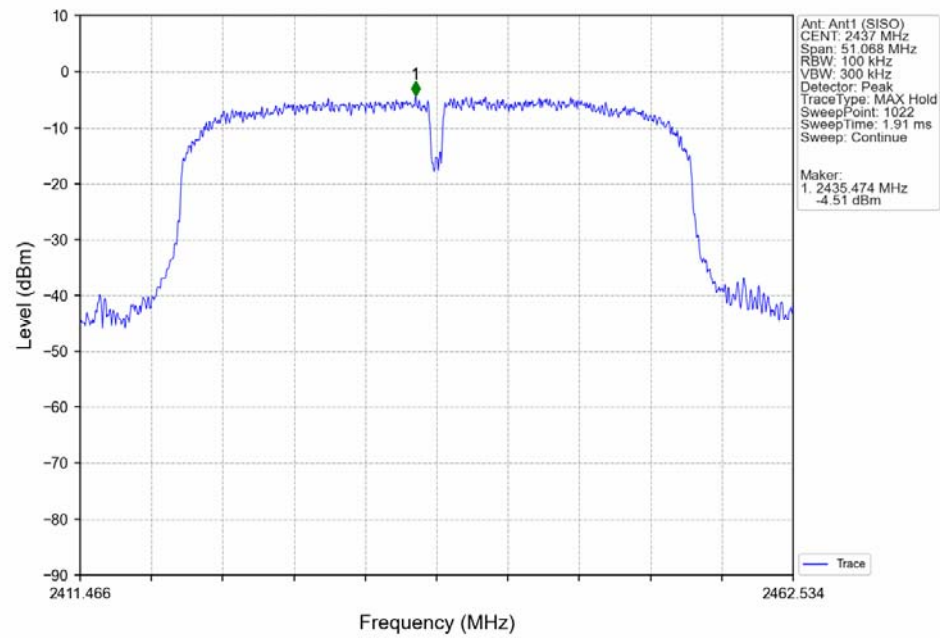
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



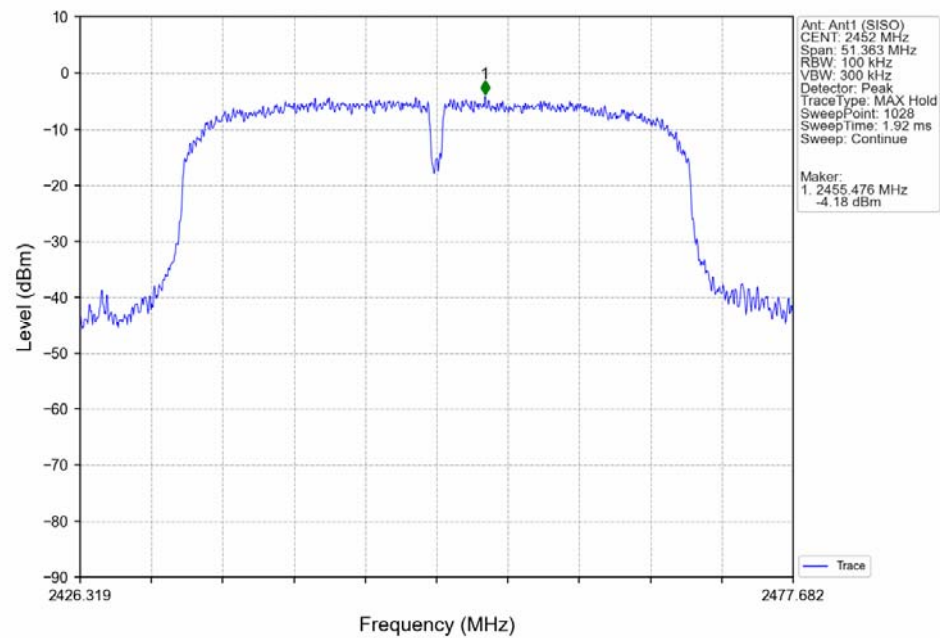
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



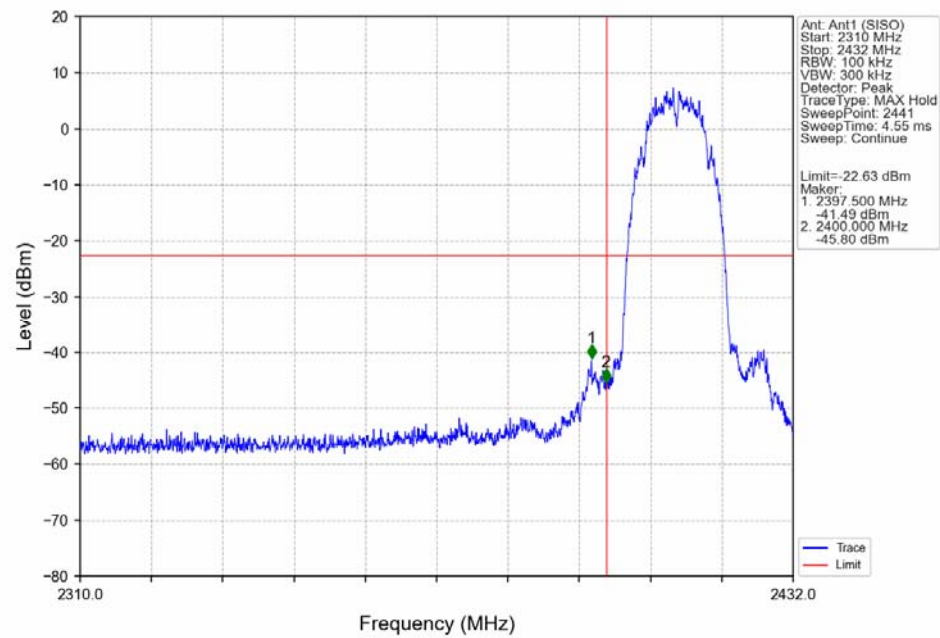
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



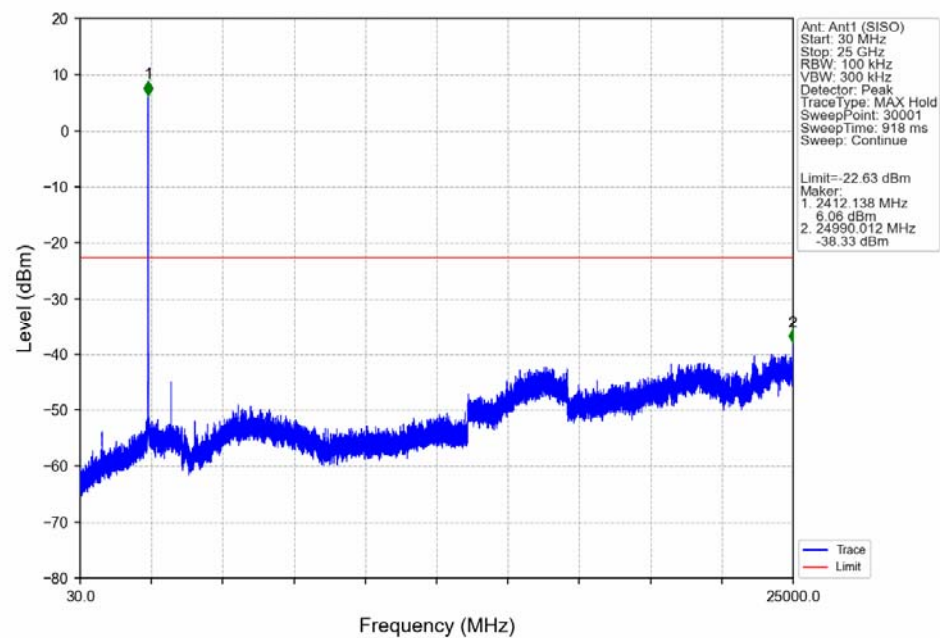
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



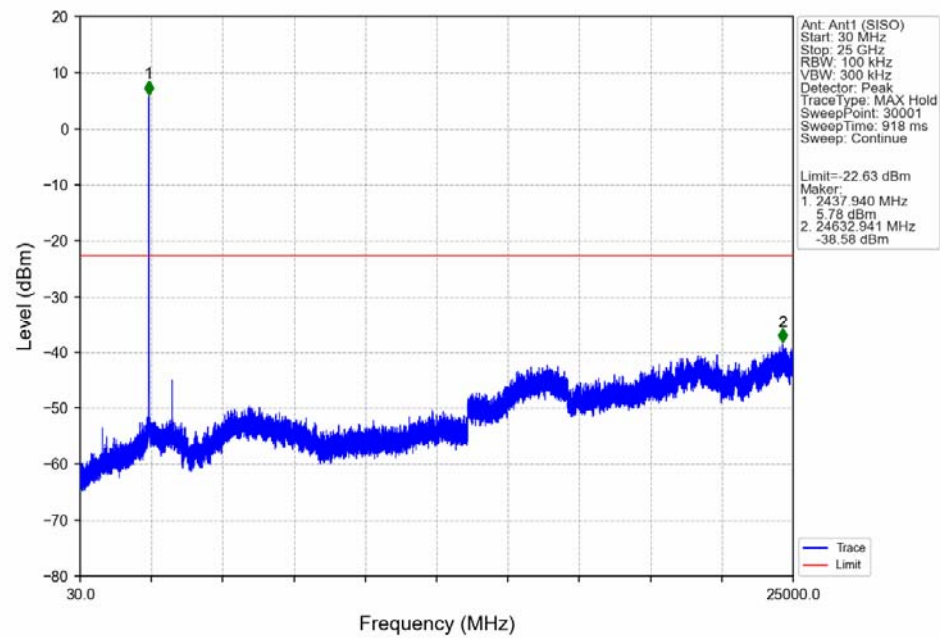
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



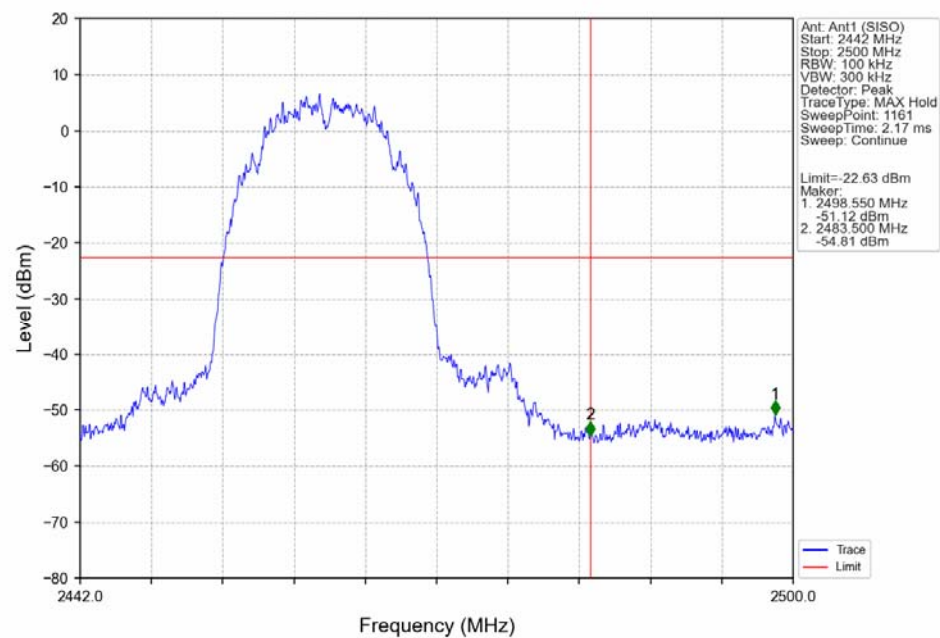
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



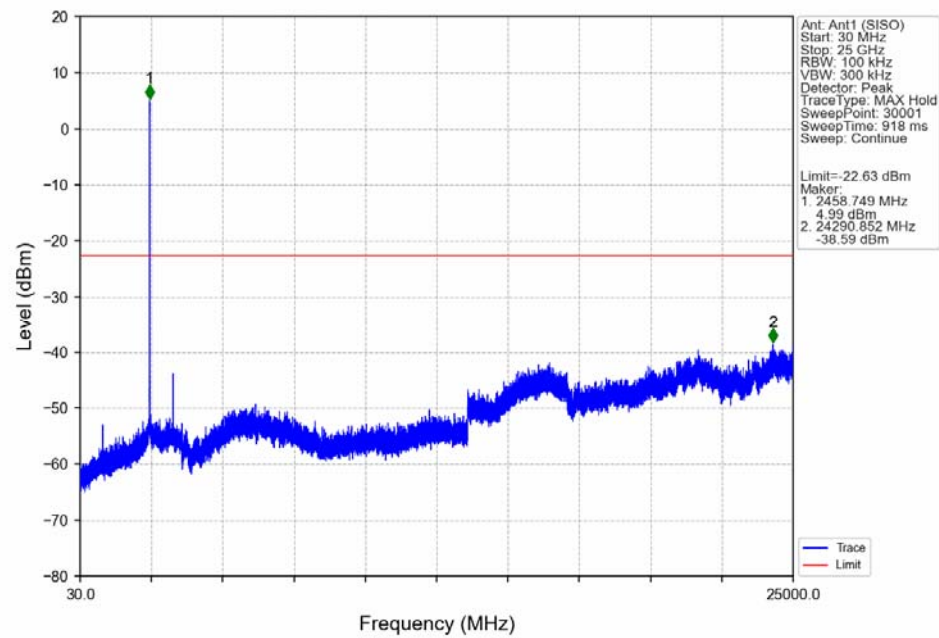
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



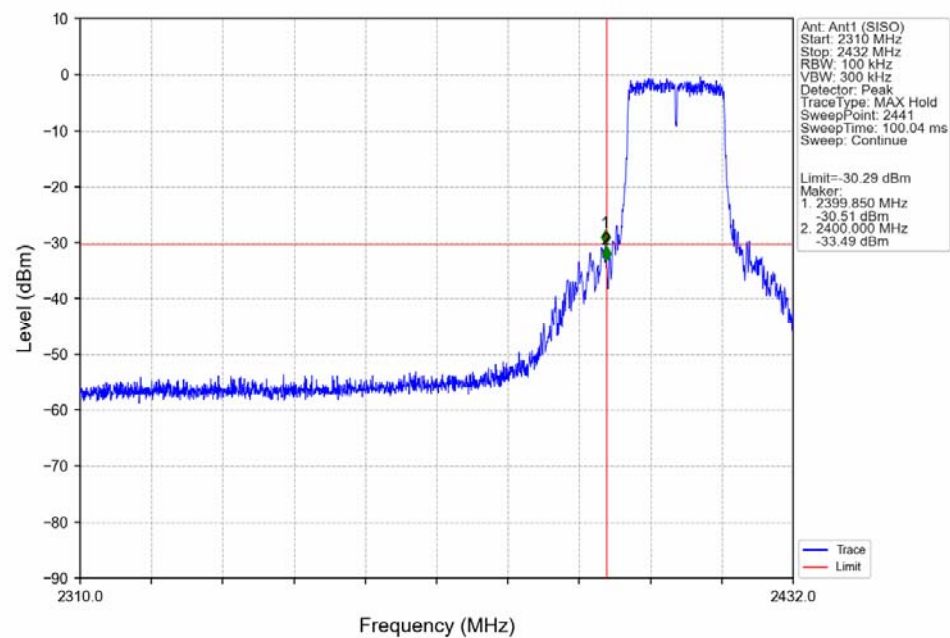
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



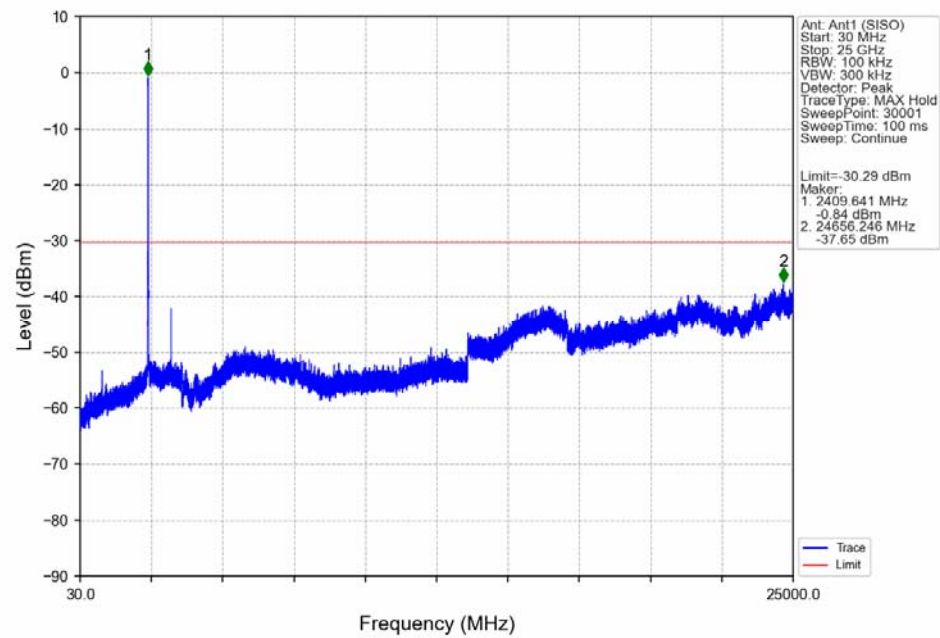
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



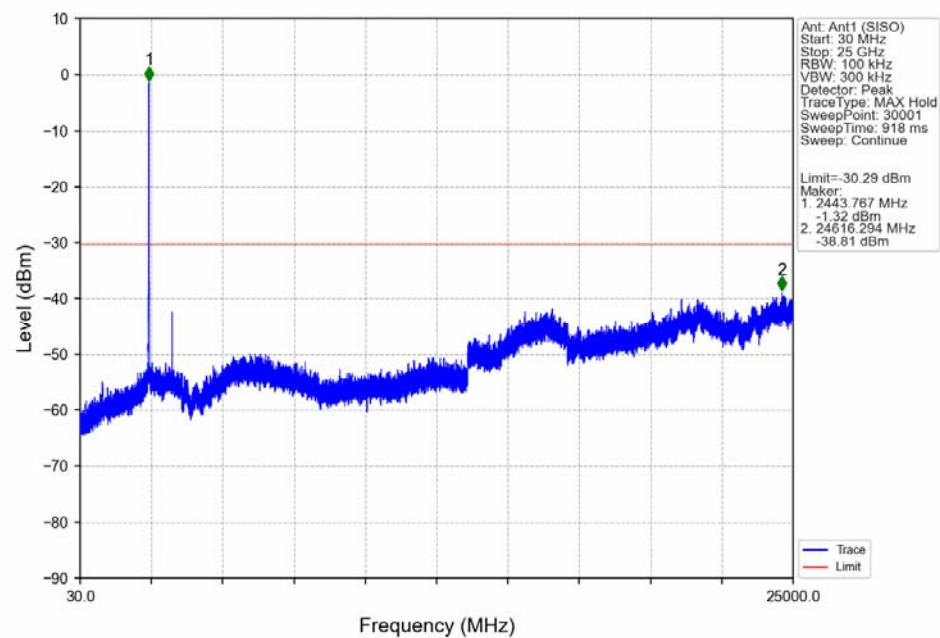
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



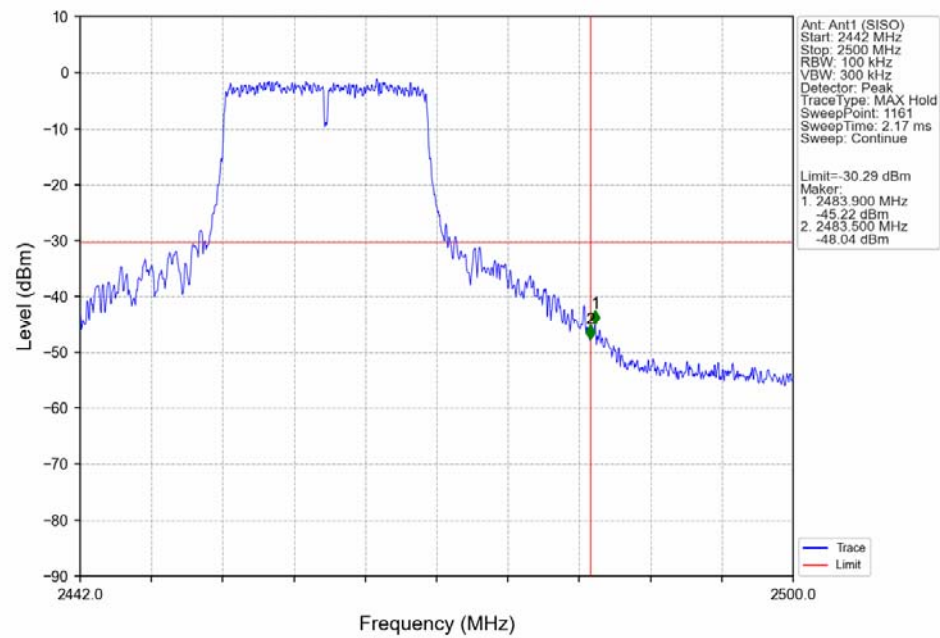
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



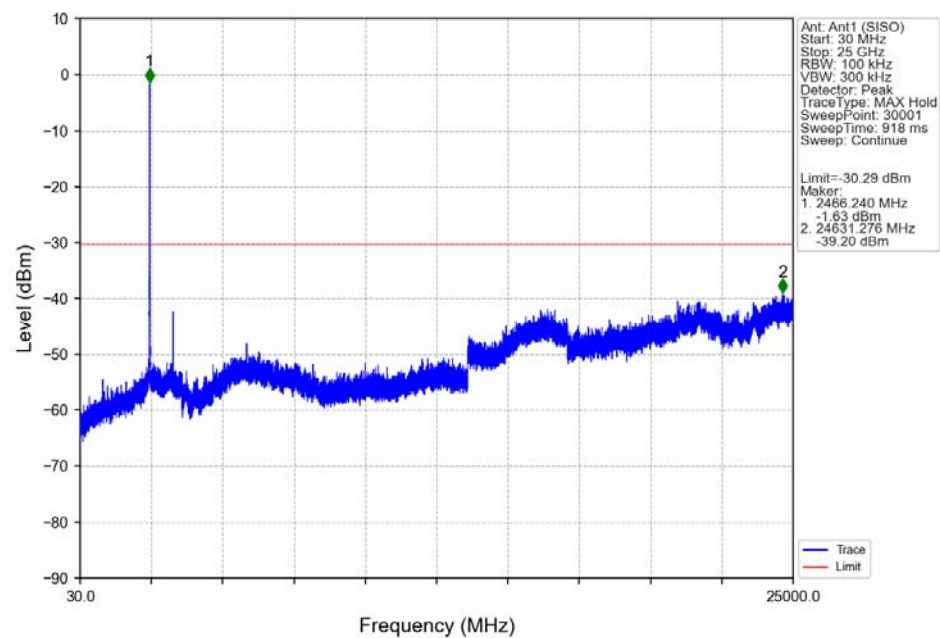
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



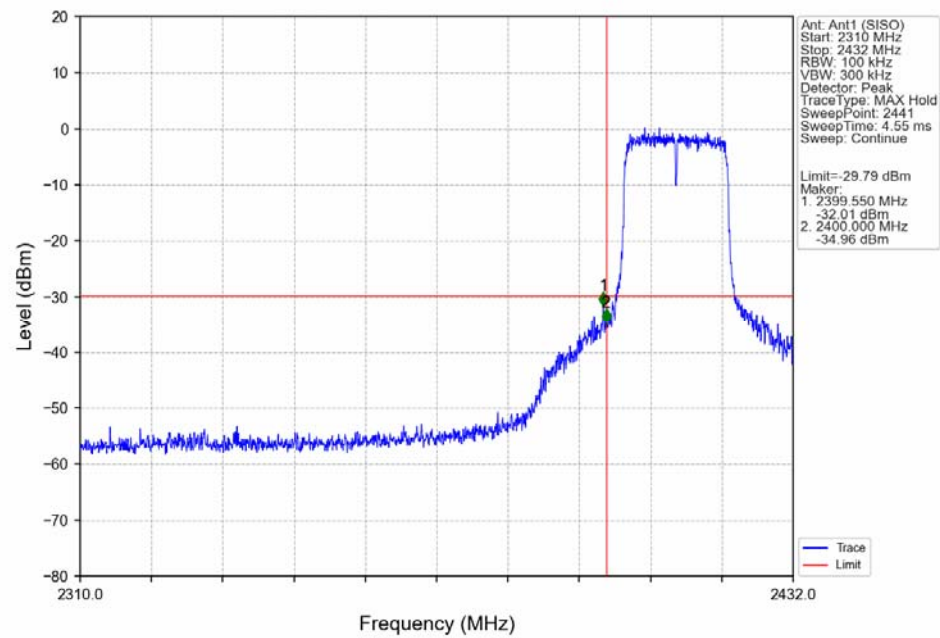
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



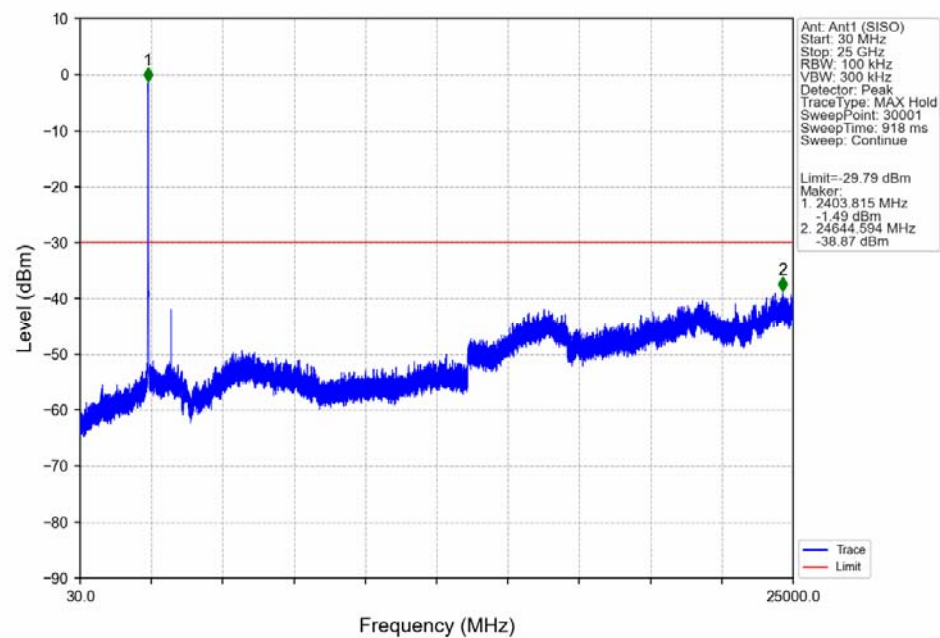
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



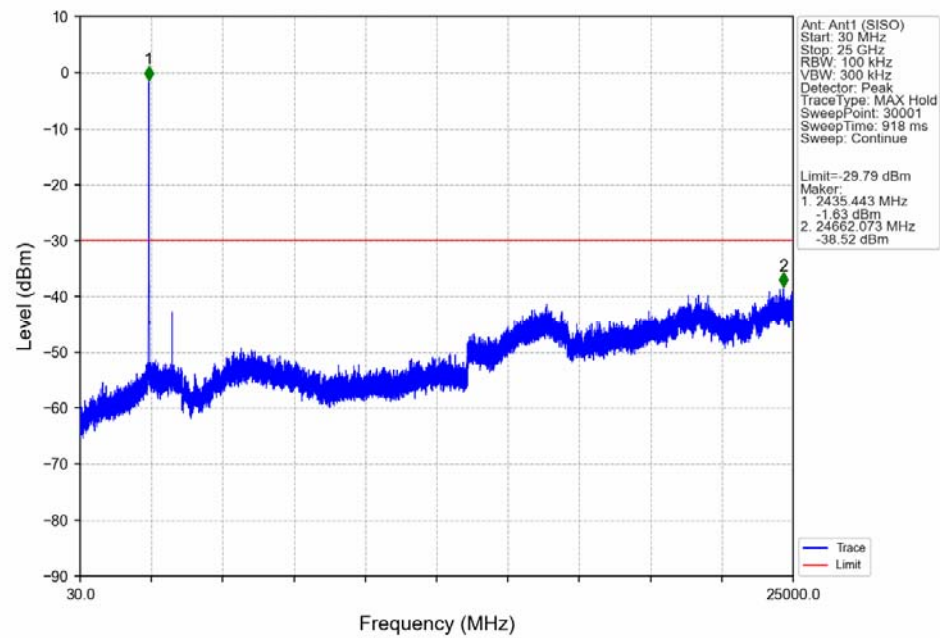
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



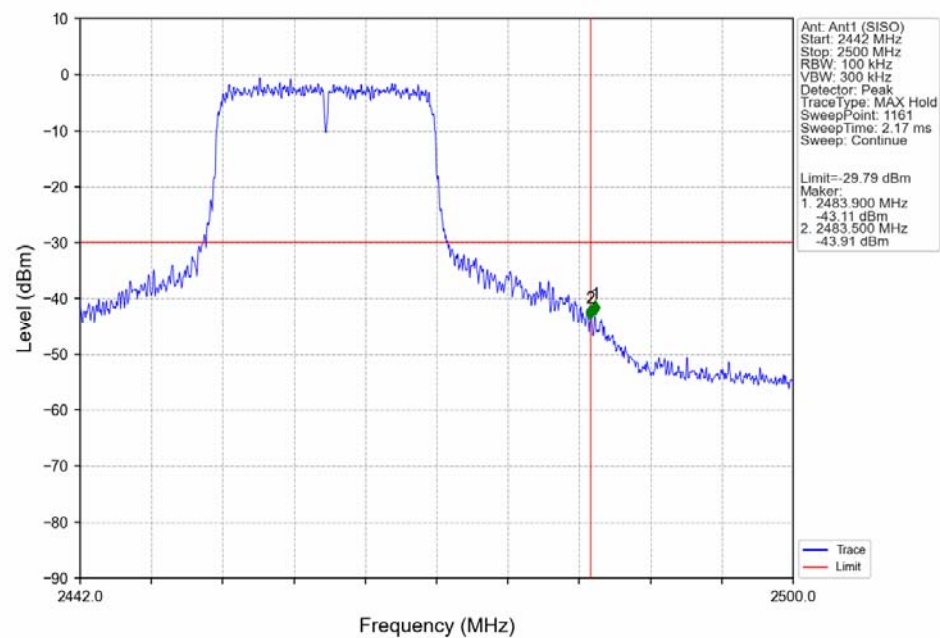
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



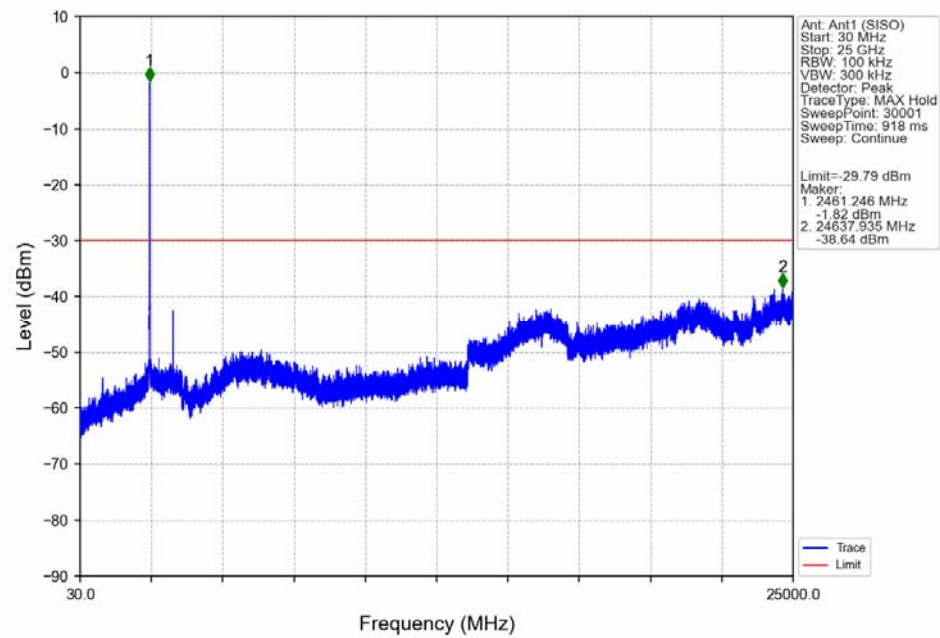
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



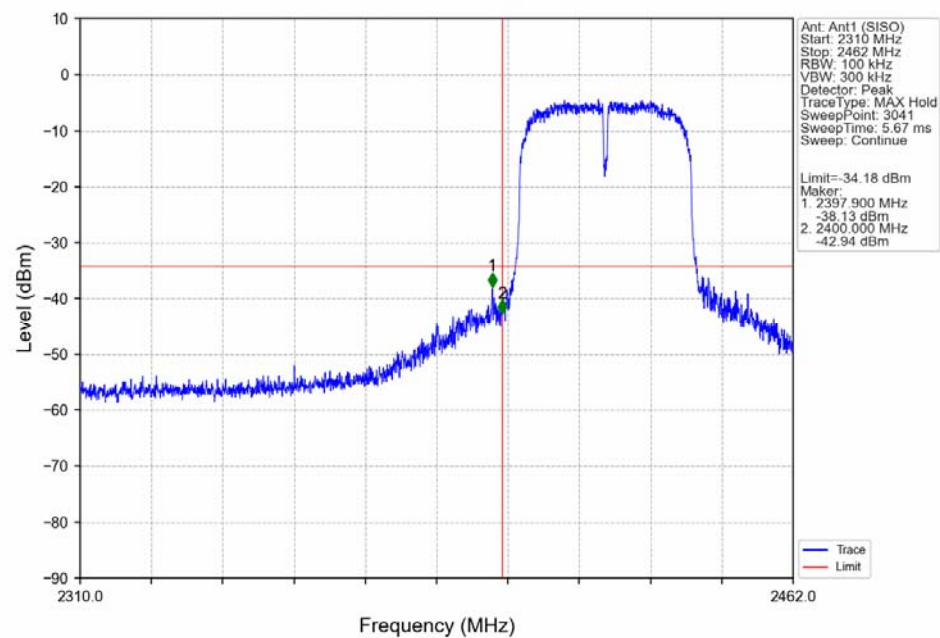
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



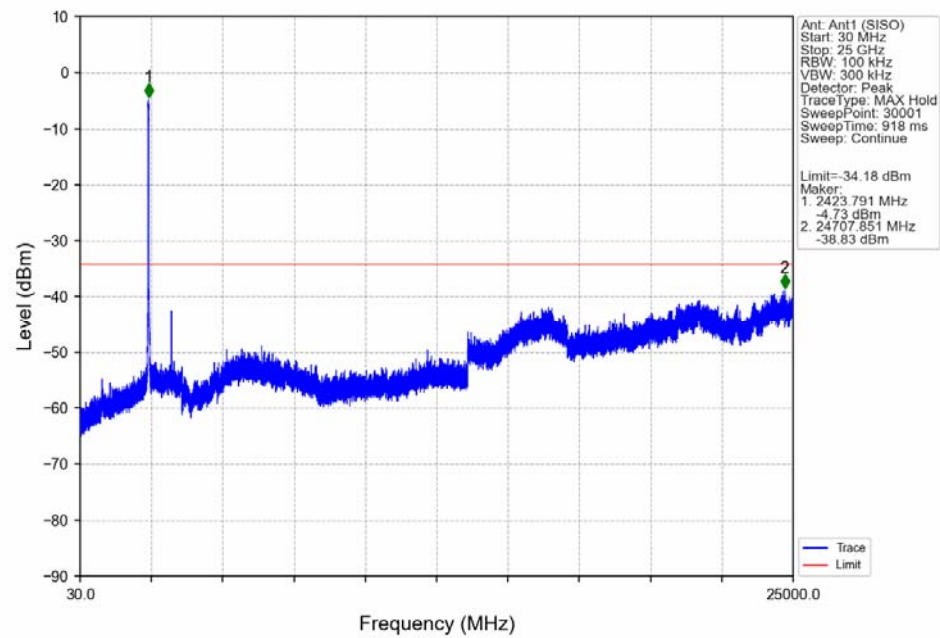
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



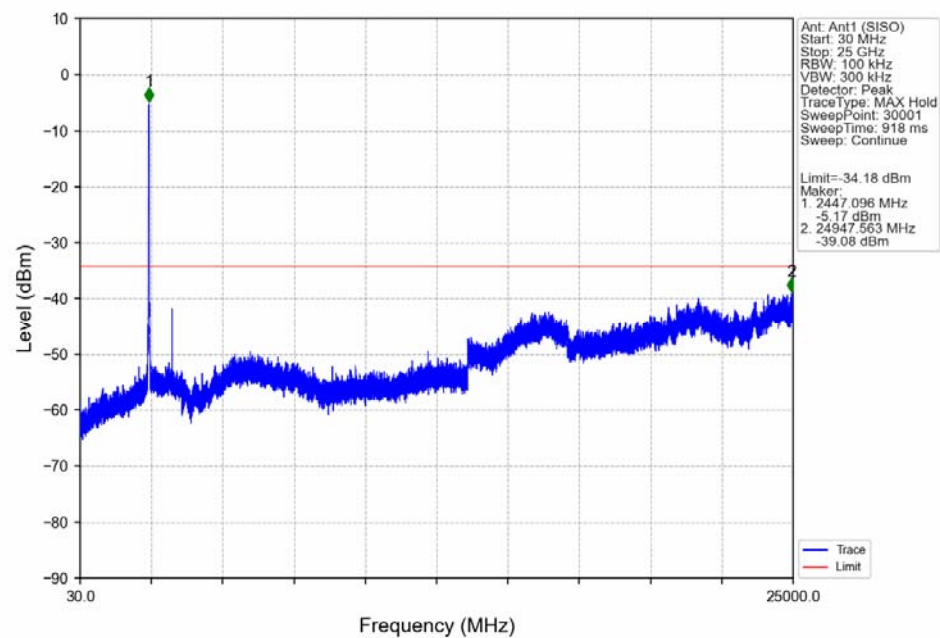
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



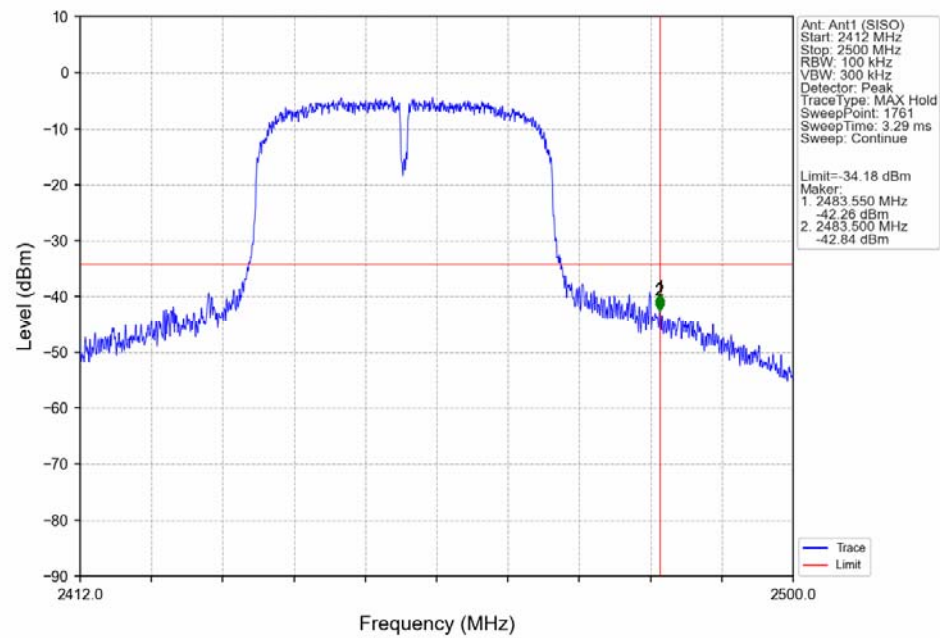
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



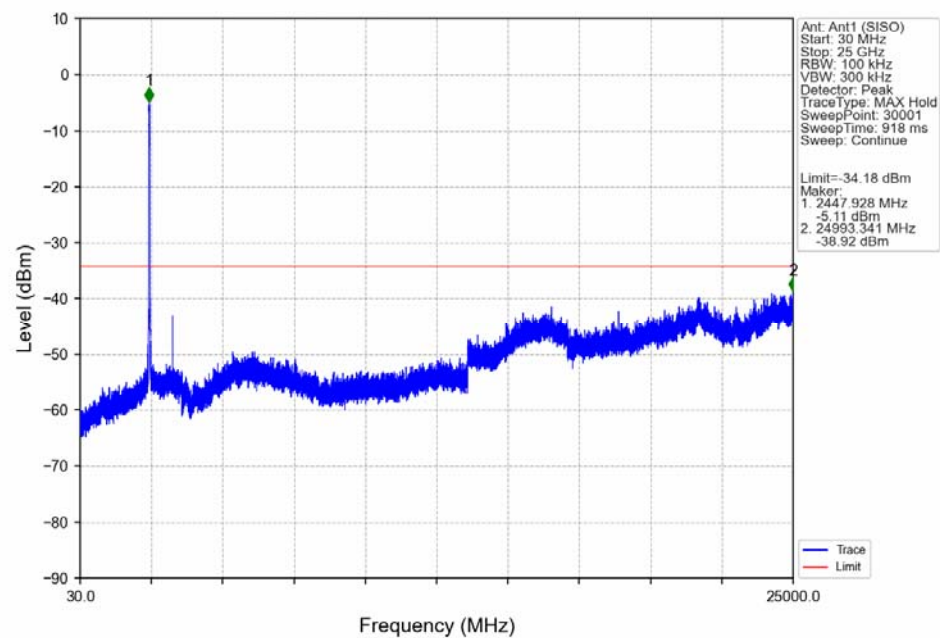
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



11 Band Edge Measurement

Test Requirement: 47CFR FCC Part15 Subpart C §15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Regulation 15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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)).

Test Mode: Transmitting

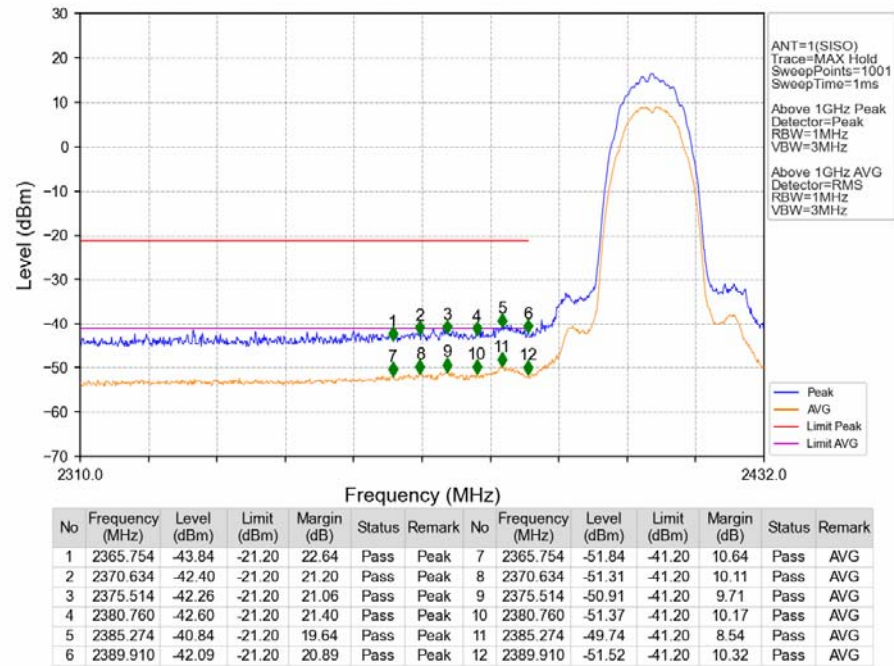
11.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

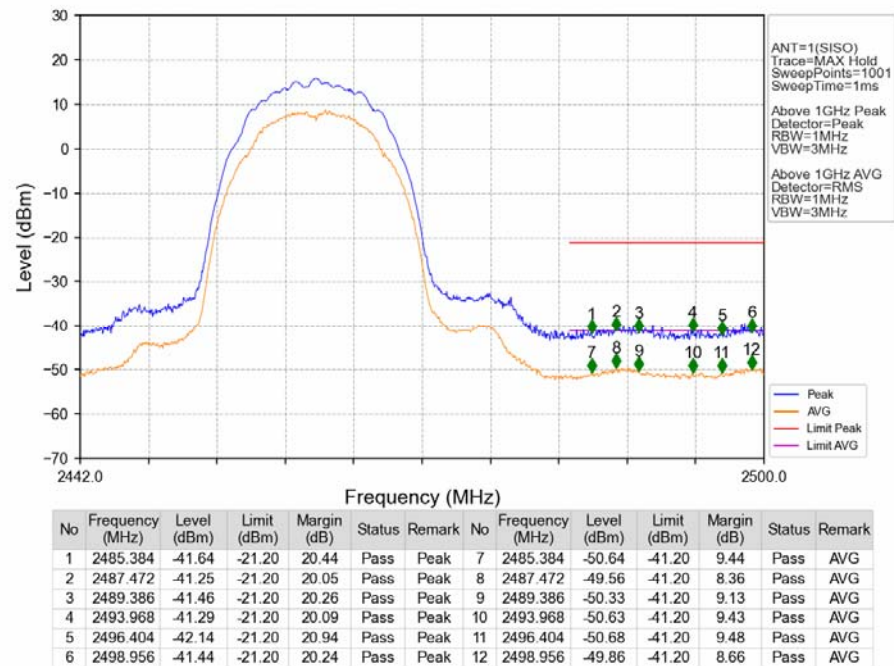
11.2 Test Result

Test result plots shown as follows:

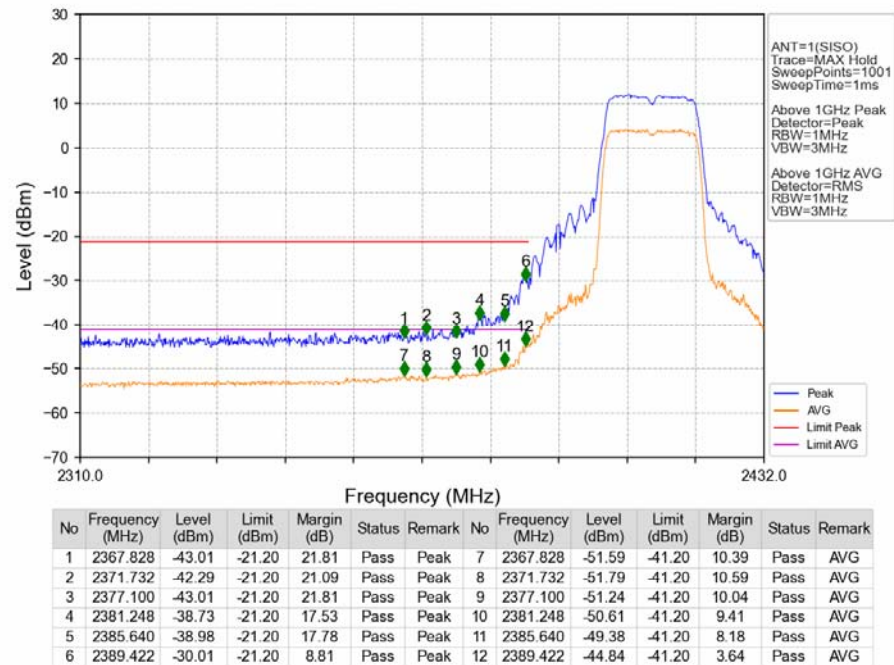
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



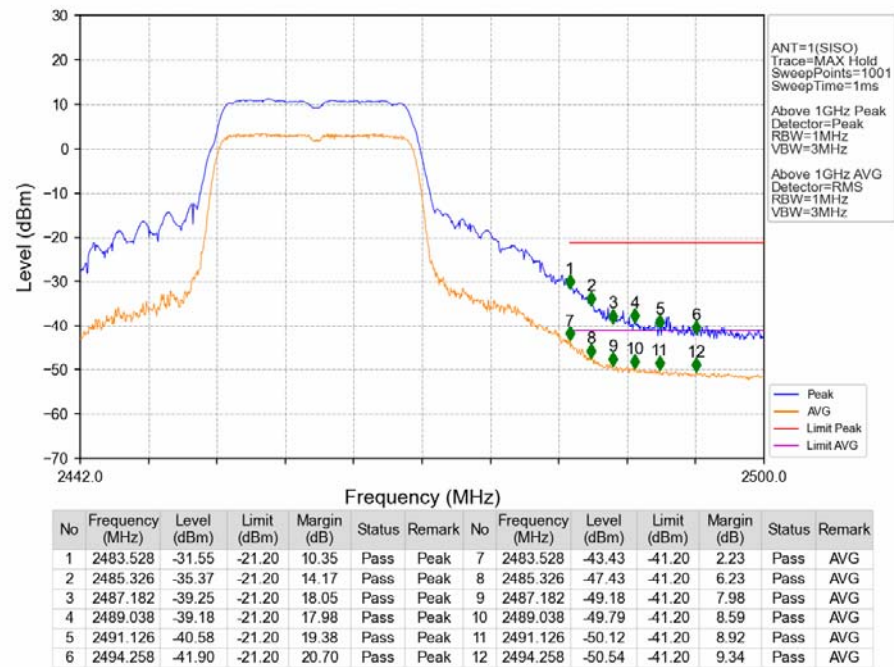
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



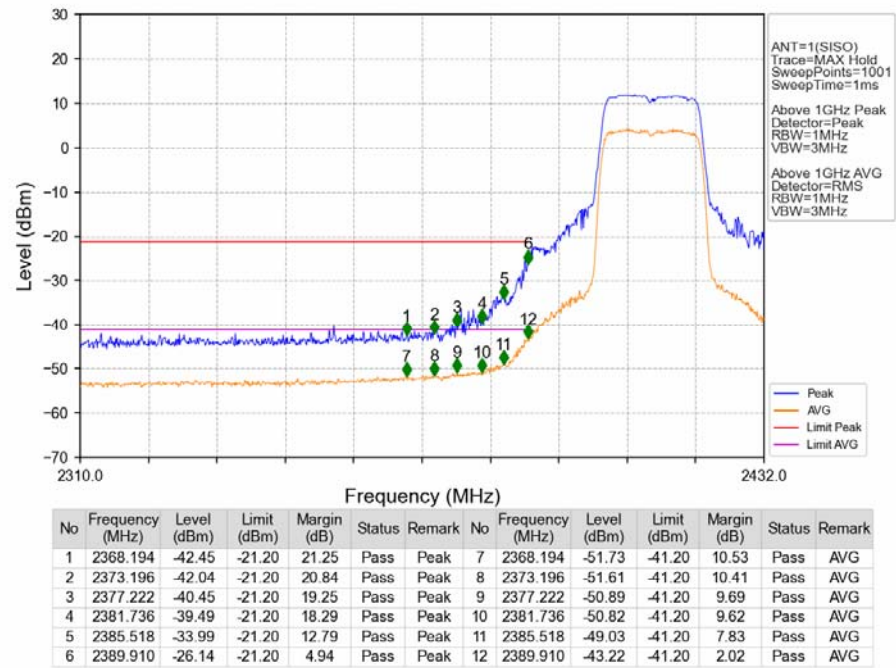
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



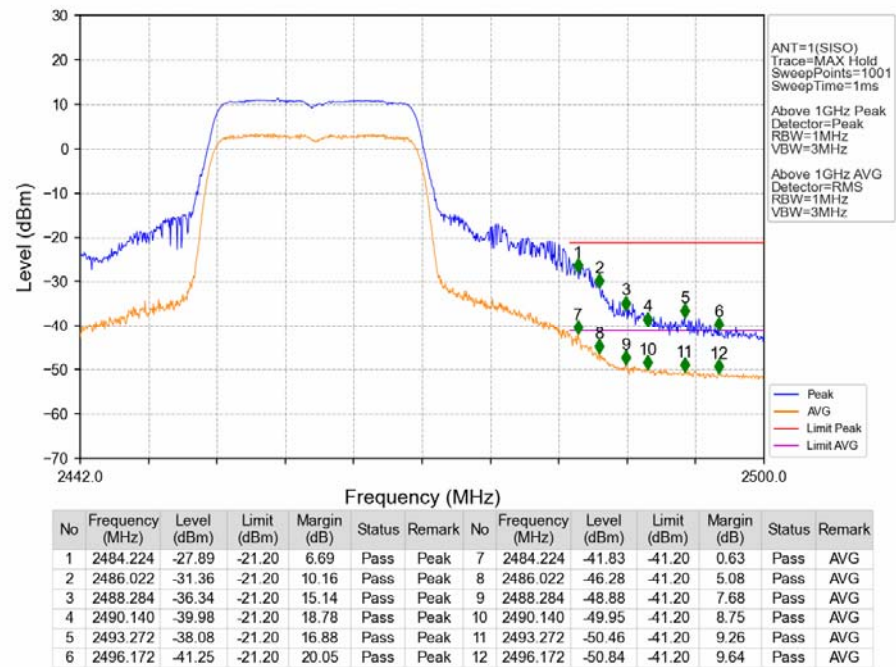
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



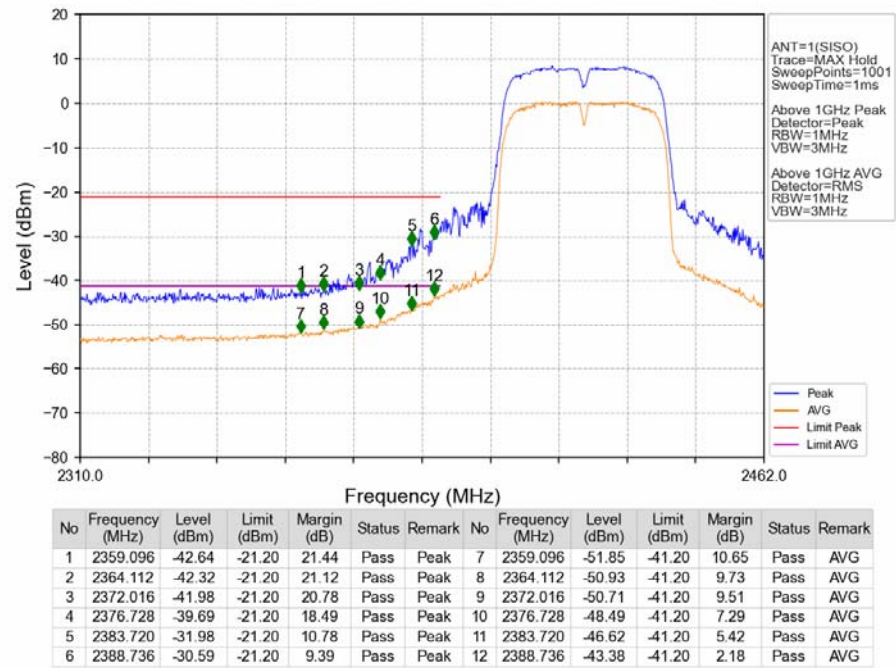
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



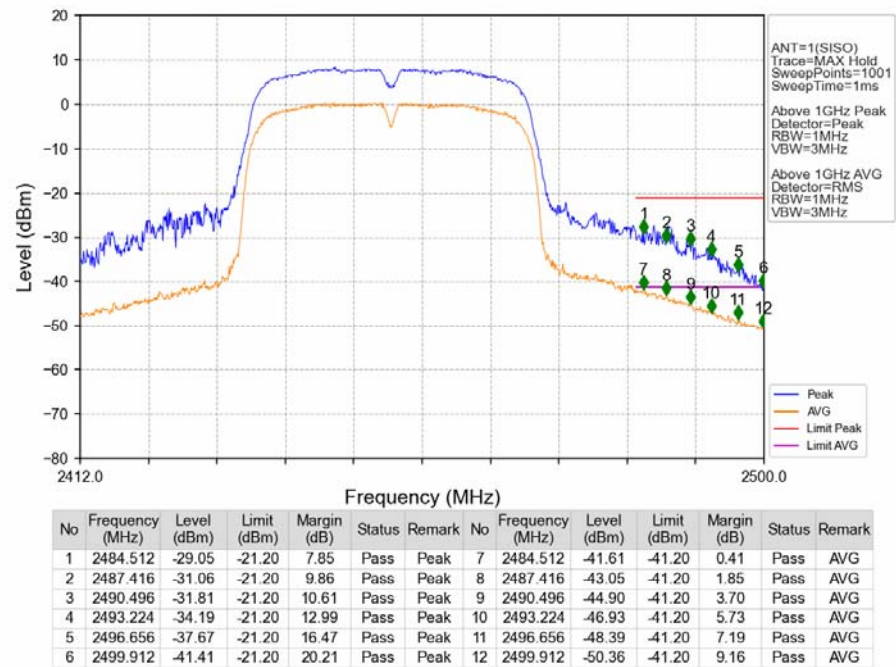
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



12 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: 47CFR FCC Part15 Subpart C §15.247
 Test Method: ANSI C63.10-2020
 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
 Test Limit: §15.247(a)(2)
 Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
 Test Mode: Transmitting

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. 6dB Bandwidth Set the spectrum analyzer: 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW.
3. 99% Occupied Bandwidth Set the spectrum analyzer: 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW.

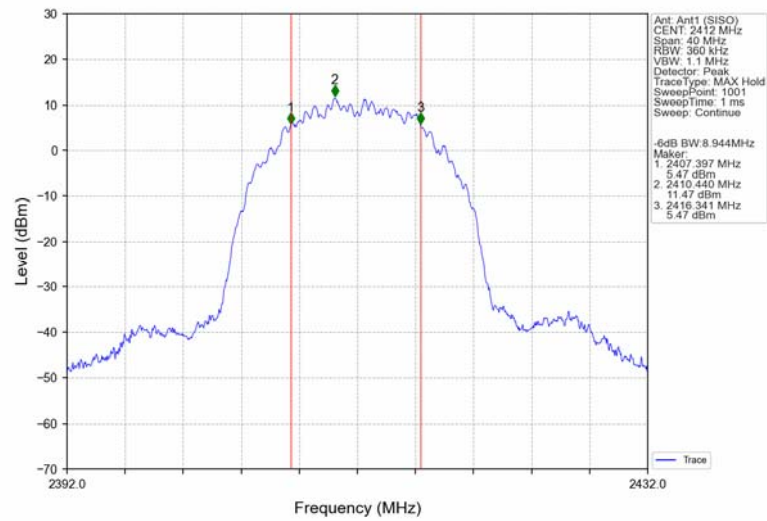
12.2 Test Result

Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
TX 11b	Channel 1	8.944	13.110
	Channel 6	8.930	13.041
	Channel 11	8.946	13.131
TX 11g	Channel 1	16.497	16.958
	Channel 6	16.561	16.909
	Channel 11	16.551	16.971
TX 11n HT20	Channel 1	17.288	17.636
	Channel 6	17.298	17.594
	Channel 11	17.293	17.624
TX 11n HT40	Channel 3	34.406	35.006
	Channel 6	34.045	34.895
	Channel 9	34.242	34.889

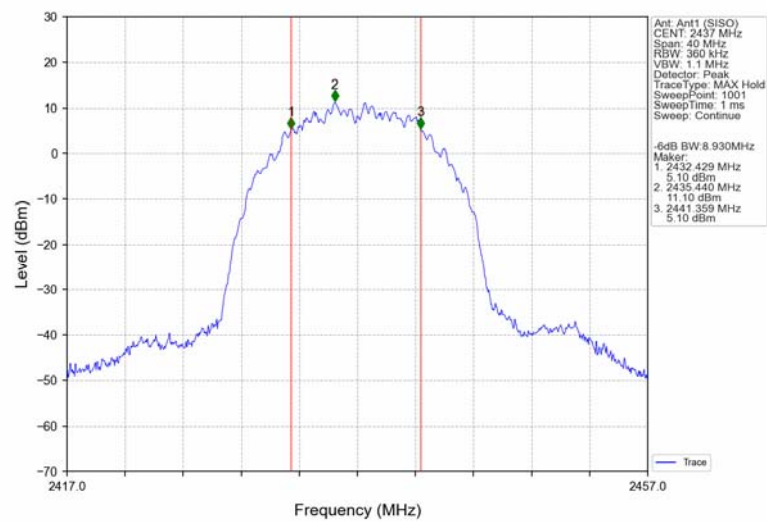
Test result plot:

6 dB Bandwidth

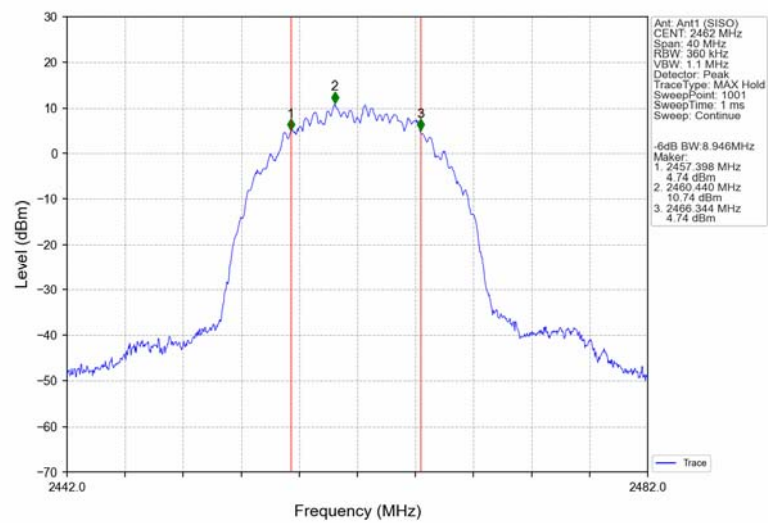
Mode: TX 11b channel 1



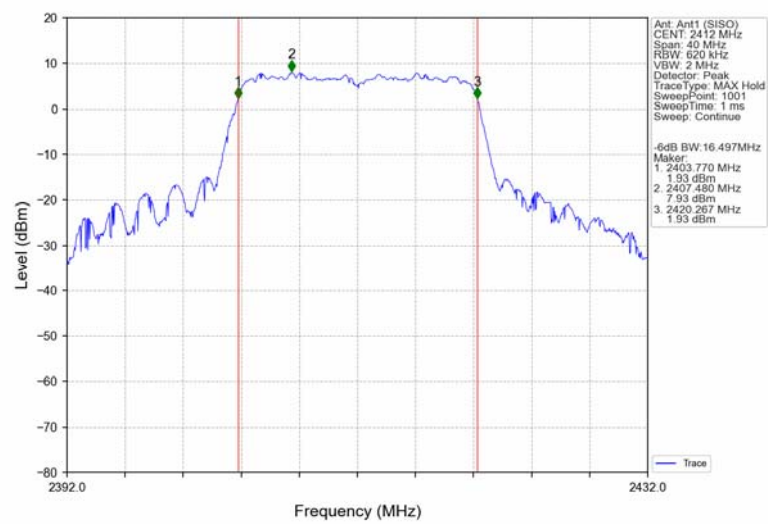
Mode: TX 11b channel 6



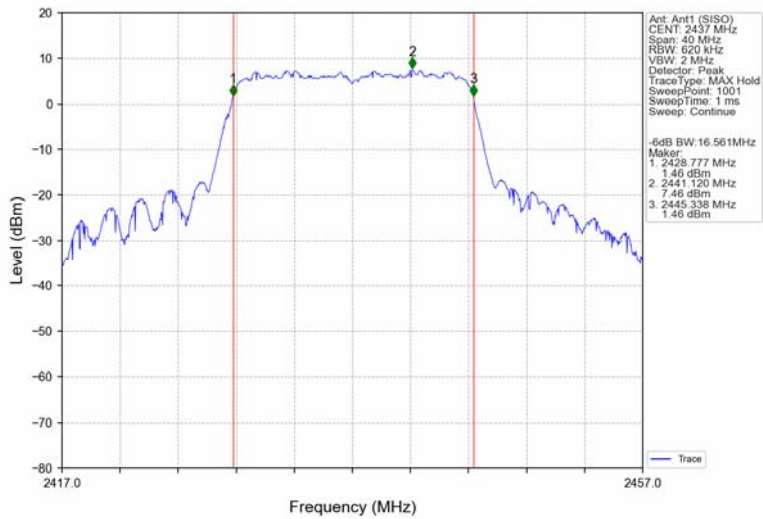
Mode: TX 11b channel 11



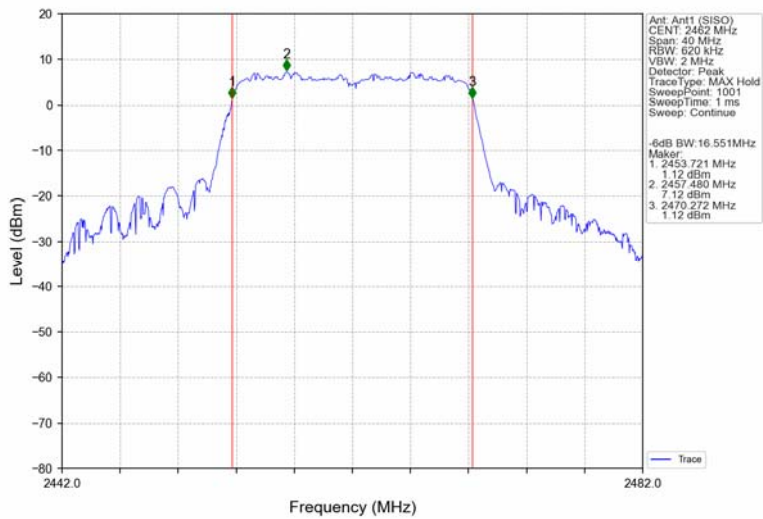
Mode: TX 11g channel 1



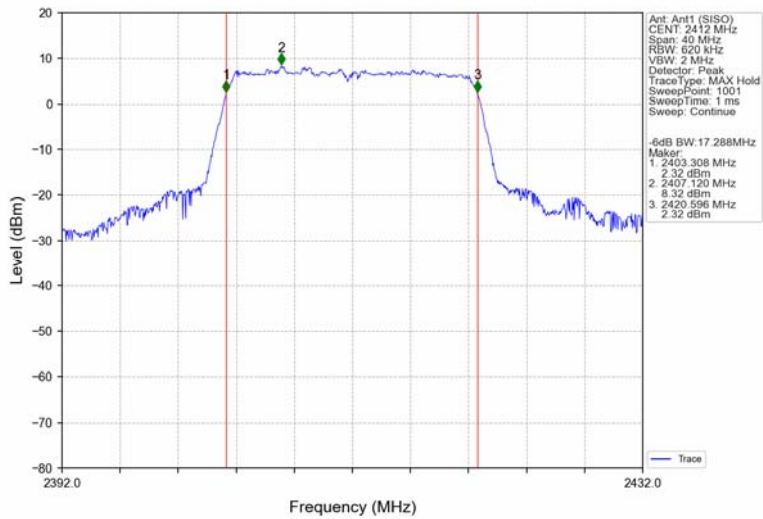
Mode: TX 11g channel 6



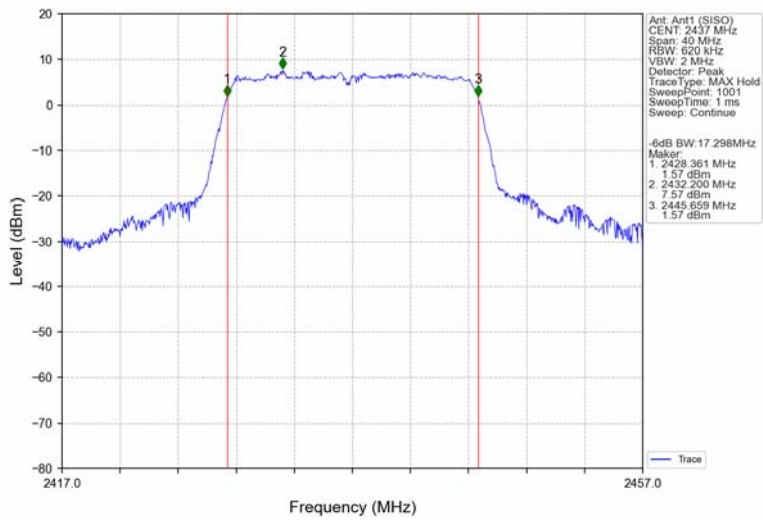
Mode: TX 11g channel 11



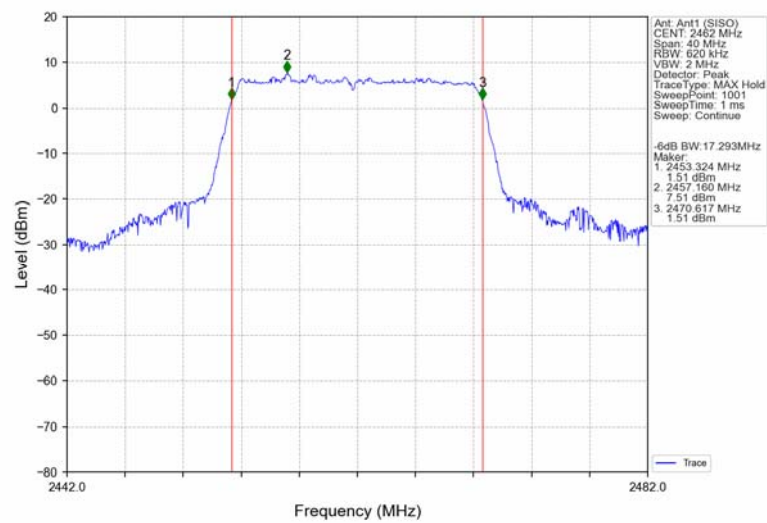
Mode: TX 11n HT20 channel 1



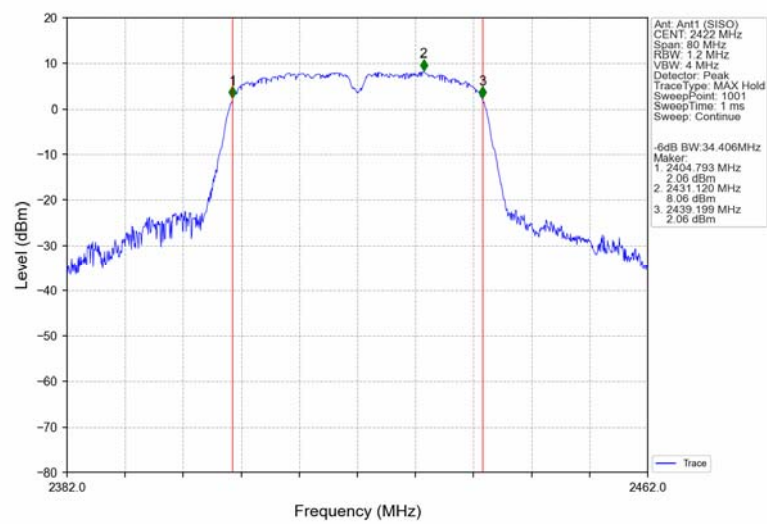
Mode: TX 11n HT20 channel 6



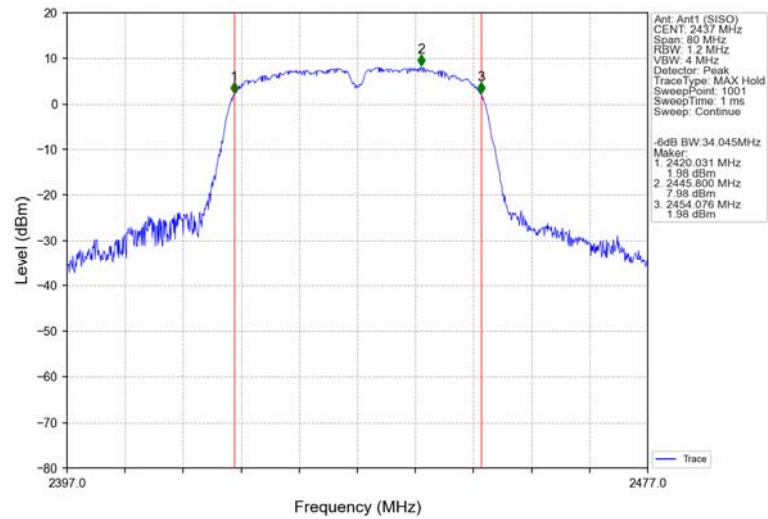
Mode: TX 11n HT20 channel 11



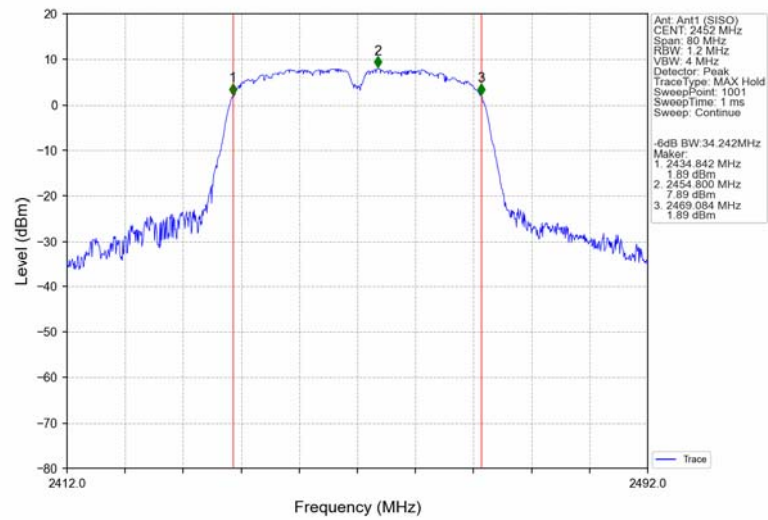
Mode: TX 11n HT40 channel 3



Mode: TX 11n HT40 channel 6

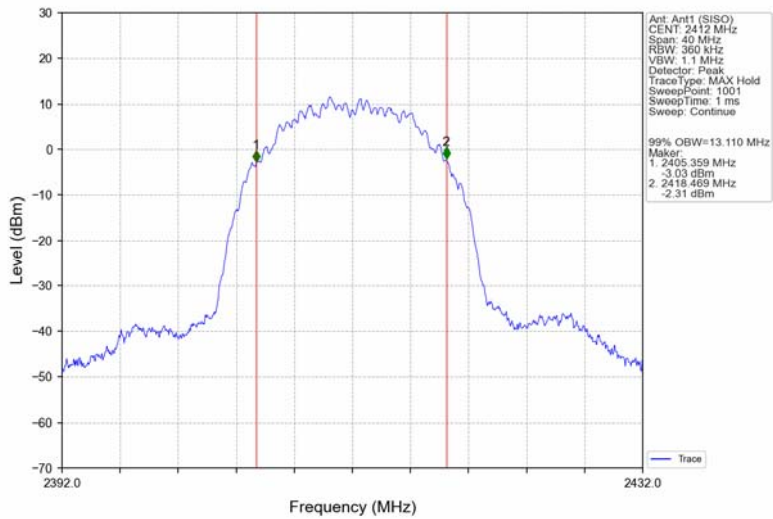


Mode: TX 11n HT40 channel 9

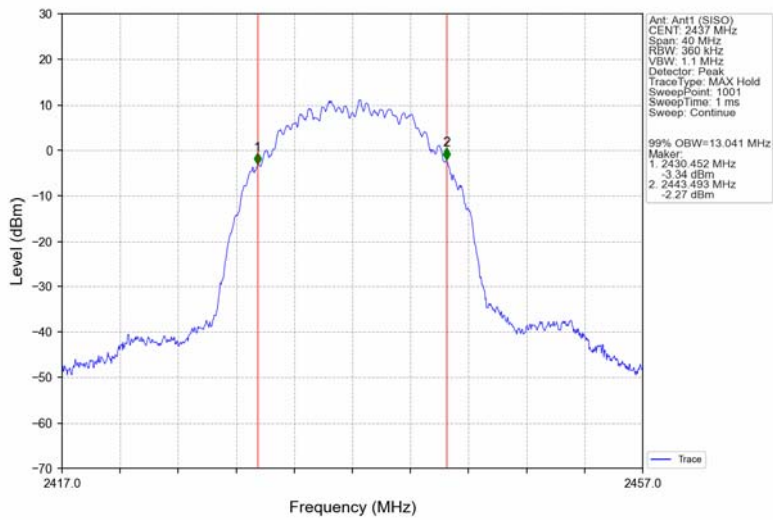


99% Bandwidth

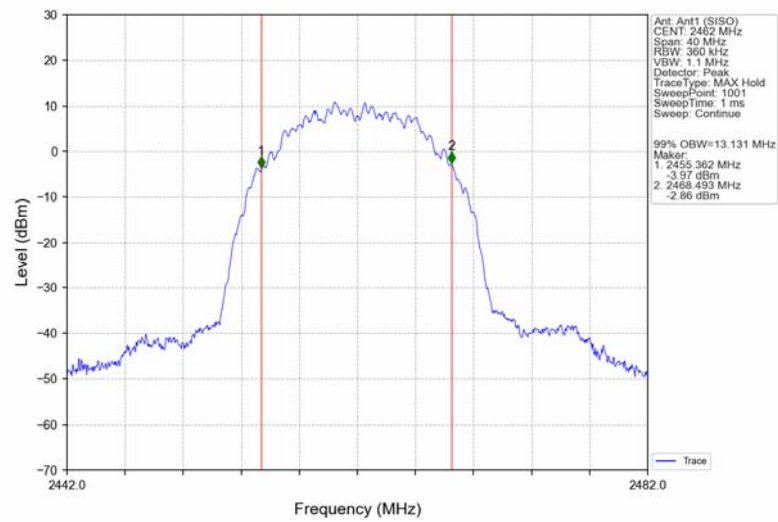
Mode: TX 11b channel 1



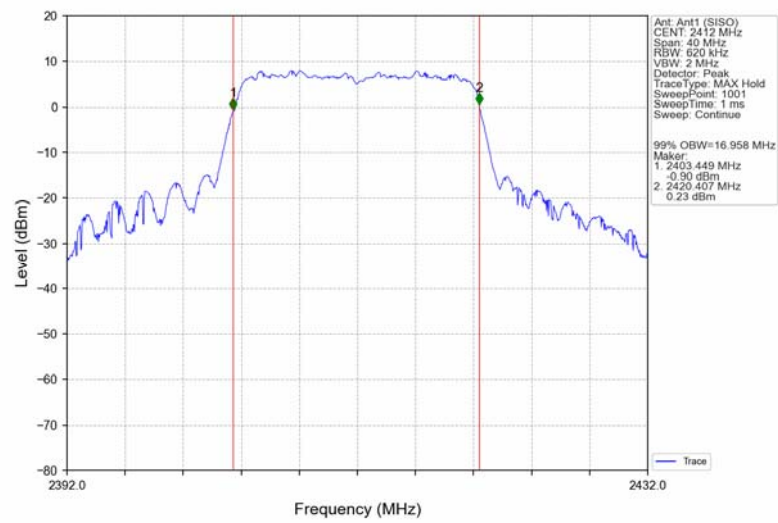
Mode: TX 11b channel 6



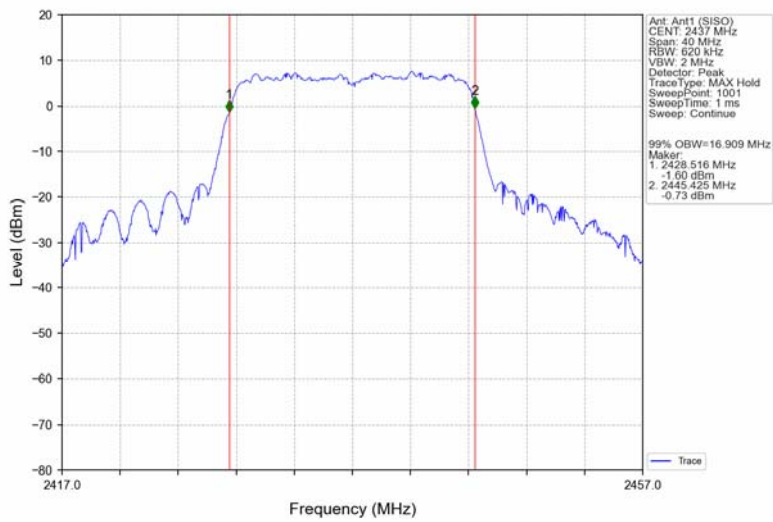
Mode: TX 11b channel 11



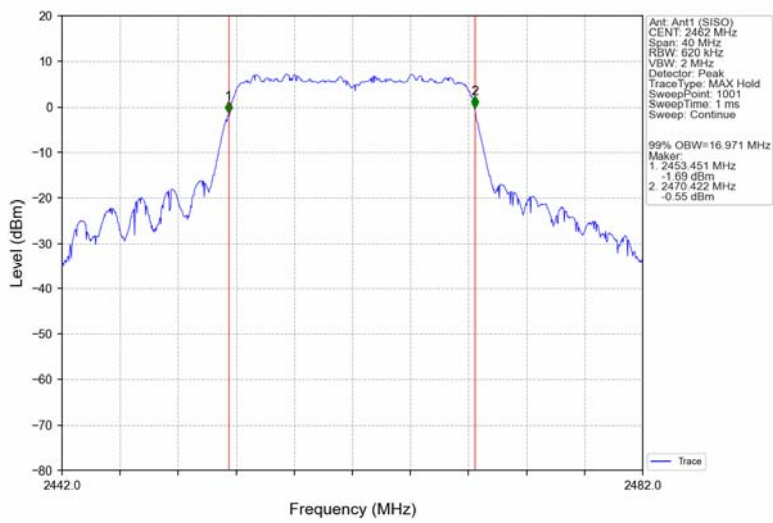
Mode: TX 11g channel 1



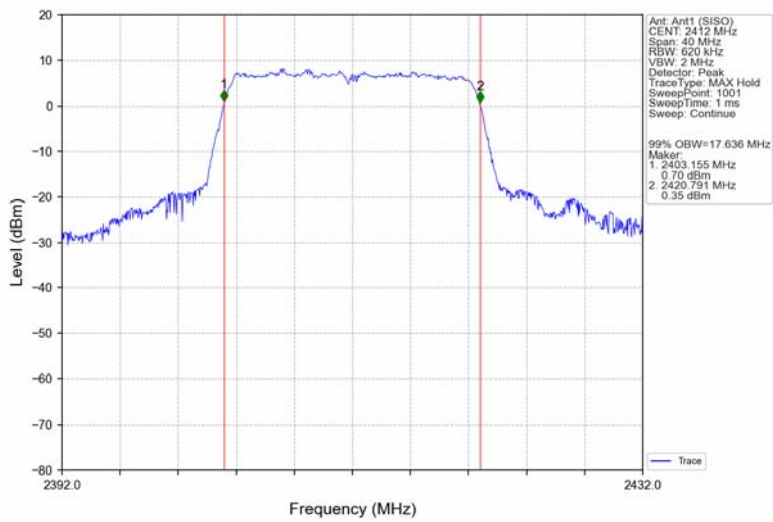
Mode: TX 11g channel 6



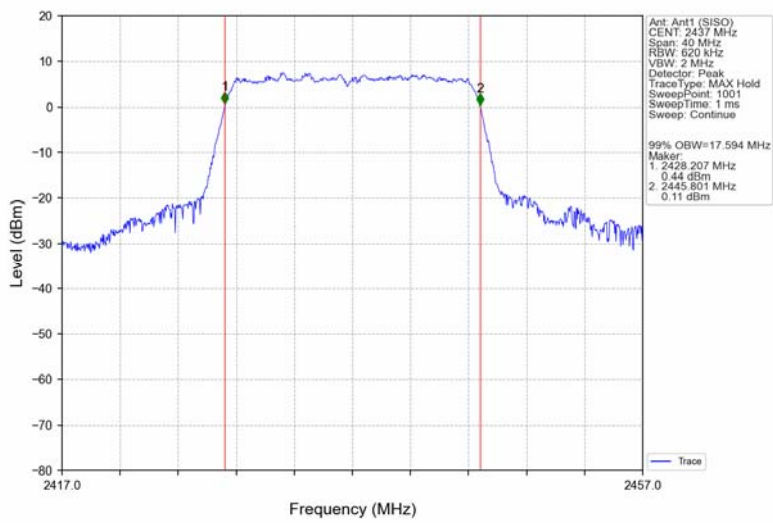
Mode: TX 11g channel 11



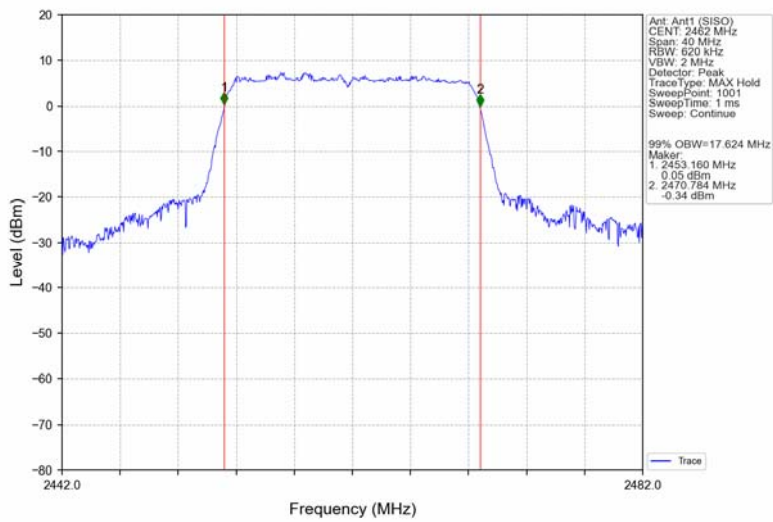
Mode: TX 11n HT20 channel 1



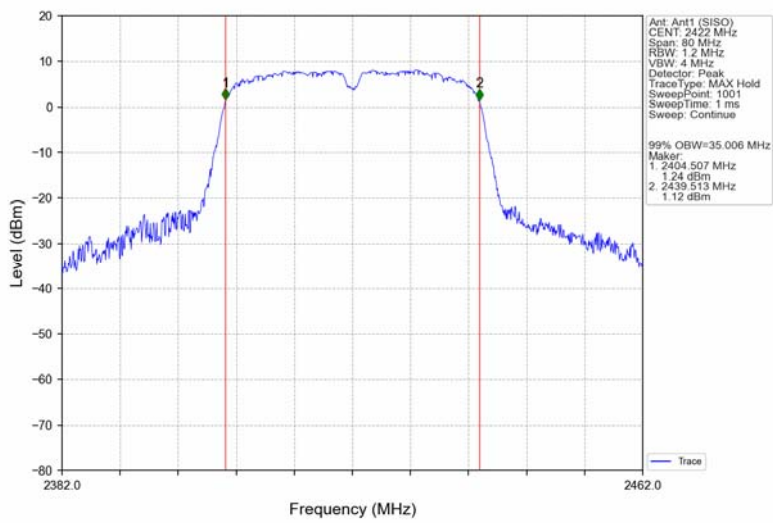
Mode: TX 11n HT20 channel 6



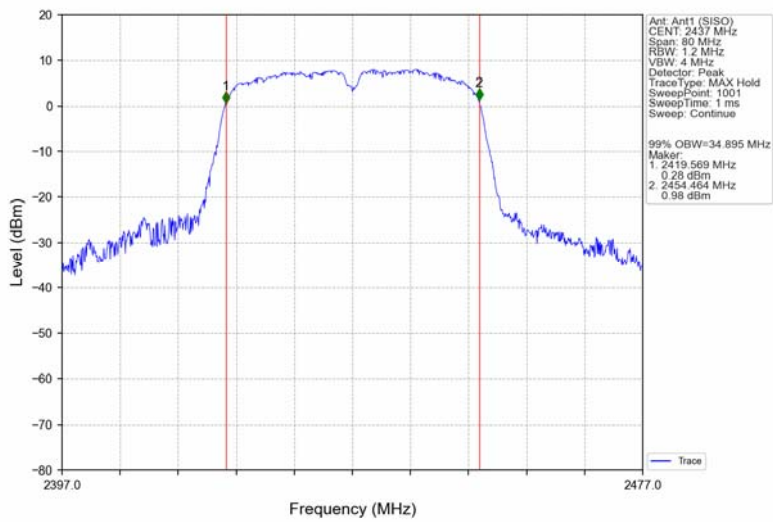
Mode: TX 11n HT20 channel 11



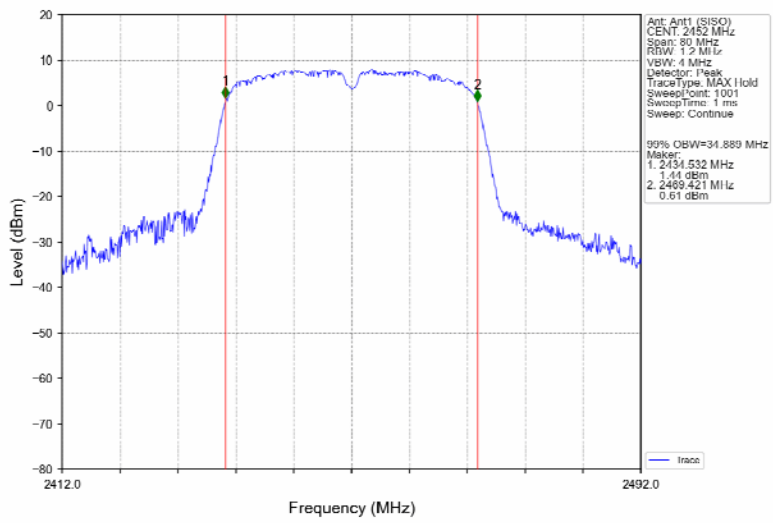
Mode: TX 11n HT40 channel 3



Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 9



13 Maximum Conducted Output Power

Test Requirement:	47CFR FCC Part15 Subpart C §15.247
Test Method:	ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019 §15.247(b)
Test Limit:	The maximum peak conducted output power of the intentional radiator shall not exceed 1W.
Test Mode:	Transmitting

13.1 Test Procedure

According to KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Section 8.3.1.1 RBW $\geq$ DTS bandwidth

Subclause 11.9.1.1 of ANSI C63.10 is applicable.

Section 8.3.1.2 Integrated band power method

For measuring the output power of a device transmitting a wide-band noise-like signal where the peak power amplitude is a statistical parameter, the preferred methodology is to use an integrated average power measurement, as described in 8.3.2. The peak integrated band power method of 11.9.1 in ANSI C63.10 is not applicable.

Subclause 11.9.2 of ANSI C63.10 is applicable.

13.2 Test Result

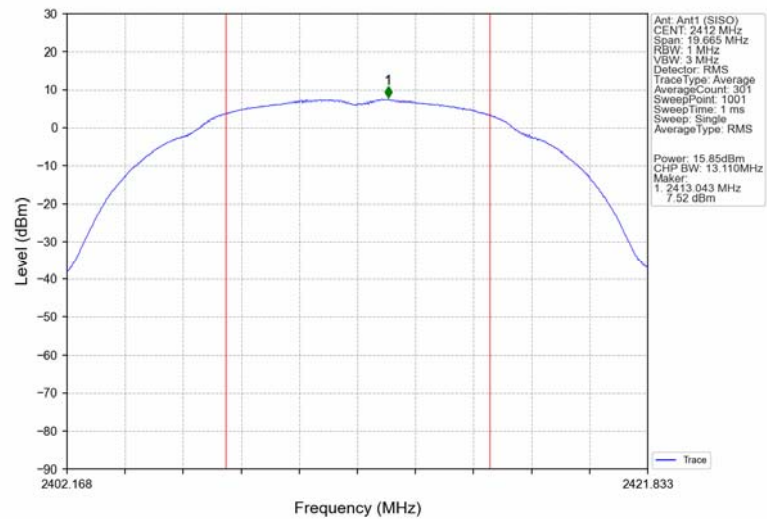
Note: duty cycle =100% > 98%, the selected measurement method is **Method AVGSA-1**.

Operation mode	Channel Frequency (MHz)	Measurements (dBm)	Duty Cycle Factor (dB)	Conducted Output Power (dBm)	Limit
TX 11b	Low-2412	15.85	0.00	15.85	1W/30dBm
	Middle-2437	15.57		15.57	1W/30dBm
	High-2462	15.16		15.16	1W/30dBm
TX 11g	Low-2412	13.85	0.00	13.85	1W/30dBm
	Middle-2437	13.34		13.34	1W/30dBm
	High-2462	13.09		13.09	1W/30dBm
TX 11n HT20	Low-2412	13.94	0.00	13.94	1W/30dBm
	Middle-2437	13.43		13.43	1W/30dBm
	High-2462	13.13		13.13	1W/30dBm
TX 11n HT40	Low-2422	12.79	0.00	12.79	1W/30dBm
	Middle-2437	12.51		12.51	1W/30dBm
	High-2452	12.55		12.55	1W/30dBm

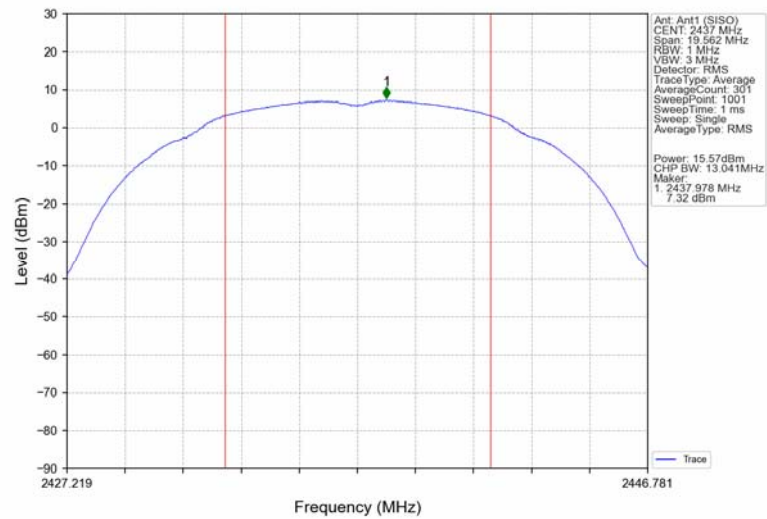
Operation mode	Channel Frequency (MHz)	EIRP (dBm)	Limit
TX 11b	Low-2412	17.42	4W/36dBm
	Middle-2437	17.14	4W/36dBm
	High-2462	16.73	4W/36dBm
TX 11g	Low-2412	15.42	4W/36dBm
	Middle-2437	14.91	4W/36dBm
	High-2462	14.66	4W/36dBm
TX 11n HT20	Low-2412	15.51	4W/36dBm
	Middle-2437	15.00	4W/36dBm
	High-2462	14.70	4W/36dBm
TX 11n HT40	Low-2422	14.36	4W/36dBm
	Middle-2437	14.08	4W/36dBm
	High-2452	14.12	4W/36dBm

Test Plot:

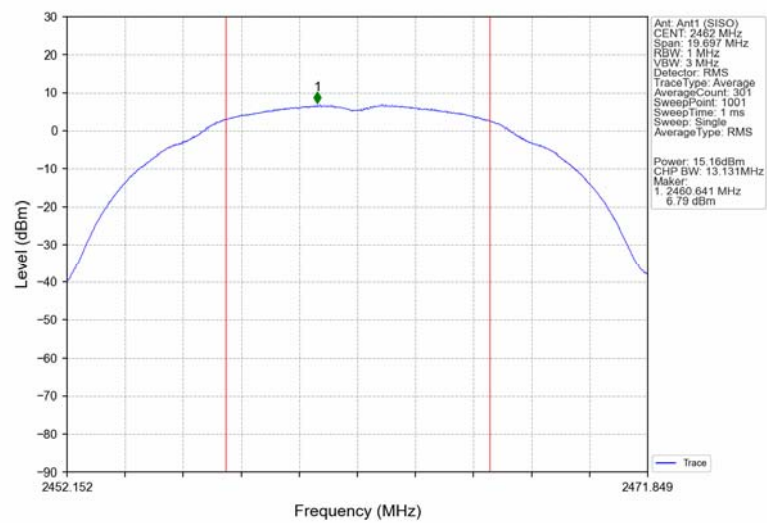
Mode: TX 11b channel 1



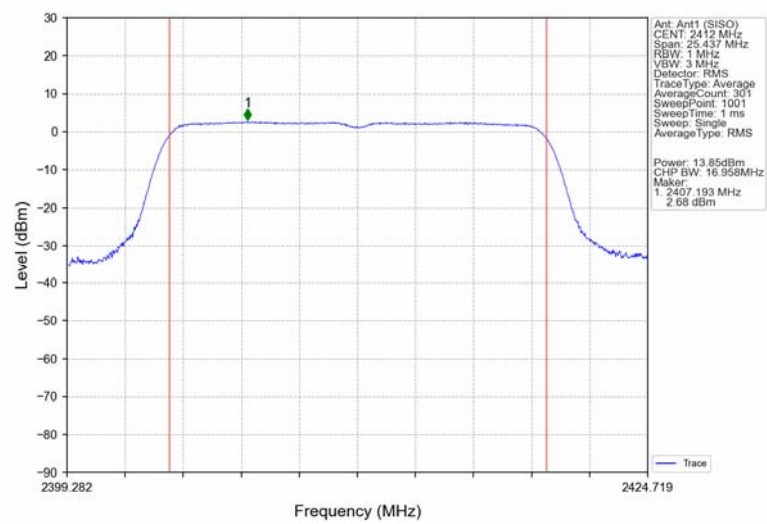
Mode: TX 11b channel 6



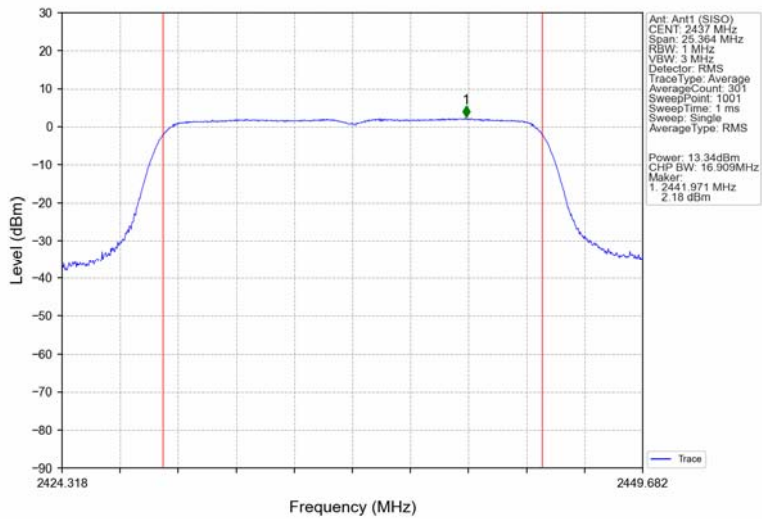
Mode: TX 11b channel 11



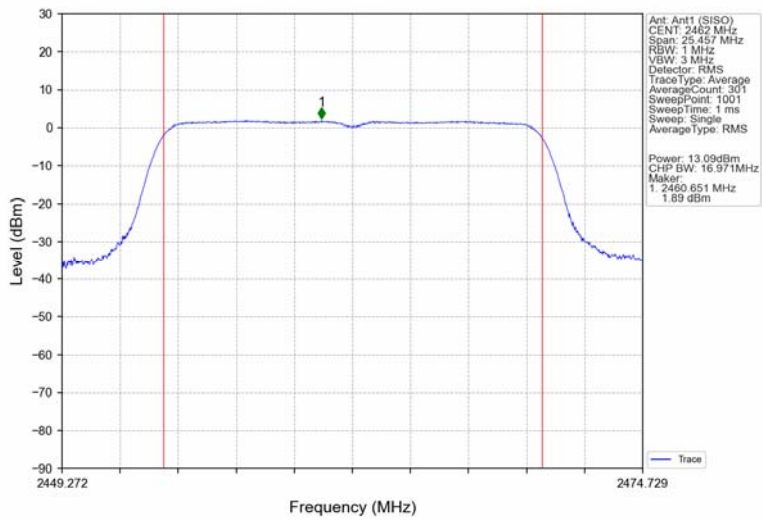
Mode TX 11g channel 1



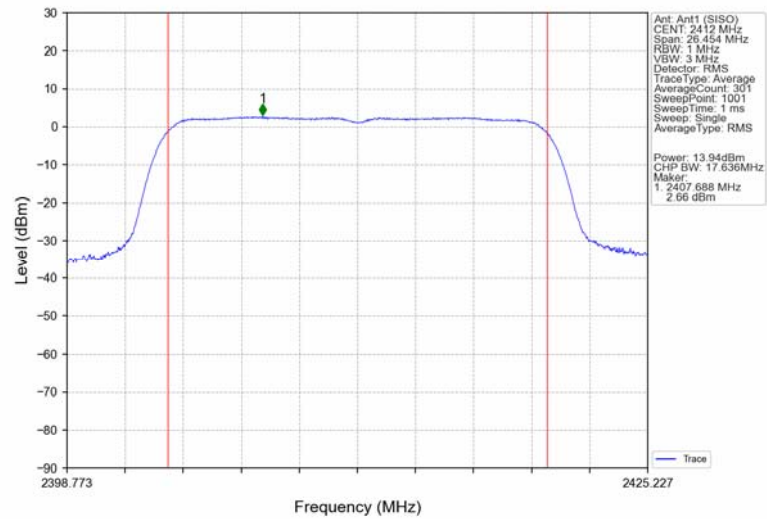
Mode TX 11g channel 6



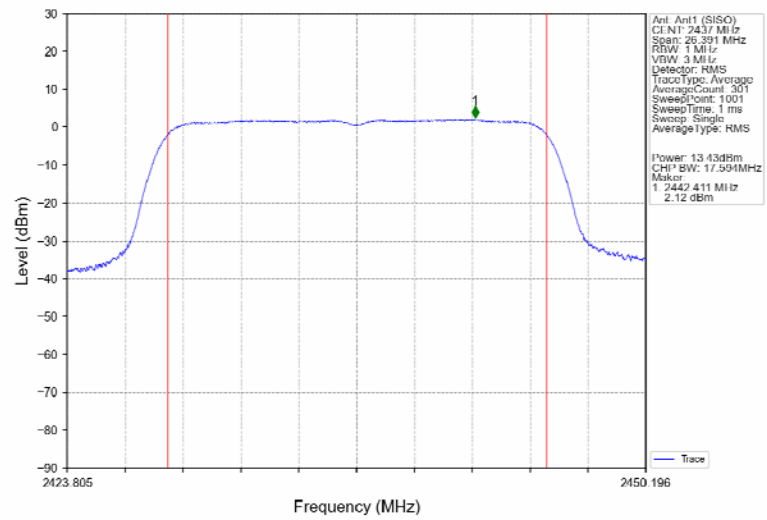
Mode TX 11g channel 11



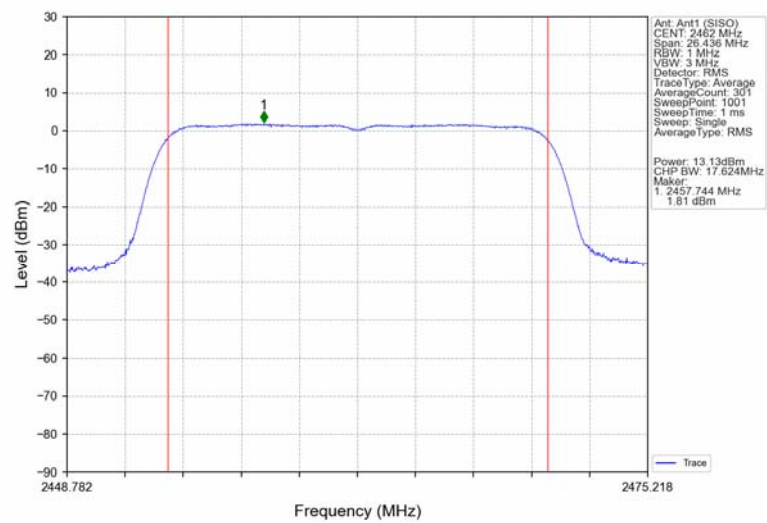
Mode: TX 11n HT20 channel 1



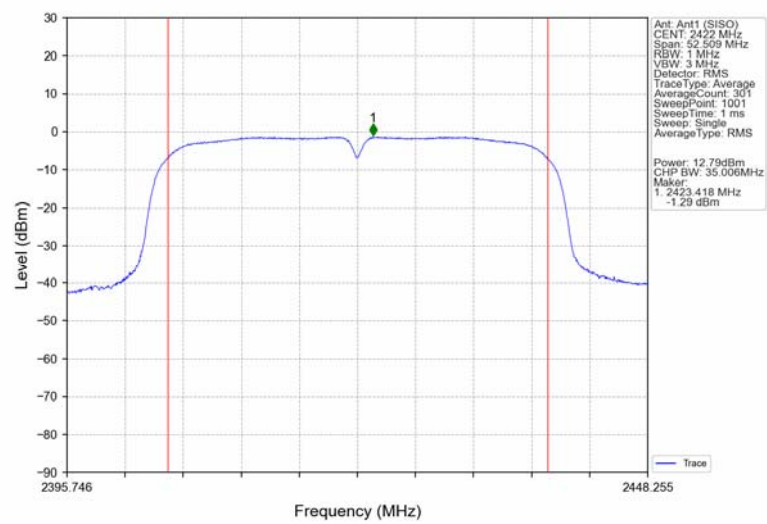
Mode: TX 11n HT20 channel 6



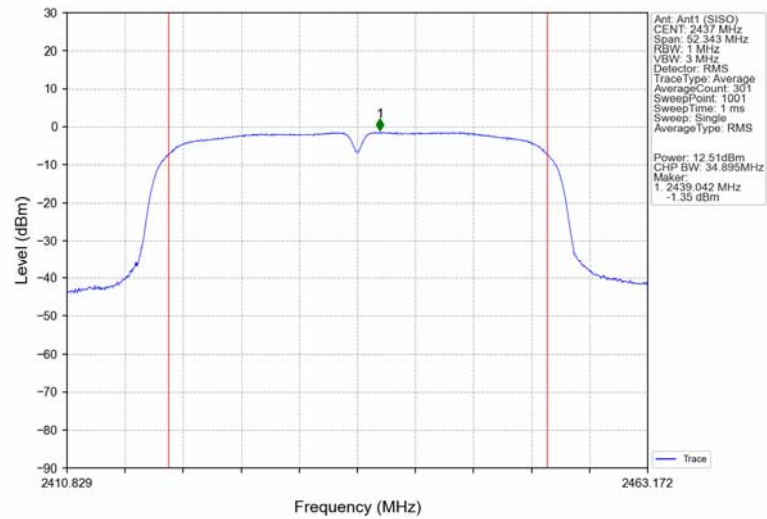
Mode: TX 11n HT20 channel 11



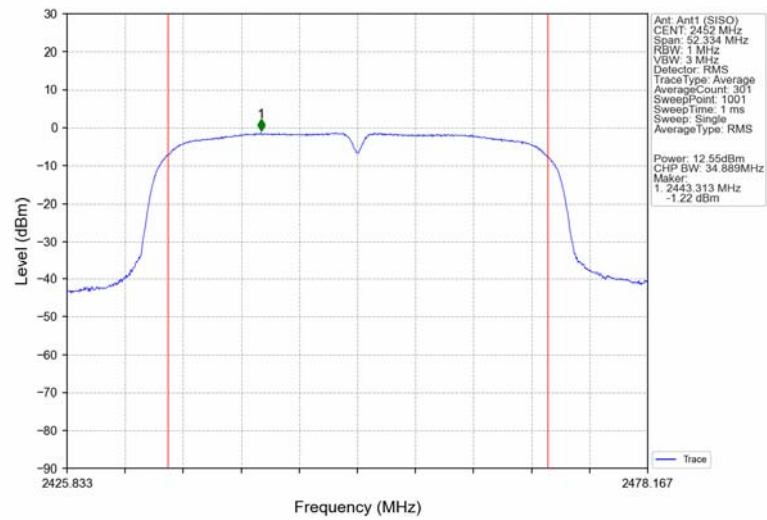
Mode: TX 11n HT40 channel 3



Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 9



14 Power Spectral Density

Test Requirement:	47CFR FCC Part15 Subpart C §15.247
Test Method:	ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Test Mode:	Transmitting

14.1 Test Procedure

According to KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 8.4

Subclause 11.10 of ANSI C63.10 is applicable.

Choose the test procedure according to the product type

Peak PSD

Subclause 11.10.2 of ANSI C63.10 is applicable.

AVG PSD

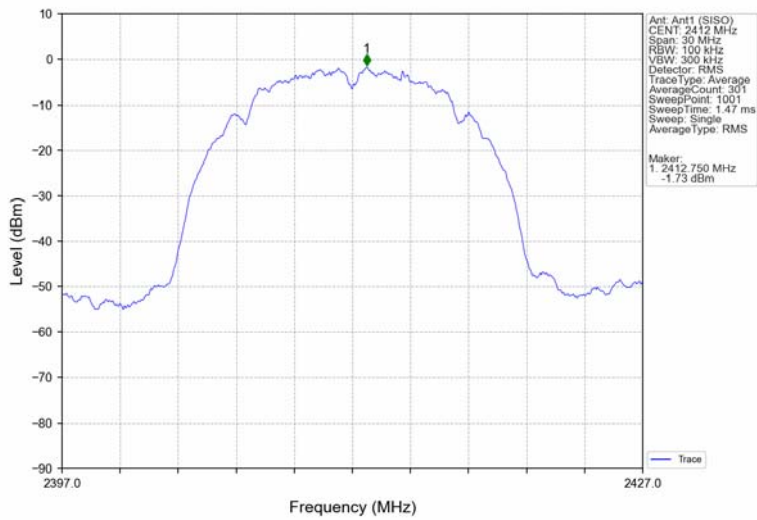
Subclause 11.10.3/4/5/6/7/8 of ANSI C63.10 is applicable.

14.2 Test Result

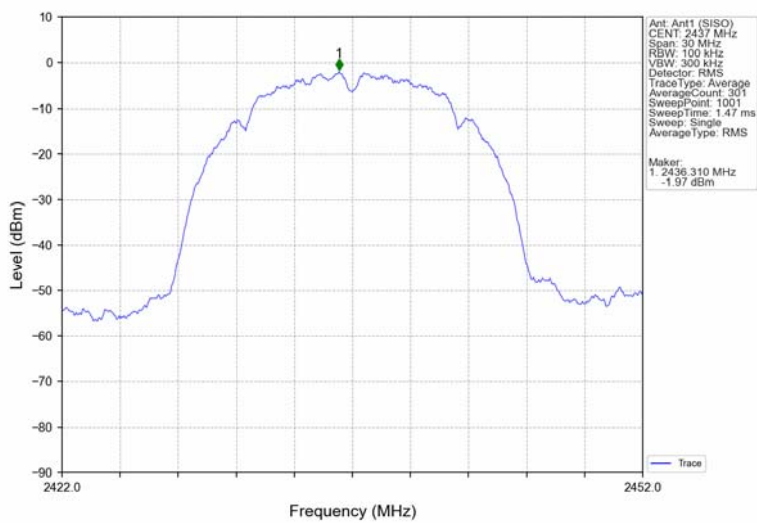
Operation mode	Channel Frequency (MHz)	Measurements (dBm per 100kHz)	Duty Cycle Factor (dB)	Power Spectral density (dBm per 100kHz)	Limit
TX 11b	Low-2412	-1.73	0.00	-1.73	8dBm per 3kHz
	Middle-2437	-1.97		-1.97	8dBm per 3kHz
	High-2462	-2.32		-2.32	8dBm per 3kHz
TX 11g	Low-2412	-6.35	0.00	-6.35	8dBm per 3kHz
	Middle-2437	-6.59		-6.59	8dBm per 3kHz
	High-2462	-7.24		-7.24	8dBm per 3kHz
TX 11n HT20	Low-2412	-6.35	0.00	-6.35	8dBm per 3kHz
	Middle-2437	-6.99		-6.99	8dBm per 3kHz
	High-2462	-7.22		-7.22	8dBm per 3kHz
TX 11n HT40	Low-2422	-10.33	0.00	-10.33	8dBm per 3kHz
	Middle-2437	-10.44		-10.44	8dBm per 3kHz
	High-2452	-10.60		-10.60	8dBm per 3kHz

Test Plot:

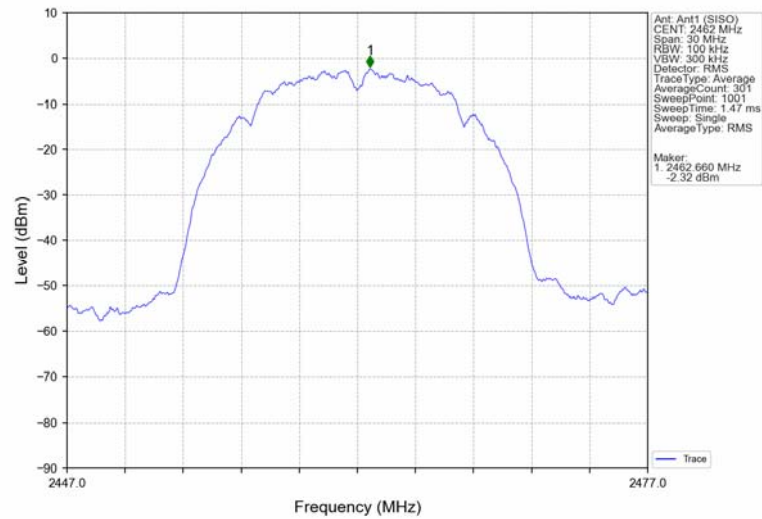
Mode: TX 11b channel 1



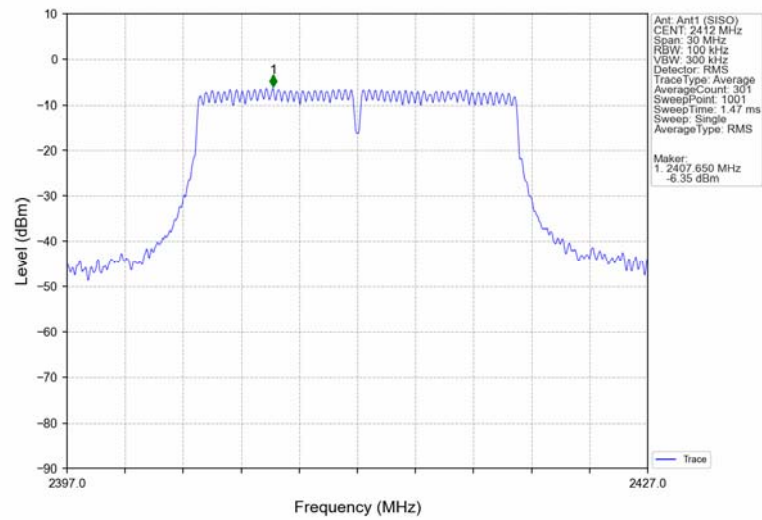
Mode: TX 11b channel 6



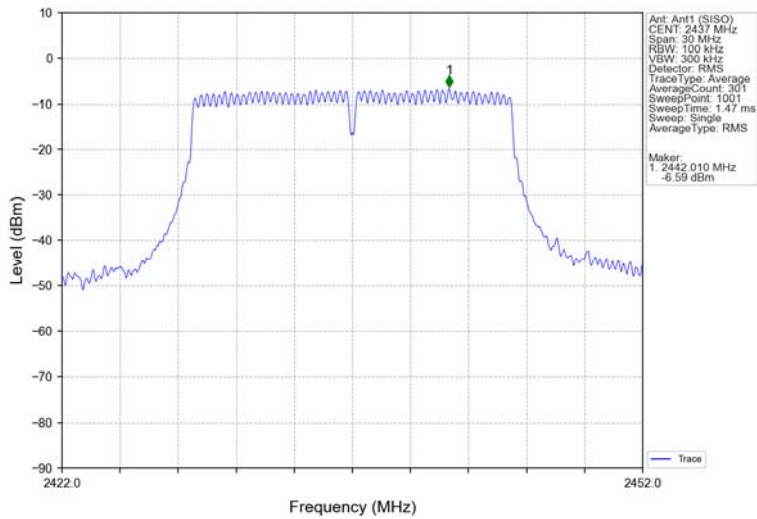
Mode: TX 11b channel 11



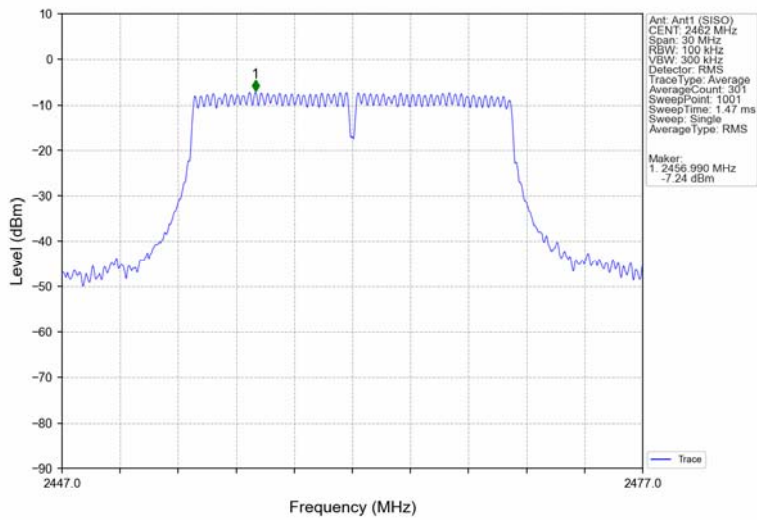
Mode :TX 11g channel 1



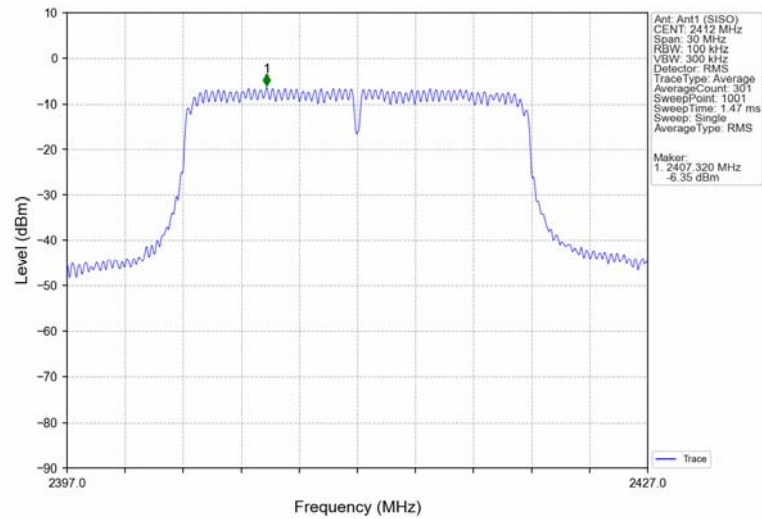
Mode :TX 11g channel 6



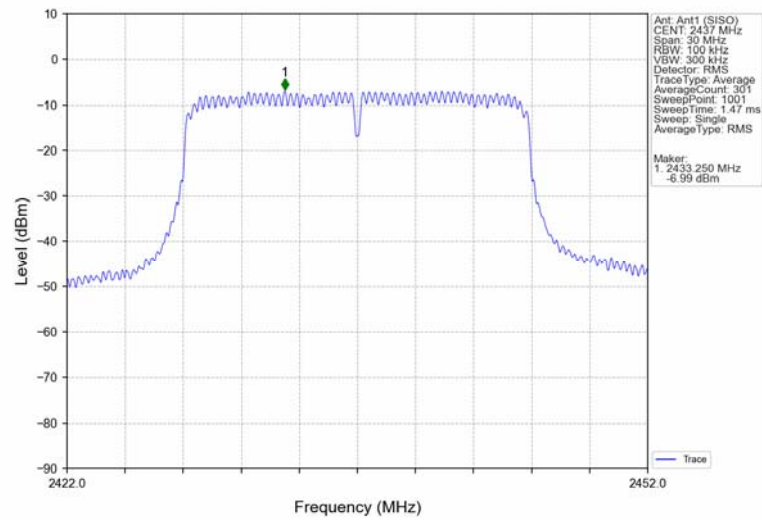
Mode :TX 11g channel 11



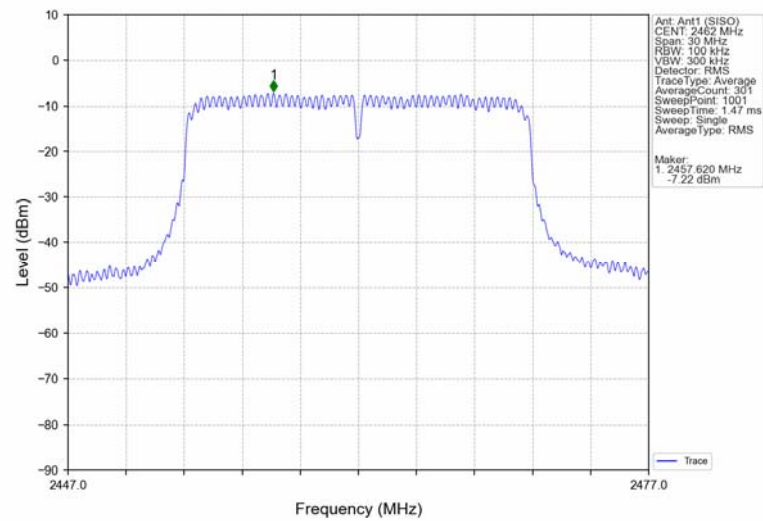
Mode: TX 11n HT20 channel 1



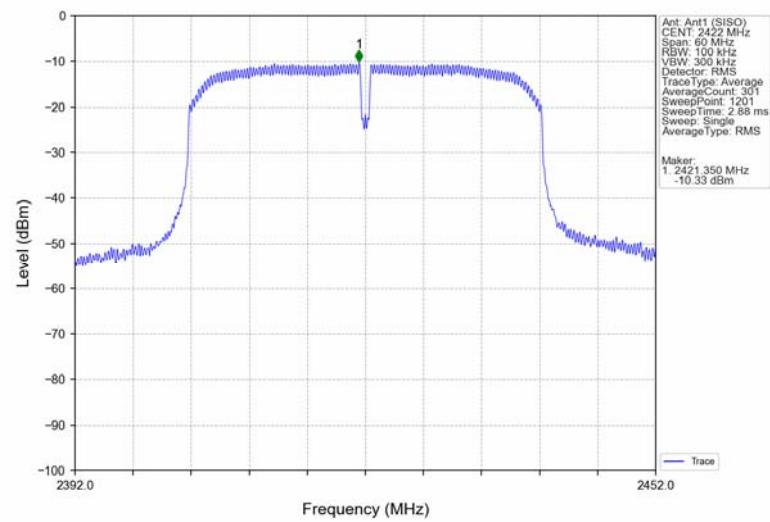
Mode: TX 11n HT20 channel 6



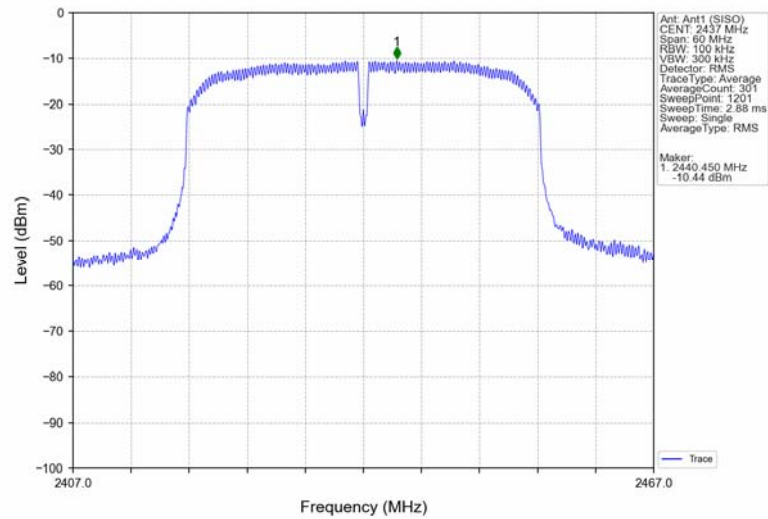
Mode: TX 11n HT20 channel 11



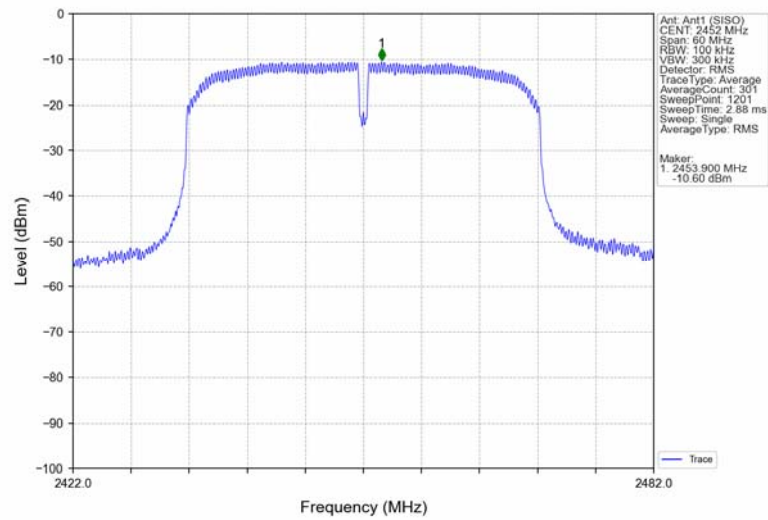
Mode: TX 11n HT40 channel 3



Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 9



15 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an FPC antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

16 RF Exposure

Note: Please refer to RF Exposure Report: WTX26X02034079W.

17 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix- H02_Pro -Photos.

=====End of Report=====