

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Shenzhen Shimu Technology Co., Ltd.

FCC ID: 2A402-S208XS109X**Report Type:**

Original report

Product Type:

Permanent Outdoor Lights

Test Engineer:Kelvin Liang

Kelvin Liang

Report Number:STD-JBO260303F-006**Report Date:**2026.07.16**Reviewed By:**Garman Mo

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Prepared By:

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The device described above is tested by Bestway Compliance Co.,Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and Bestway Compliance Co.,Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This Report is made under FCC Part 2.1074. No modifications were required during testing to bring this product into compliance. This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Bestway Compliance Co.,Ltd.

This report does not imply product certification, approval, or endorsement by A2LA or any agency of the Federal Government.

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS.....	3
1.1. Description of Standards and Results	3
2. GENERAL INFORMATION	4
2.1. Description of Equipment Under Test	4
2.2. Feature of Equipment Under Test	5
2.3. Tested Supporting System Details.....	5
2.4. Test Information.....	6
2.5. Equipments Used during the Test	6
2.6. Test Facility	8
2.7. Measurement Uncertainty (95% confidence levels, k=2)	8
3. POWER LINE CONDUCTED EMISSION TEST	9
3.1. Block Diagram of Test Setup.....	9
3.2. Power Line Conducted Emission Test Limits	9
3.3. Test Procedure	9
3.4. Power Line Conducted Emission Test Result.....	9
4. RADIATED EMISSION TEST	14
4.1. Block Diagram of Test Setup.....	14
4.2. Radiated Emission Limit.....	15
4.3. Test Procedure	15
4.4. Radiated Emission Test Results	16
5. CONDUCTED SPURIOUS EMISSIONS	69
5.1. Block Diagram of Test Setup.....	69
5.2. Limit.....	69
5.3. Test Procedure	69
5.4. Test result	69
6. BAND EDGE COMPLIANCE TEST.....	98
6.1. Limit.....	98
6.2. Test Procedure.....	98
6.3. Test Results	98
7. 6dB Bandwidth Test.....	115
7.1. Block Diagram of Test Setup.....	115
7.2. Limit	115
7.3. Test Procedure	115
7.4. Test Results	115
8. OUTPUT POWER TEST.....	125
8.1. Block Diagram of Test Setup	125
8.2. Limit	125
8.3. Test Procedure	125
8.4. Test Results	125
9. POWER SPECTRAL DENSITY TEST	131
9.1. Block Diagram of Test Setup	131
9.2. Limit	131
9.3. Test Procedure	131
9.4. Test Results	131
10. ANTENNA REQUIREMENT	141
10.1. Standard Applicable	141
10.2. Antenna Connected Construction	141

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205	PASS
Band Edge Compliance	FCC Part 15: 15.247(d)	PASS
Conducted spurious emissions	FCC Part 15: 15.247(d)	PASS
6dB Bandwidth Test	FCC Part 15: 15.247(a)(2)	PASS
Output Power	FCC Part 15: 15.247(b)(3)	PASS
Power Spectral Density	FCC Part 15: 15.247(e)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

Note: Decision rule is the rule that describes how measurement uncertainty is accounted for when stating conformity with a specified requirement. When decision rule is applicable, please refer to the most updated version announced in our website:

<https://en.bestway-compliance.com/pages/decision-rule-of-compliance-with-specification>

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant:	Shenzhen Shimu Technology Co., Ltd.
Address:	Room 703, East Commercial Building, 222 Minzhi Avenue, Minkang Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Fitop Lighting Technology Co.Ltd
Address:	1st, 2nd, 3rd, 4th, and 5th floors of Building B, No. 4 Shitoushan Industrial Zone, Zhoushi Road, Langxin Community, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China
Product Name:	Permanent Outdoor Lights
Trade Mark:	ASAHOM
Test Model:	S109F, S208F
Additional Model No.:	S109A, S109B, S109C, S109D, S109E, S208A, S208B, S208C, S208D, S208E
Model Declaration:	S109 Series and S208 Series are the internal circuits and structures of all models are exactly the same, different types of light strings are used. The S109E/S208E and S109F/S208F use two power supplies and select the maximum power for testing. The S109A/S208A, S109B/S208B, S109C/S208C, and S109D/S208D all use one power supply. S109D/S208D is the one with the maximum power in the power supply, so a differential test was conducted.
Sample Type:	Prototype production
SN:	JBO260303-07, JBO260303-08
Date of Receipt:	2026.06.25
Date of Test:	2026.06.30-2026.07.07
Test Power Supply:	Input: AC 100-130V, 50/60Hz Output: DC 29.5V 3.39A (per adapter)

2.2.Feature of Equipment Under Test

Product Feature & Specification	
2.4GHz Wi-Fi	
Support Modes	802.11b/g/n
Frequency Range	2412-2462MHz
Type of Modulation	802.11b for DSSS 802.11g/n for OFDM
Data Rate	802.11b: 11/5.5/2/1 Mbps; 802.11g: 54/48/36/24/18/12/9/6 Mbps; 802.11n: MCS0-MCS7
Channel Separation	5MHz

Antenna System

The following table information is provided by the customer

Wi-Fi	
Type of Antenna	FPC Antenna
Antenna number	1
Antenna Peak Gain	Peak Gain: 4.1dBi

2.3.Tested Supporting System Details

RF Test Tool: EspRFTestTool_v3.6

1. Use the UART serial board to connect the Bluetooth correctly; RX —>TX; TX—>RX;
3.3V —>VCC; GND —>GND;
2. Connect the UART serial board to the computer
3. Click Serial port test tool to enter the fixed frequency test
4. Perform all tests at the default power level

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	X220i	428632C
Lenovo	Adapter	42T4420	N322

External I/O Cable

Cable Description	Length (m)	From Port	To
Data Cable	0.1	EUT	Debug Board

2.4. Test Information

A special test software(The developer mode that comes with the device) was used to control EUT work in Continuous TX mode(The duty cycle of the test signal is 100%), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n HT20	MCS0	Low :CH1	2412
	MCS0	Middle: CH6	2437
	MCS0	High: CH11	2462
IEEE 802.11n HT40	MCS0	Low :CH3	2422
	MCS0	Middle: CH6	2437
	MCS0	High: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.5. Equipments Used during the Test

Conducted Emissions

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Until	Cal. Interval
1.	Shielding Room	AUDIX	N/A	N/A	2026/12/20	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR7	101487	2028/04/27	2 Year
3.	V-LISN	Rohde & Schwarz	NNLK 8122	8122-00128	2027/02/17	2 Year
4.	Coaxial cable CE	YuanDao	RG223	N/A	2027/04/27	1 Year
5.	Test Software	AUDIX	e3	V15922	N/A	N/A

Note: N/A means Not applicable.

For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Until	Cal. Interval
1.	Semi-anechoic chamber	AUDIX	N/A	N/A	2026/12/20	3 Year
2.	EMI Test Receiver	R&S	ESR7	101487	2028/04/27	2 Year
3.	Biconical Logarithmic Antenna	SCHWARDZBECK	VULB 9162	9162-104	2028/05/23	2 Year
4.	Coaxial cable RE	PEWC	CFD400NL	N/A	2027/04/27	1 Year
5.	Loop Antenna	Beijing Daze	ZN30900C	1062	2026/10/21	2 Year
6.	Test Software	AUDIX	e3	V15922	N/A	N/A

Note: N/A means Not applicable.

For frequency range 1GHz~25GHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Until	Cal. Interval
1.	Semi-anechoic chamber	AUDIX	N/A	N/A	2026/12/20	3 Year
2.	Spectrum Analyzer	R&S	FSP	100615	2027/04/27	1 Year
3.	Horn Antenna	SCHWARDZBEC K	BBHA 9170	895	2026/10/20	2 Year
4.	Horn Antenna	SCHWARDZBEC K	BBHA 9120 D	9120D-1515	2026/10/20	2 Year
5.	Broadband Preamplifier	SCHWARDZBEC K	BBV9718	9718-269	2028/04/27	2 Year
6.	Broadband Preamplifier	SKET	LNPA-1840	SK20191212 01	2028/04/27	2 Year
7.	RF Cable	SKET	RC-40G-K-M /K-M-0.6M	N/A	2027/04/27	1 Year
8.	RF Cable	SKET	RC-40G-K-M /K-M-8M	N/A	2027/04/27	1 Year
9.	Test Software	AUDIX	e3	V15922	N/A	N/A

Note: N/A means Not applicable.

RF Conducted Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Until	Cal. Interval
1.	Spectrum Analyzer	R&S	FSP	100615	2027/04/27	2 Year
2.	RF Cable	STD	/	/	/	/

2.6. Test Facility

Site Description

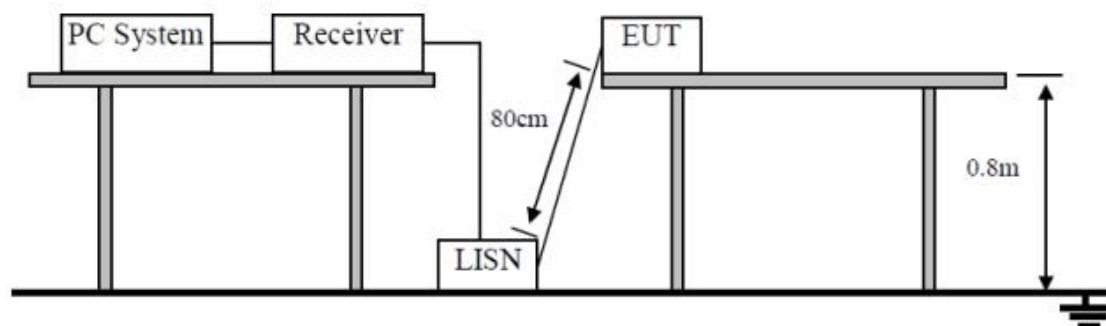
Name of Firm	:	Bestway Compliance Co.,Ltd. Unit 301,Building 3, No. 178, Fenggang Section,Dongshen Road,Fenggang Town, Dongguan, Guangdong,China
EMC Lab.	:	Certificated by Industry Canada Registration Number: 34294 Valid Date: 2027/03/31 Certificated by FCC USA. Designation No.: CN1415 Valid Date: 2027/03/31

2.7.Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.90dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	5.34dB(30M~1GHz, Distance: 3m)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-40GHz)	4.14dB(1~6GHz, Distance: 3m)
	4.60dB(6~18GHz, Distance: 3m)
	4.94dB(18~40GHz, Distance: 3m)
Uncertainty for Output power test	1.34dB
Uncertainty for Bandwidth test	92.3kHz

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (V-LISN). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2020 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESR7) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Power Line Conducted Emission Test Result

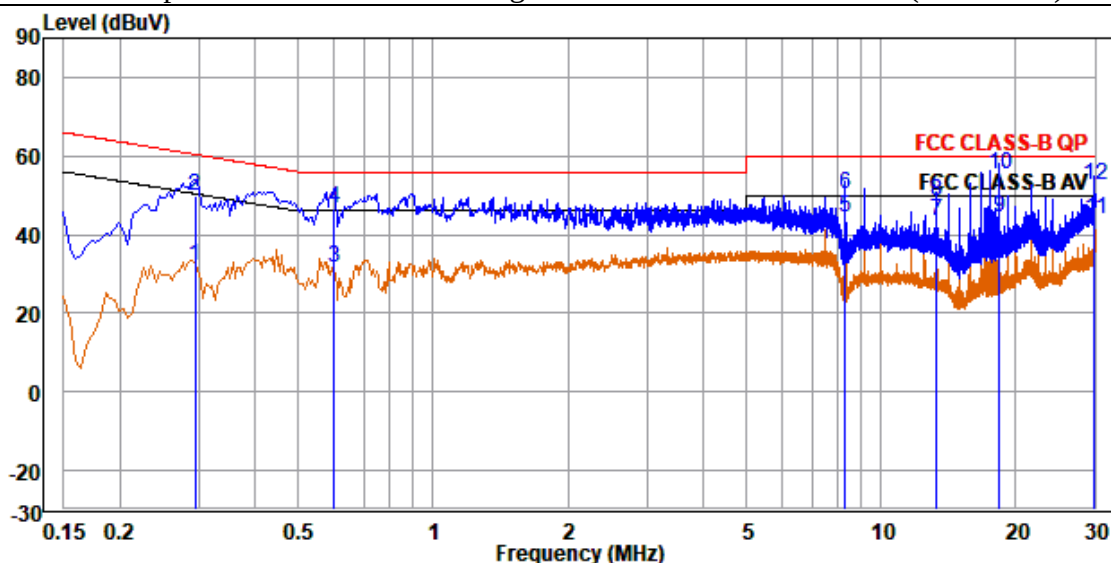
Pass

Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Margin (dB) = Limit (dB μ V) – Corrected Amplitude (dB μ V)

Model	S208F
Test Voltage:	120Vac 60Hz
Phase:	Line

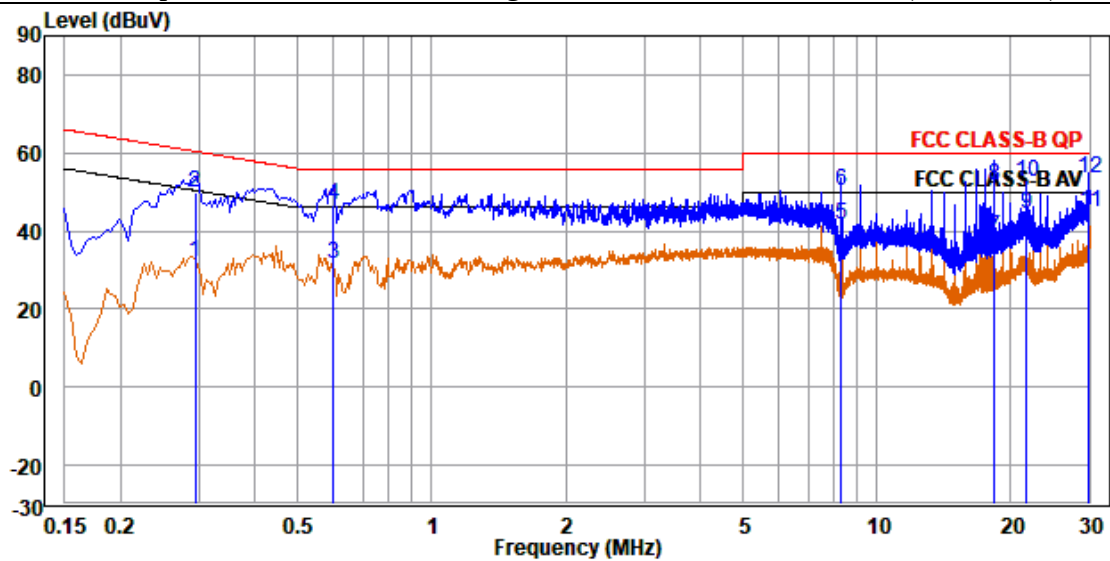
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.294	31.91	31.62	0.29	50.41	-18.50	Average
2	0.294	49.91	49.62	0.29	60.41	-10.50	QP
3	0.600	31.54	31.21	0.33	46.00	-14.46	Average
4	0.600	46.54	46.21	0.33	56.00	-9.46	QP
5	8.330	44.37	41.77	2.60	50.00	-5.63	Average
6	8.330	50.37	47.77	2.60	60.00	-9.63	QP
7	13.329	43.57	39.10	4.47	50.00	-6.43	Average
8	13.329	48.57	44.10	4.47	60.00	-11.43	QP
9	18.328	44.20	38.29	5.91	50.00	-5.80	Average
10	18.328	55.20	49.29	5.91	60.00	-4.80	QP
11	29.996	43.72	35.97	7.75	50.00	-6.28	Average
12	29.996	52.72	44.97	7.75	60.00	-7.28	QP

Model	S208F
Test Voltage:	120Vac 60Hz
Phase:	Neutral

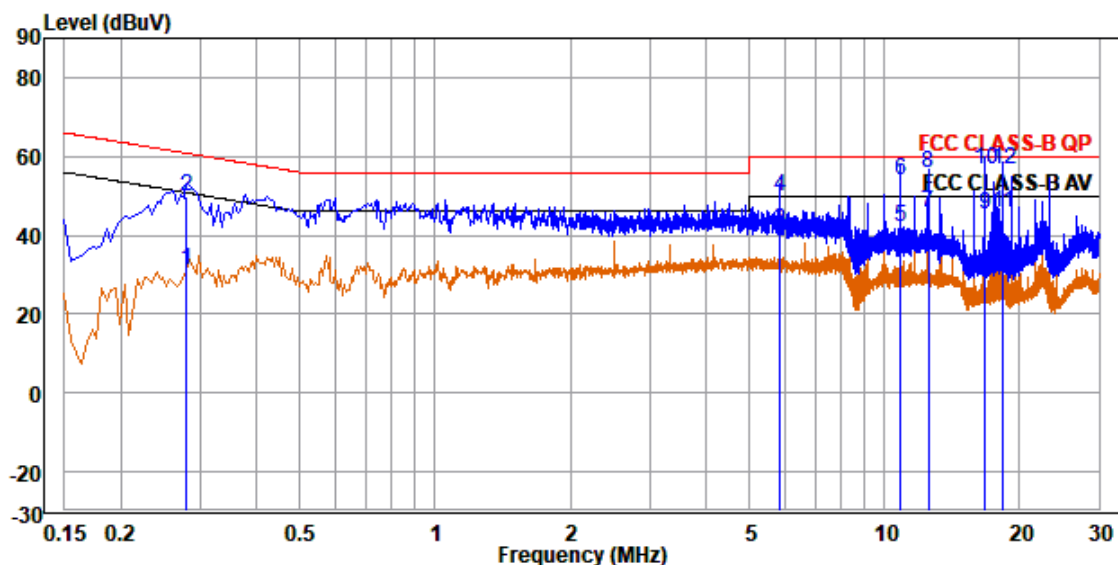
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.294	31.93	31.62	0.31	50.41	-18.48	Average
2	0.294	49.93	49.62	0.31	60.41	-10.48	QP
3	0.600	31.56	31.21	0.35	46.00	-14.44	Average
4	0.600	46.56	46.21	0.35	56.00	-9.44	QP
5	8.330	41.43	38.76	2.67	50.00	-8.57	Average
6	8.330	50.43	47.76	2.67	60.00	-9.57	QP
7	18.328	38.56	32.70	5.86	50.00	-11.44	Average
8	18.328	51.56	45.70	5.86	60.00	-8.44	QP
9	21.667	44.43	37.80	6.63	50.00	-5.57	Average
10	21.667	52.43	45.80	6.63	60.00	-7.57	QP
11	29.996	44.71	36.97	7.74	50.00	-5.29	Average
12	29.996	53.71	45.97	7.74	60.00	-6.29	QP

Model	S109F
Test Voltage:	120Vac 60Hz
Phase:	Line

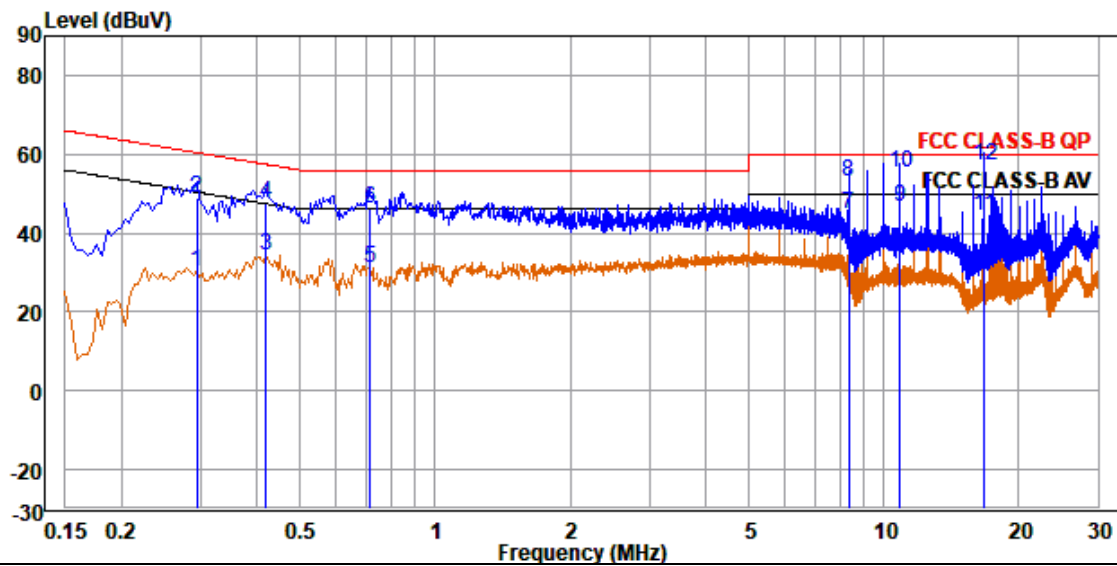
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.280	31.06	30.78	0.28	50.80	-19.74	Average
2	0.280	50.06	49.78	0.28	60.80	-10.74	QP
3	5.833	41.01	39.25	1.76	50.00	-8.99	Average
4	5.833	50.01	48.25	1.76	60.00	-9.99	QP
5	10.832	41.93	38.38	3.55	50.00	-8.07	Average
6	10.832	53.93	50.38	3.55	60.00	-6.07	QP
7	12.501	45.69	41.50	4.19	50.00	-4.31	Average
8	12.501	55.69	51.50	4.19	60.00	-4.31	QP
9	16.663	45.17	39.70	5.47	50.00	-4.83	Average
10	16.663	56.57	51.10	5.47	60.00	-3.43	QP
11	18.333	45.64	39.73	5.91	50.00	-4.36	Average
12	18.333	56.64	50.73	5.91	60.00	-3.36	QP

Model	S109F
Test Voltage:	120Vac 60Hz
Phase:	Neutral

EUT operation mode: Transmitting in 802.11b mode low channel(worst case)

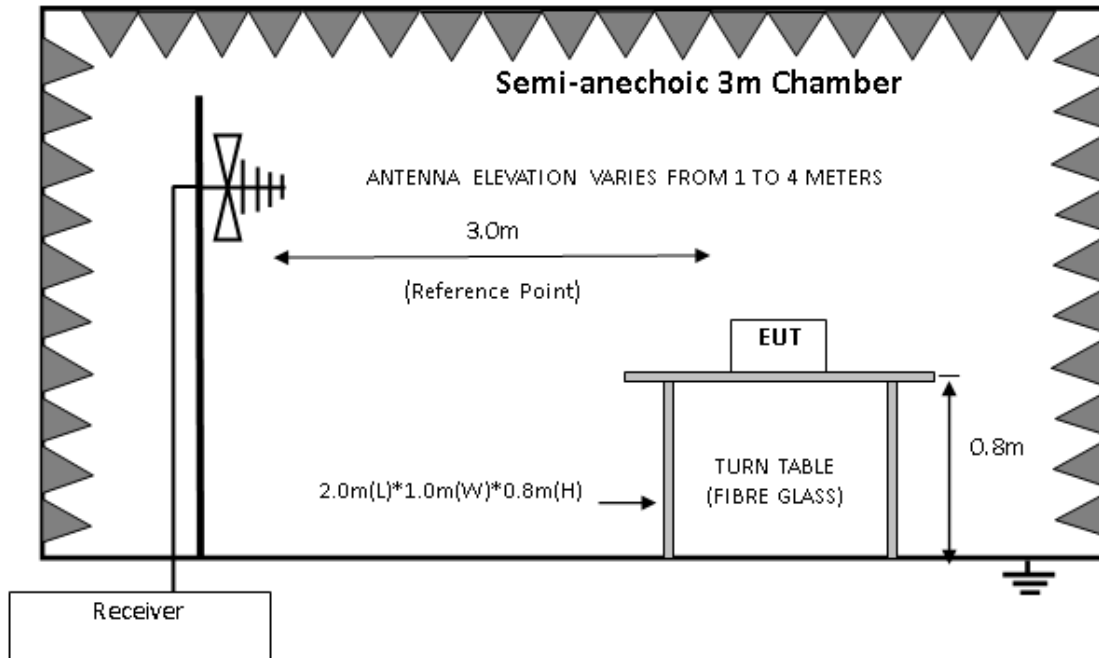


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.294	30.02	29.71	0.31	50.41	-20.39	Average
2	0.294	49.02	48.71	0.31	60.41	-11.39	QP
3	0.420	34.34	34.02	0.32	47.45	-13.11	Average
4	0.420	47.34	47.02	0.32	57.45	-10.11	QP
5	0.712	31.06	30.69	0.37	46.00	-14.94	Average
6	0.712	46.06	45.69	0.37	56.00	-9.94	QP
7	8.335	44.92	42.25	2.67	50.00	-5.08	Average
8	8.335	52.92	50.25	2.67	60.00	-7.08	QP
9	10.832	46.55	43.39	3.16	50.00	-3.45	Average
10	10.832	55.55	52.39	3.16	60.00	-4.45	QP
11	16.663	44.56	39.20	5.36	50.00	-5.44	Average
12	16.663	56.96	51.60	5.36	60.00	-3.04	QP

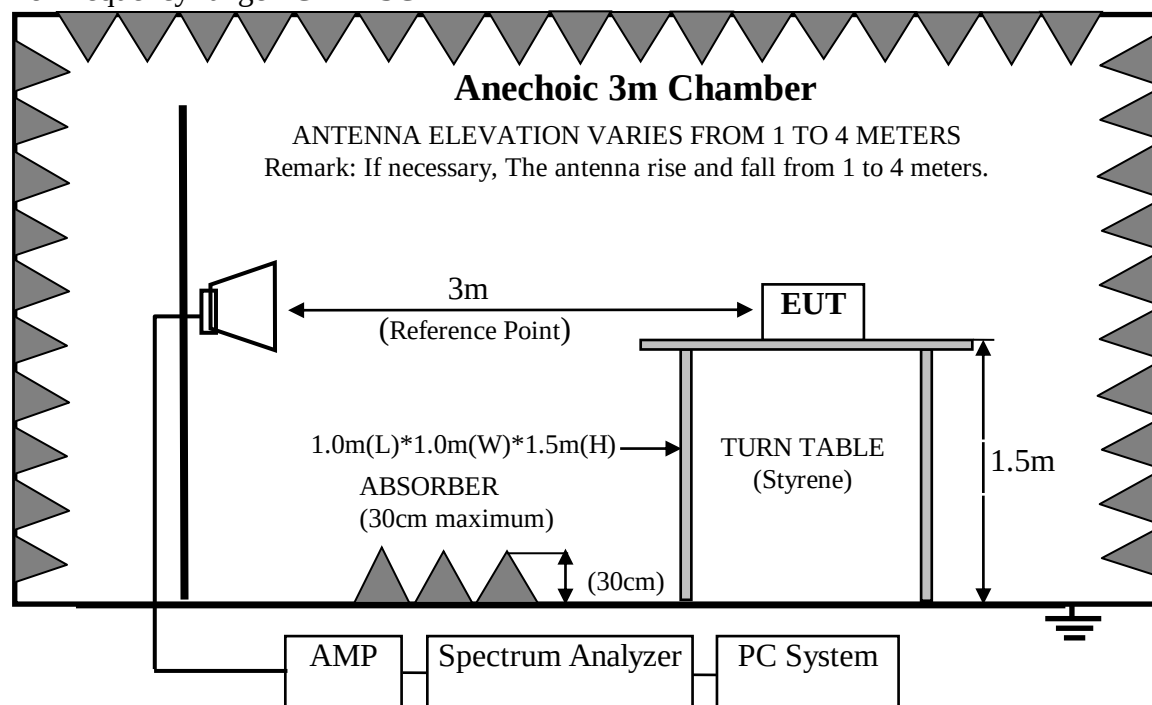
4. RADIATED EMISSION TEST

4.1. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.2. Radiated Emission Limit

15.247&209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.3. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and

let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2020 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

4.4. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note 1: Final Level= Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

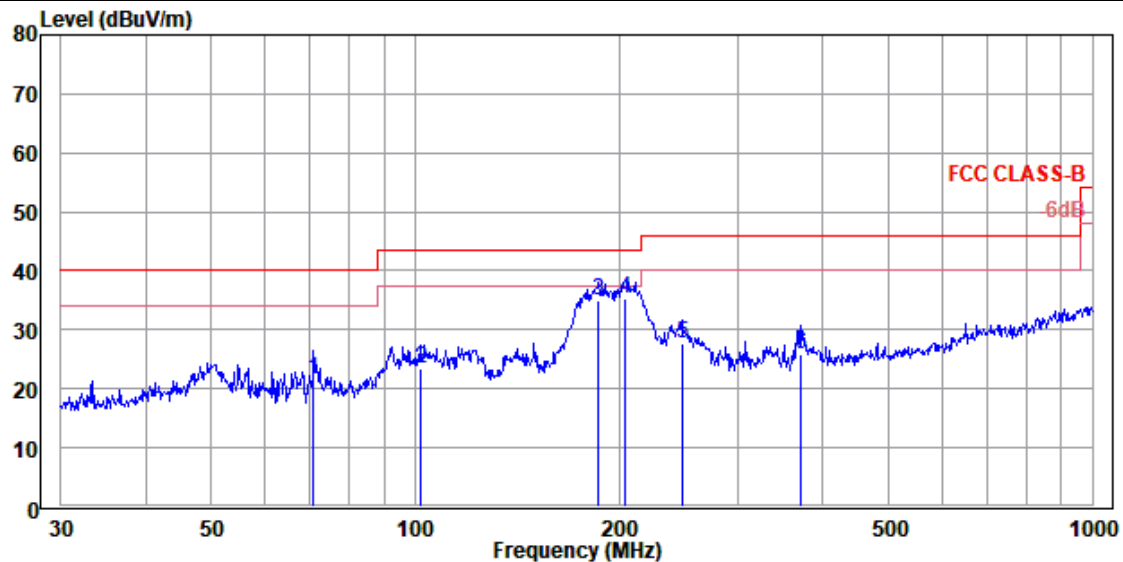
Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Note 3: The emission levels of other frequencies(test frequency bang is 1GHz to 25GHz) are very lower than the limit and not show in test report.

Frequency: 30MHz~1GHz

Model	S208F
Test Voltage:	120Vac 60Hz
Polarization:	Horizontal

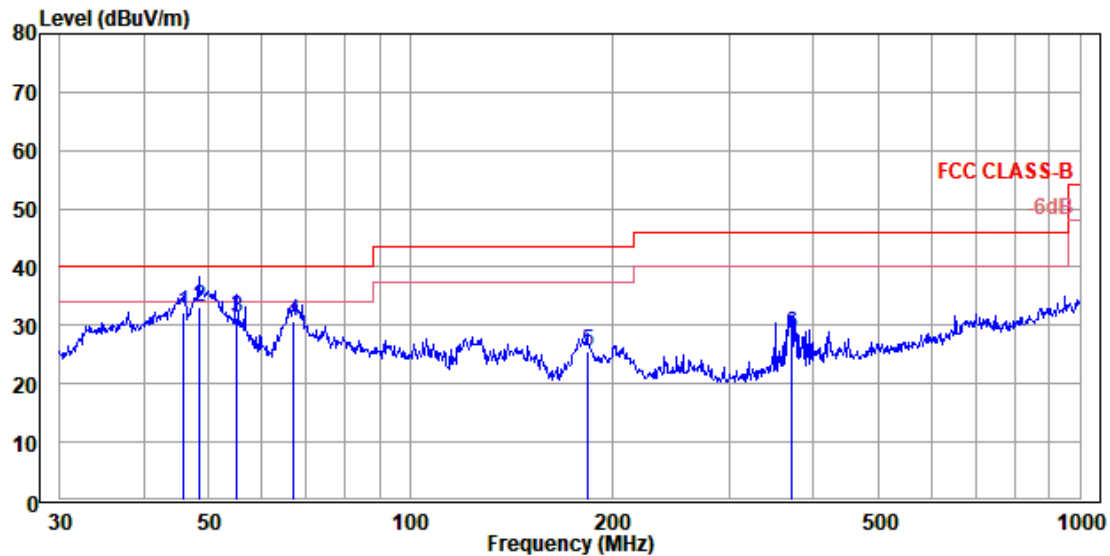
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	
1	70.832	21.50	6.10	15.40	40.00	-18.50	QP
2	101.644	23.51	5.76	17.75	43.50	-19.99	QP
3	186.441	34.98	18.02	16.96	43.50	-8.52	QP
4	204.238	35.24	17.03	18.21	43.50	-8.26	QP
5	247.682	27.61	8.18	19.43	46.00	-18.39	QP
6	370.702	25.84	3.24	22.60	46.00	-20.16	QP

Model	S208F
Test Voltage:	120Vac 60Hz
Polarization:	Vertical

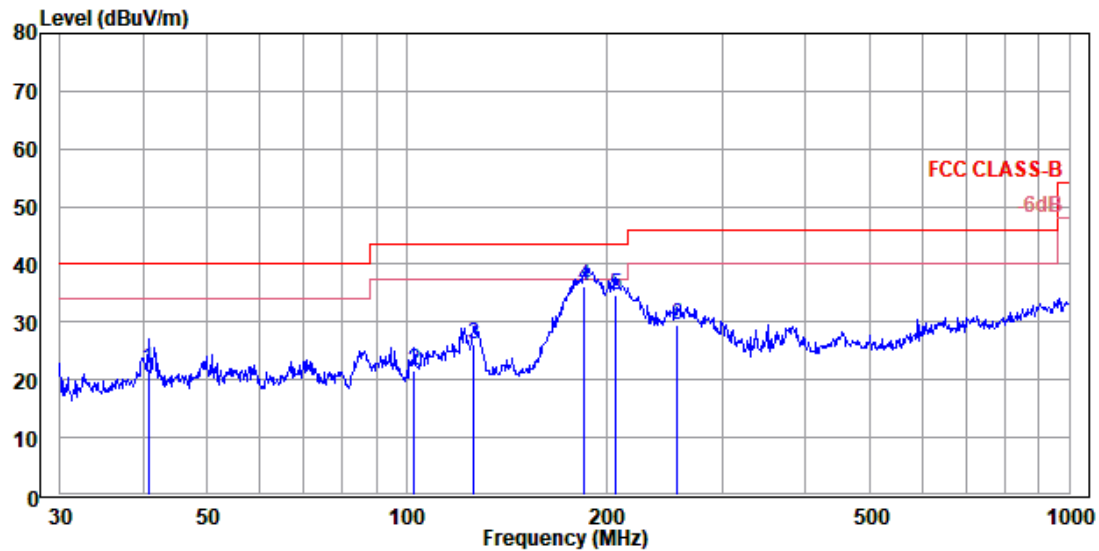
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	
1	45.855	32.12	12.47	19.65	40.00	-7.88	QP
2	48.332	33.25	13.45	19.80	40.00	-6.75	QP
3	55.027	31.30	11.88	19.42	40.00	-8.70	QP
4	66.967	30.68	13.71	16.97	40.00	-9.32	QP
5	183.844	25.63	8.96	16.67	43.50	-17.87	QP
6	370.702	28.72	6.12	22.60	46.00	-17.28	QP

Model	S109F
Test Voltage:	120Vac 60Hz
Polarization:	Horizontal

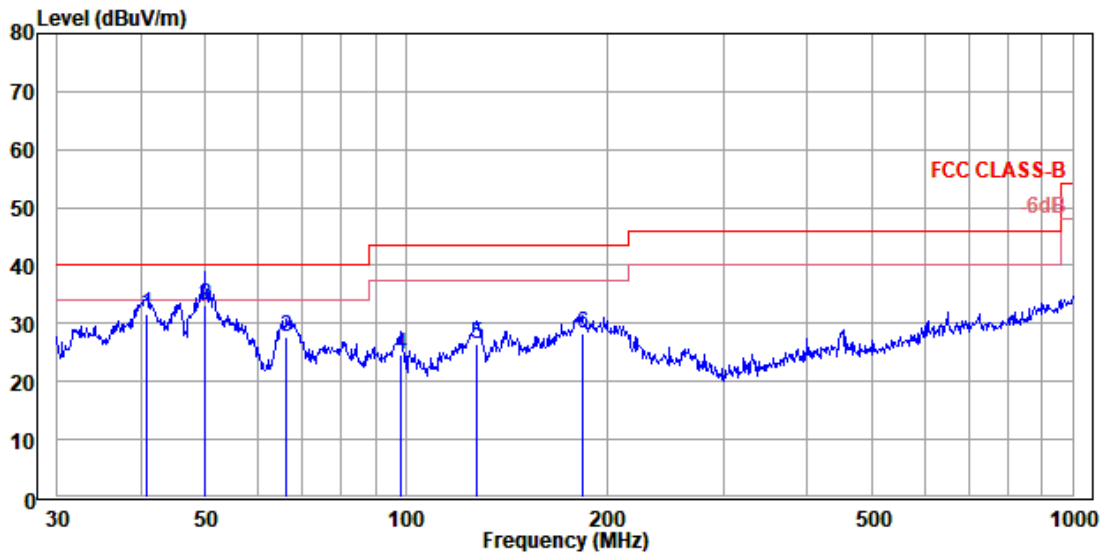
EUT operation mode: Transmitting in 802.11b mode low channel(worst case)



	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	
1	40.702	21.97	3.25	18.72	40.00	-18.03	QP
2	102.719	21.51	3.65	17.86	43.50	-21.99	QP
3	126.329	26.31	11.23	15.08	43.50	-17.19	QP
4	185.788	36.15	19.25	16.90	43.50	-7.35	QP
5	206.398	34.82	16.63	18.19	43.50	-8.68	QP
6	256.521	29.59	9.84	19.75	46.00	-16.41	QP

Model	S109F
Test Voltage:	120Vac 60Hz
Polarization:	Vertical

EUT operation mode: Transmitting in 802.11b mode low channel(worst case)

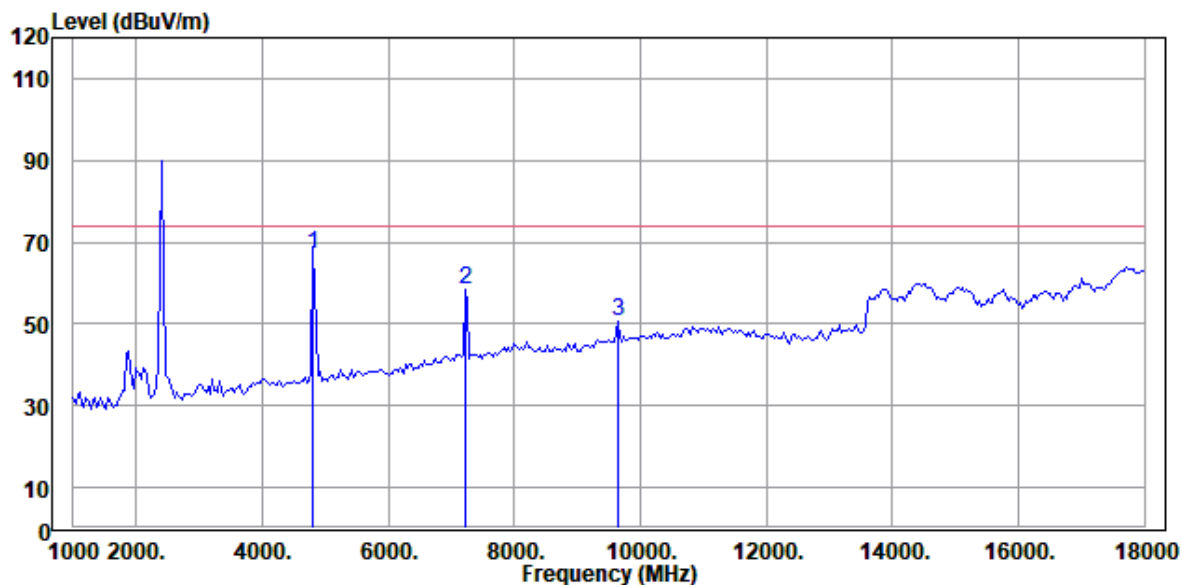


	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	
1	40.845	31.50	12.77	18.73	40.00	-8.50	QP
2	49.881	33.21	13.50	19.71	40.00	-6.79	QP
3	66.266	27.71	10.46	17.25	40.00	-12.29	QP
4	98.142	24.68	7.28	17.40	43.50	-18.82	QP
5	127.665	26.52	11.56	14.96	43.50	-16.98	QP
6	183.844	28.24	11.57	16.67	43.50	-15.26	QP

Frequency: 1GHz~18GHz

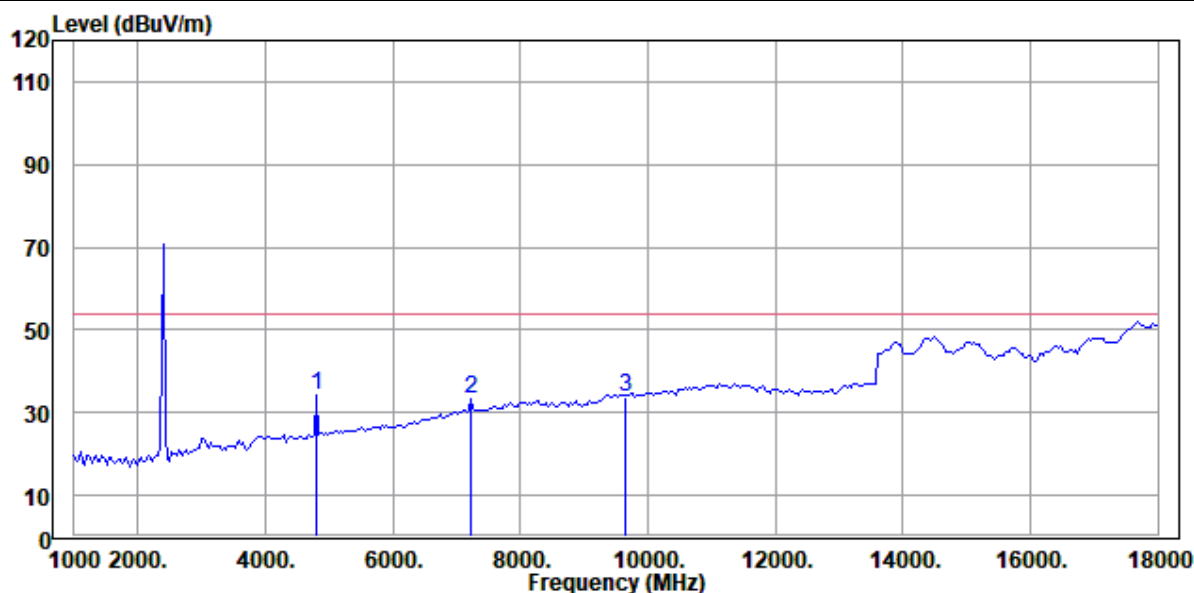
802.11b

CH01



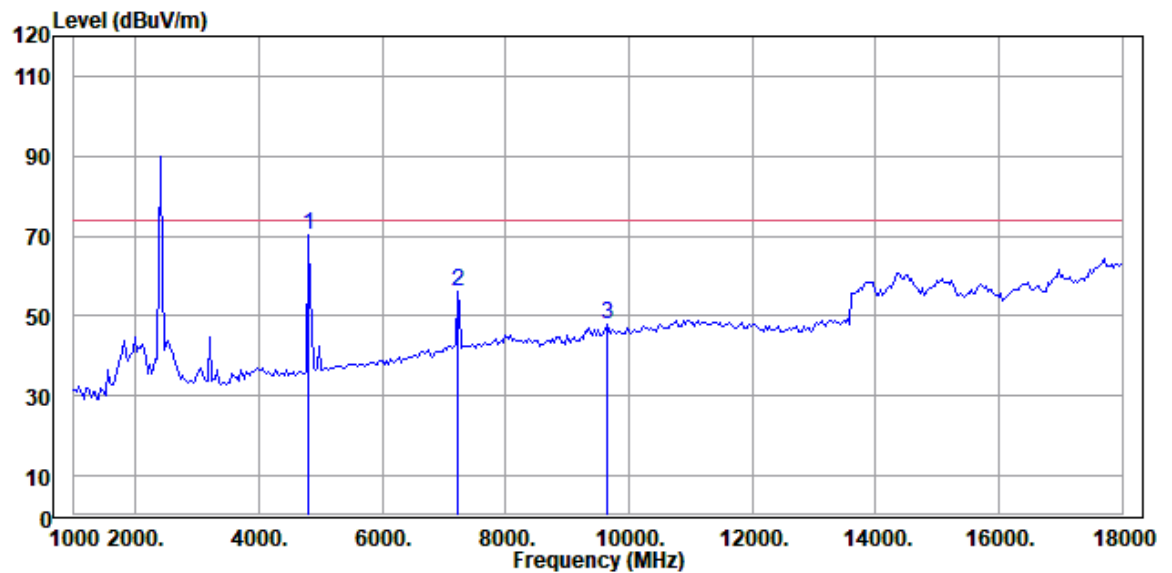
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4808.000	66.93	65.20	31.52	5.87	35.66	1.73	74.00	-7.07 Peak
2	7222.000	58.60	49.23	36.06	7.13	33.82	9.37	74.00	-15.40 Peak
3	9636.000	50.67	38.27	38.47	8.17	34.24	12.40	74.00	-23.33 Peak

Horizontal

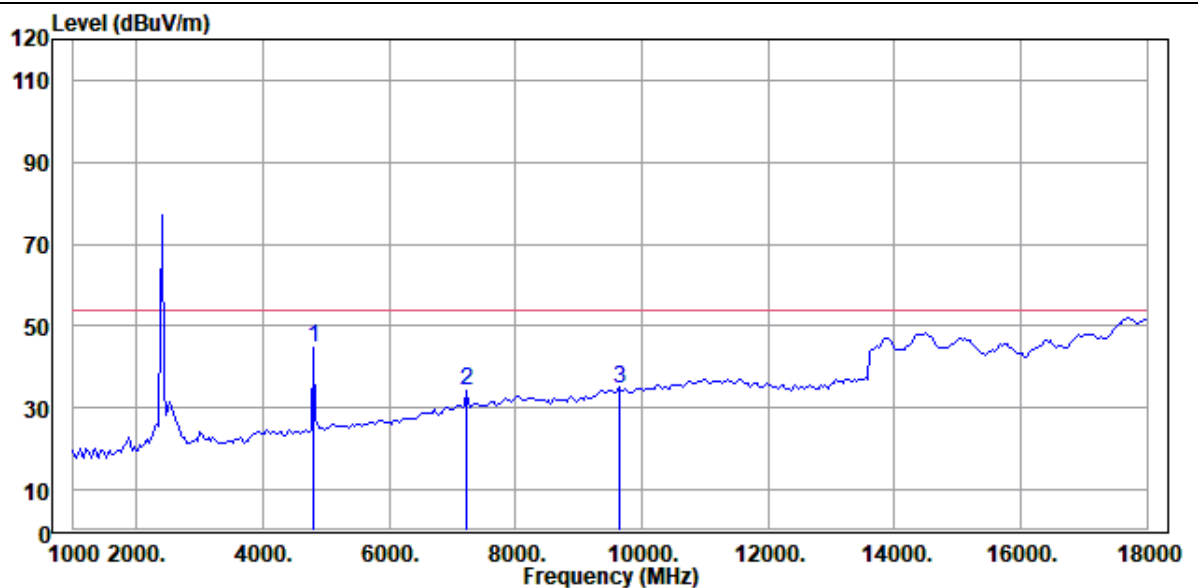


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	4808.000	34.24	32.51	31.52	5.87	35.66	1.73	54.00	-19.76 Average
2	7222.000	33.27	23.90	36.06	7.13	33.82	9.37	54.00	-20.73 Average
3	9636.000	33.78	21.38	38.47	8.17	34.24	12.40	54.00	-20.22 Average

Vertical



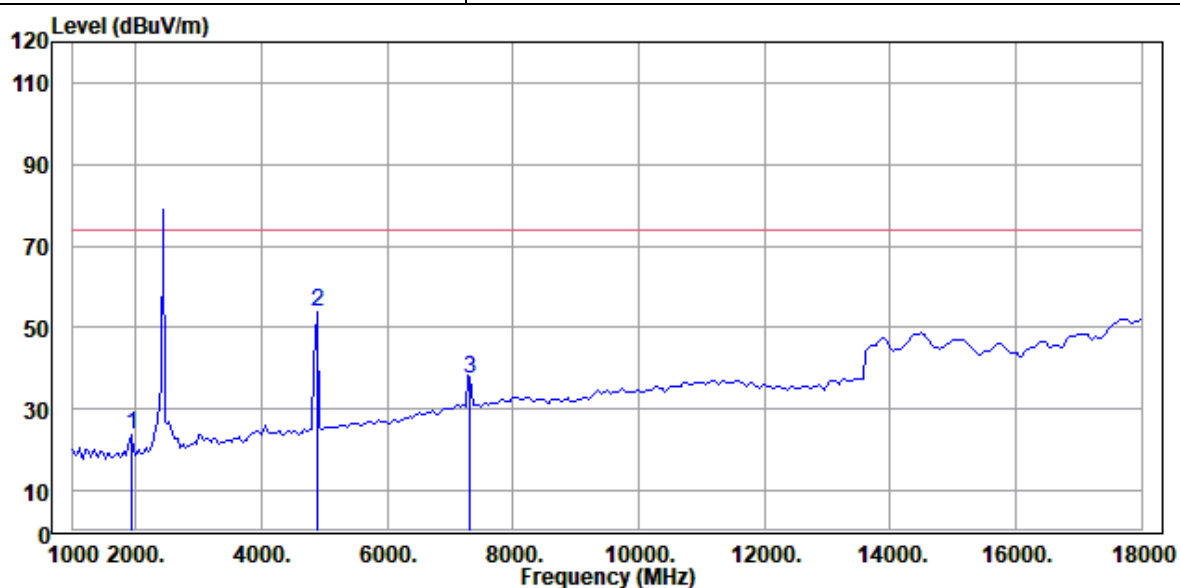
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	4808.000	70.49	68.76	31.52	5.87	35.66	1.73	74.00	-3.51	Peak
2	7222.000	56.33	46.96	36.06	7.13	33.82	9.37	74.00	-17.67	Peak
3	9636.000	48.07	35.67	38.47	8.17	34.24	12.40	74.00	-25.93	Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	4808.000	44.61	42.88	31.52	5.87	35.66	1.73	54.00	-9.39	Average
2	7222.000	34.39	25.02	36.06	7.13	33.82	9.37	54.00	-19.61	Average
3	9636.000	34.64	22.24	38.47	8.17	34.24	12.40	54.00	-19.36	Average

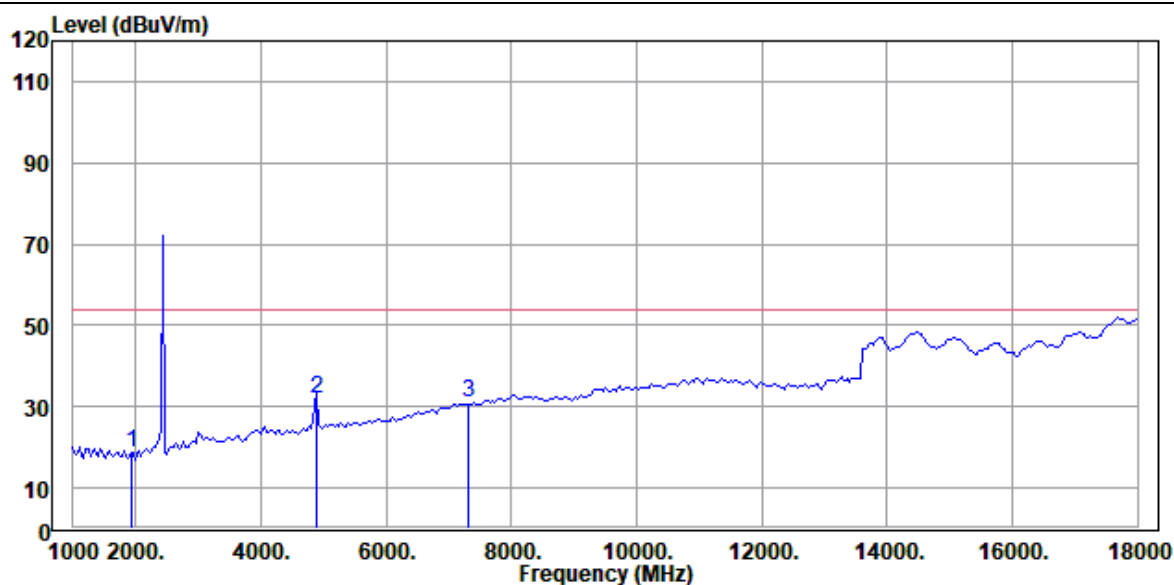
802.11b

CH06



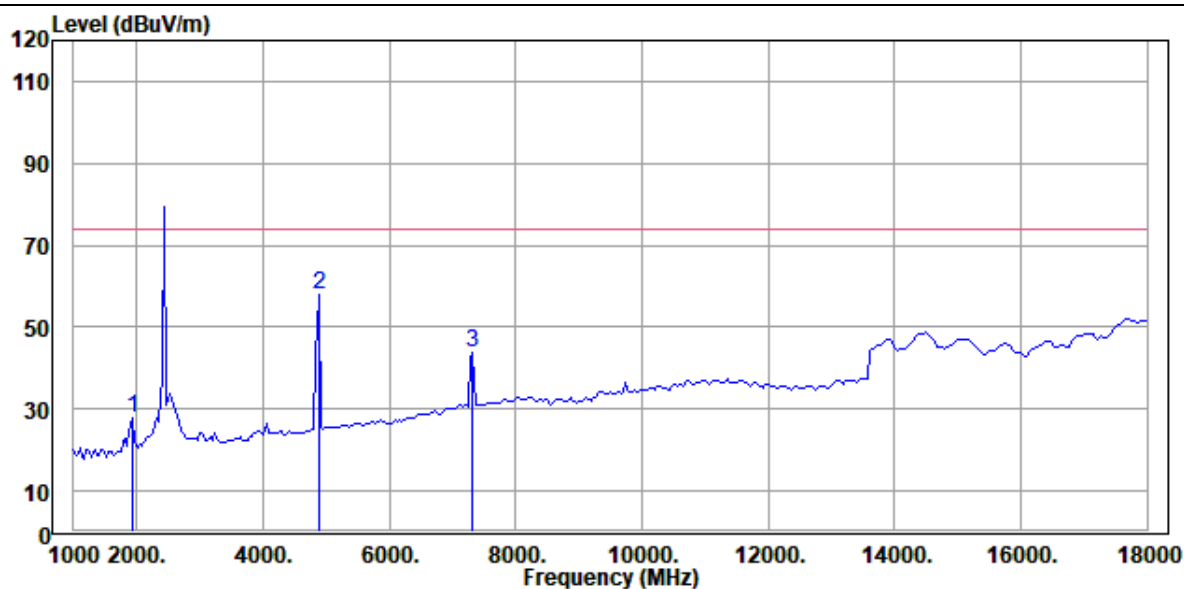
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1918.000	23.72	28.31	26.24	3.69	34.52	-4.59	74.00	-50.28 Peak
2	4876.000	54.06	52.24	31.55	5.91	35.64	1.82	74.00	-19.94 Peak
3	7324.000	37.43	27.84	36.25	7.17	33.83	9.59	74.00	-36.57 Peak

Horizontal

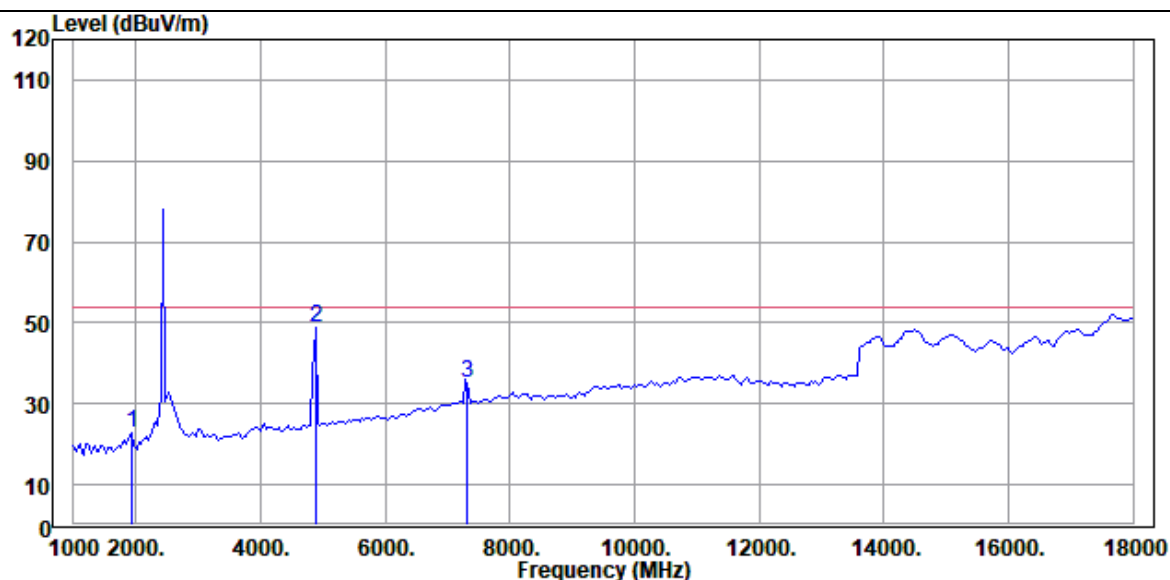


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1918.000	18.67	23.26	26.24	3.69	34.52	-4.59	54.00	-35.33 Average
2	4876.000	32.09	30.27	31.55	5.91	35.64	1.82	54.00	-21.91 Average
3	7324.000	30.85	21.26	36.25	7.17	33.83	9.59	54.00	-23.15 Average

Vertical



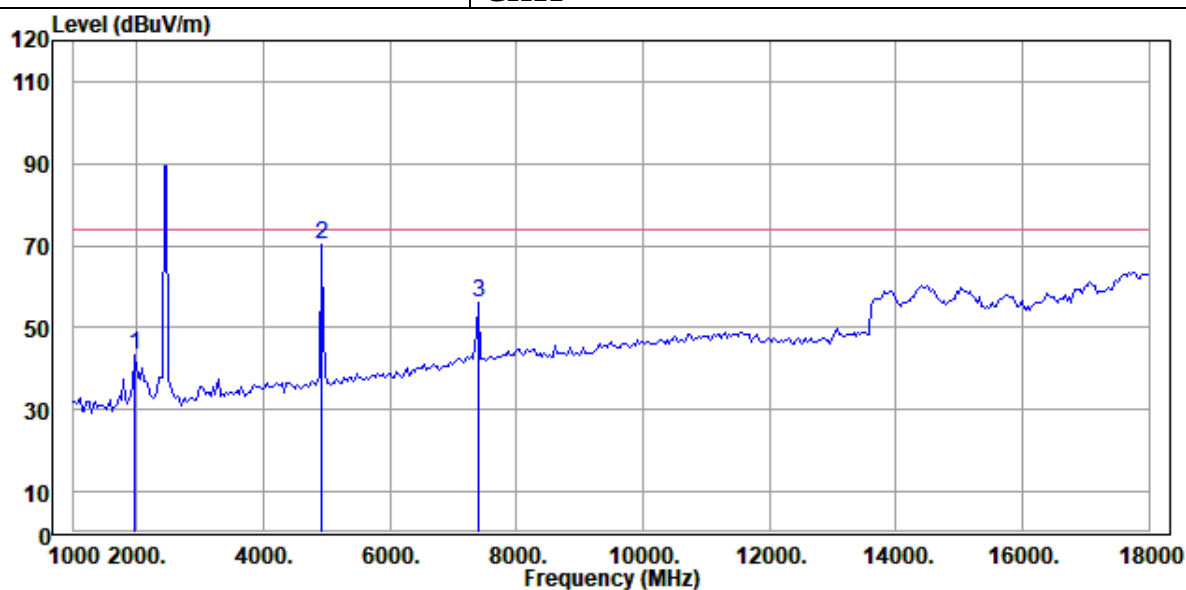
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBUV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	1918.000	27.74	32.33	26.24	3.69	34.52	-4.59	74.00	-46.26	Peak
2	4876.000	58.17	56.35	31.55	5.91	35.64	1.82	74.00	-15.83	Peak
3	7324.000	43.77	34.18	36.25	7.17	33.83	9.59	74.00	-30.23	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBUV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	1918.000	22.63	27.22	26.24	3.69	34.52	-4.59	54.00	-31.37	Average
2	4876.000	49.03	47.21	31.55	5.91	35.64	1.82	54.00	-4.97	Average
3	7324.000	35.27	25.68	36.25	7.17	33.83	9.59	54.00	-18.73	Average

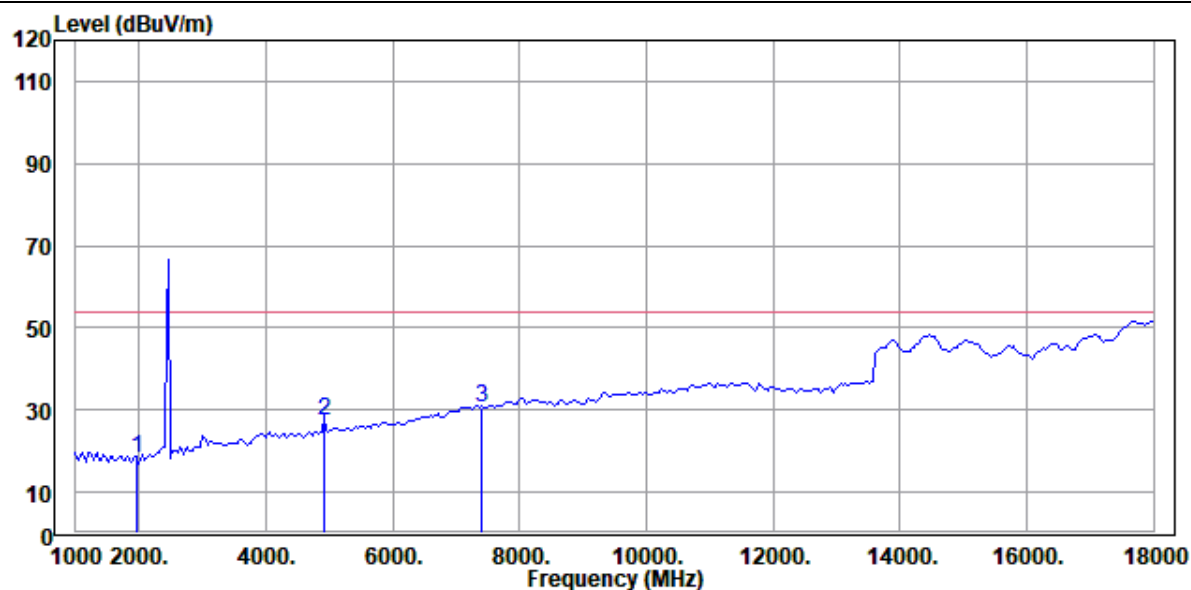
802.11b

CH11



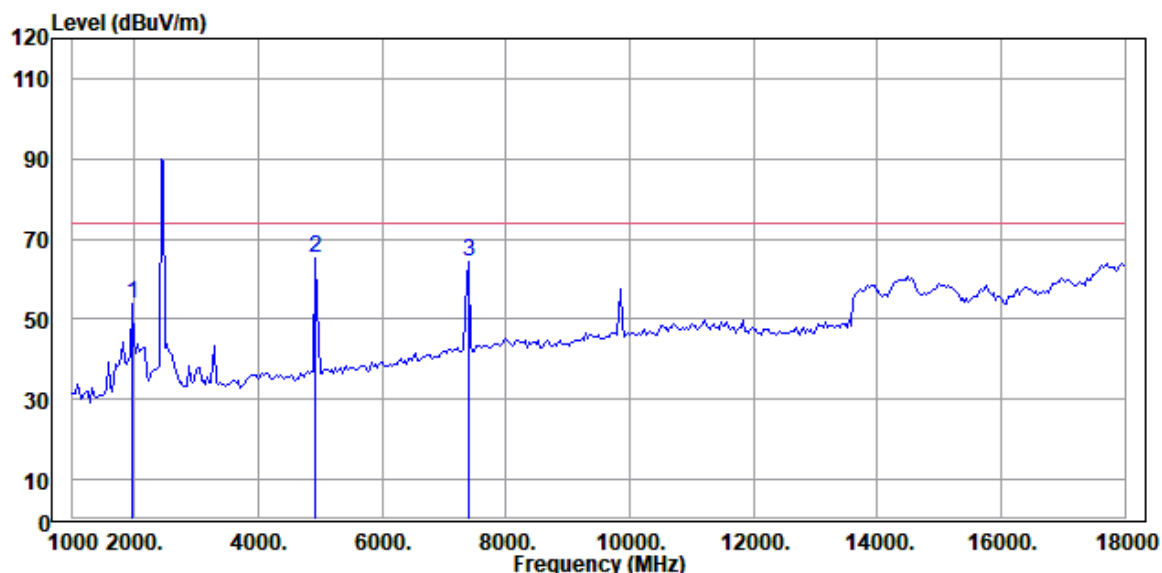
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1952.000	43.46	47.94	26.30	3.73	34.51	-4.48	74.00	-30.54 Peak
2	4910.000	70.07	68.21	31.56	5.93	35.63	1.86	74.00	-3.93 Peak
3	7392.000	56.21	46.48	36.37	7.20	33.84	9.73	74.00	-17.79 Peak

Horizontal

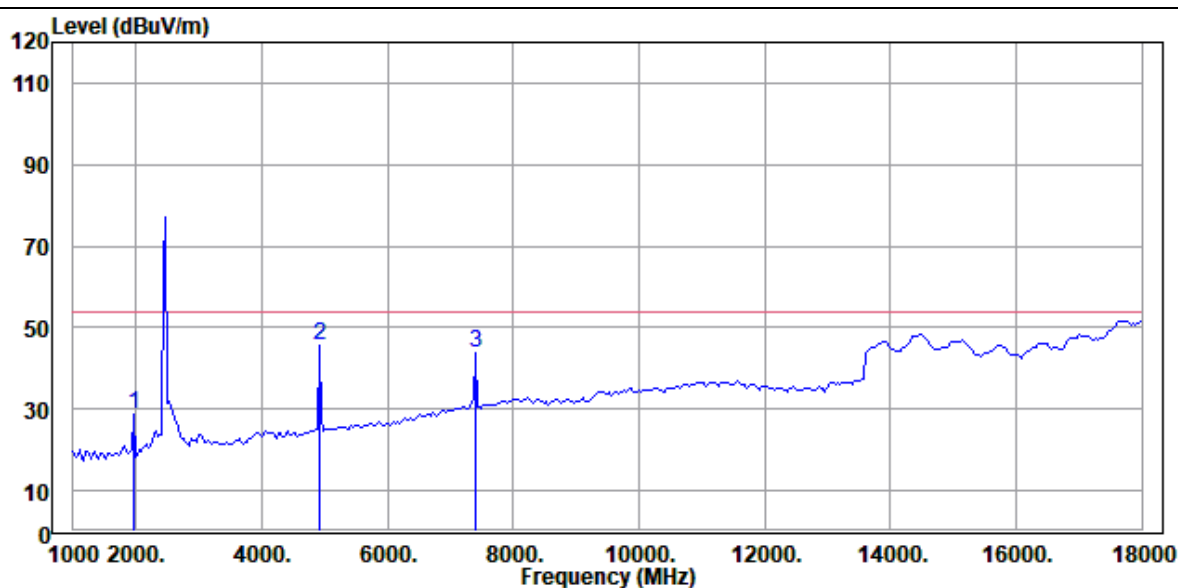


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1952.000	18.30	22.78	26.30	3.73	34.51	-4.48	54.00	-35.70 Average
2	4910.000	27.52	25.66	31.56	5.93	35.63	1.86	54.00	-26.48 Average
3	7392.000	30.60	20.87	36.37	7.20	33.84	9.73	54.00	-23.40 Average

Vertical



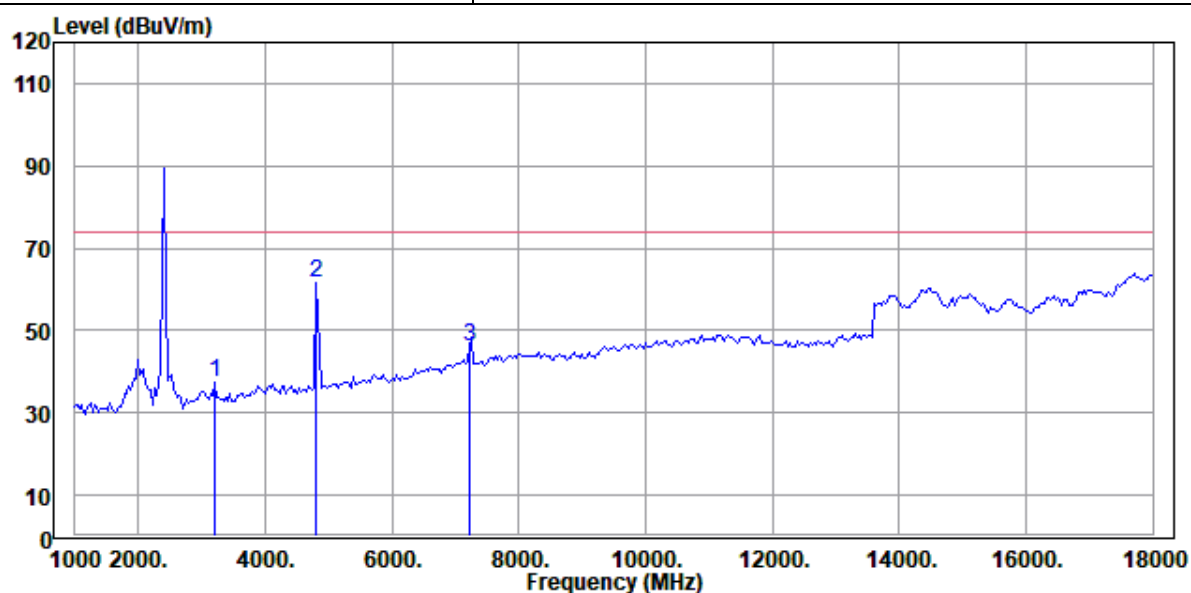
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1952.000	53.82	58.30	26.30	3.73	34.51	-4.48	74.00	-20.18 Peak
2	4910.000	65.03	63.17	31.56	5.93	35.63	1.86	74.00	-8.97 Peak
3	7392.000	64.45	54.72	36.37	7.20	33.84	9.73	74.00	-9.55 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1952.000	28.70	33.18	26.30	3.73	34.51	-4.48	54.00	-25.30 Average
2	4910.000	45.42	43.56	31.56	5.93	35.63	1.86	54.00	-8.58 Average
3	7392.000	43.99	34.26	36.37	7.20	33.84	9.73	54.00	-10.01 Average

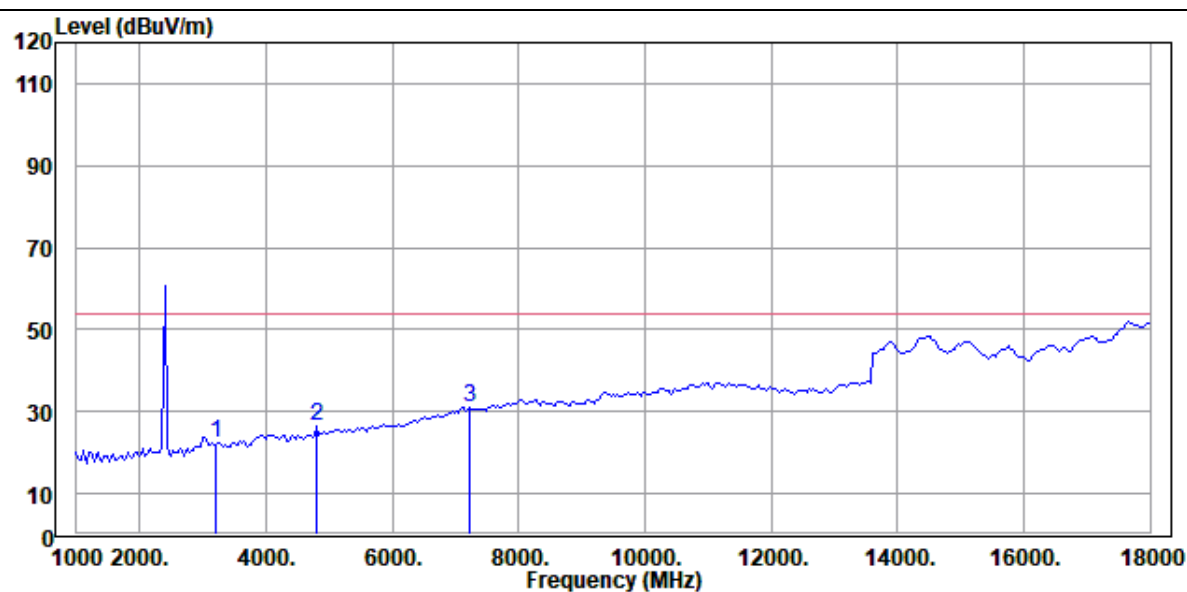
802.11g

CH01



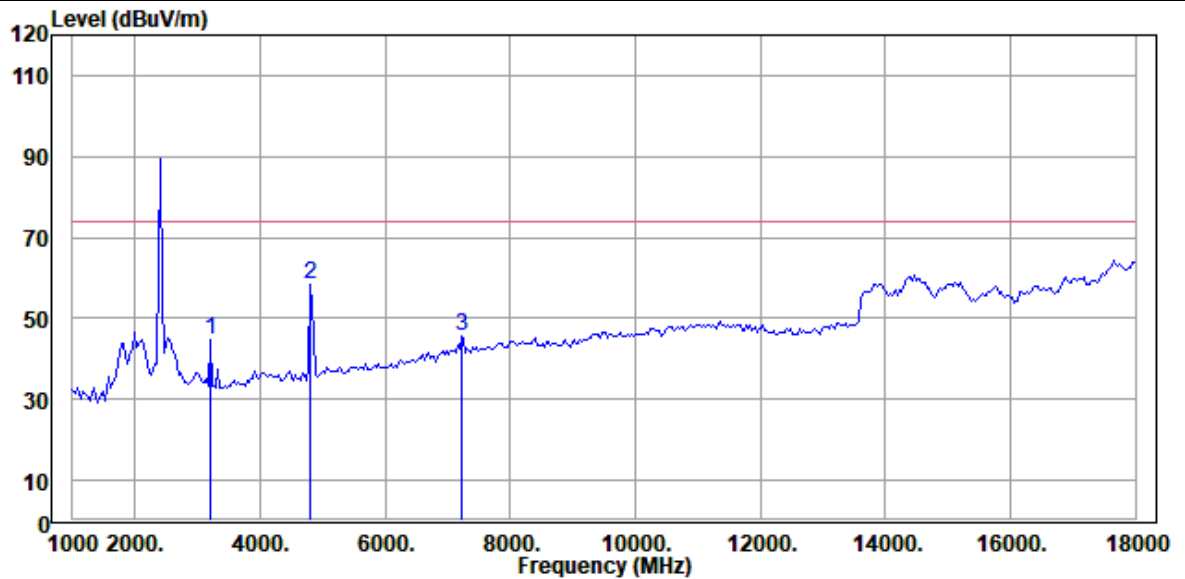
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3210.000	37.41	40.67	28.52	4.75	36.53	-3.26	74.00	-36.59 Peak
2	4808.000	61.39	59.66	31.52	5.87	35.66	1.73	74.00	-12.61 Peak
3	7222.000	46.27	36.90	36.06	7.13	33.82	9.37	74.00	-27.73 Peak

Horizontal

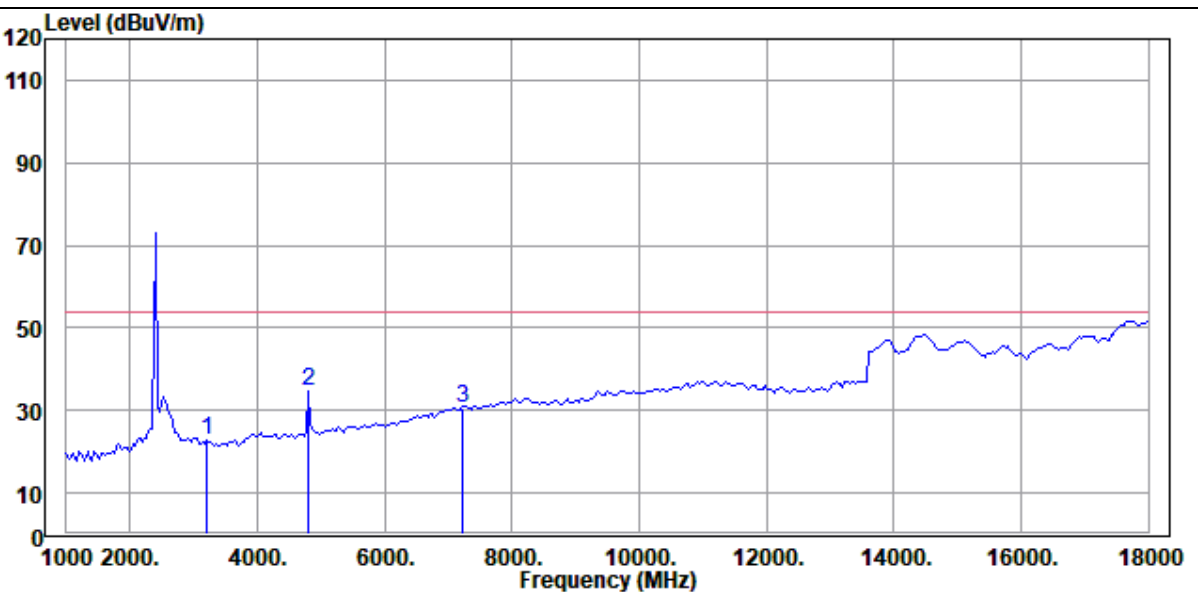


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3210.000	22.51	25.77	28.52	4.75	36.53	-3.26	54.00	-31.49 Average
2	4808.000	26.33	24.60	31.52	5.87	35.66	1.73	54.00	-27.67 Average
3	7222.000	30.82	21.45	36.06	7.13	33.82	9.37	54.00	-23.18 Average

Vertical



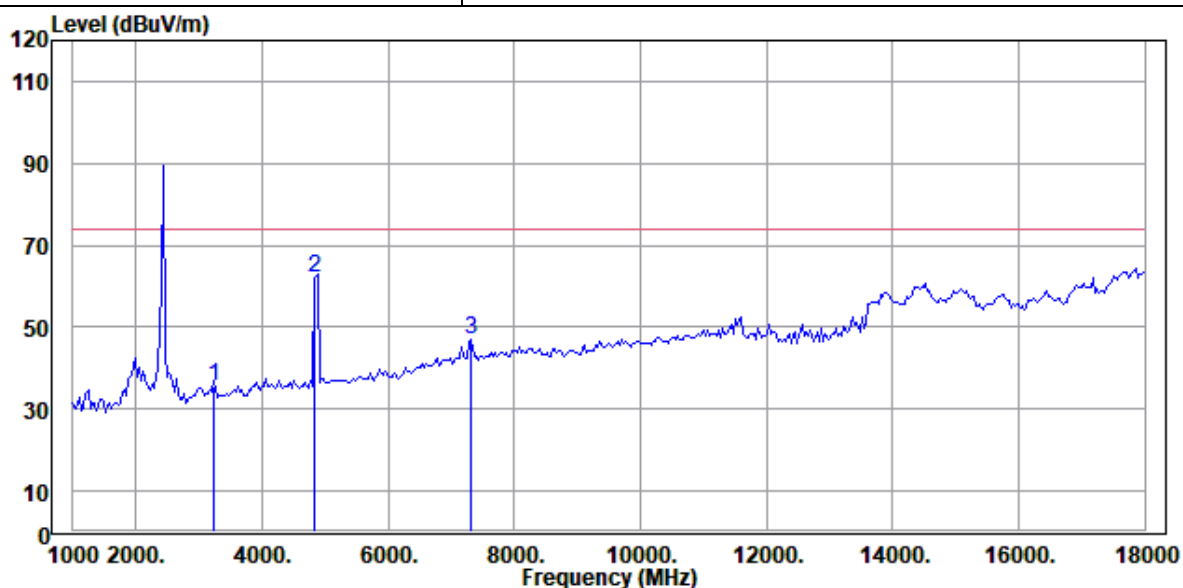
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3210.000	44.65	47.91	28.52	4.75	36.53	-3.26	74.00	-29.35 Peak
2	4808.000	58.39	56.66	31.52	5.87	35.66	1.73	74.00	-15.61 Peak
3	7222.000	45.80	36.43	36.06	7.13	33.82	9.37	74.00	-28.20 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3210.000	22.71	25.97	28.52	4.75	36.53	-3.26	54.00	-31.29 Average
2	4808.000	34.46	32.73	31.52	5.87	35.66	1.73	54.00	-19.54 Average
3	7222.000	30.56	21.19	36.06	7.13	33.82	9.37	54.00	-23.44 Average

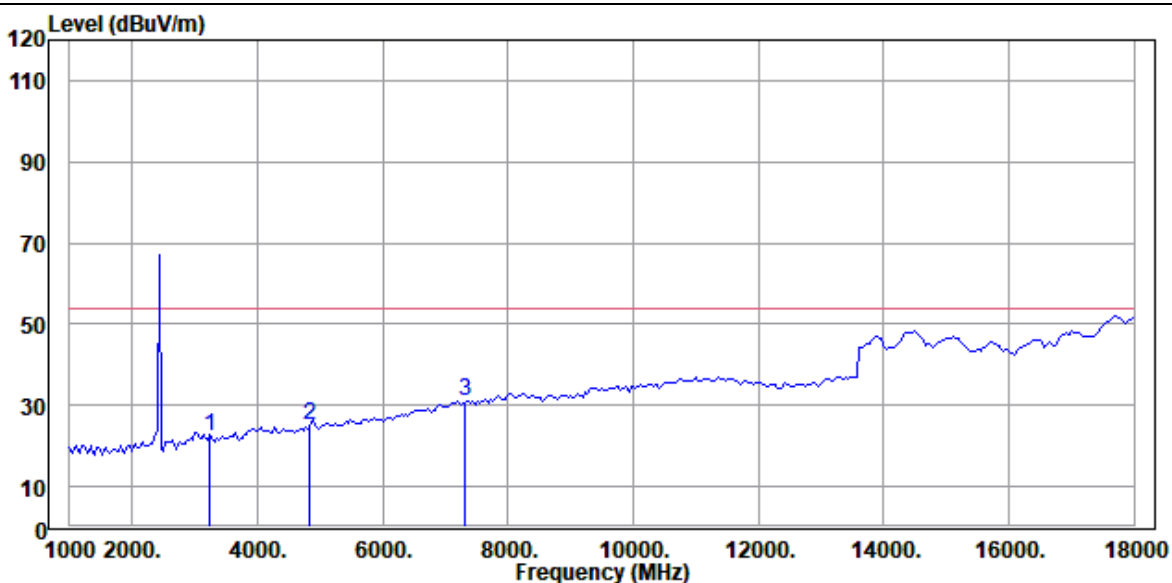
802.11g

CH06



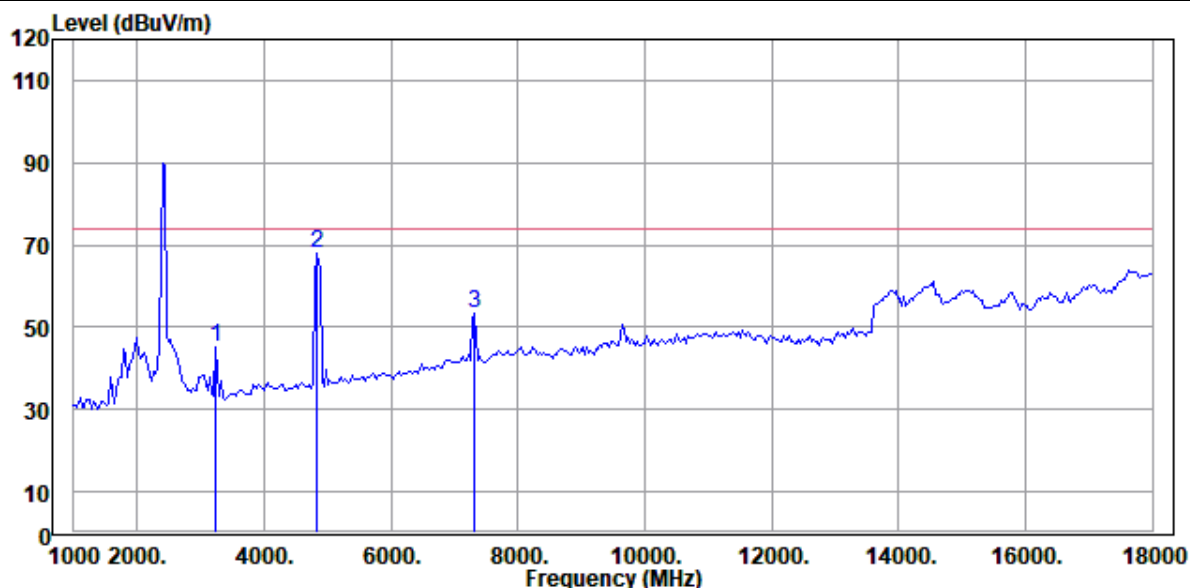
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3244.000	35.42	38.55	28.59	4.78	36.50	-3.13	74.00	-38.58 Peak
2	4842.000	61.97	60.15	31.58	5.89	35.65	1.82	74.00	-12.03 Peak
3	7324.000	47.06	37.47	36.25	7.17	33.83	9.59	74.00	-26.94 Peak

Horizontal

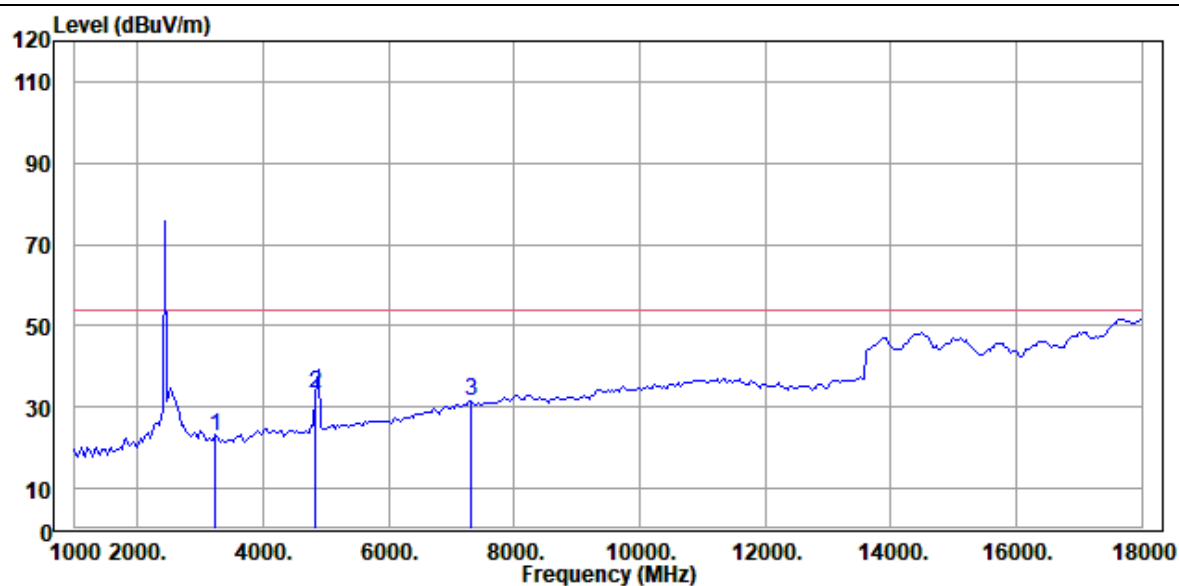


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3244.000	22.26	25.39	28.59	4.78	36.50	-3.13	54.00	-31.74 Average
2	4842.000	24.92	23.10	31.58	5.89	35.65	1.82	54.00	-29.08 Average
3	7324.000	30.96	21.37	36.25	7.17	33.83	9.59	54.00	-23.04 Average

Vertical



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	3244.000	45.02	48.15	28.59	4.78	36.50	-3.13	74.00	-28.98	Peak
2	4842.000	67.79	65.97	31.58	5.89	35.65	1.82	74.00	-6.21	Peak
3	7324.000	53.55	43.96	36.25	7.17	33.83	9.59	74.00	-20.45	Peak

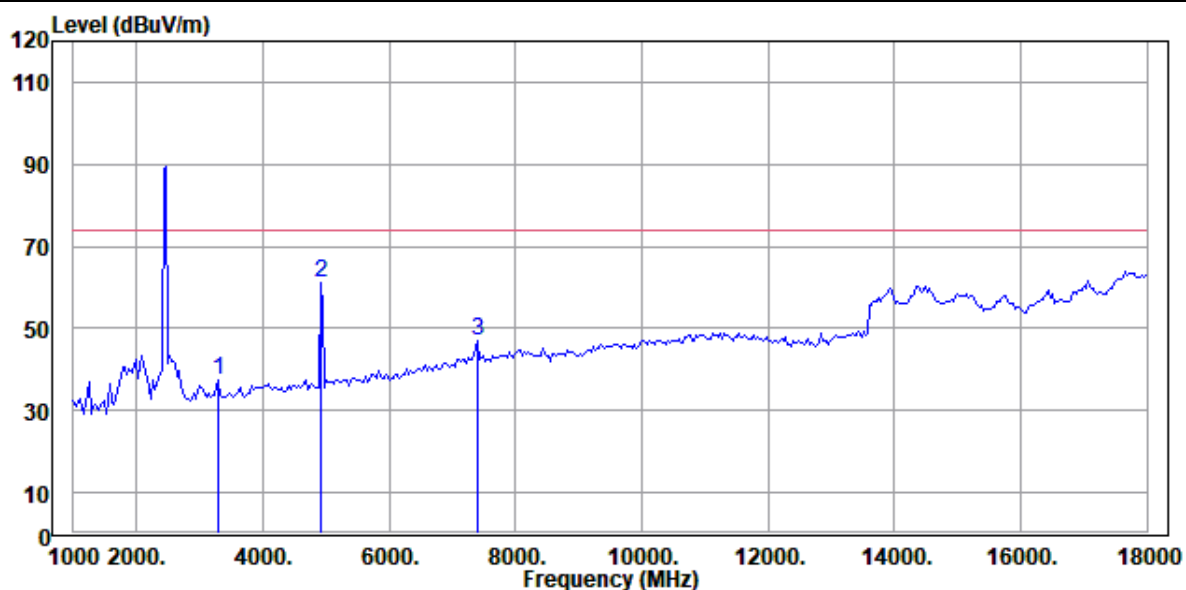


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	3244.000	22.63	25.76	28.59	4.78	36.50	-3.13	54.00	-31.37	Average
2	4842.000	33.44	31.62	31.58	5.89	35.65	1.82	54.00	-20.56	Average
3	7324.000	31.35	21.76	36.25	7.17	33.83	9.59	54.00	-22.65	Average

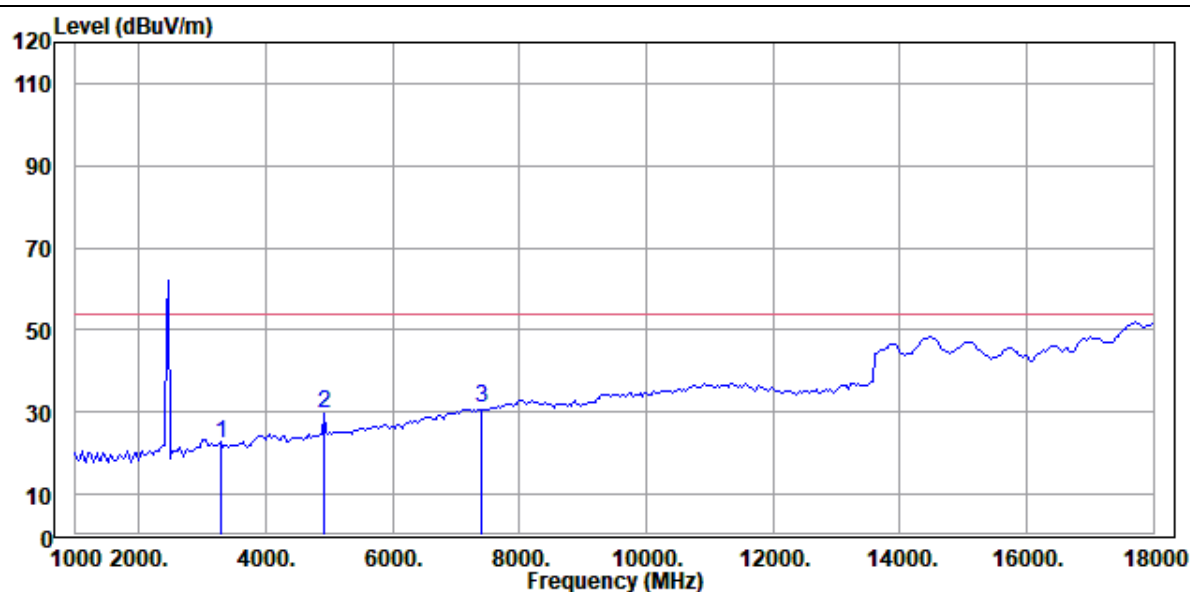
802.11g

CH11

Horizontal

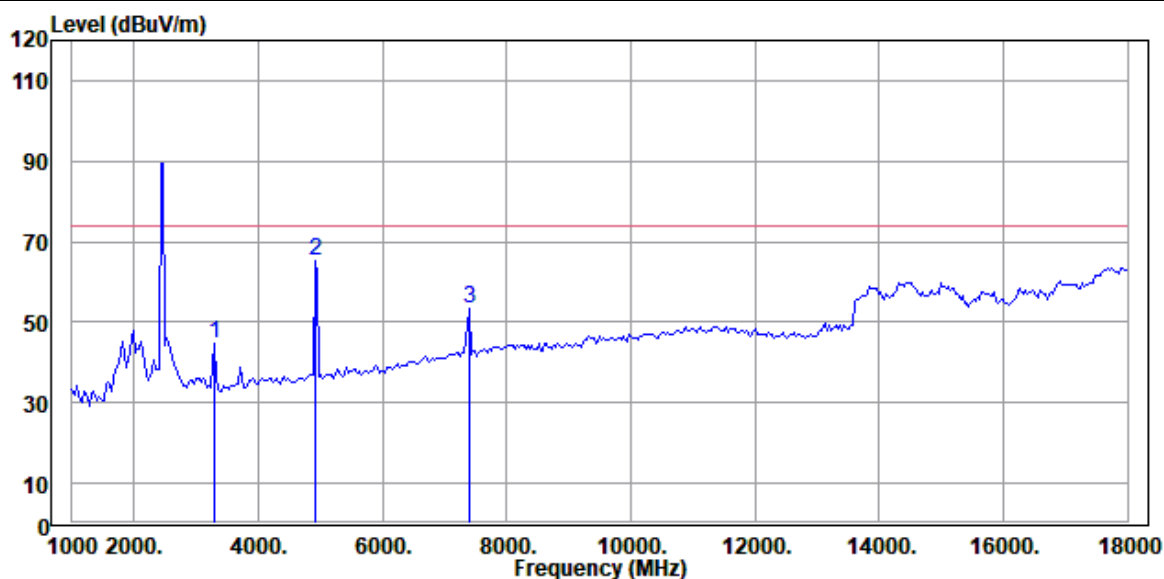


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3278.000	37.38	40.57	28.49	4.80	36.48	-3.19	74.00	-36.62 Peak
2	4910.000	61.14	59.28	31.56	5.93	35.63	1.86	74.00	-12.86 Peak
3	7392.000	46.88	37.15	36.37	7.20	33.84	9.73	74.00	-27.12 Peak

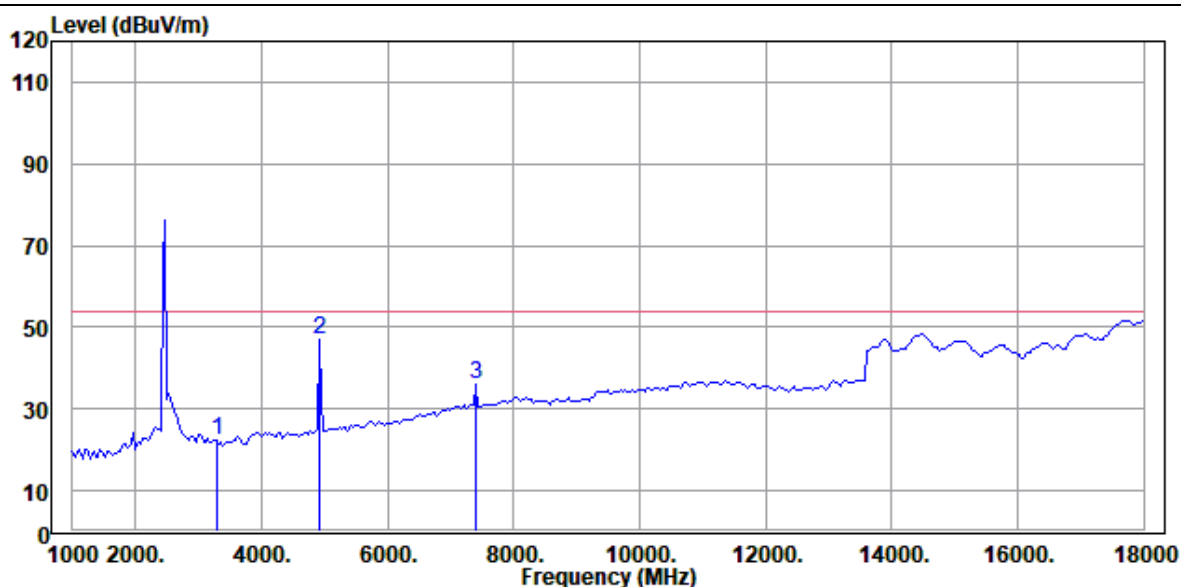


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3278.000	22.31	25.50	28.49	4.80	36.48	-3.19	54.00	-31.69 Average
2	4910.000	29.75	27.89	31.56	5.93	35.63	1.86	54.00	-24.25 Average
3	7392.000	30.92	21.19	36.37	7.20	33.84	9.73	54.00	-23.08 Average

Vertical



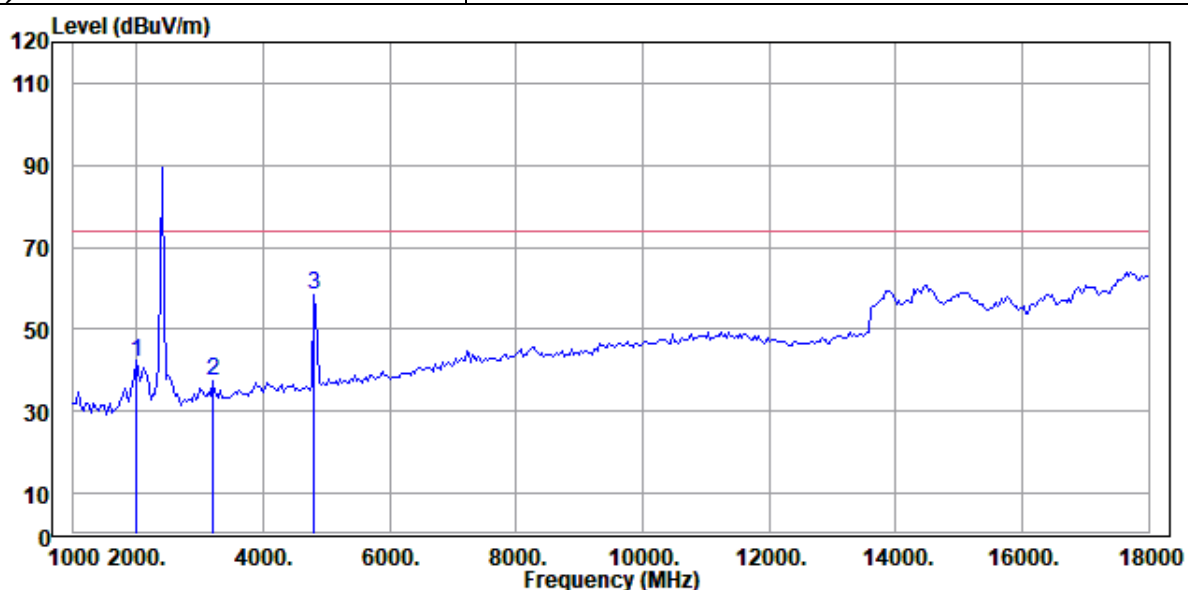
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3278.000	44.77	47.96	28.49	4.80	36.48	-3.19	74.00	-29.23 Peak
2	4910.000	65.44	63.58	31.56	5.93	35.63	1.86	74.00	-8.56 Peak
3	7392.000	53.40	43.67	36.37	7.20	33.84	9.73	74.00	-20.60 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3278.000	22.38	25.57	28.49	4.80	36.48	-3.19	54.00	-31.62 Average
2	4910.000	47.06	45.20	31.56	5.93	35.63	1.86	54.00	-6.94 Average
3	7392.000	36.04	26.31	36.37	7.20	33.84	9.73	54.00	-17.96 Average

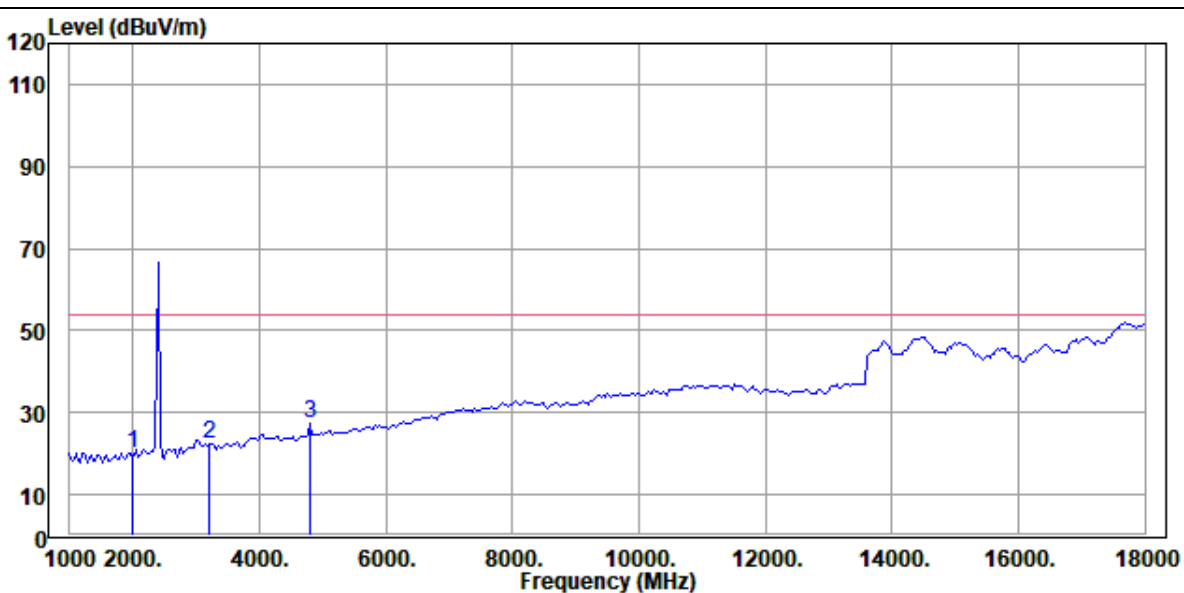
802.11n(HT20)

CH01



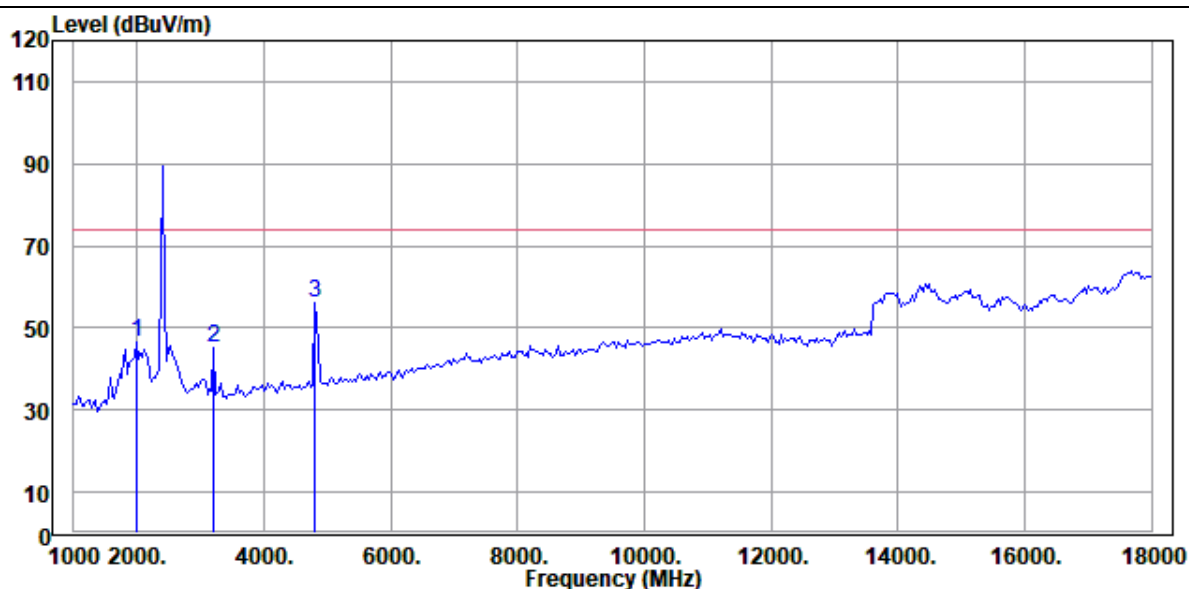
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1986.000	41.90	46.27	26.37	3.76	34.50	74.00	-32.10	Peak
2	3210.000	37.29	40.55	28.52	4.75	36.53	74.00	-36.71	Peak
3	4808.000	58.51	56.78	31.52	5.87	35.66	74.00	-15.49	Peak

Horizontal

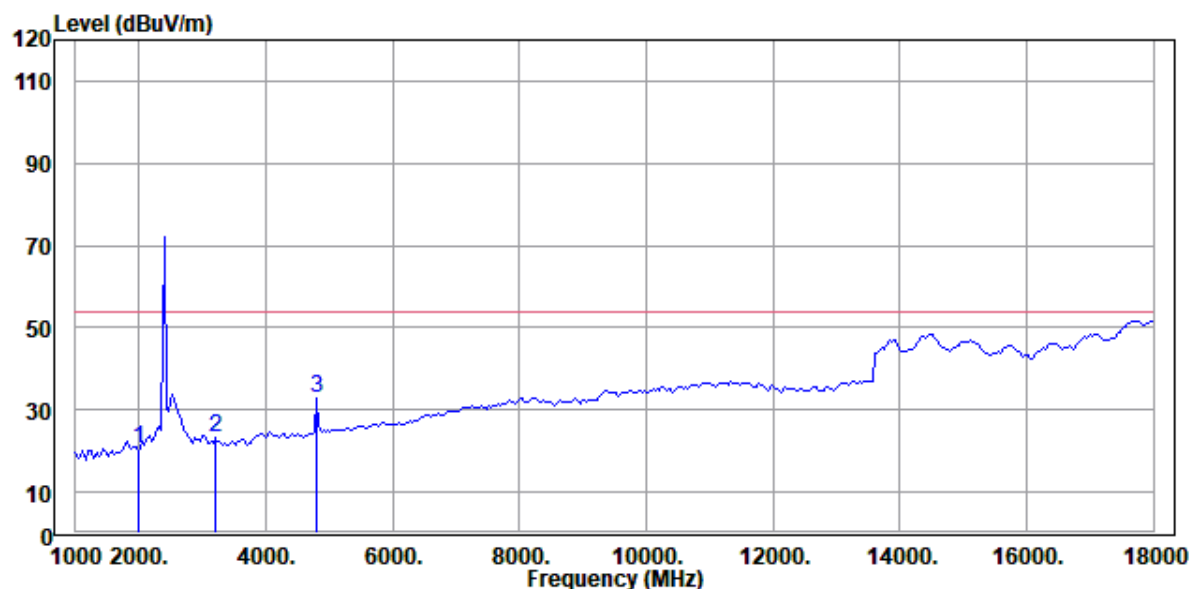


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1986.000	19.99	24.36	26.37	3.76	34.50	54.00	-34.01	Average
2	3210.000	22.27	25.53	28.52	4.75	36.53	54.00	-31.73	Average
3	4808.000	27.57	25.84	31.52	5.87	35.66	54.00	-26.43	Average

Vertical



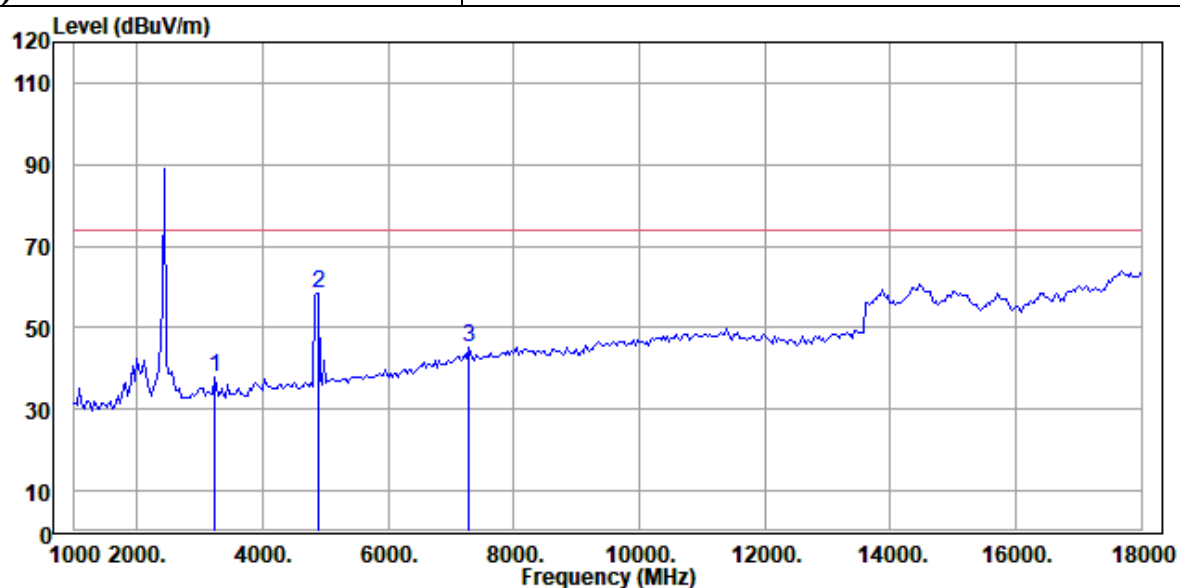
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1986.000	46.64	51.01	26.37	3.76	34.50	-4.37	74.00	-27.36 Peak
2	3210.000	45.05	48.31	28.52	4.75	36.53	-3.26	74.00	-28.95 Peak
3	4808.000	56.25	54.52	31.52	5.87	35.66	1.73	74.00	-17.75 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1986.000	20.39	24.76	26.37	3.76	34.50	-4.37	54.00	-33.61 Average
2	3210.000	23.20	26.46	28.52	4.75	36.53	-3.26	54.00	-30.80 Average
3	4808.000	32.83	31.10	31.52	5.87	35.66	1.73	54.00	-21.17 Average

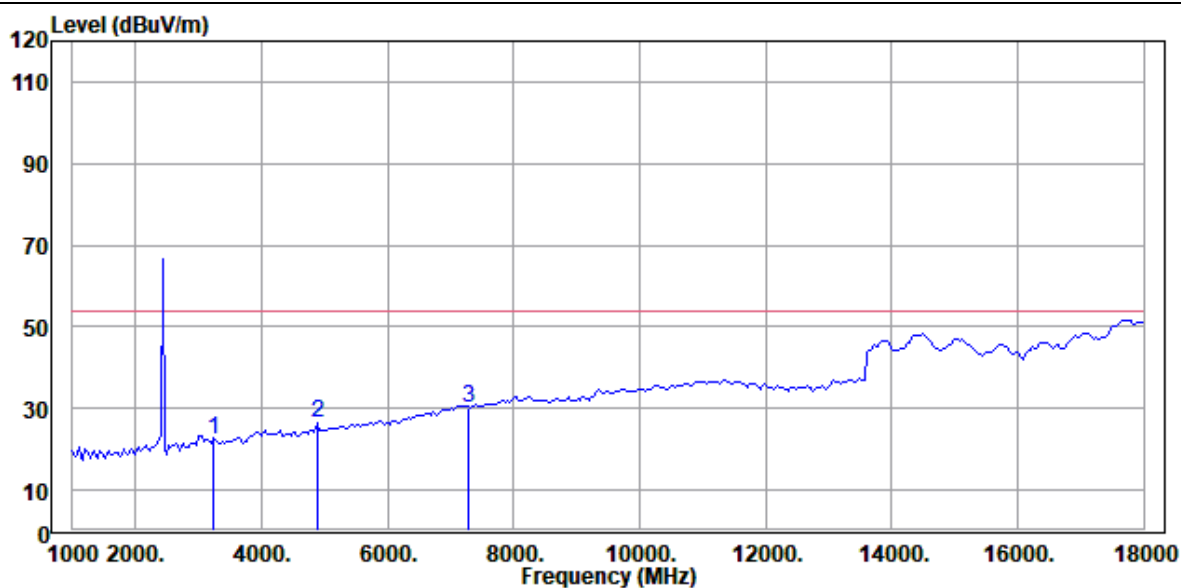
802.11n(HT20)

CH06



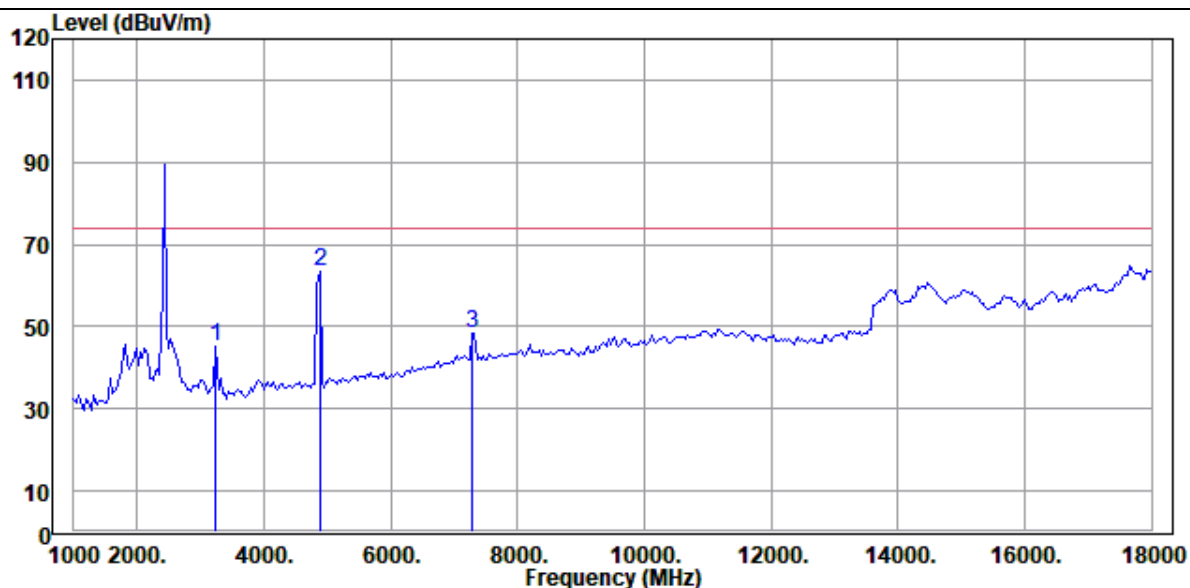
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3244.000	37.66	40.79	28.59	4.78	36.50	-3.13	74.00	-36.34 Peak
2	4876.000	58.53	56.71	31.55	5.91	35.64	1.82	74.00	-15.47 Peak
3	7290.000	45.15	35.58	36.24	7.16	33.83	9.57	74.00	-28.85 Peak

Horizontal

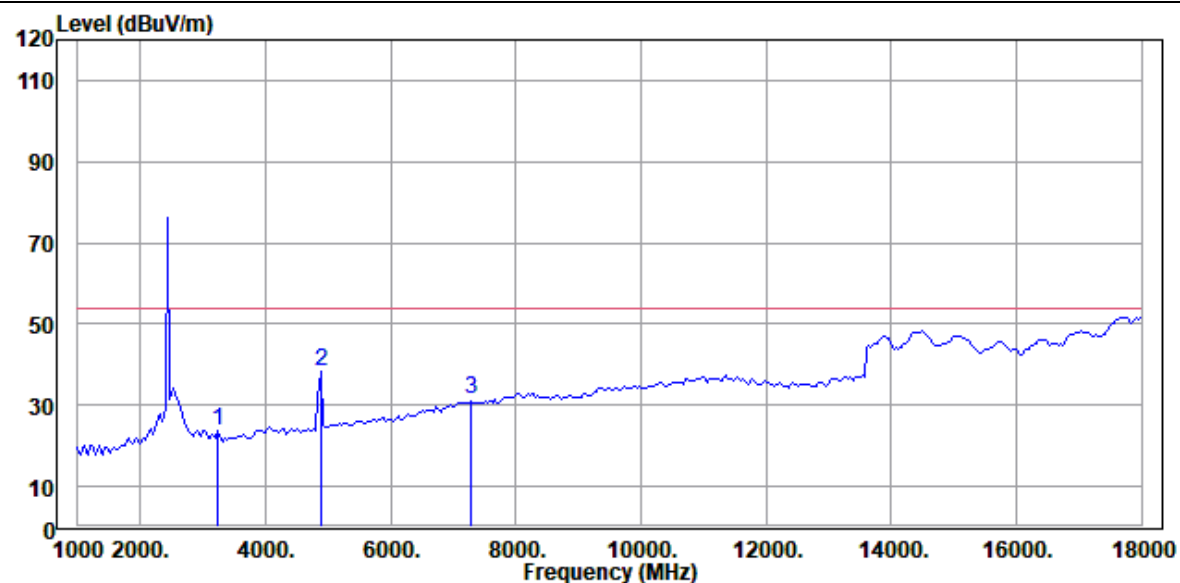


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3244.000	22.34	25.47	28.59	4.78	36.50	-3.13	54.00	-31.66 Average
2	4876.000	26.65	24.83	31.55	5.91	35.64	1.82	54.00	-27.35 Average
3	7290.000	30.19	20.62	36.24	7.16	33.83	9.57	54.00	-23.81 Average

Vertical



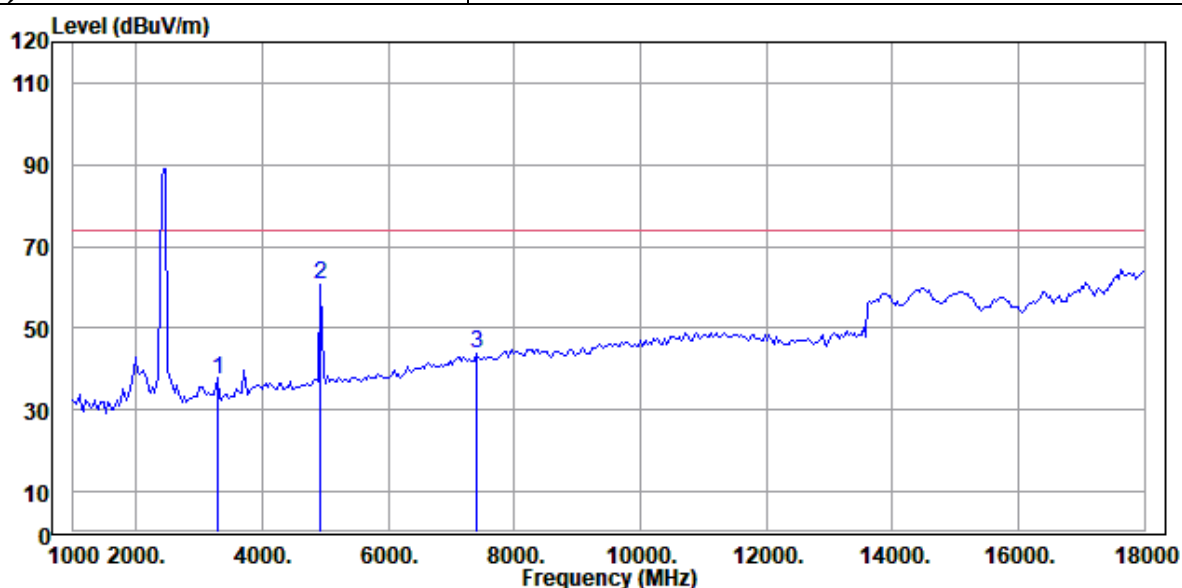
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3244.000	45.35	48.48	28.59	4.78	36.50	-3.13	74.00	-28.65 Peak
2	4876.000	63.38	61.56	31.55	5.91	35.64	1.82	74.00	-10.62 Peak
3	7290.000	48.48	38.91	36.24	7.16	33.83	9.57	74.00	-25.52 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	3244.000	23.70	26.83	28.59	4.78	36.50	-3.13	54.00	-30.30 Average
2	4876.000	38.11	36.29	31.55	5.91	35.64	1.82	54.00	-15.89 Average
3	7290.000	31.50	21.93	36.24	7.16	33.83	9.57	54.00	-22.50 Average

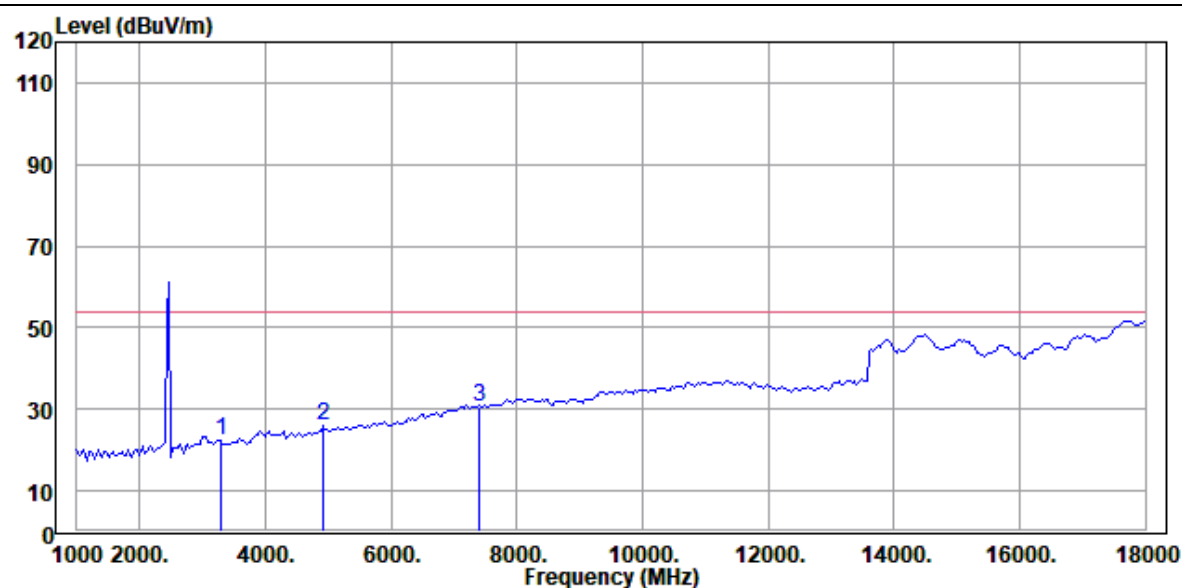
802.11n(HT20)

CH11



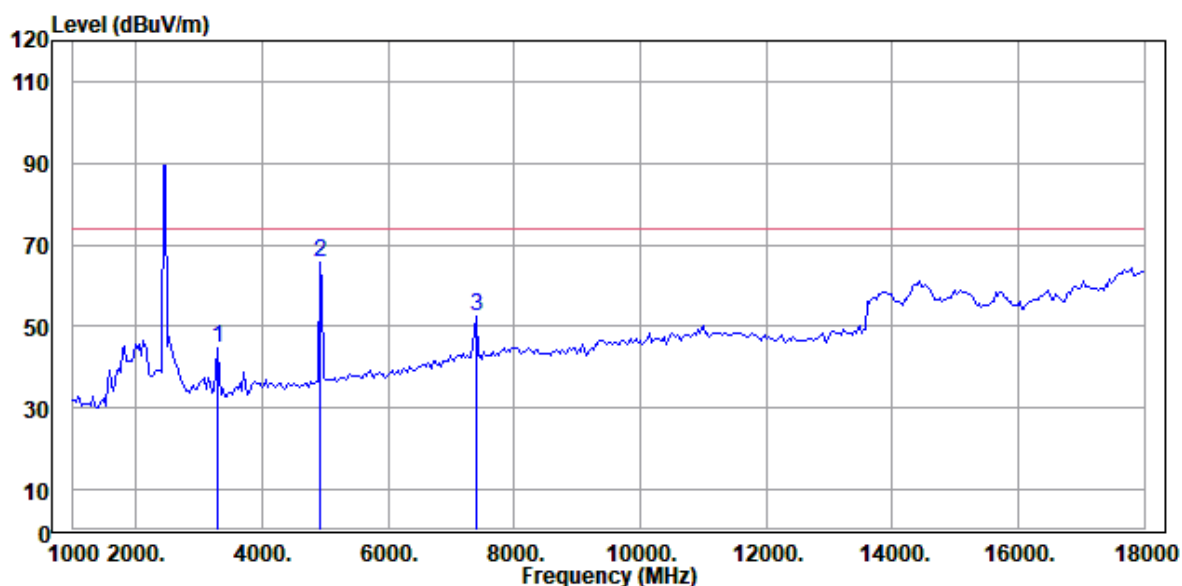
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3278.000	37.50	40.69	28.49	4.80	36.48	-3.19	74.00	-36.50 Peak
2	4910.000	60.53	58.67	31.56	5.93	35.63	1.86	74.00	-13.47 Peak
3	7392.000	43.63	33.90	36.37	7.20	33.84	9.73	74.00	-30.37 Peak

Horizontal

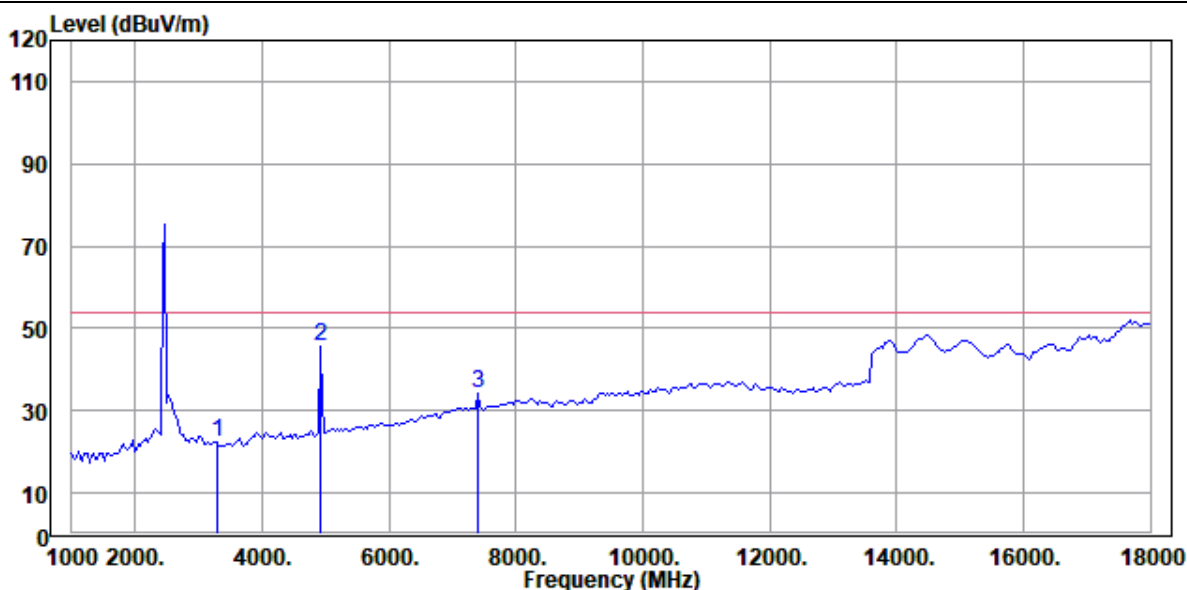


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	3278.000	22.43	25.62	28.49	4.80	36.48	-3.19	54.00	-31.57 Average
2	4910.000	25.96	24.10	31.56	5.93	35.63	1.86	54.00	-28.04 Average
3	7392.000	30.61	20.88	36.37	7.20	33.84	9.73	54.00	-23.39 Average

Vertical



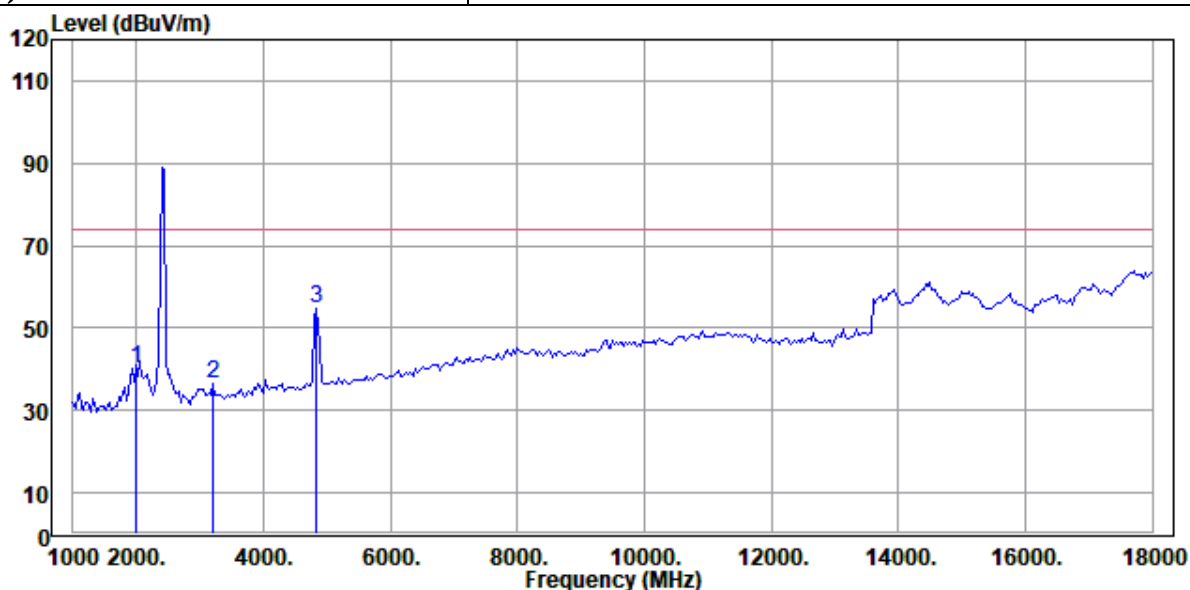
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	3278.000	44.66	47.85	28.49	4.80	36.48	-3.19	74.00	-29.34	Peak
2	4910.000	65.57	63.71	31.56	5.93	35.63	1.86	74.00	-8.43	Peak
3	7392.000	52.63	42.90	36.37	7.20	33.84	9.73	74.00	-21.37	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	3278.000	22.44	25.63	28.49	4.80	36.48	-3.19	54.00	-31.56	Average
2	4910.000	45.61	43.75	31.56	5.93	35.63	1.86	54.00	-8.39	Average
3	7392.000	34.34	24.61	36.37	7.20	33.84	9.73	54.00	-19.66	Average

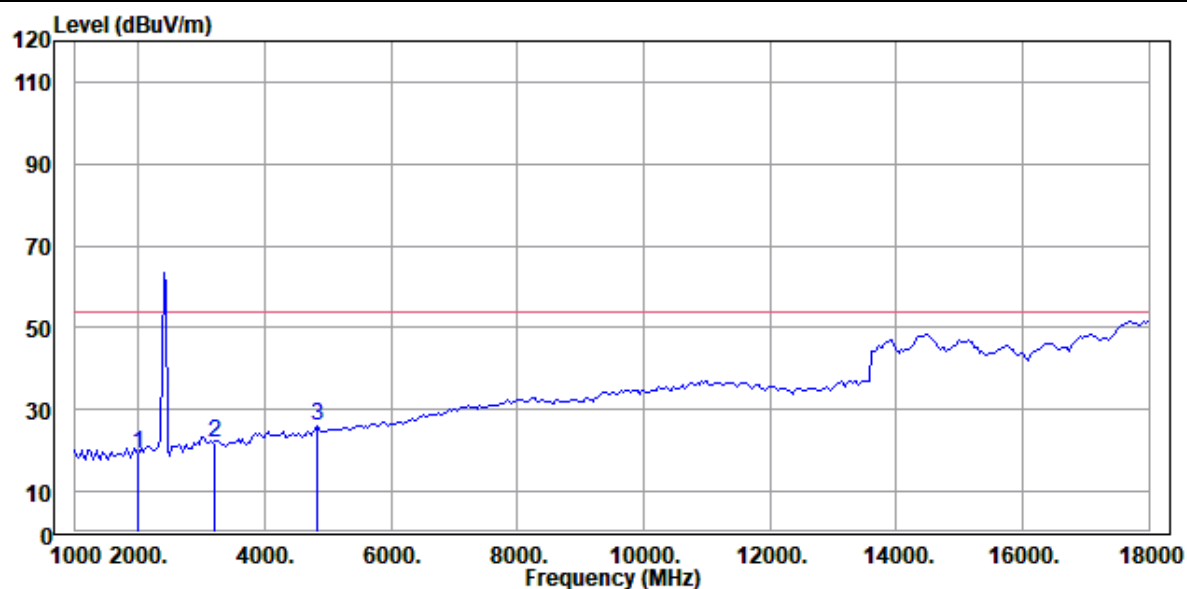
802.11n(HT40)

CH03



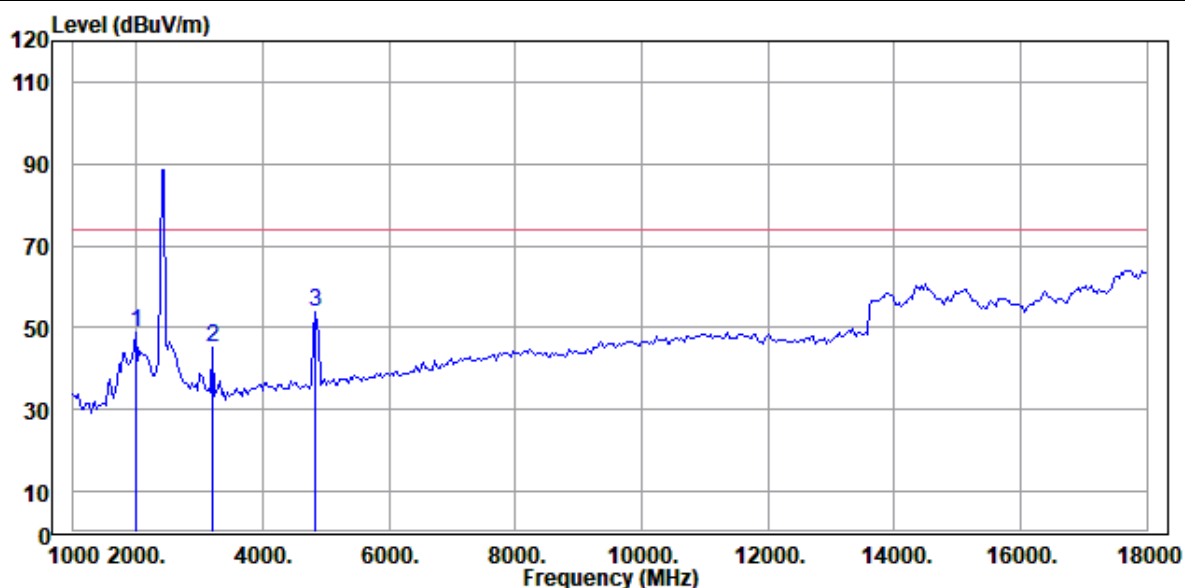
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dB	
1	1986.000	39.97	44.34	26.37	3.76	34.50	-4.37	74.00	-34.03 Peak
2	3210.000	36.33	39.59	28.52	4.75	36.53	-3.26	74.00	-37.67 Peak
3	4842.000	54.69	52.87	31.58	5.89	35.65	1.82	74.00	-19.31 Peak

Horizontal

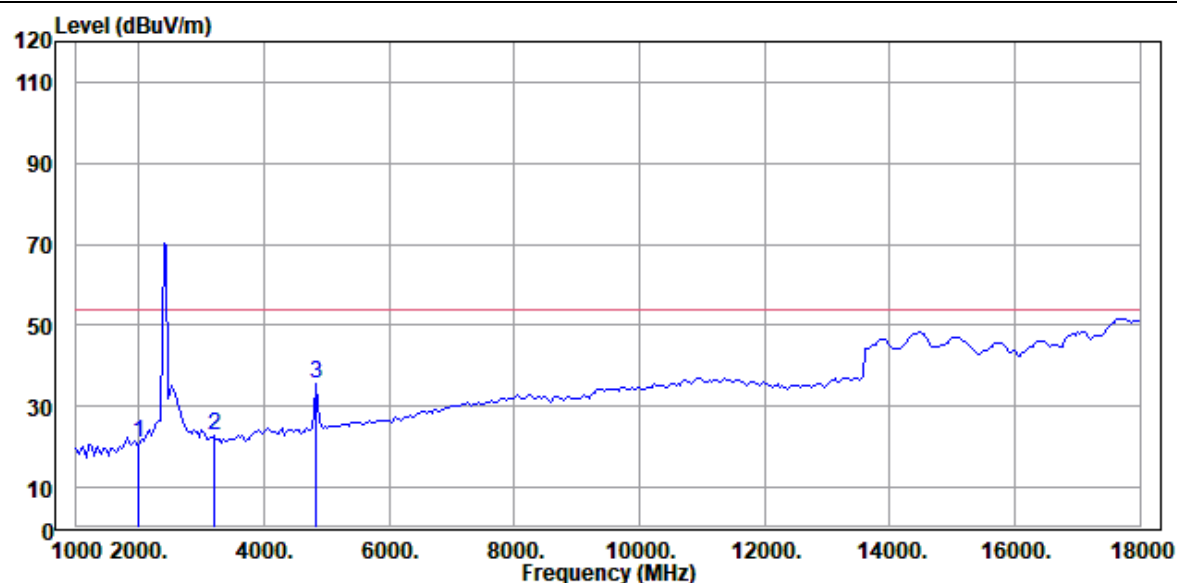


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dB	
1	1986.000	19.22	23.59	26.37	3.76	34.50	-4.37	54.00	-34.78 Average
2	3210.000	22.12	25.38	28.52	4.75	36.53	-3.26	54.00	-31.88 Average
3	4842.000	25.97	24.15	31.58	5.89	35.65	1.82	54.00	-28.03 Average

Vertical



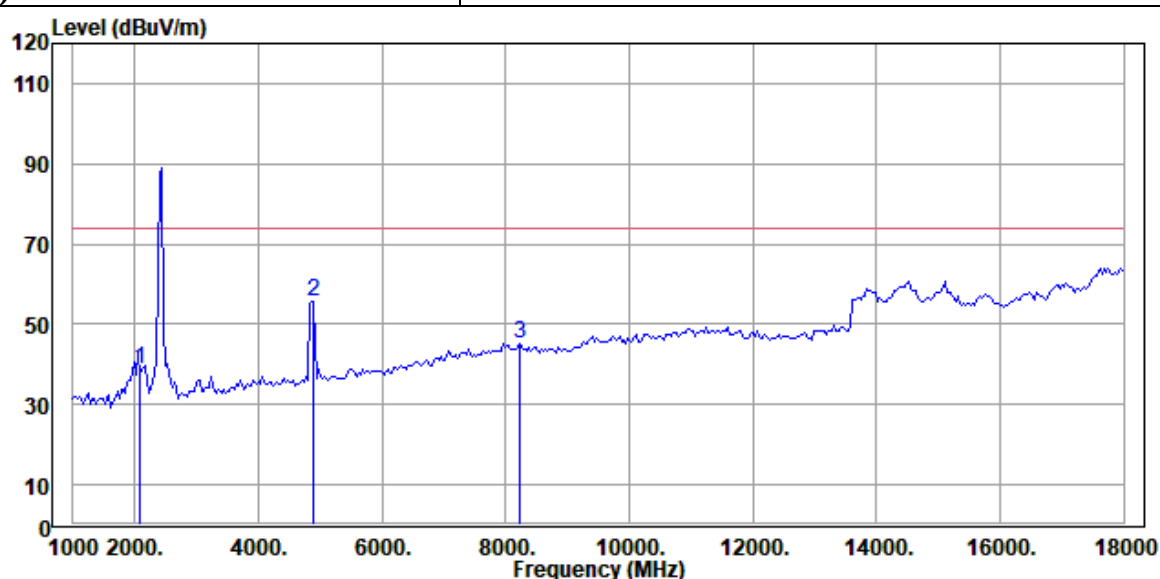
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1986.000	48.78	53.15	26.37	3.76	34.50	-4.37	74.00	-25.22	Peak
2	3210.000	45.20	48.46	28.52	4.75	36.53	-3.26	74.00	-28.80	Peak
3	4842.000	53.77	51.95	31.58	5.89	35.65	1.82	74.00	-20.23	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1986.000	21.13	25.50	26.37	3.76	34.50	-4.37	54.00	-32.87	Average
2	3210.000	22.59	25.85	28.52	4.75	36.53	-3.26	54.00	-31.41	Average
3	4842.000	35.64	33.82	31.58	5.89	35.65	1.82	54.00	-18.36	Average

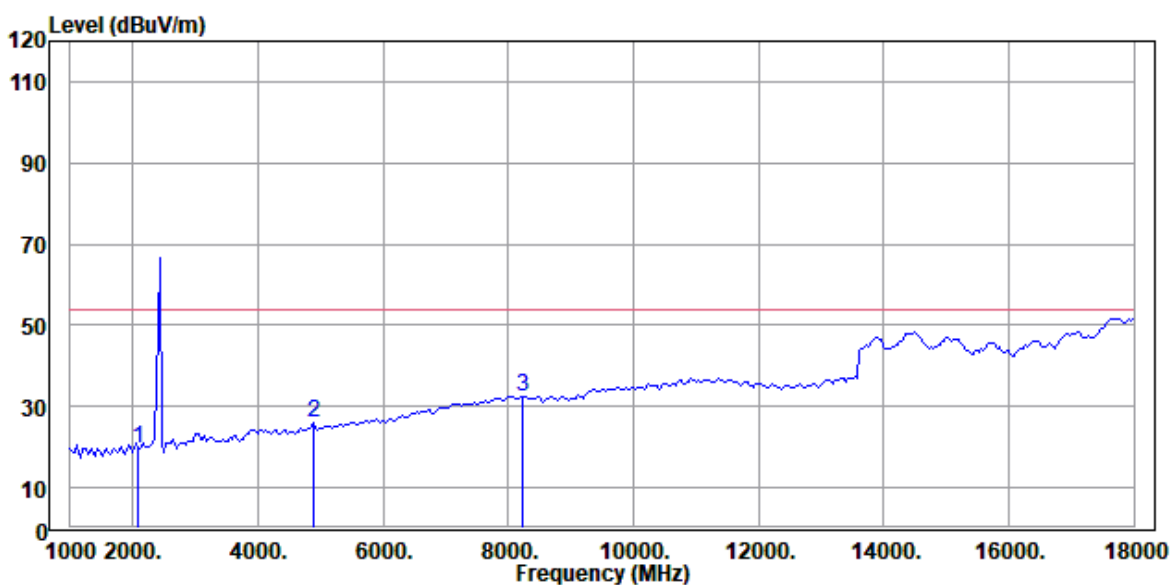
802.11n(HT40)

CH06



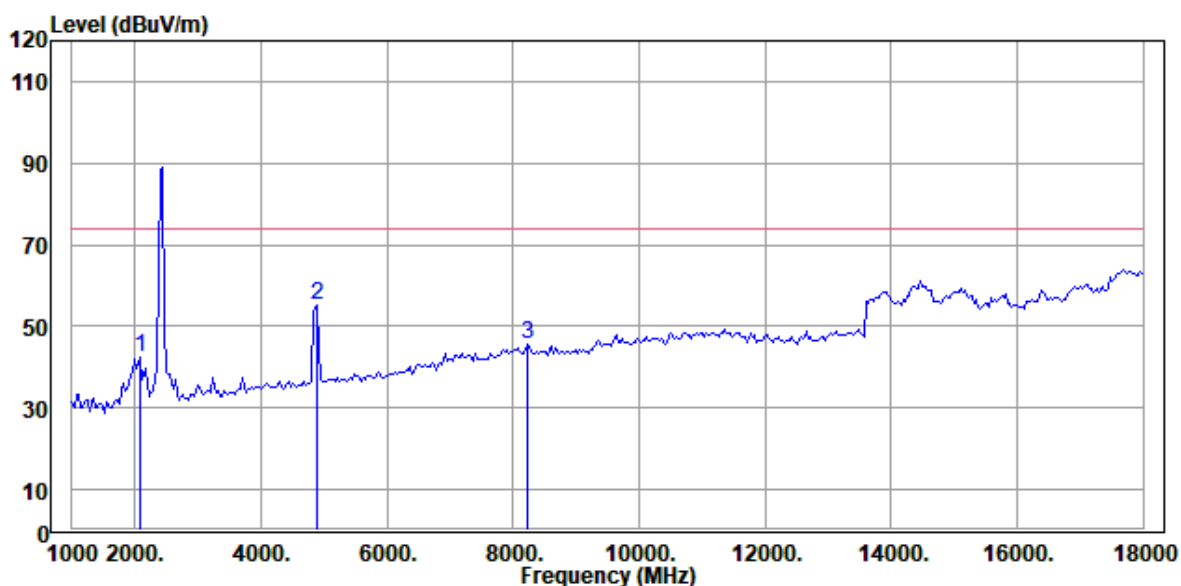
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2088.000	38.81	42.70	26.95	3.85	34.69	-3.89	74.00	-35.19	Peak
2	4876.000	55.64	53.82	31.55	5.91	35.64	1.82	74.00	-18.36	Peak
3	8242.000	45.24	34.94	36.73	7.57	34.00	10.30	74.00	-28.76	Peak

Horizontal

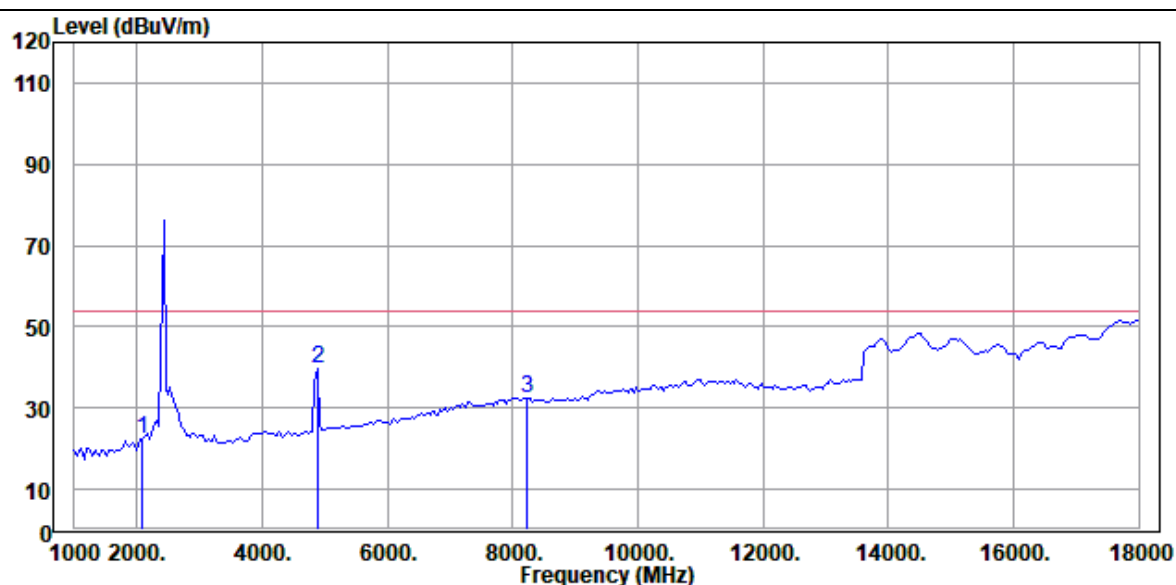


	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2088.000	19.77	23.66	26.95	3.85	34.69	-3.89	54.00	-34.23	Average
2	4876.000	25.85	24.03	31.55	5.91	35.64	1.82	54.00	-28.15	Average
3	8242.000	32.57	22.27	36.73	7.57	34.00	10.30	54.00	-21.43	Average

Vertical



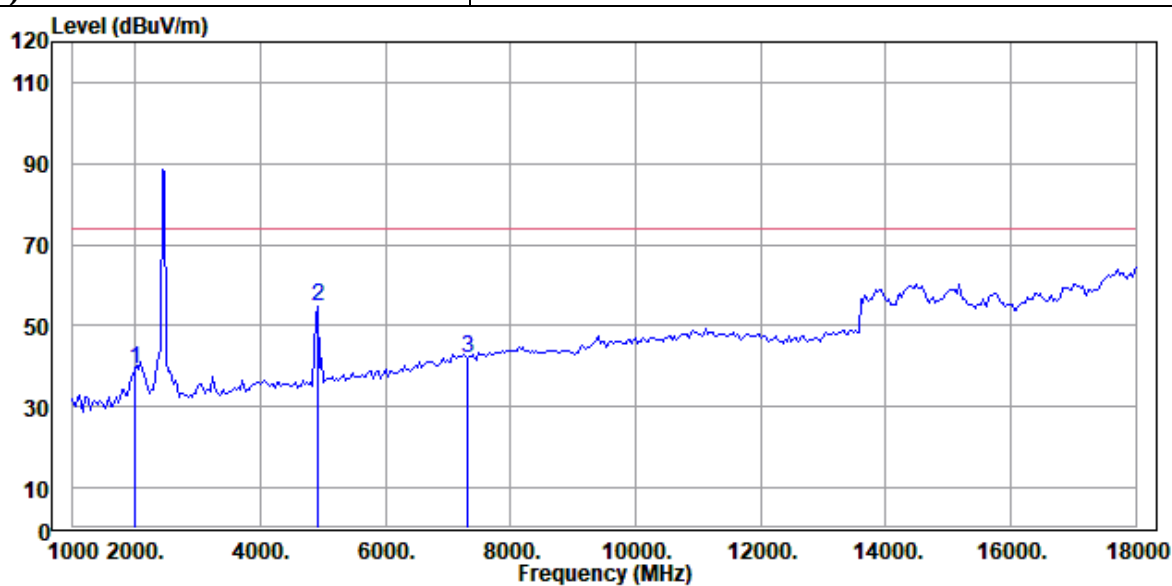
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dBUV/m	dB	
1	2088.000	42.33	46.22	26.95	3.85	34.69	74.00	-31.67	Peak
2	4876.000	55.35	53.53	31.55	5.91	35.64	74.00	-18.65	Peak
3	8242.000	45.43	35.13	36.73	7.57	34.00	74.00	-28.57	Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dBUV/m	dB	
1	2088.000	22.26	26.15	26.95	3.85	34.69	54.00	-31.74	Average
2	4876.000	39.90	38.08	31.55	5.91	35.64	54.00	-14.10	Average
3	8242.000	32.61	22.31	36.73	7.57	34.00	54.00	-21.39	Average

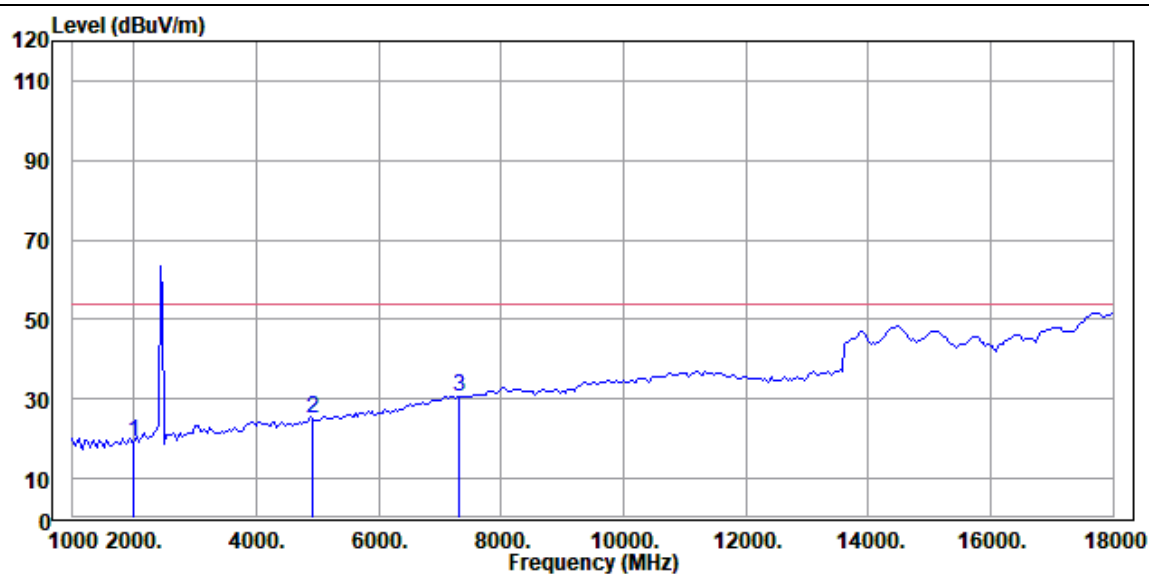
802.11n(HT40)

CH09



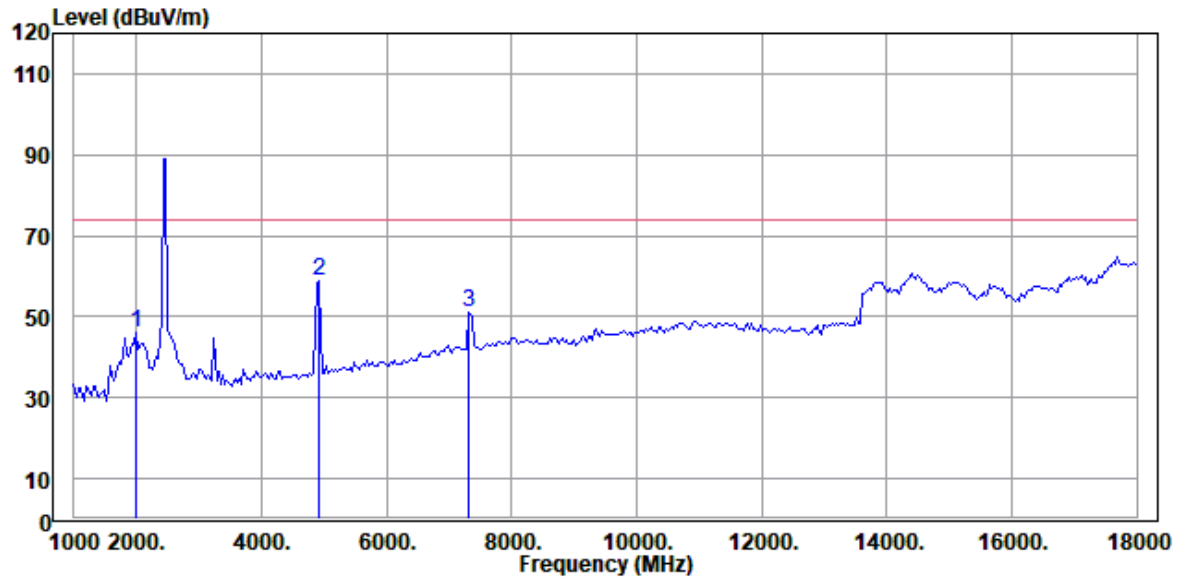
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1986.000	39.18	43.55	26.37	3.76	34.50	-4.37	74.00	-34.82 Peak
2	4910.000	54.68	52.82	31.56	5.93	35.63	1.86	74.00	-19.32 Peak
3	7324.000	41.75	32.16	36.25	7.17	33.83	9.59	74.00	-32.25 Peak

Horizontal

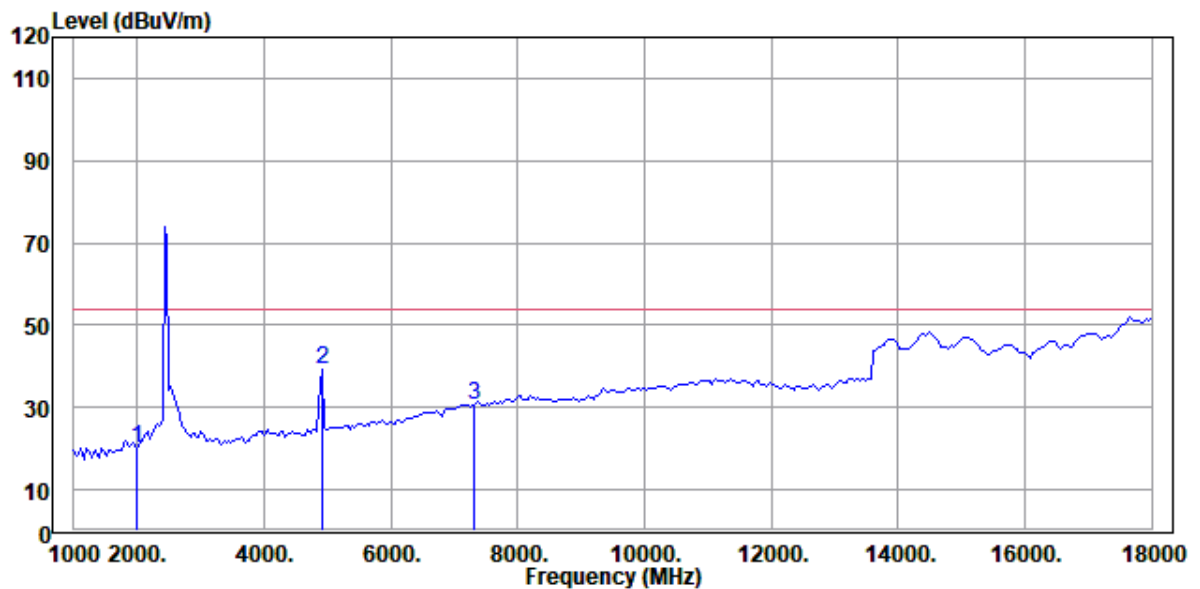


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1986.000	19.25	23.62	26.37	3.76	34.50	-4.37	54.00	-34.75 Average
2	4910.000	25.20	23.34	31.56	5.93	35.63	1.86	54.00	-28.80 Average
3	7324.000	30.52	20.93	36.25	7.17	33.83	9.59	54.00	-23.48 Average

Vertical



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1986.000	46.24	50.61	26.37	3.76	34.50	-4.37	74.00	-27.76	Peak
2	4910.000	58.73	56.87	31.56	5.93	35.63	1.86	74.00	-15.27	Peak
3	7324.000	50.99	41.40	36.25	7.17	33.83	9.59	74.00	-23.01	Peak

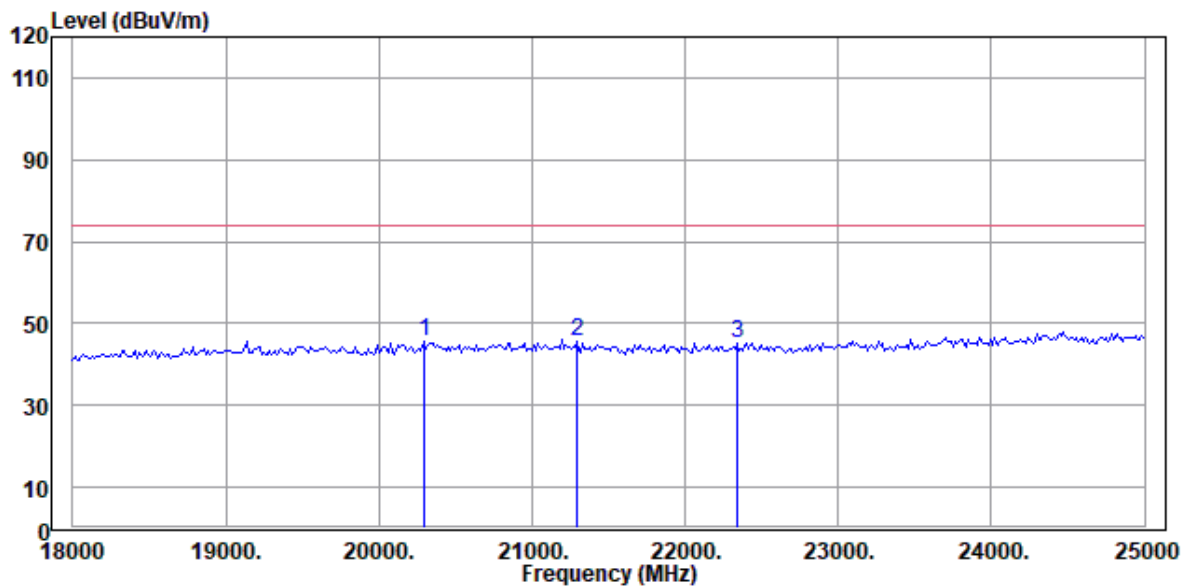


	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1986.000	20.13	24.50	26.37	3.76	34.50	-4.37	54.00	-33.87	Average
2	4910.000	39.38	37.52	31.56	5.93	35.63	1.86	54.00	-14.62	Average
3	7324.000	30.48	20.89	36.25	7.17	33.83	9.59	54.00	-23.52	Average

Frequency: 18GHz~25GHz

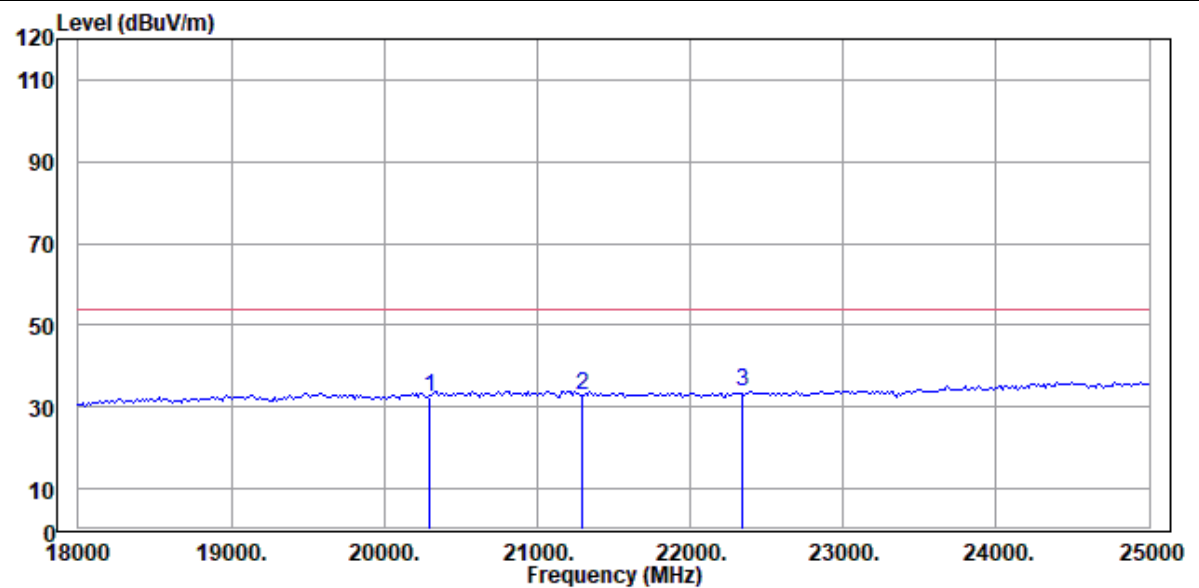
802.11b

CH01



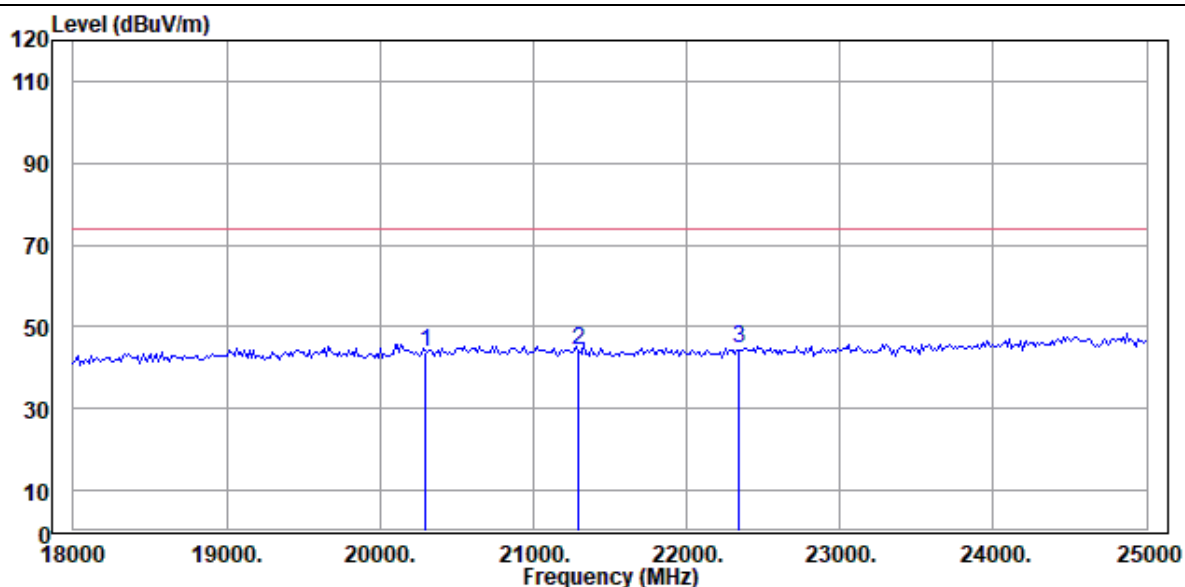
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20296.000	45.47	50.07	37.88	12.72	55.20	-4.60	74.00	-28.53 Peak
2	21290.000	45.85	50.50	37.50	13.05	55.20	-4.65	74.00	-28.15 Peak
3	22340.000	45.38	49.61	37.64	13.38	55.25	-4.23	74.00	-28.62 Peak

Horizontal

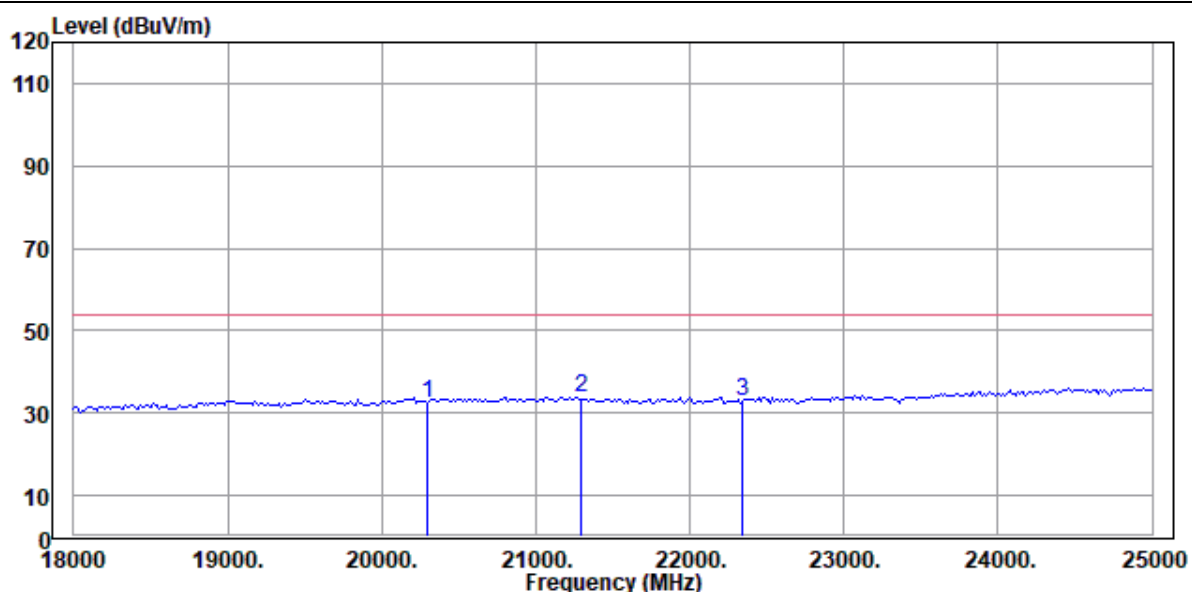


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20296.000	32.59	37.19	37.88	12.72	55.20	-4.60	54.00	-21.41 Average
2	21290.000	32.90	37.55	37.50	13.05	55.20	-4.65	54.00	-21.10 Average
3	22340.000	33.73	37.96	37.64	13.38	55.25	-4.23	54.00	-20.27 Average

Vertical



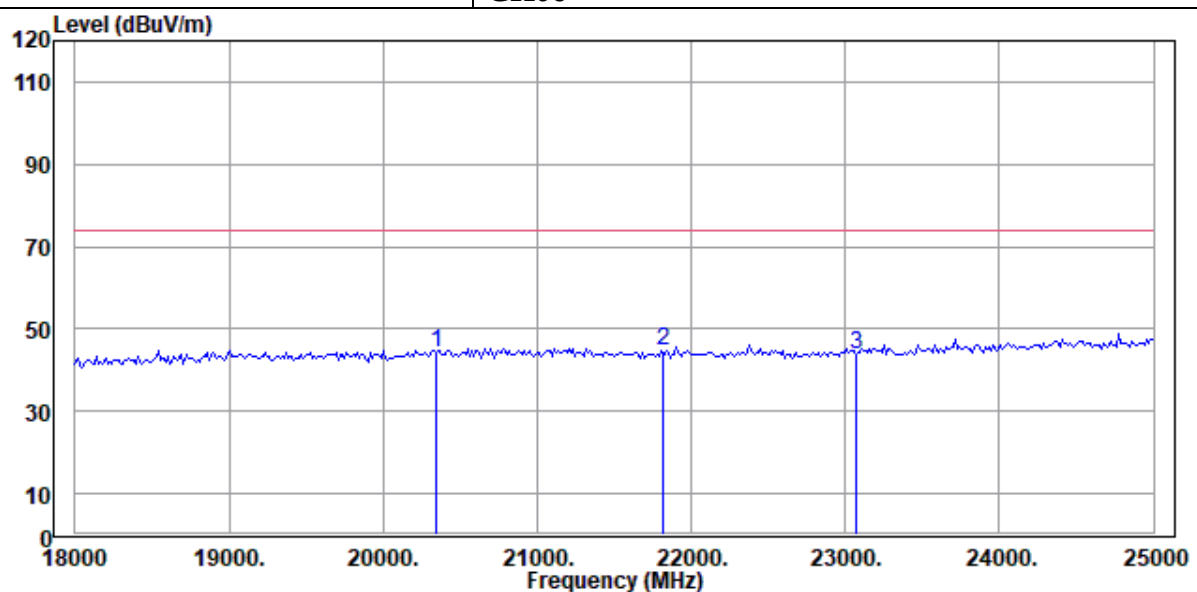
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20296.000	43.85	48.45	37.88	12.72	55.20	-4.60	74.00	-30.15 Peak
2	21290.000	44.09	48.74	37.50	13.05	55.20	-4.65	74.00	-29.91 Peak
3	22340.000	44.57	48.80	37.64	13.38	55.25	-4.23	74.00	-29.43 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20296.000	32.55	37.15	37.88	12.72	55.20	-4.60	54.00	-21.45 Average
2	21290.000	33.67	38.32	37.50	13.05	55.20	-4.65	54.00	-20.33 Average
3	22340.000	32.72	36.95	37.64	13.38	55.25	-4.23	54.00	-21.28 Average

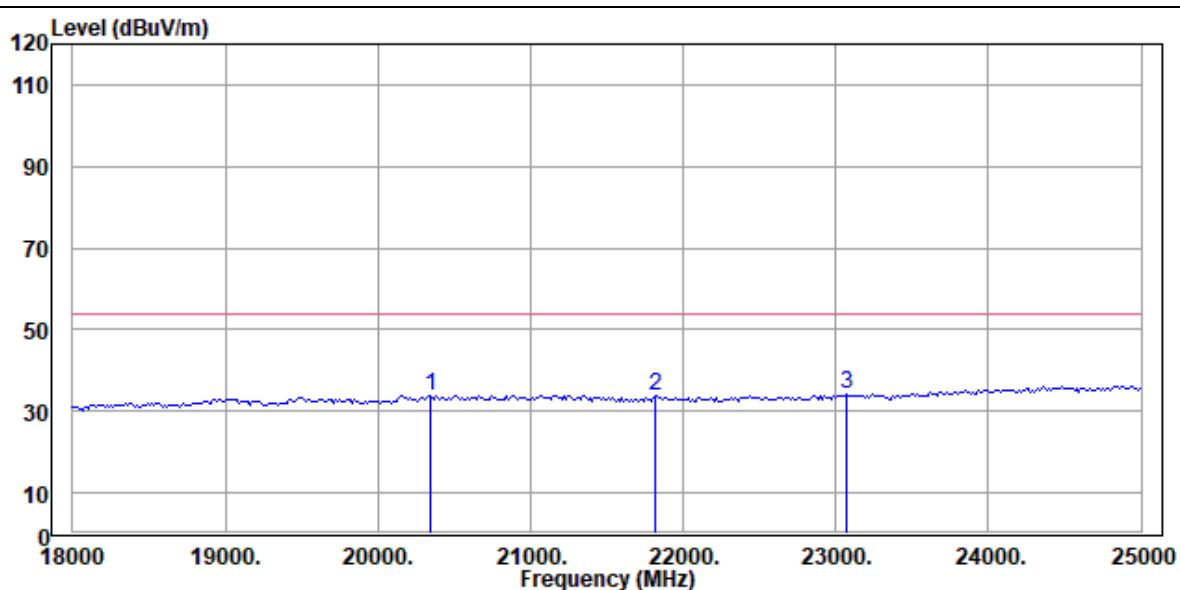
802.11b

CH06



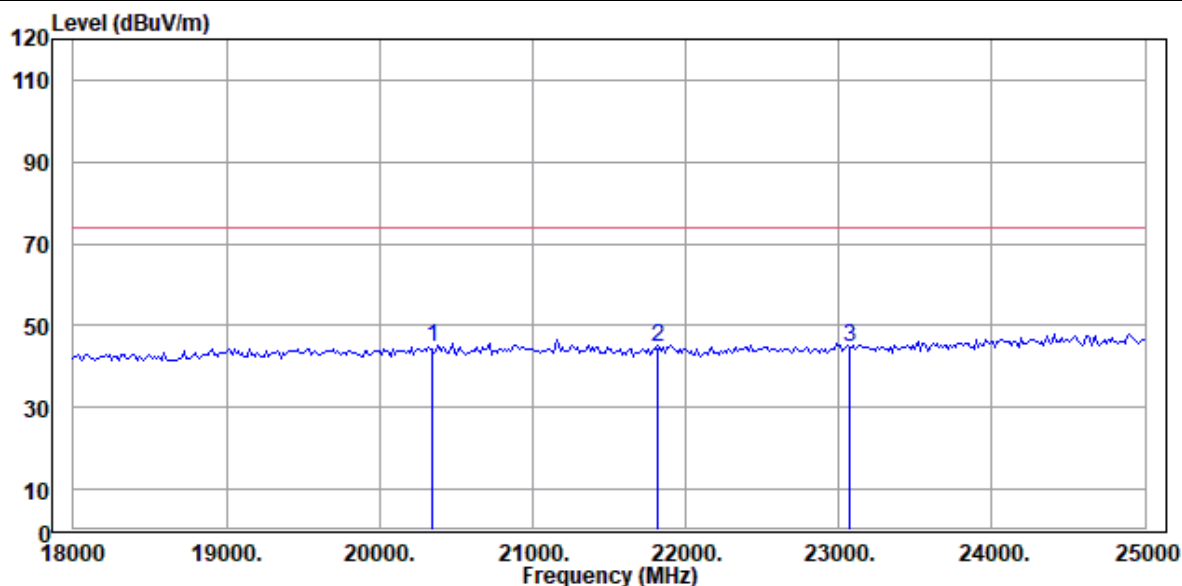
		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20338.000	44.35	48.96	37.86	12.73	55.20	-4.61	74.00	-29.65 Peak
2	21822.000	44.50	48.97	37.50	13.23	55.20	-4.47	74.00	-29.50 Peak
3	23068.000	43.96	47.71	38.05	13.56	55.36	-3.75	74.00	-30.04 Peak

Horizontal

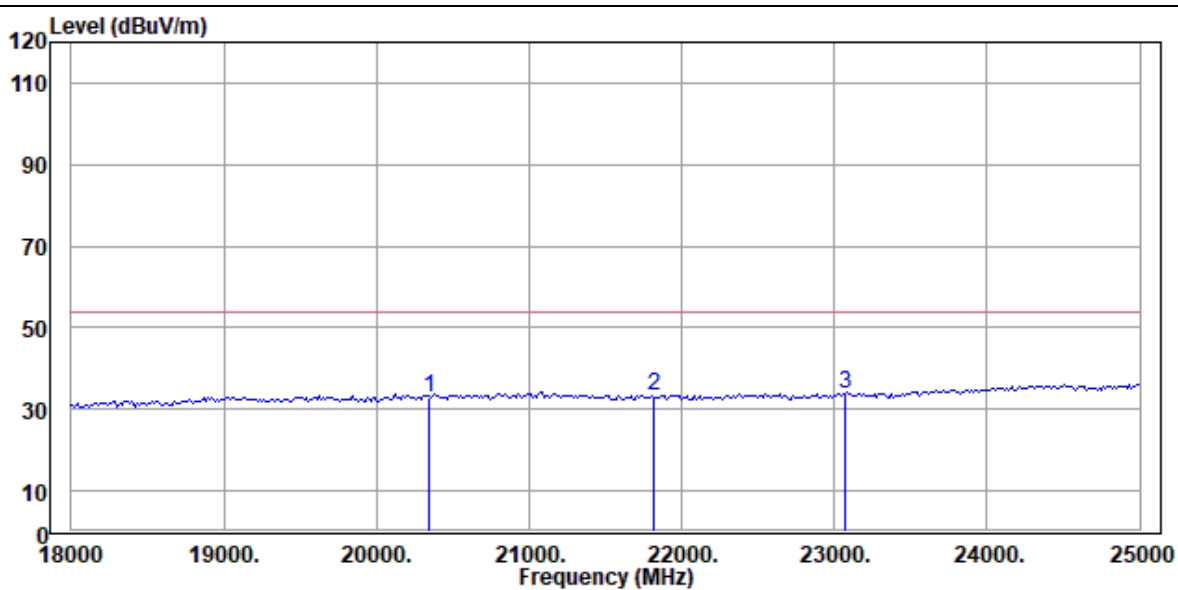


		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20338.000	33.83	38.44	37.86	12.73	55.20	-4.61	54.00	-20.17 Average
2	21822.000	33.56	38.03	37.50	13.23	55.20	-4.47	54.00	-20.44 Average
3	23068.000	34.04	37.79	38.05	13.56	55.36	-3.75	54.00	-19.96 Average

Vertical



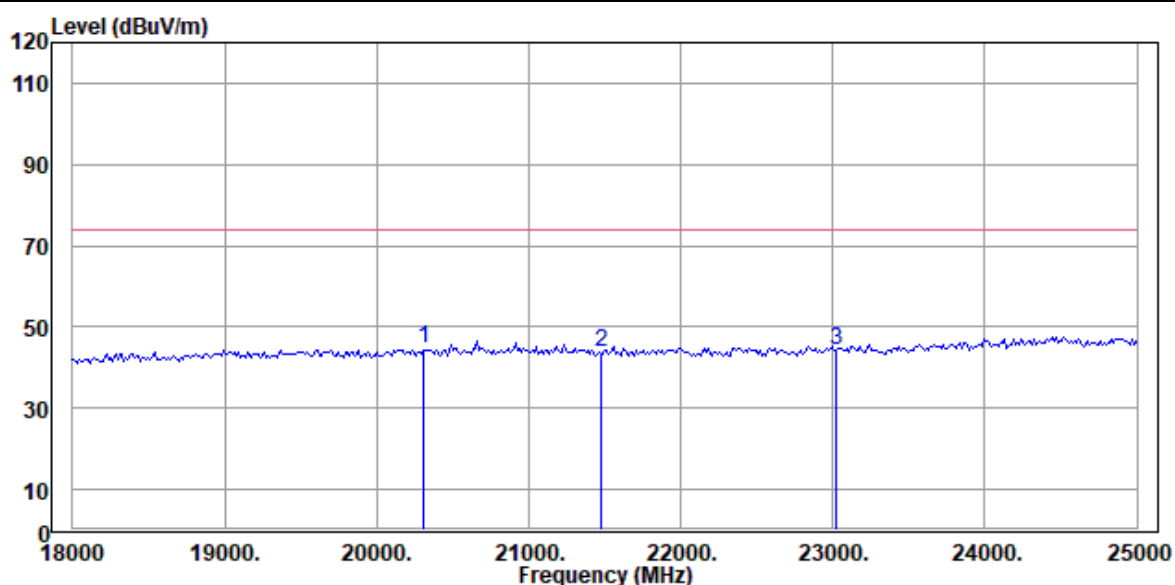
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
			Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20338.000	44.65	49.26	37.86	12.73	55.20	-4.61	74.00	-29.35	Peak
2	21822.000	44.57	49.04	37.50	13.23	55.20	-4.47	74.00	-29.43	Peak
3	23068.000	44.57	48.32	38.05	13.56	55.36	-3.75	74.00	-29.43	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
			Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20338.000	32.82	37.43	37.86	12.73	55.20	-4.61	54.00	-21.18	Average
2	21822.000	33.46	37.93	37.50	13.23	55.20	-4.47	54.00	-20.54	Average
3	23068.000	33.70	37.45	38.05	13.56	55.36	-3.75	54.00	-20.30	Average

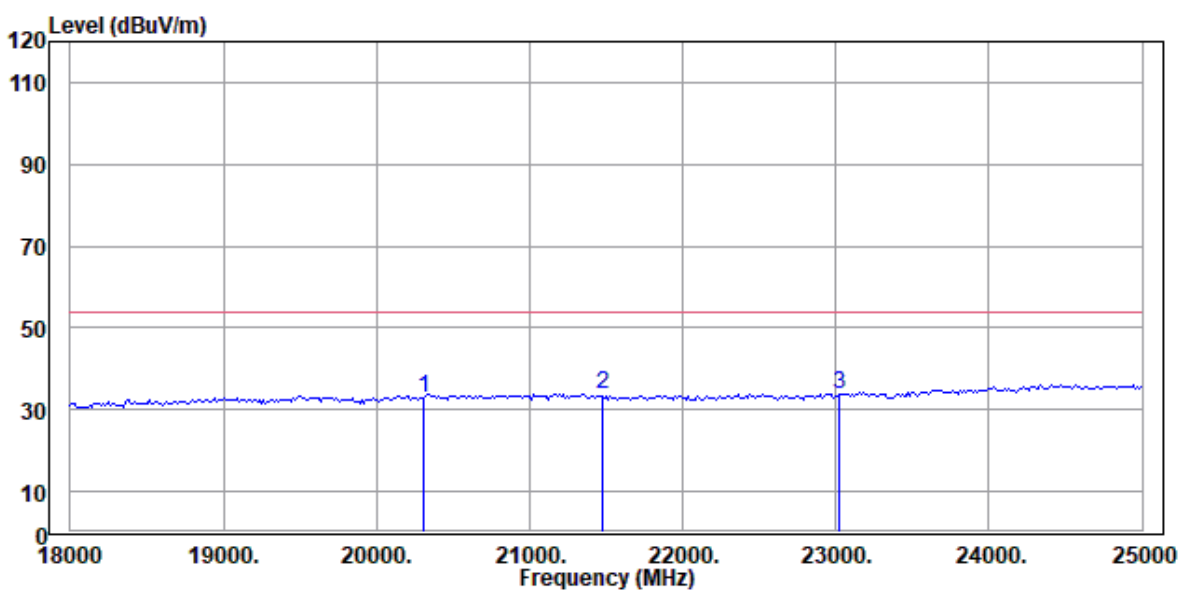
802.11b

CH11



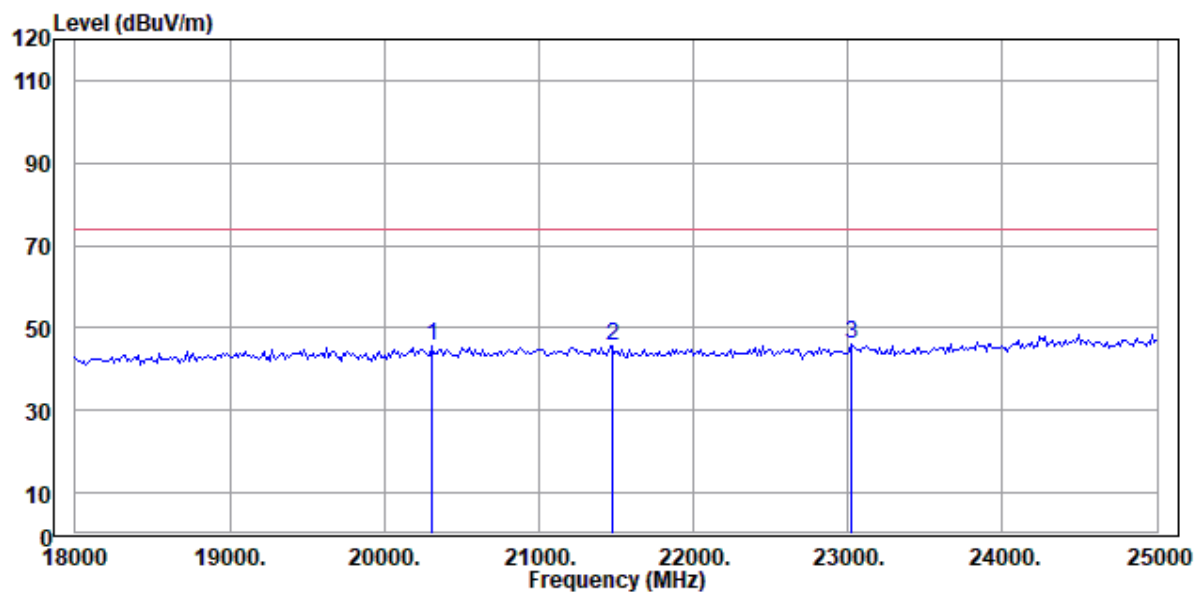
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20310.000	44.53	49.13	37.88	12.72	55.20	-4.60	74.00	-29.47 Peak
2	21472.000	44.03	48.62	37.50	13.11	55.20	-4.59	74.00	-29.97 Peak
3	23026.000	44.13	47.91	38.02	13.55	55.35	-3.78	74.00	-29.87 Peak

Horizontal

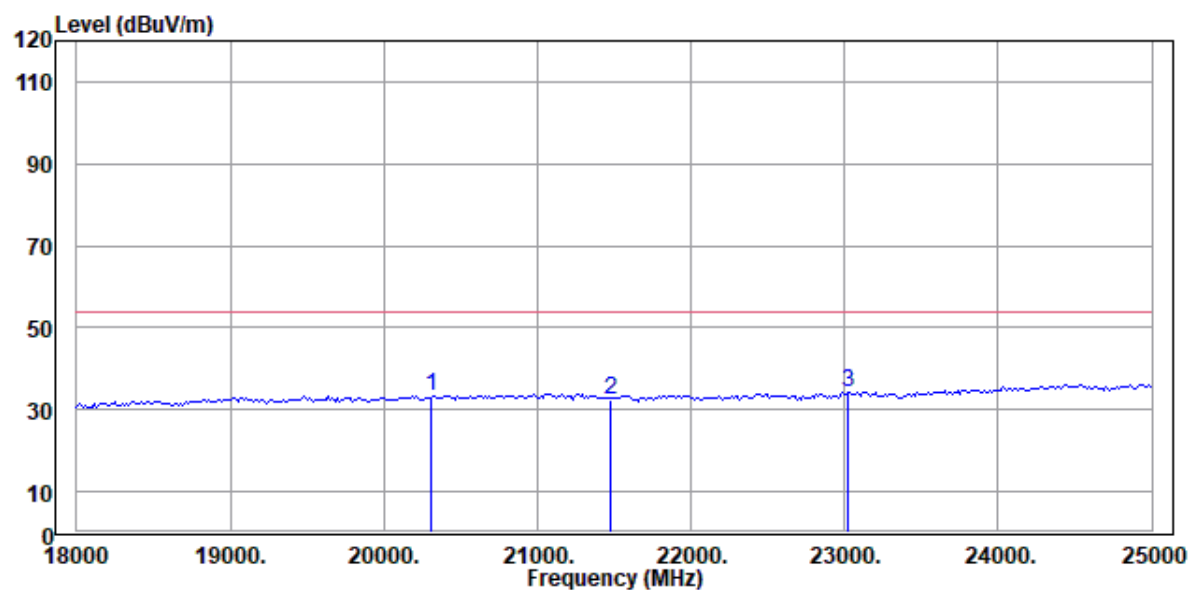


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20310.000	32.96	37.56	37.88	12.72	55.20	-4.60	54.00	-21.04 Average
2	21472.000	33.85	38.44	37.50	13.11	55.20	-4.59	54.00	-20.15 Average
3	23026.000	33.66	37.44	38.02	13.55	55.35	-3.78	54.00	-20.34 Average

Vertical



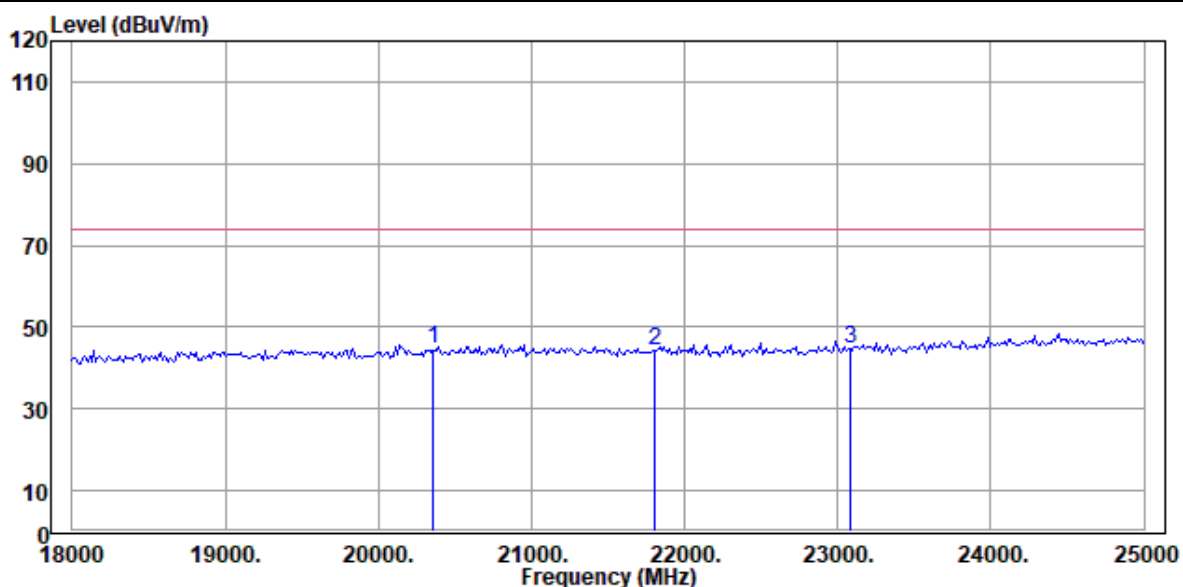
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20310.000	45.62	50.22	37.88	12.72	55.20	-4.60	74.00	-28.38 Peak
2	21472.000	45.66	50.25	37.50	13.11	55.20	-4.59	74.00	-28.34 Peak
3	23026.000	46.19	49.97	38.02	13.55	55.35	-3.78	74.00	-27.81 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20310.000	33.38	37.98	37.88	12.72	55.20	-4.60	54.00	-20.62 Average
2	21472.000	32.45	37.04	37.50	13.11	55.20	-4.59	54.00	-21.55 Average
3	23026.000	34.21	37.99	38.02	13.55	55.35	-3.78	54.00	-19.79 Average

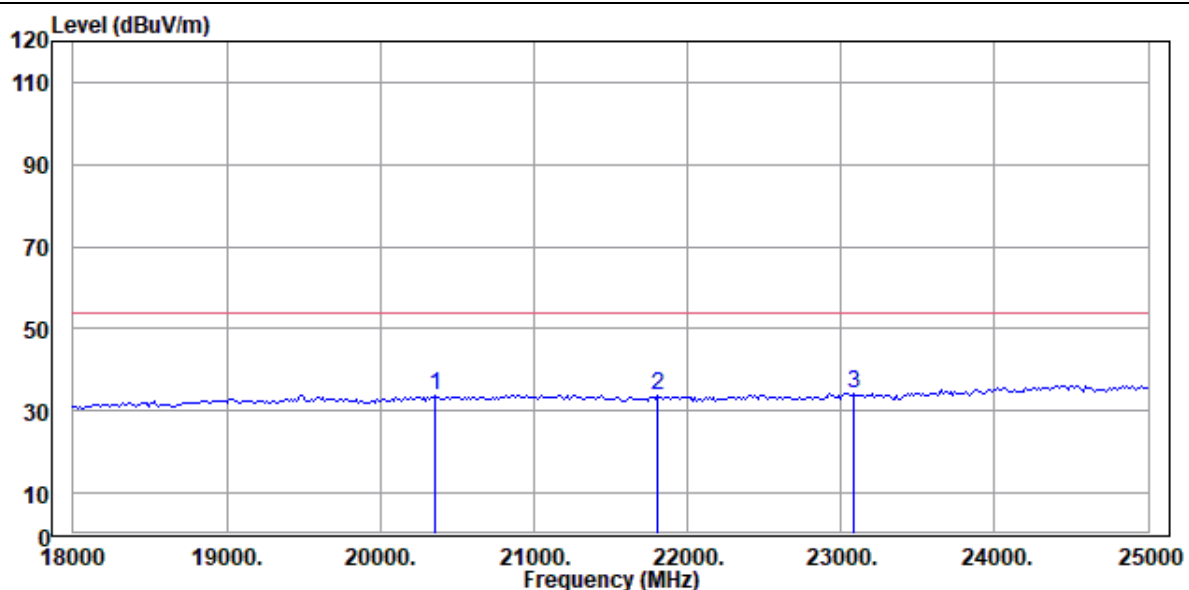
802.11g

CH01



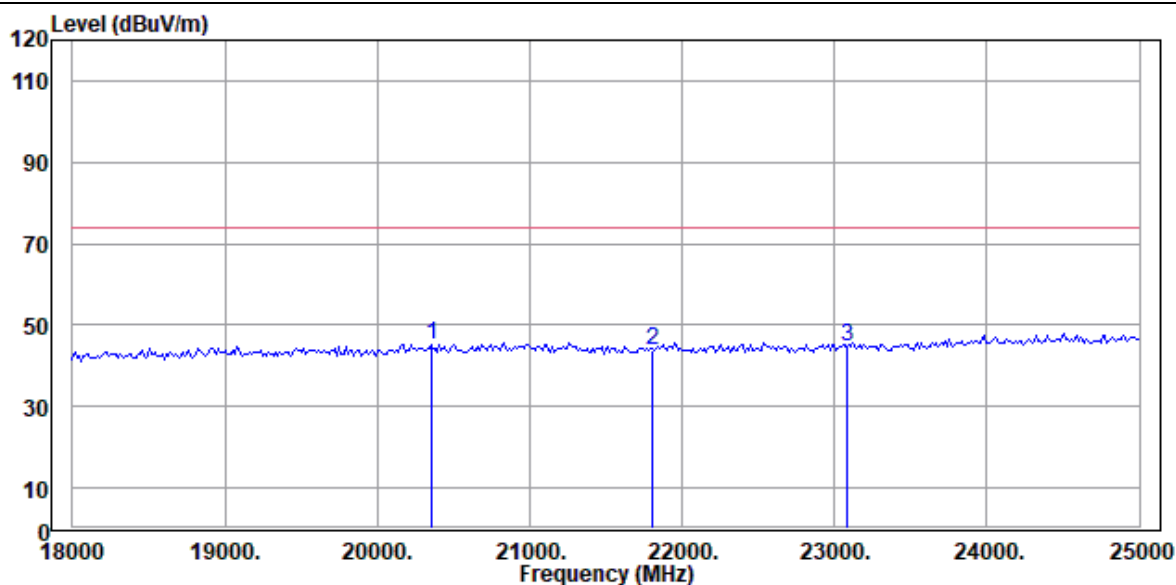
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB/m	dBuV/m	dB	
1	20352.000	44.55	49.15	37.86	12.74	55.20	-4.60	74.00	-29.45 Peak
2	21808.000	44.38	48.85	37.50	13.23	55.20	-4.47	74.00	-29.62 Peak
3	23082.000	44.93	48.66	38.07	13.56	55.36	-3.73	74.00	-29.07 Peak

Horizontal

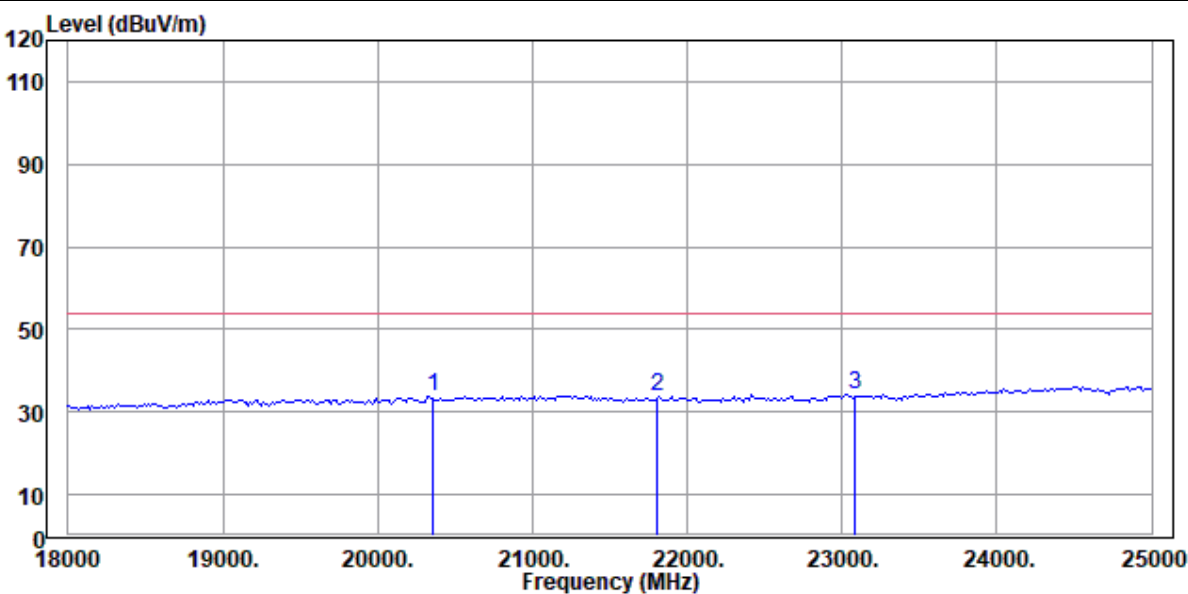


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB/m	dBuV/m	dB	
1	20352.000	33.74	38.34	37.86	12.74	55.20	-4.60	54.00	-20.26 Average
2	21808.000	33.69	38.16	37.50	13.23	55.20	-4.47	54.00	-20.31 Average
3	23082.000	34.31	38.04	38.07	13.56	55.36	-3.73	54.00	-19.69 Average

Vertical



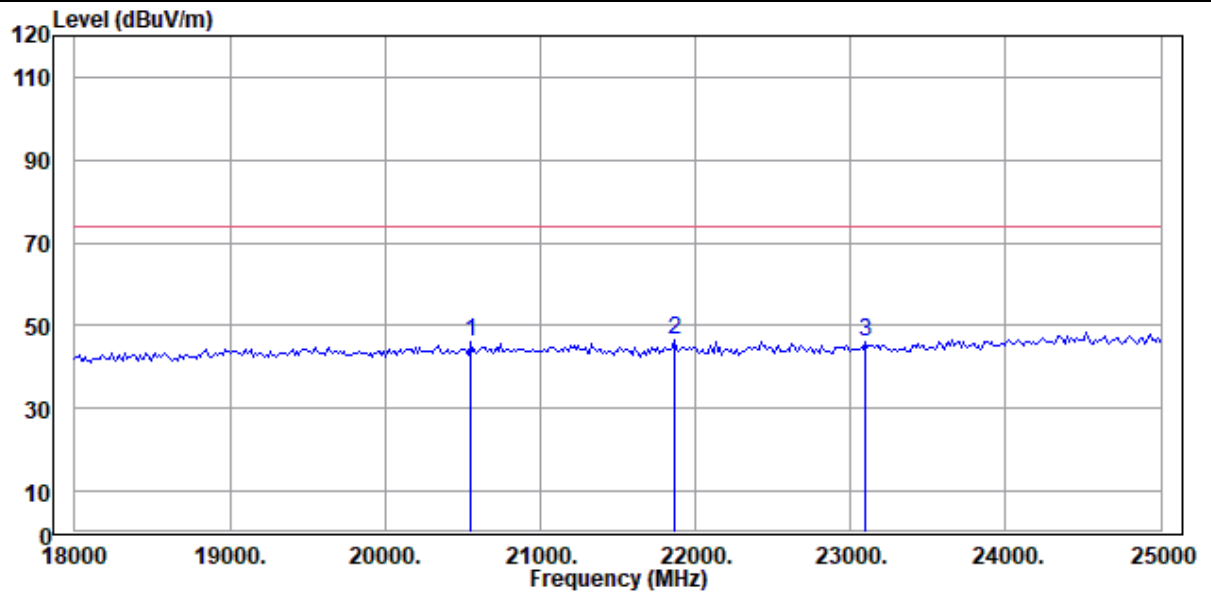
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20352.000	45.19	49.79	37.86	12.74	55.20	-4.60	74.00	-28.81	Peak
2	21808.000	43.59	48.06	37.50	13.23	55.20	-4.47	74.00	-30.41	Peak
3	23082.000	44.81	48.54	38.07	13.56	55.36	-3.73	74.00	-29.19	Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20352.000	33.57	38.17	37.86	12.74	55.20	-4.60	54.00	-20.43	Average
2	21808.000	33.87	38.34	37.50	13.23	55.20	-4.47	54.00	-20.13	Average
3	23082.000	34.02	37.75	38.07	13.56	55.36	-3.73	54.00	-19.98	Average

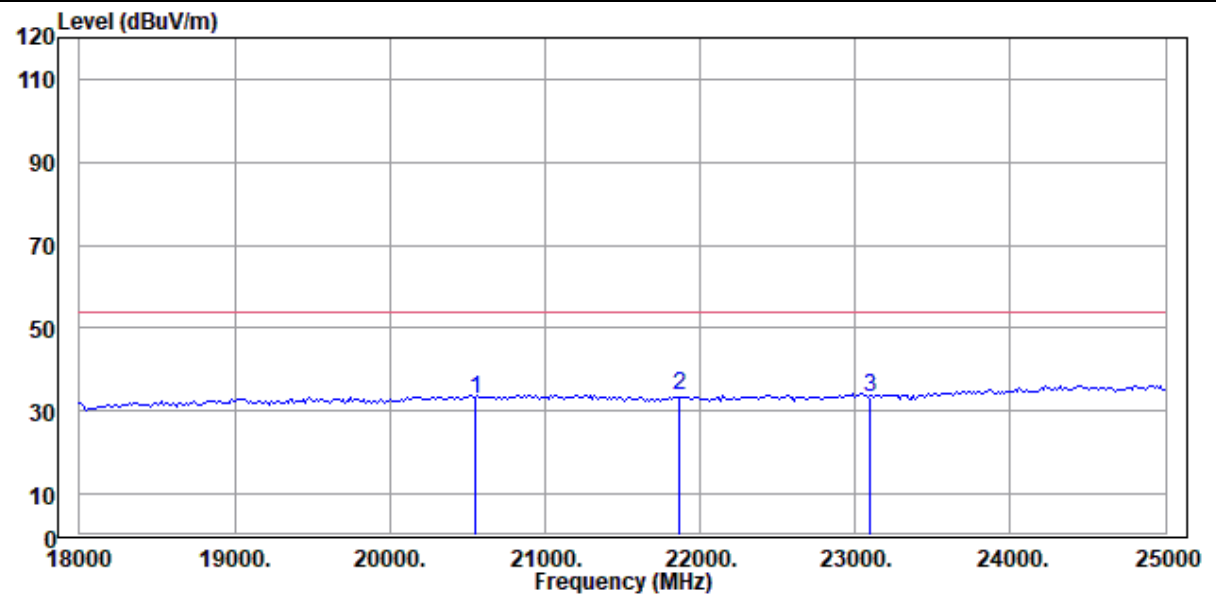
802.11g

CH06



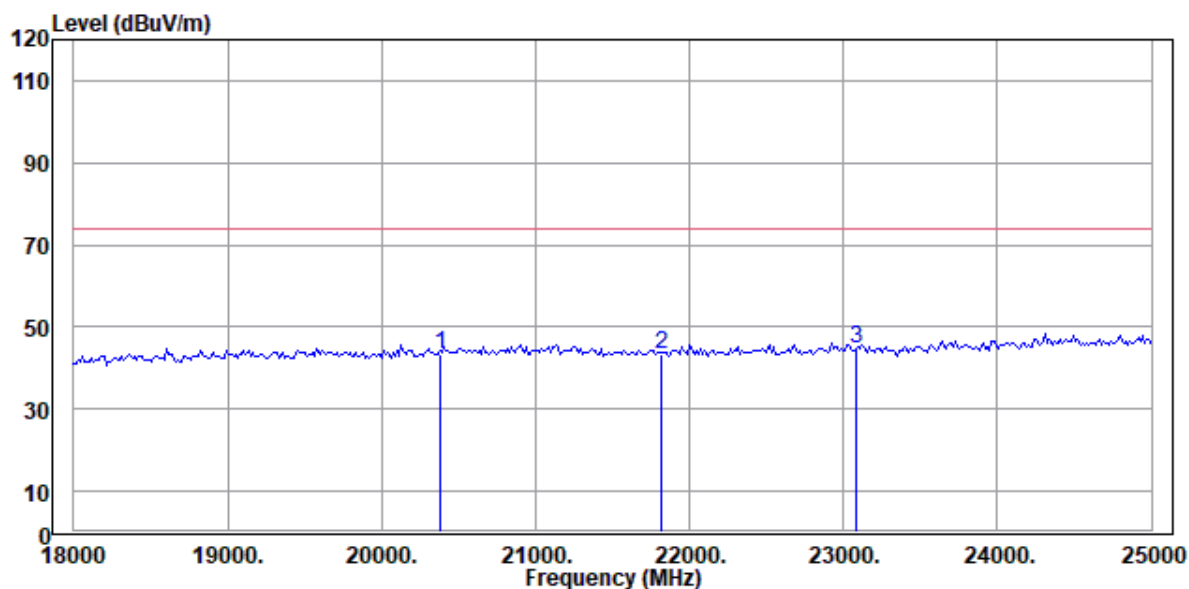
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20548.000	45.93	50.55	37.78	12.80	55.20	-4.62	74.00	-28.07 Peak
2	21864.000	46.41	50.87	37.50	13.24	55.20	-4.46	74.00	-27.59 Peak
3	23096.000	46.05	49.77	38.08	13.56	55.36	-3.72	74.00	-27.95 Peak

Horizontal

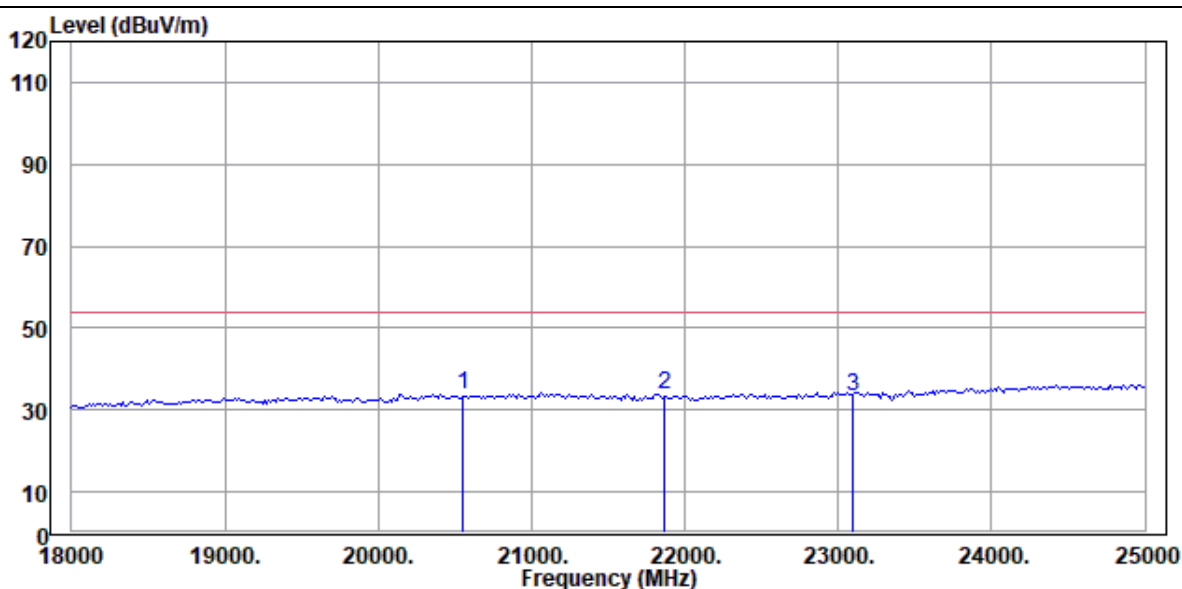


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20548.000	32.82	37.44	37.78	12.80	55.20	-4.62	54.00	-21.18 Average
2	21864.000	33.54	38.00	37.50	13.24	55.20	-4.46	54.00	-20.46 Average
3	23096.000	33.26	36.98	38.08	13.56	55.36	-3.72	54.00	-20.74 Average

Vertical



	Freq	Level	Read	Ant	Cable	Preamp	Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20380.000	43.55	48.15	37.85	12.75	55.20	-4.60	74.00	-30.45 Peak
2	21822.000	43.35	47.82	37.50	13.23	55.20	-4.47	74.00	-30.65 Peak
3	23082.000	44.68	48.41	38.07	13.56	55.36	-3.73	74.00	-29.32 Peak

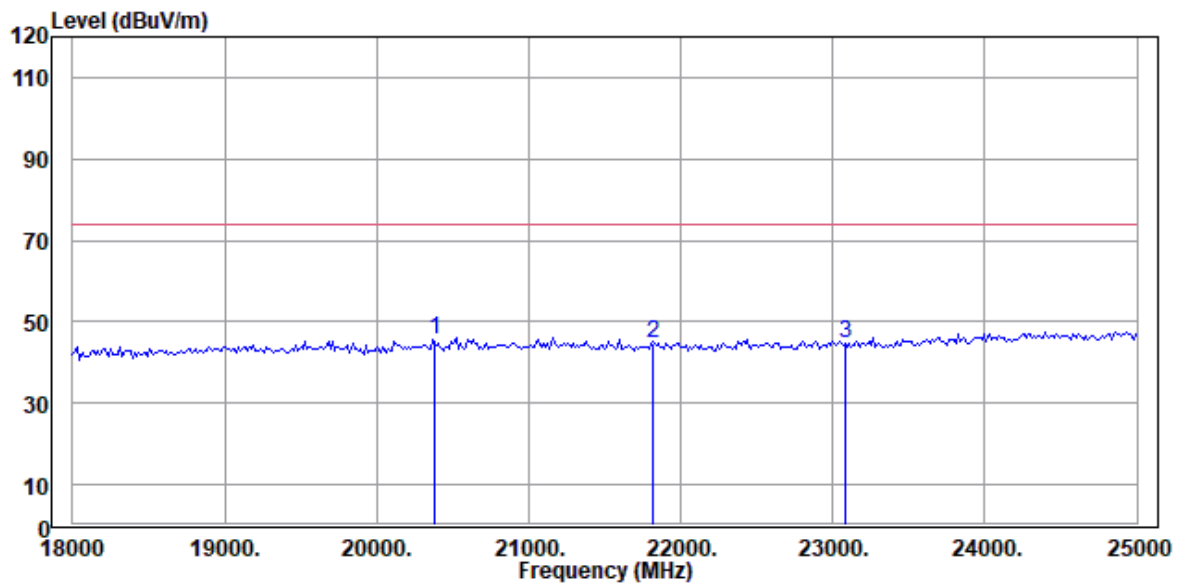


	Freq	Level	Read	Ant	Cable	Preamp	Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20548.000	33.83	38.45	37.78	12.80	55.20	-4.62	54.00	-20.17 Average
2	21864.000	33.80	38.26	37.50	13.24	55.20	-4.46	54.00	-20.20 Average
3	23096.000	33.27	36.99	38.08	13.56	55.36	-3.72	54.00	-20.73 Average

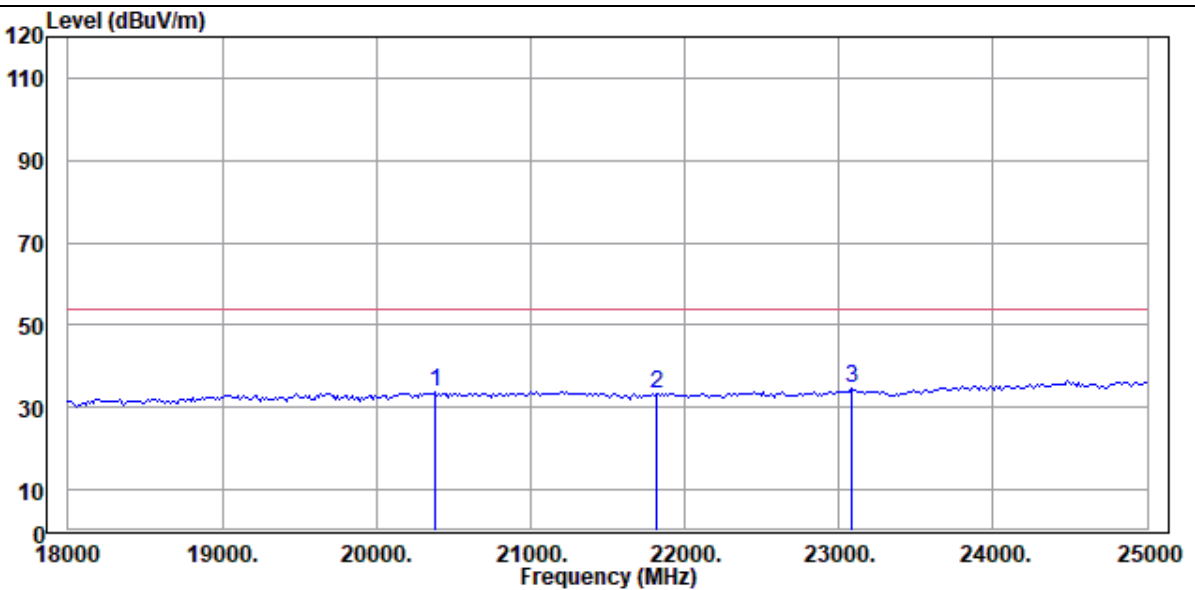
802.11g

CH11

Horizontal

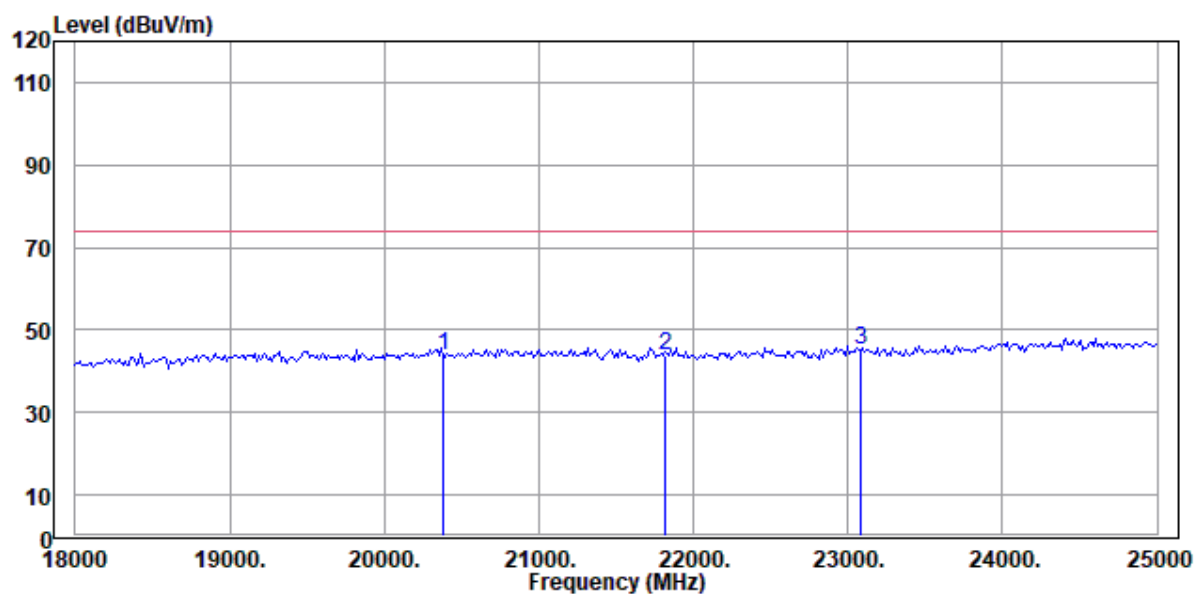


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20380.000	45.50	50.10	37.85	12.75	55.20	-4.60	74.00	-28.50 Peak
2	21822.000	44.84	49.31	37.50	13.23	55.20	-4.47	74.00	-29.16 Peak
3	23082.000	44.56	48.29	38.07	13.56	55.36	-3.73	74.00	-29.44 Peak

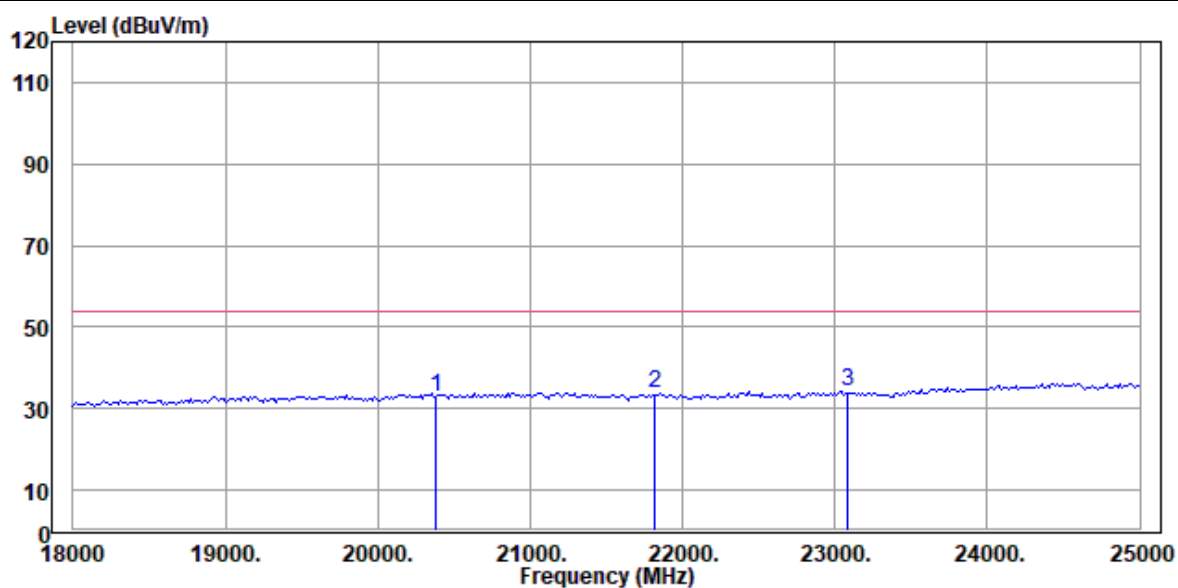


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20380.000	33.62	38.22	37.85	12.75	55.20	-4.60	54.00	-20.38 Average
2	21822.000	33.49	37.96	37.50	13.23	55.20	-4.47	54.00	-20.51 Average
3	23082.000	34.53	38.26	38.07	13.56	55.36	-3.73	54.00	-19.47 Average

Vertical



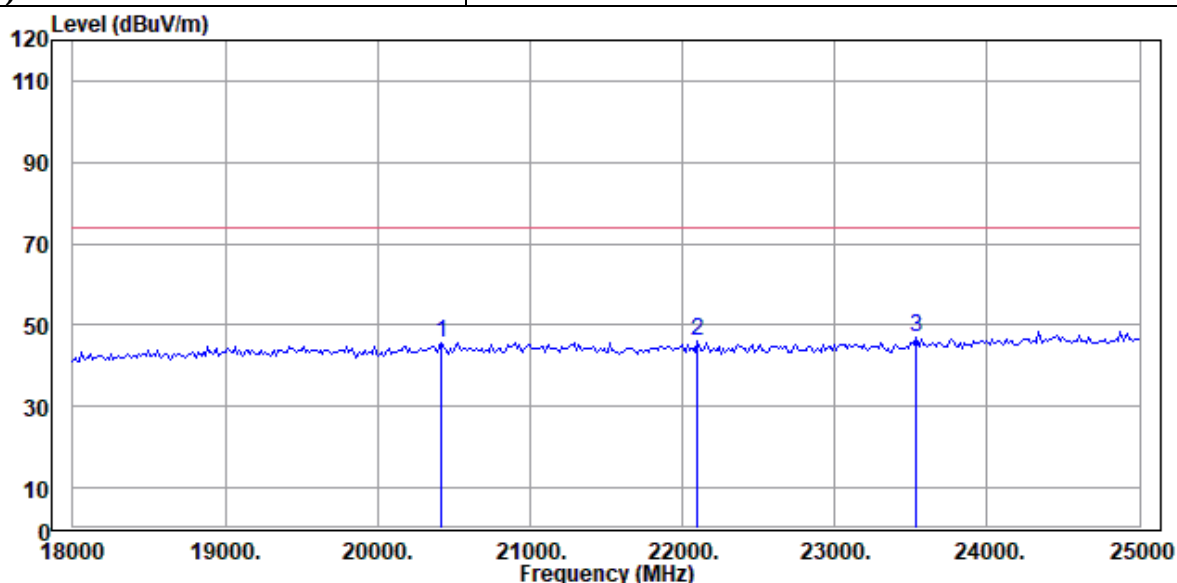
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20380.000	43.78	48.38	37.85	12.75	55.20	-4.60	74.00	-30.22	Peak
2	21822.000	43.63	48.10	37.50	13.23	55.20	-4.47	74.00	-30.37	Peak
3	23082.000	45.02	48.75	38.07	13.56	55.36	-3.73	74.00	-28.98	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20380.000	32.72	37.32	37.85	12.75	55.20	-4.60	54.00	-21.28	Average
2	21822.000	33.64	38.11	37.50	13.23	55.20	-4.47	54.00	-20.36	Average
3	23082.000	34.22	37.95	38.07	13.56	55.36	-3.73	54.00	-19.78	Average

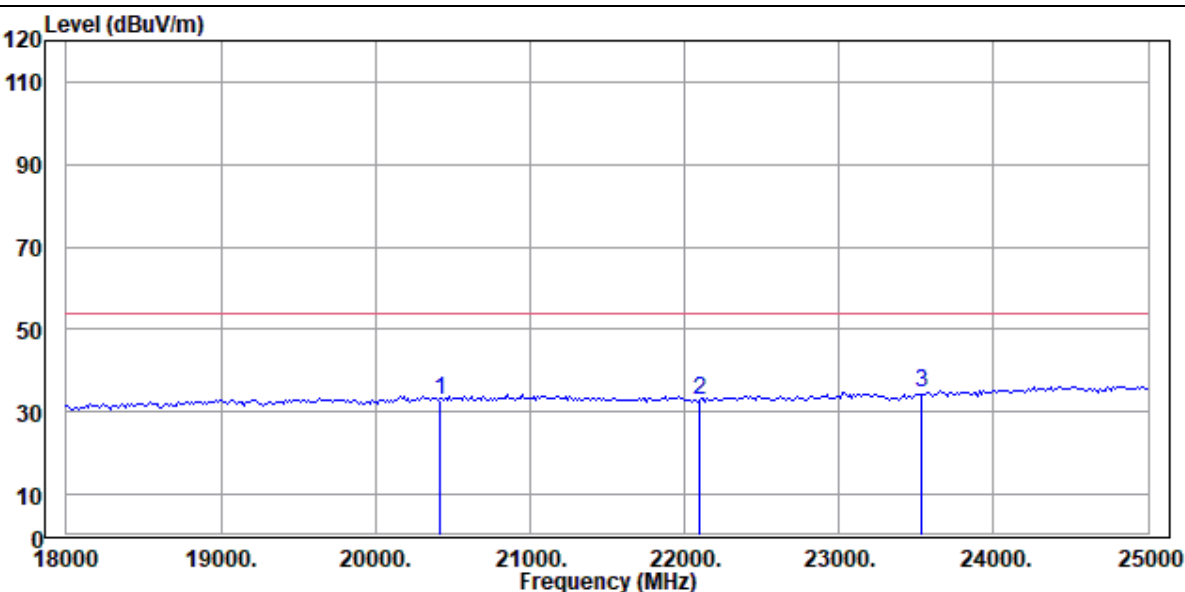
802.11n(HT20)

CH01



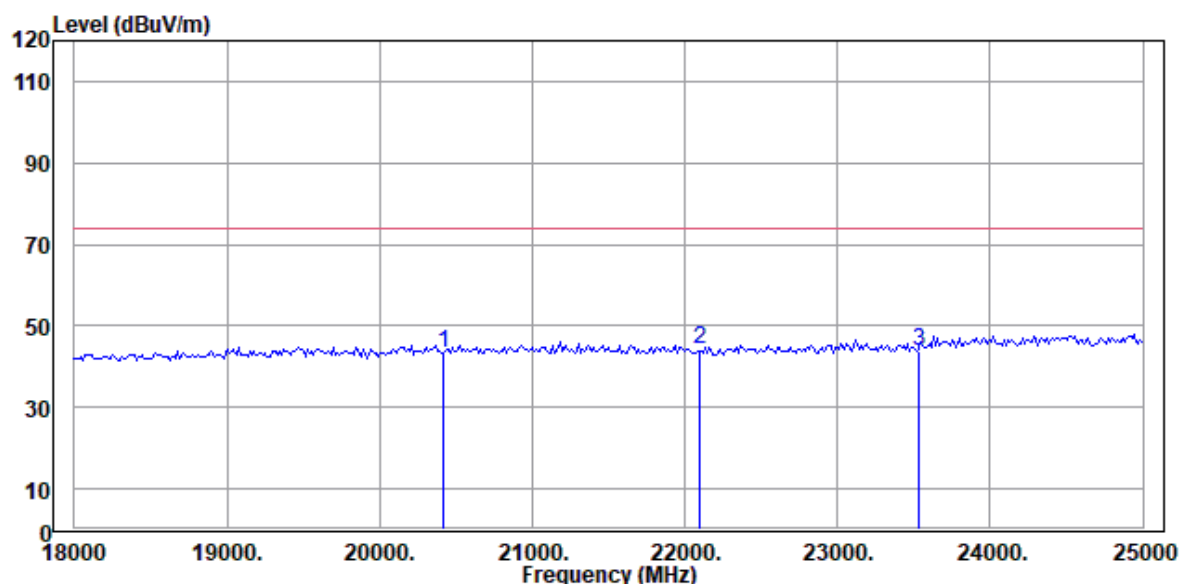
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20422.000	45.82	50.43	37.83	12.76	55.20	-4.61	74.00	-28.18	Peak
2	22102.000	45.91	50.27	37.54	13.32	55.22	-4.36	74.00	-28.09	Peak
3	23530.000	47.00	50.32	38.44	13.67	55.43	-3.32	74.00	-27.00	Peak

Horizontal

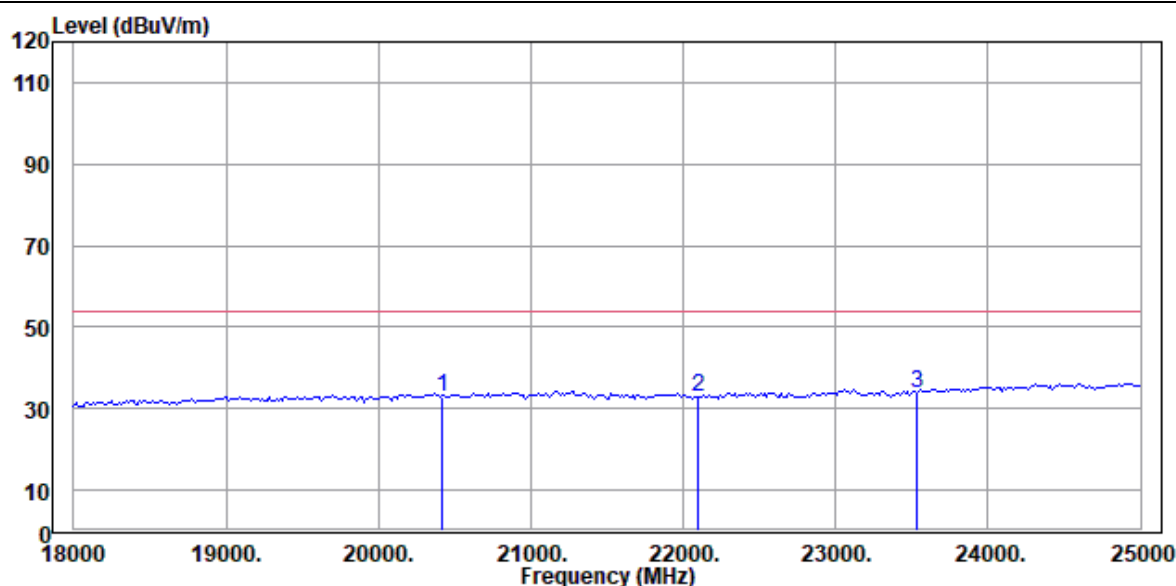


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20422.000	33.05	37.66	37.83	12.76	55.20	-4.61	54.00	-20.95	Average
2	22102.000	32.94	37.30	37.54	13.32	55.22	-4.36	54.00	-21.06	Average
3	23530.000	34.54	37.86	38.44	13.67	55.43	-3.32	54.00	-19.46	Average

Vertical



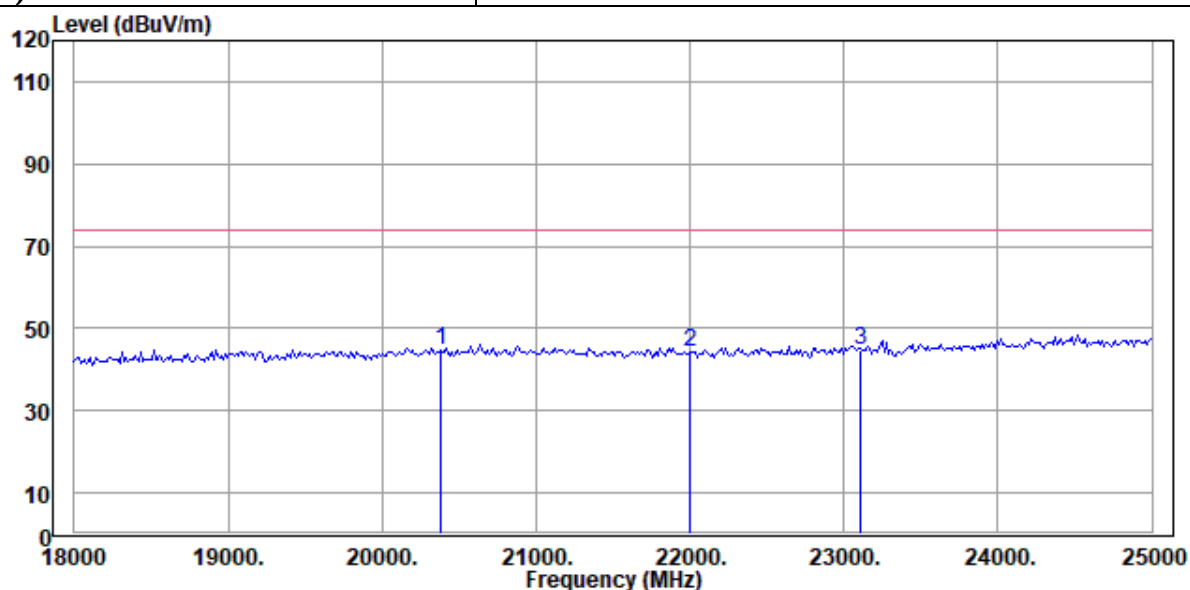
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20422.000	43.20	47.81	37.83	12.76	55.20	-4.61	74.00	-30.80 Peak
2	22102.000	44.06	48.42	37.54	13.32	55.22	-4.36	74.00	-29.94 Peak
3	23530.000	43.84	47.16	38.44	13.67	55.43	-3.32	74.00	-30.16 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20422.000	32.74	37.35	37.83	12.76	55.20	-4.61	54.00	-21.26 Average
2	22102.000	33.08	37.44	37.54	13.32	55.22	-4.36	54.00	-20.92 Average
3	23530.000	33.71	37.03	38.44	13.67	55.43	-3.32	54.00	-20.29 Average

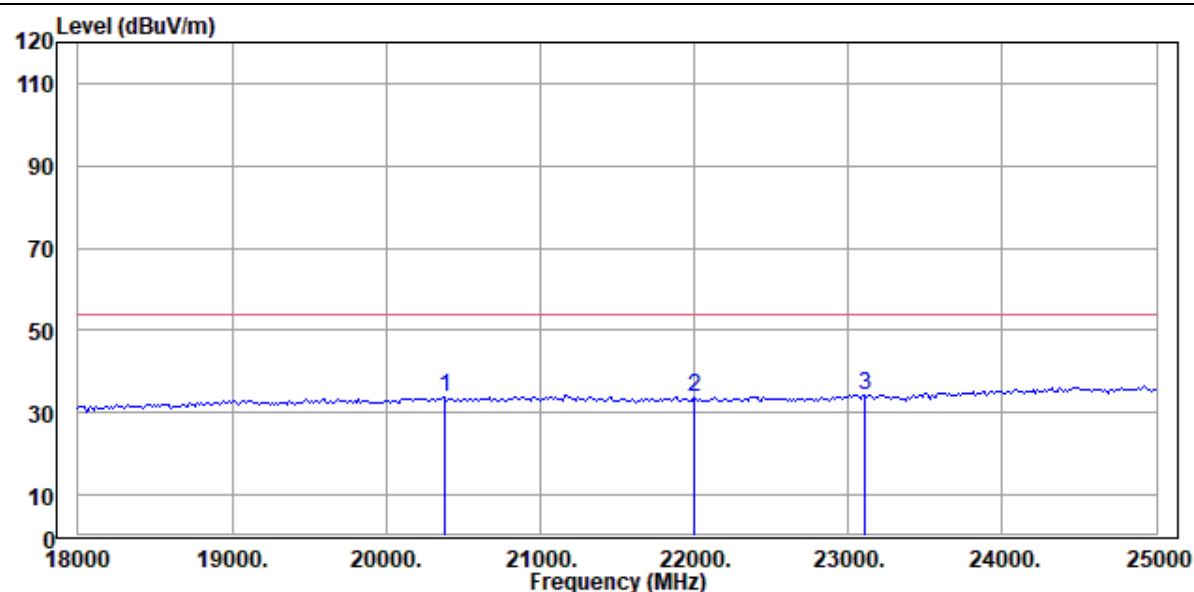
802.11n(HT20)

CH06



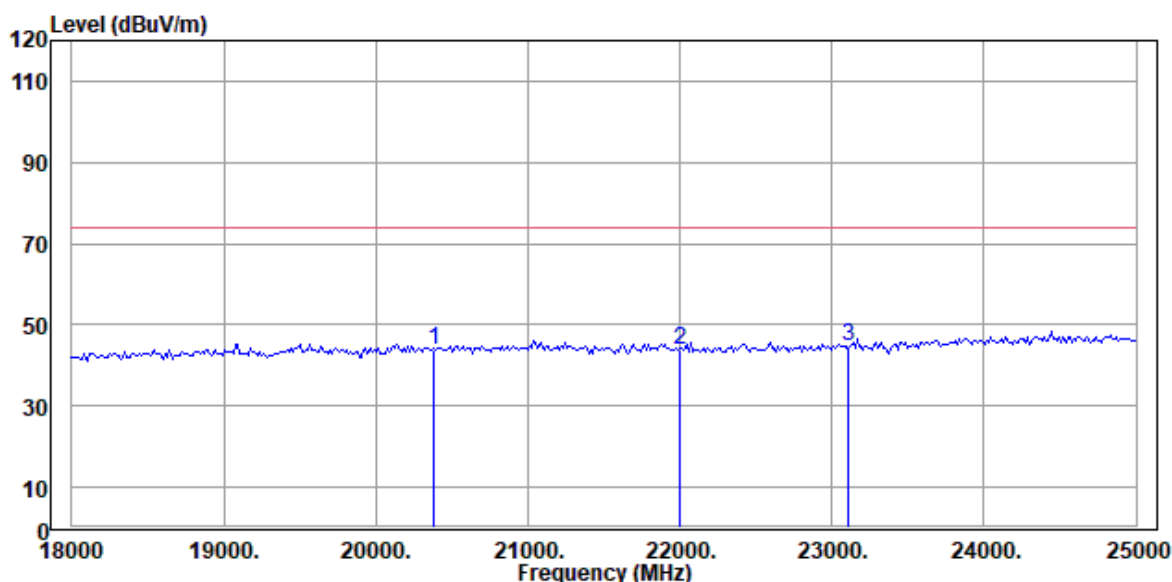
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20380.000	44.87	49.47	37.85	12.75	55.20	-4.60	74.00	-29.13 Peak
2	22004.000	44.40	48.81	37.50	13.29	55.20	-4.41	74.00	-29.60 Peak
3	23110.000	44.82	48.53	38.09	13.57	55.37	-3.71	74.00	-29.18 Peak

Horizontal

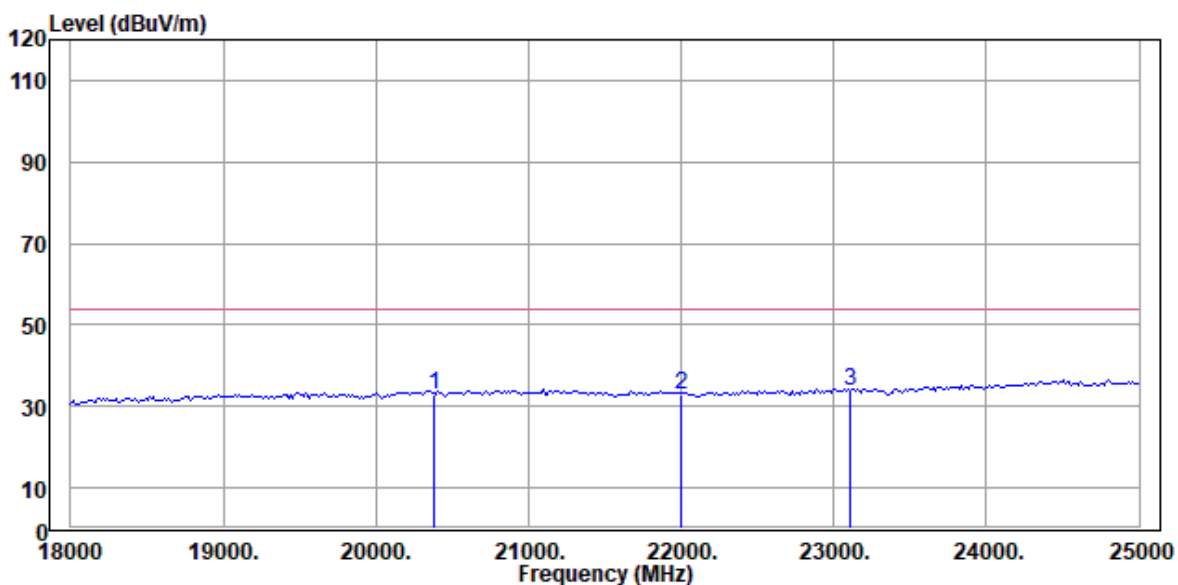


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20380.000	33.80	38.40	37.85	12.75	55.20	-4.60	54.00	-20.20 Average
2	22004.000	33.79	38.20	37.50	13.29	55.20	-4.41	54.00	-20.21 Average
3	23110.000	34.40	38.11	38.09	13.57	55.37	-3.71	54.00	-19.60 Average

Vertical



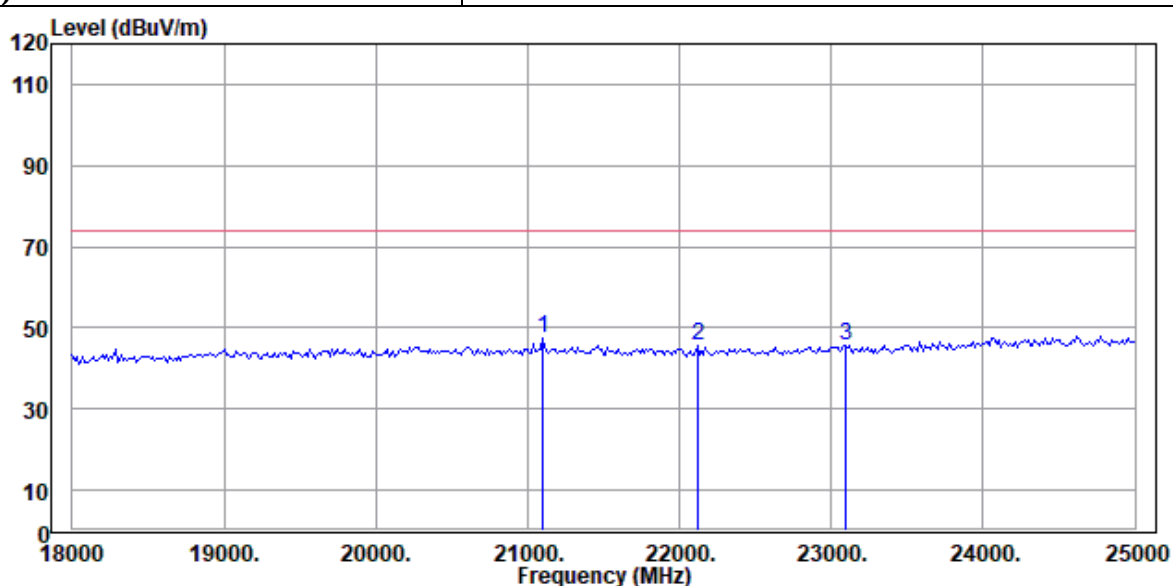
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20380.000	44.01	48.61	37.85	12.75	55.20	-4.60	74.00	-29.99	Peak
2	22004.000	43.93	48.34	37.50	13.29	55.20	-4.41	74.00	-30.07	Peak
3	23110.000	44.85	48.56	38.09	13.57	55.37	-3.71	74.00	-29.15	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20380.000	32.85	37.45	37.85	12.75	55.20	-4.60	54.00	-21.15	Average
2	22004.000	33.07	37.48	37.50	13.29	55.20	-4.41	54.00	-20.93	Average
3	23110.000	33.99	37.70	38.09	13.57	55.37	-3.71	54.00	-20.01	Average

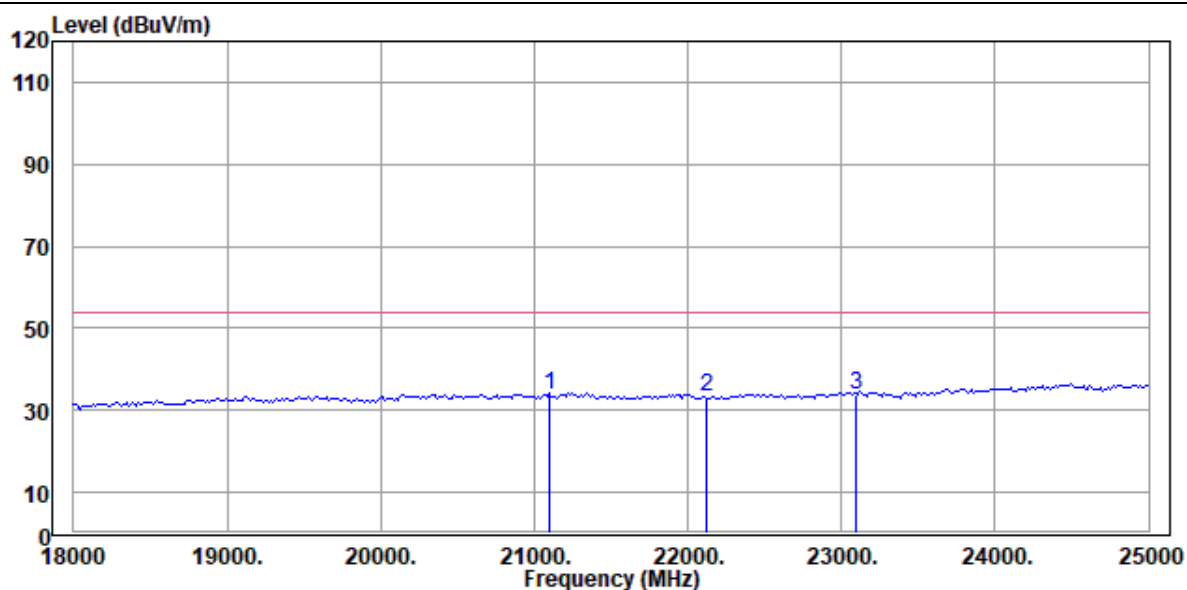
802.11n(HT20)

CH11



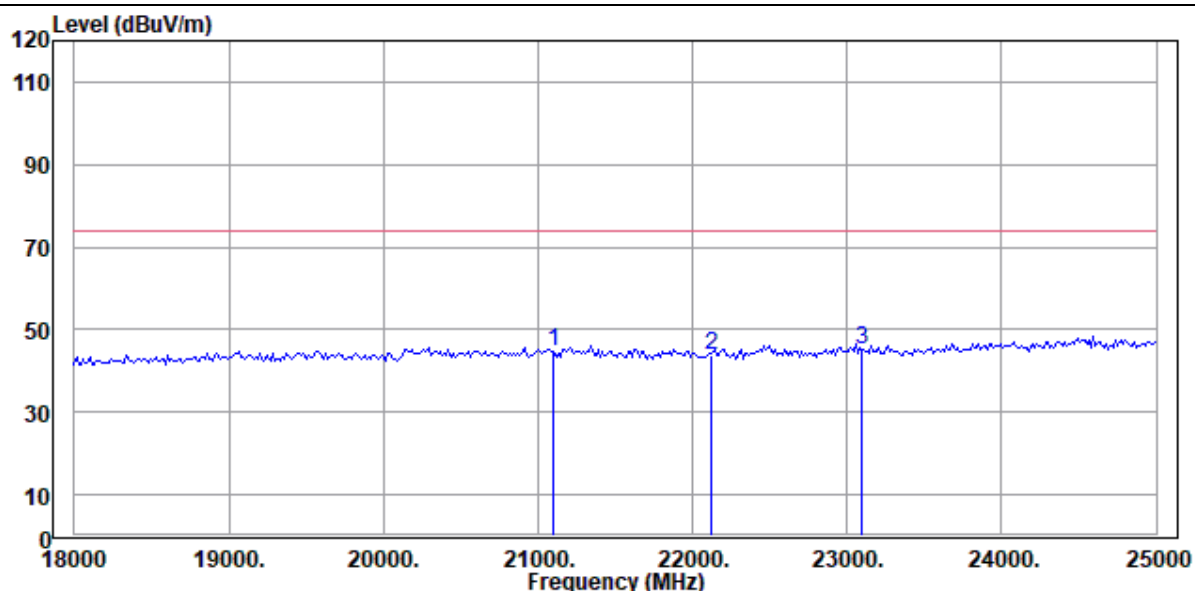
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	21094.000	47.30	51.95	37.56	12.99	55.20	-4.65	74.00	-26.70	Peak
2	22116.000	45.85	50.20	37.55	13.32	55.22	-4.35	74.00	-28.15	Peak
3	23096.000	45.52	49.24	38.08	13.56	55.36	-3.72	74.00	-28.48	Peak

Horizontal

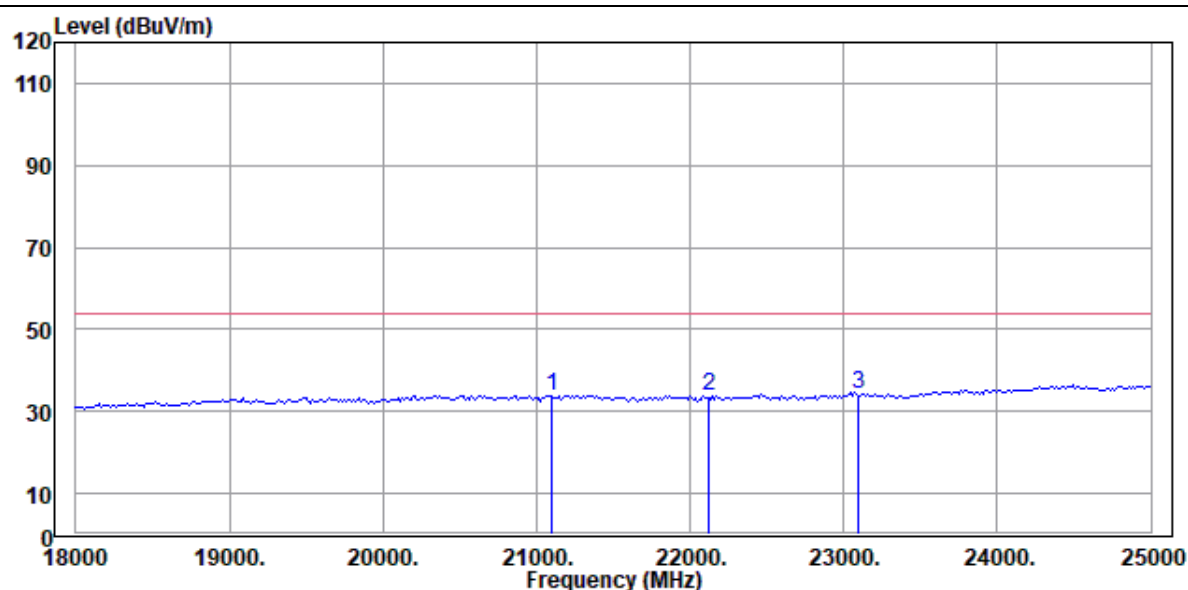


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preampl Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	21094.000	33.65	38.30	37.56	12.99	55.20	-4.65	54.00	-20.35	Average
2	22116.000	33.17	37.52	37.55	13.32	55.22	-4.35	54.00	-20.83	Average
3	23096.000	33.98	37.70	38.08	13.56	55.36	-3.72	54.00	-20.02	Average

Vertical



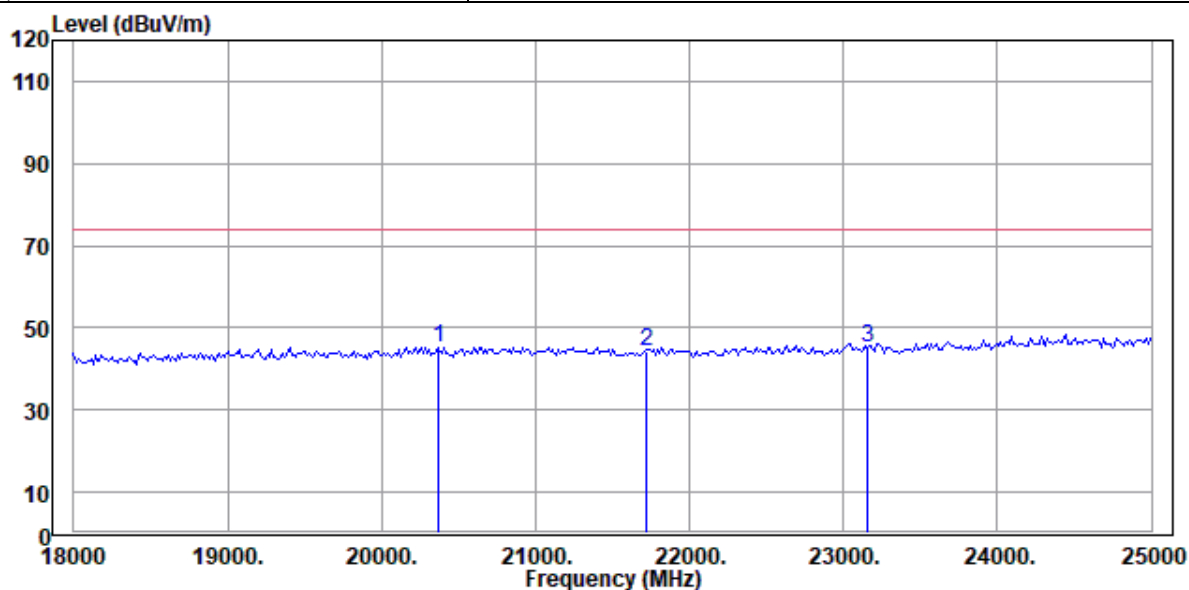
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	21094.000	44.57	49.22	37.56	12.99	55.20	-4.65	74.00	-29.43 Peak
2	22116.000	43.92	48.27	37.55	13.32	55.22	-4.35	74.00	-30.08 Peak
3	23096.000	45.17	48.89	38.08	13.56	55.36	-3.72	74.00	-28.83 Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	21094.000	33.95	38.60	37.56	12.99	55.20	-4.65	54.00	-20.05 Average
2	22116.000	33.66	38.01	37.55	13.32	55.22	-4.35	54.00	-20.34 Average
3	23096.000	34.06	37.78	38.08	13.56	55.36	-3.72	54.00	-19.94 Average

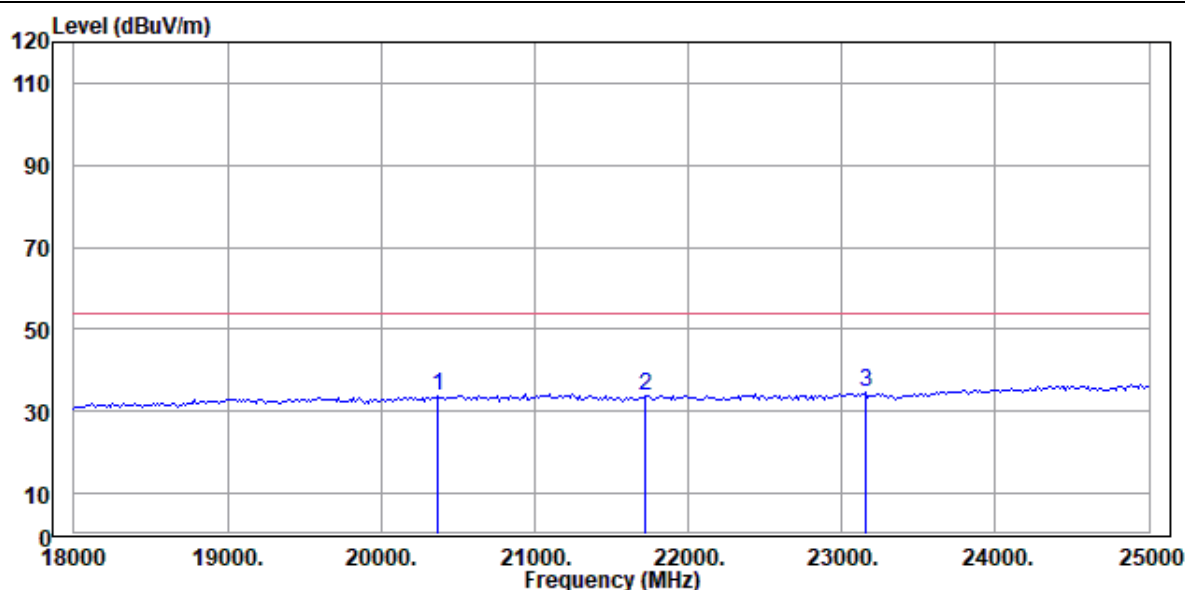
802.11n(HT40)

CH03



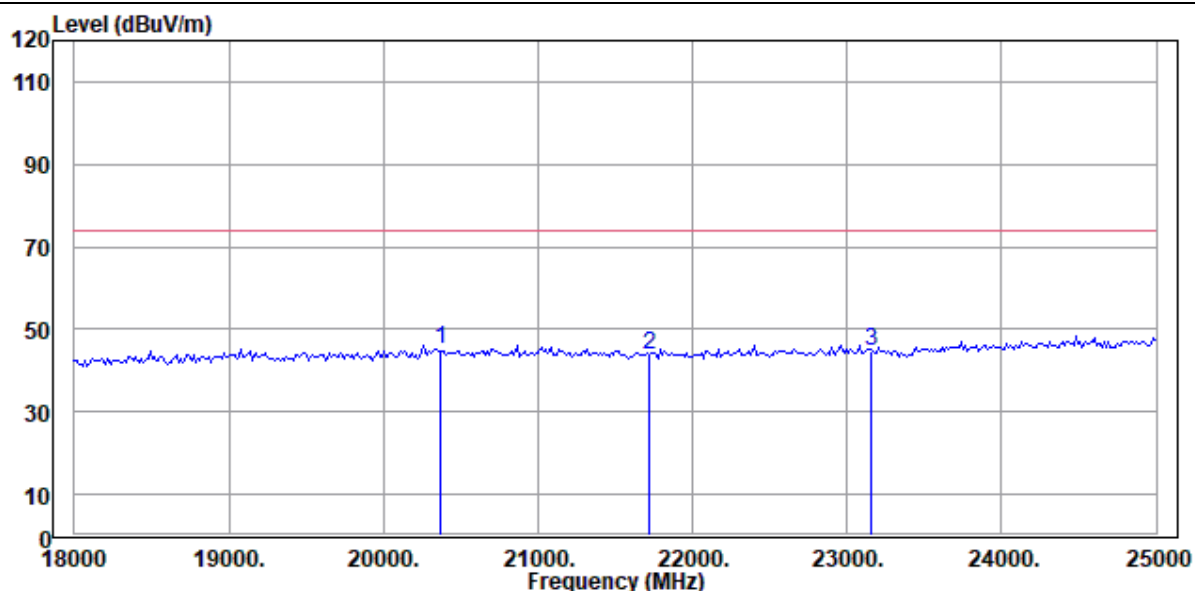
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20366.000	45.31	49.92	37.85	12.74	55.20	-4.61	74.00	-28.69 Peak
2	21724.000	44.10	48.60	37.50	13.20	55.20	-4.50	74.00	-29.90 Peak
3	23152.000	45.11	48.78	38.12	13.58	55.37	-3.67	74.00	-28.89 Peak

Horizontal

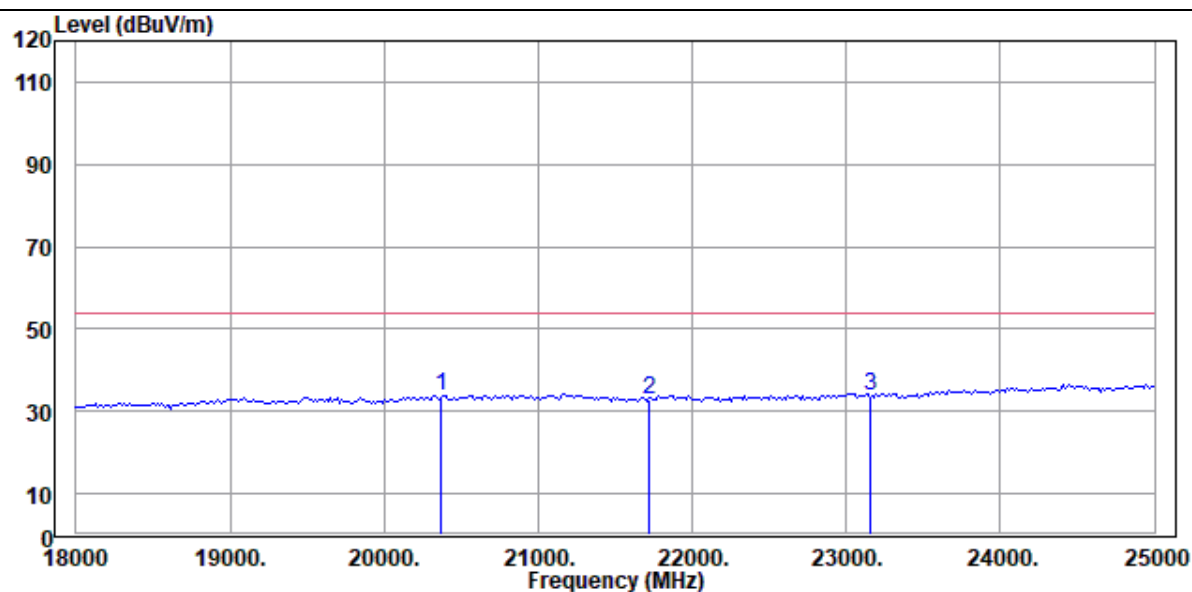


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	20366.000	33.87	38.48	37.85	12.74	55.20	-4.61	54.00	-20.13 Average
2	21724.000	33.86	38.36	37.50	13.20	55.20	-4.50	54.00	-20.14 Average
3	23152.000	34.48	38.15	38.12	13.58	55.37	-3.67	54.00	-19.52 Average

Vertical



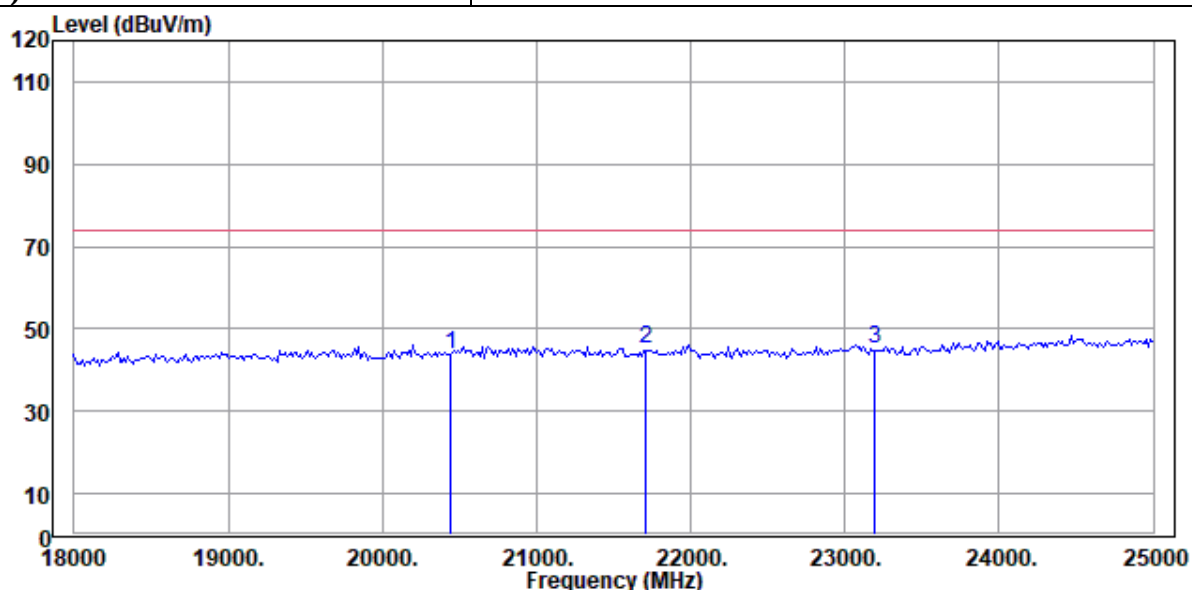
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20366.000	44.96	49.57	37.85	12.74	55.20	-4.61	74.00	-29.04	Peak
2	21724.000	43.66	48.16	37.50	13.20	55.20	-4.50	74.00	-30.34	Peak
3	23152.000	44.87	48.54	38.12	13.58	55.37	-3.67	74.00	-29.13	Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20366.000	33.98	38.59	37.85	12.74	55.20	-4.61	54.00	-20.02	Average
2	21724.000	33.02	37.52	37.50	13.20	55.20	-4.50	54.00	-20.98	Average
3	23152.000	33.87	37.54	38.12	13.58	55.37	-3.67	54.00	-20.13	Average

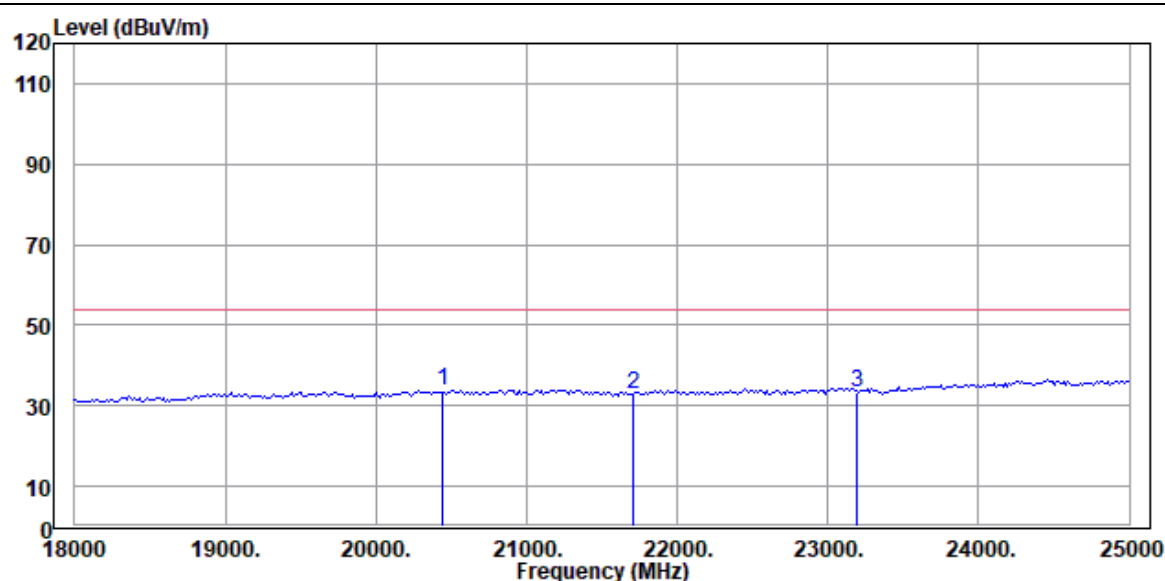
802.11n(HT40)

CH06



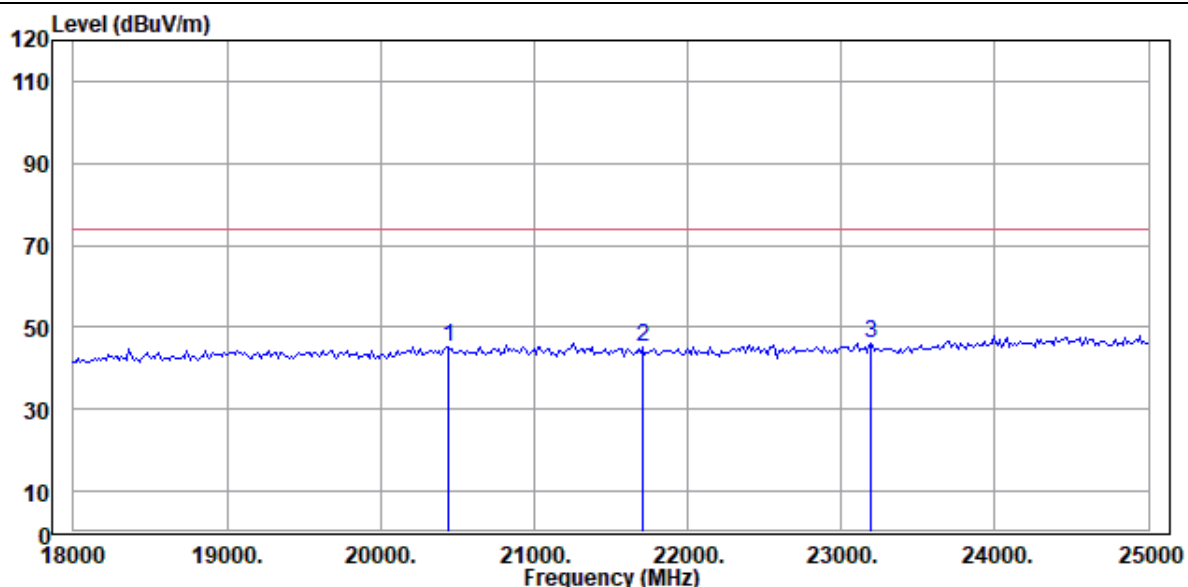
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20436.000	43.87	48.47	37.83	12.77	55.20	-4.60	74.00	-30.13 Peak
2	21710.000	45.28	49.79	37.50	13.19	55.20	-4.51	74.00	-28.72 Peak
3	23194.000	45.14	48.77	38.16	13.59	55.38	-3.63	74.00	-28.86 Peak

Horizontal

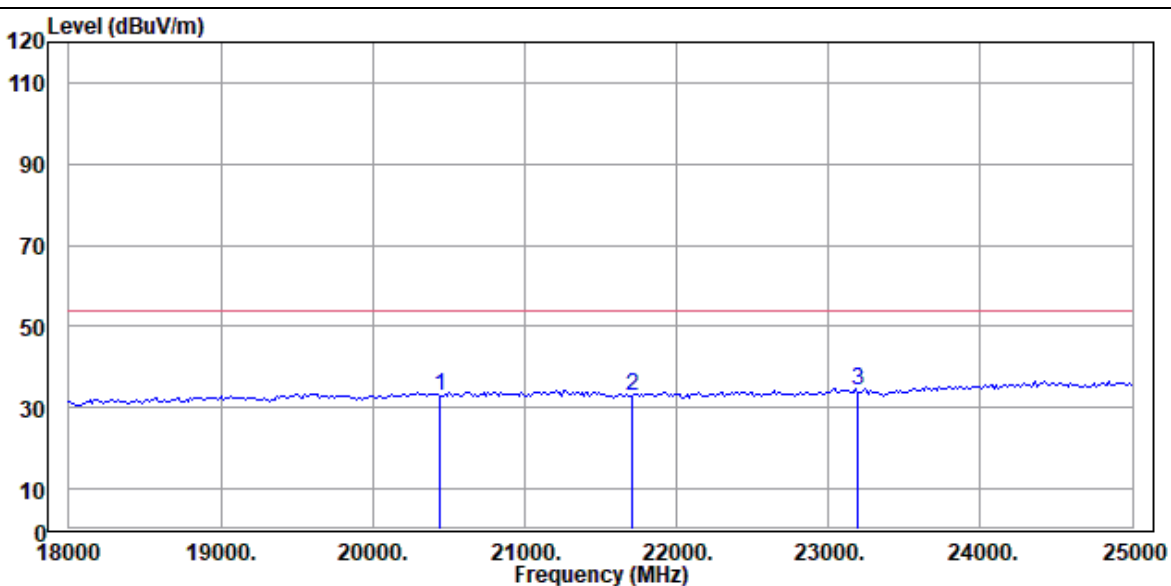


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	20436.000	33.79	38.39	37.83	12.77	55.20	-4.60	54.00	-20.21 Average
2	21710.000	32.79	37.30	37.50	13.19	55.20	-4.51	54.00	-21.21 Average
3	23194.000	33.23	36.86	38.16	13.59	55.38	-3.63	54.00	-20.77 Average

Vertical



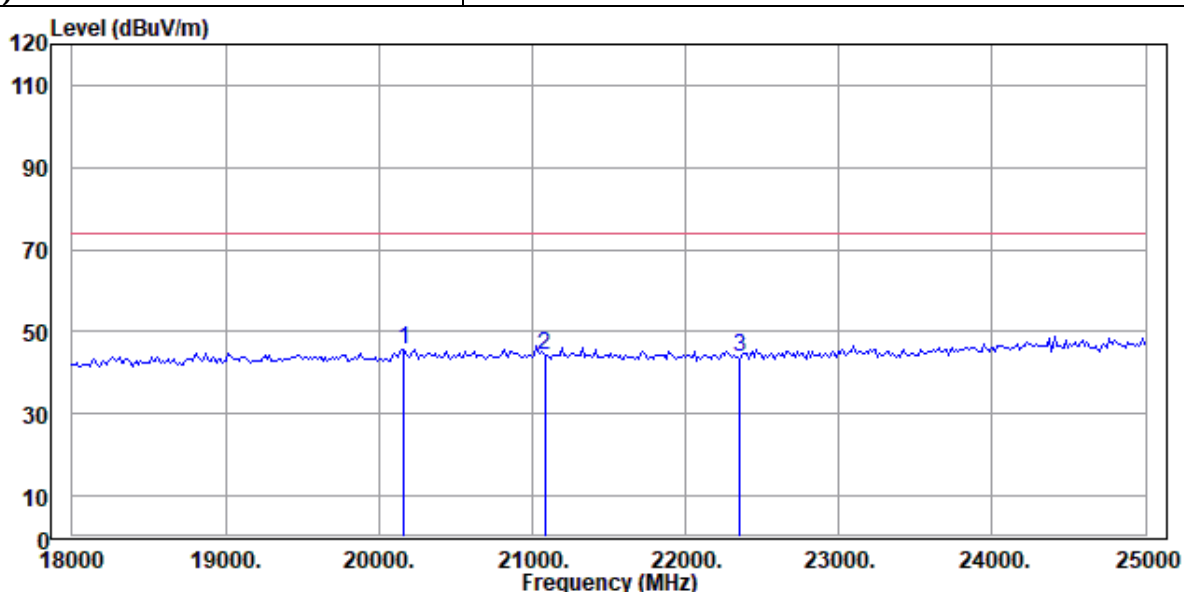
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20436.000	45.09	49.69	37.83	12.77	55.20	-4.60	74.00	-28.91	Peak
2	21710.000	45.12	49.63	37.50	13.19	55.20	-4.51	74.00	-28.88	Peak
3	23194.000	46.00	49.63	38.16	13.59	55.38	-3.63	74.00	-28.00	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
			dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20436.000	32.92	37.52	37.83	12.77	55.20	-4.60	54.00	-21.08	Average
2	21710.000	32.80	37.31	37.50	13.19	55.20	-4.51	54.00	-21.20	Average
3	23194.000	34.02	37.65	38.16	13.59	55.38	-3.63	54.00	-19.98	Average

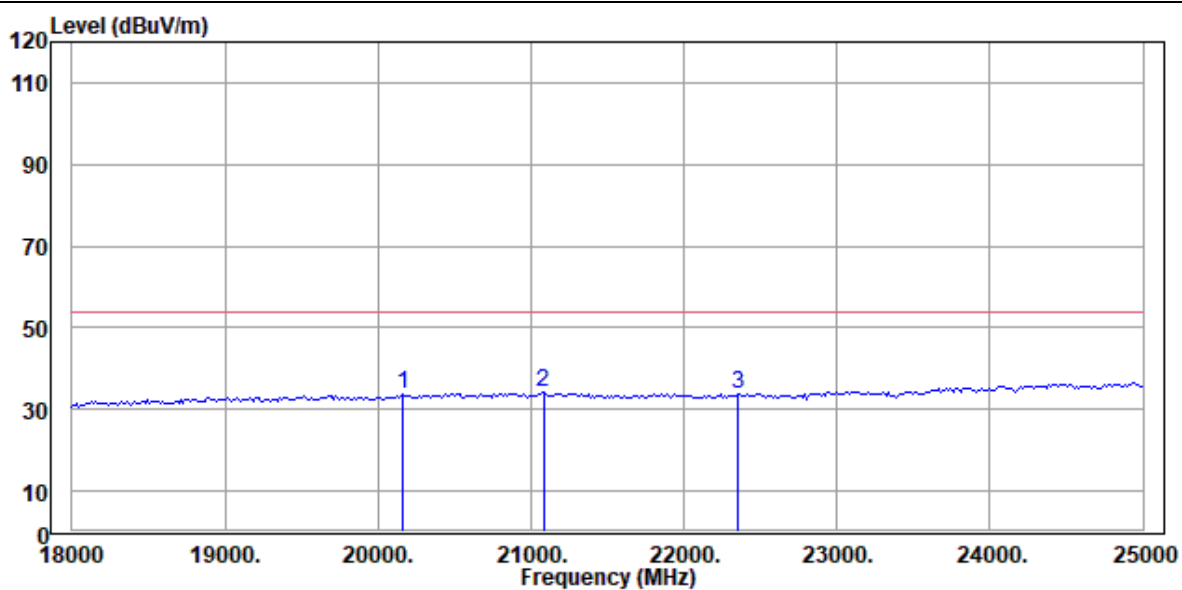
802.11n(HT40)

CH09



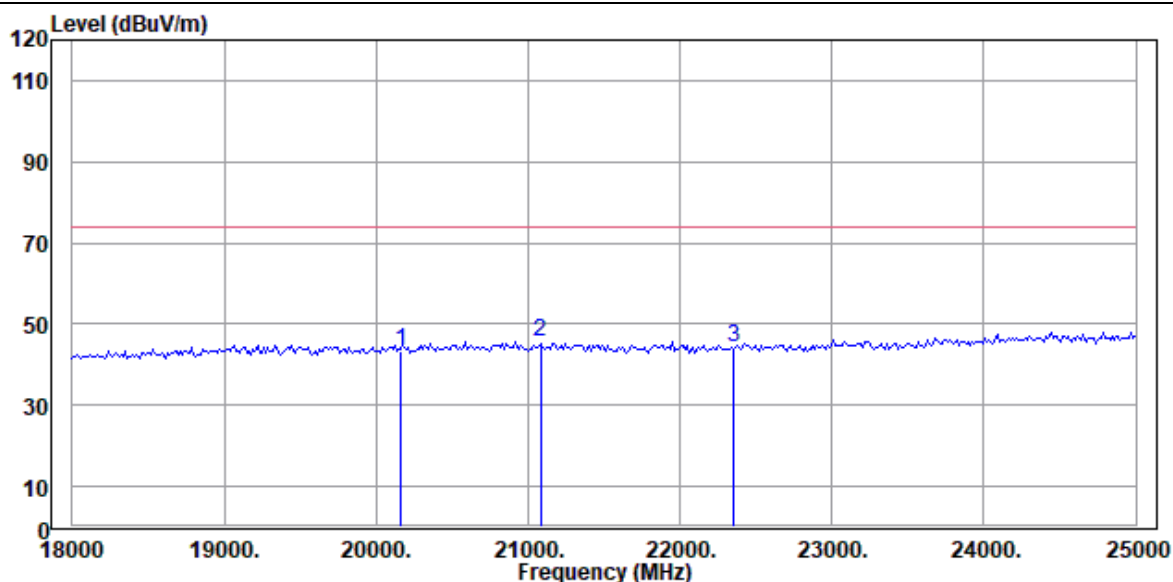
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20156.000	45.59	50.18	37.94	12.67	55.20	-4.59	74.00	-28.41	Peak
2	21080.000	44.32	48.97	37.57	12.98	55.20	-4.65	74.00	-29.68	Peak
3	22354.000	43.58	47.81	37.64	13.38	55.25	-4.23	74.00	-30.42	Peak

Horizontal

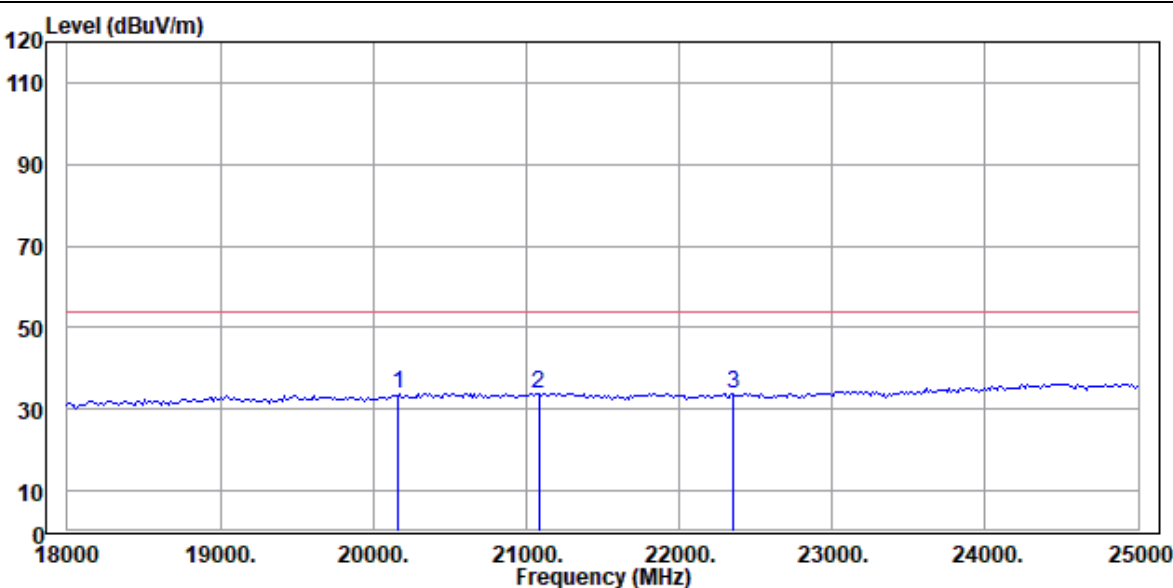


	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
	MHz	dBuV/m	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20156.000	33.56	38.15	37.94	12.67	55.20	-4.59	54.00	-20.44	Average
2	21080.000	34.05	38.70	37.57	12.98	55.20	-4.65	54.00	-19.95	Average
3	22354.000	33.77	38.00	37.64	13.38	55.25	-4.23	54.00	-20.23	Average

Vertical



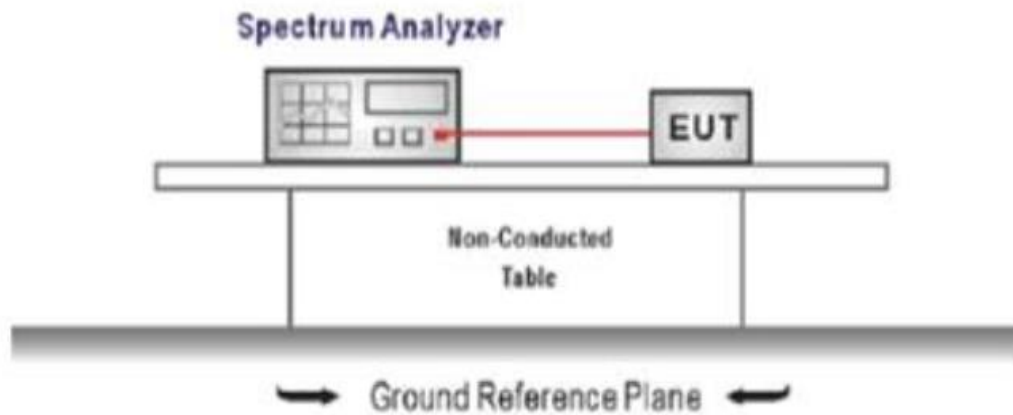
	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
			Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20156.000	43.51	48.10	37.94	12.67	55.20	-4.59	74.00	-30.49	Peak
2	21080.000	45.47	50.12	37.57	12.98	55.20	-4.65	74.00	-28.53	Peak
3	22354.000	44.17	48.40	37.64	13.38	55.25	-4.23	74.00	-29.83	Peak



	Freq	Level	Read	Ant	Cable	Preamp		Limit	Over	
			Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	20156.000	33.55	38.14	37.94	12.67	55.20	-4.59	54.00	-20.45	Average
2	21080.000	33.98	38.63	37.57	12.98	55.20	-4.65	54.00	-20.02	Average
3	22354.000	33.85	38.08	37.64	13.38	55.25	-4.23	54.00	-20.15	Average

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Block Diagram of Test Setup



5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

Use the test method described in ANSI C63.10:

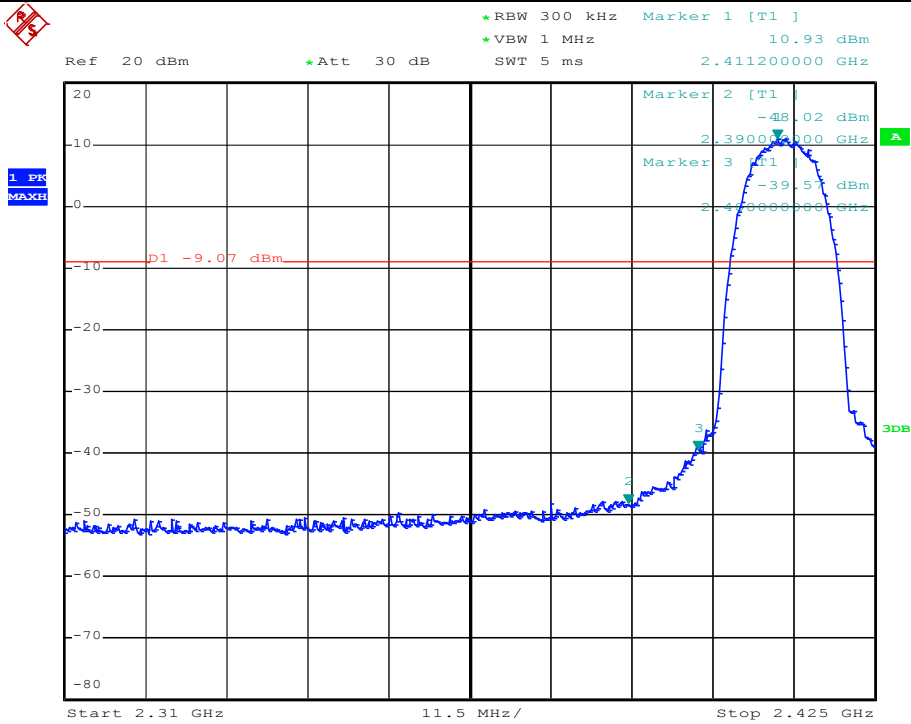
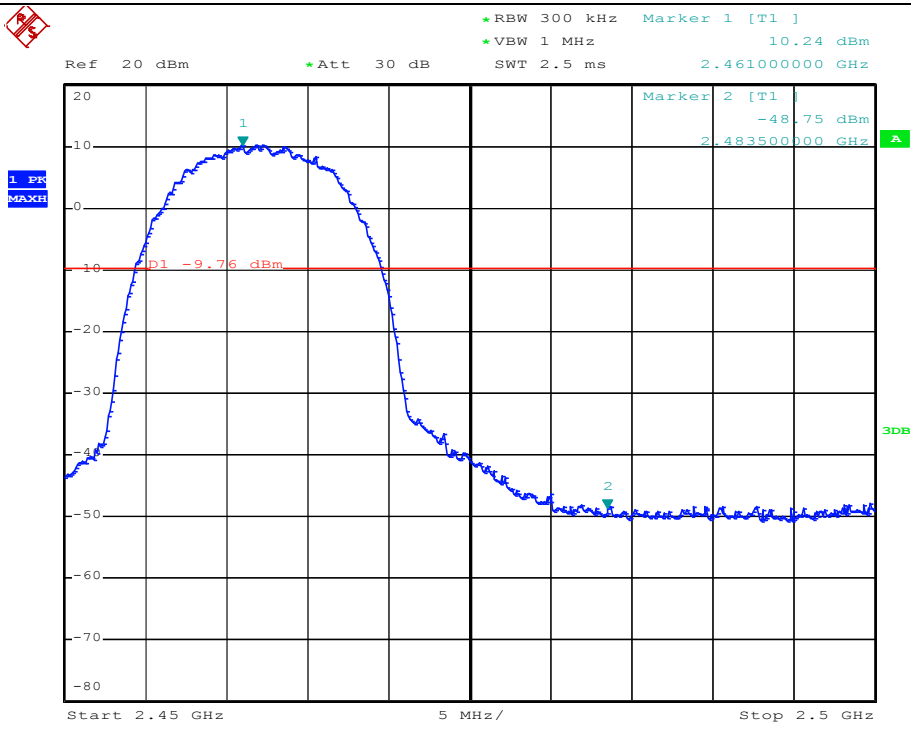
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

Note: The cable loss and attenuator loss were offset into spectrum analyzer as an amplitude offset.

5.4. Test result

PASS (The testing data was attached in the next pages.)

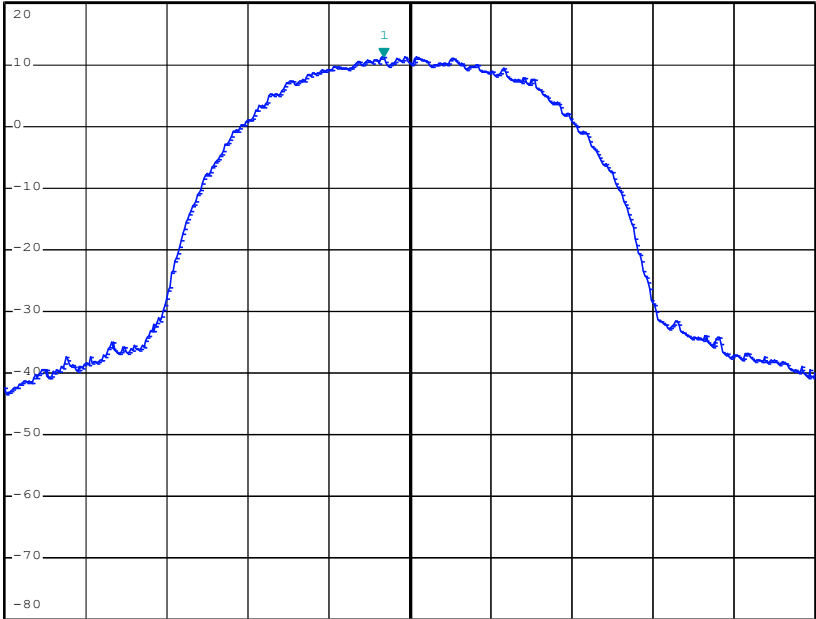
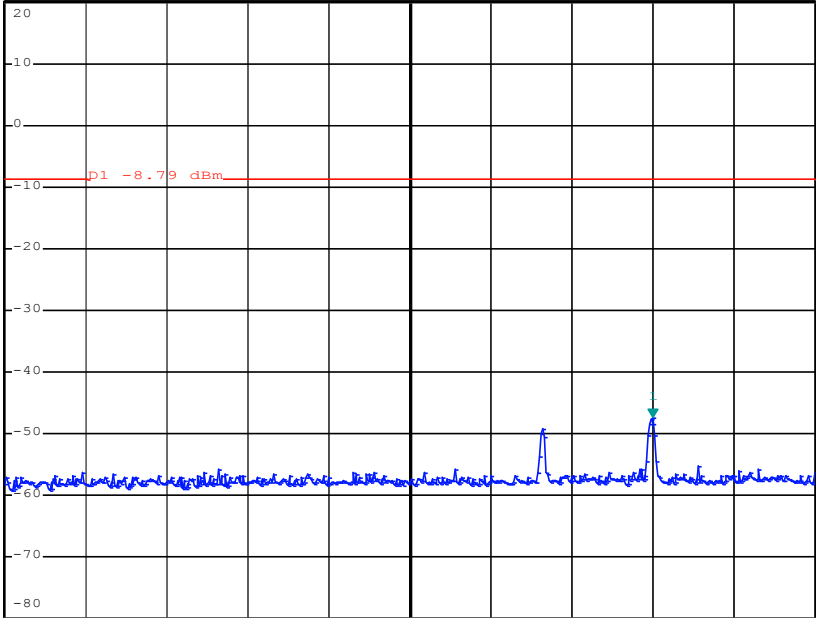
Note 1: Final Level = Spectrum Analyzer Read Level + Cable Loss

Test Item:	Bandedge	Type:	802.11b
CH01	 Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz Marker 1 [T1] 10.93 dBm 2.411200000 GHz Marker 2 [T1] -48.02 dBm 2.390000000 GHz Marker 3 [T1] -39.57 dBm 2.410000000 GHz D1 -9.07 dBm 3dB Start 2.31 GHz 11.5 MHz/ Stop 2.425 GHz		
CH11	 Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz Marker 1 [T1] 10.24 dBm 2.461000000 GHz Marker 2 [T1] -48.75 dBm 2.483500000 GHz D1 -9.76 dBm 3dB Start 2.45 GHz 5 MHz/ Stop 2.5 GHz		

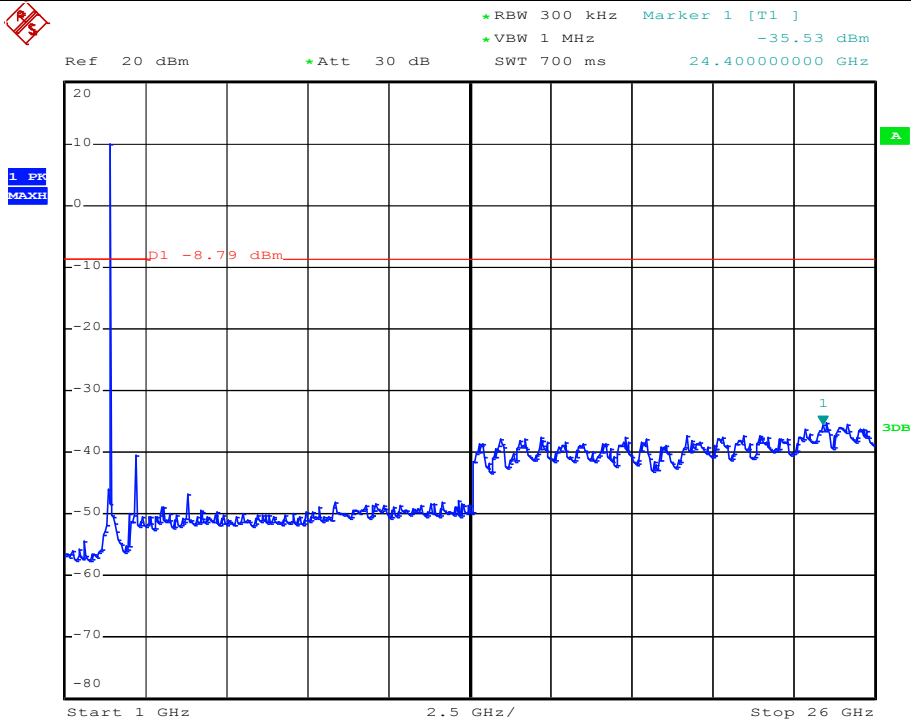
CH11

Page 72 of 141

CH09

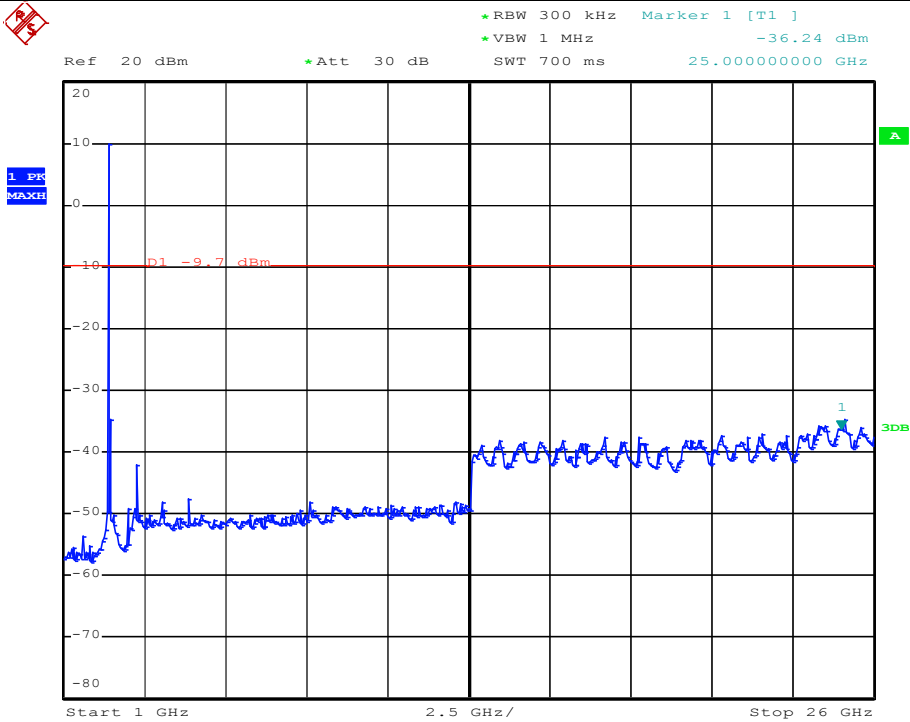
Test Item:	SE	Type:	802.11b
CH01 Reference level	1 PR MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 11.21 dBm 2.411040000 GHz  Center 2.412 GHz3 MHz/Span 30 MHz		
CH01 30MHz-1000MHz	1 PR MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 30 ms Marker 1 [T1] -47.42 dBm 806.000000000 MHz  Start 30 MHz97 MHz/Stop 1 GHz		

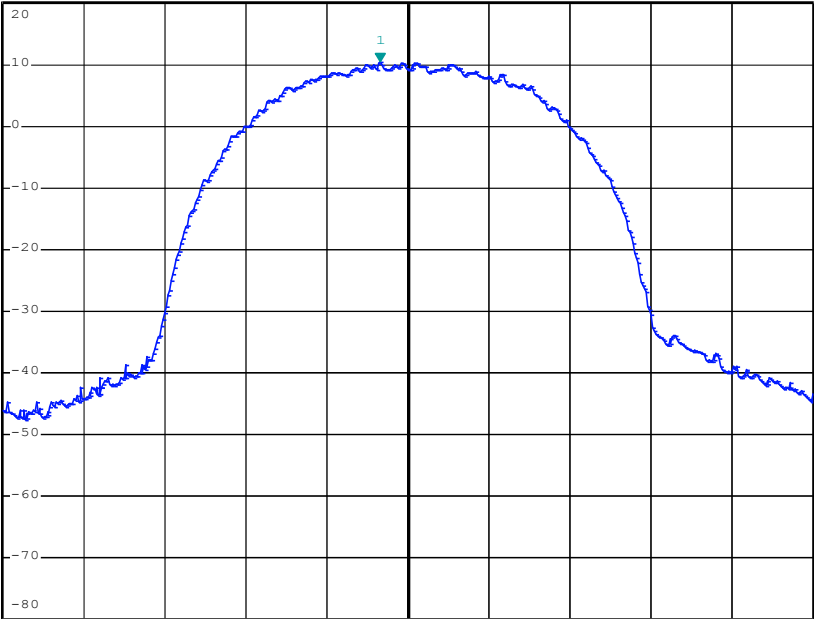
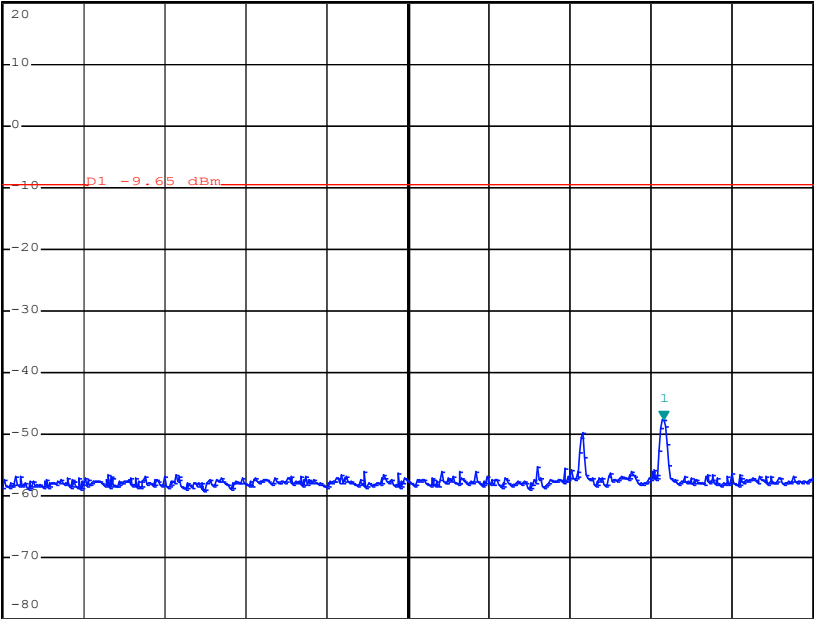
CH01
Above 1GHz



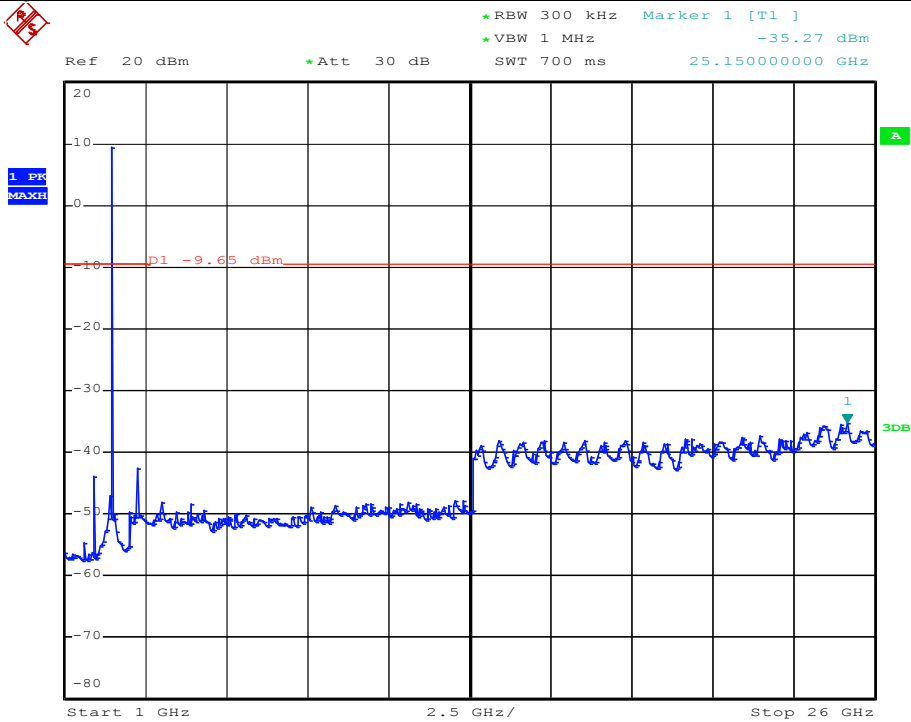
Test Item:	SE	Type:	802.11b
CH06 Reference level	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 10.30 dBm 2.435980000 GHz		
CH06 30MHz-1000MHz	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 30 ms Marker 1 [T1] -47.98 dBm 813.760000000 MHz D1 -9.7 dBm		

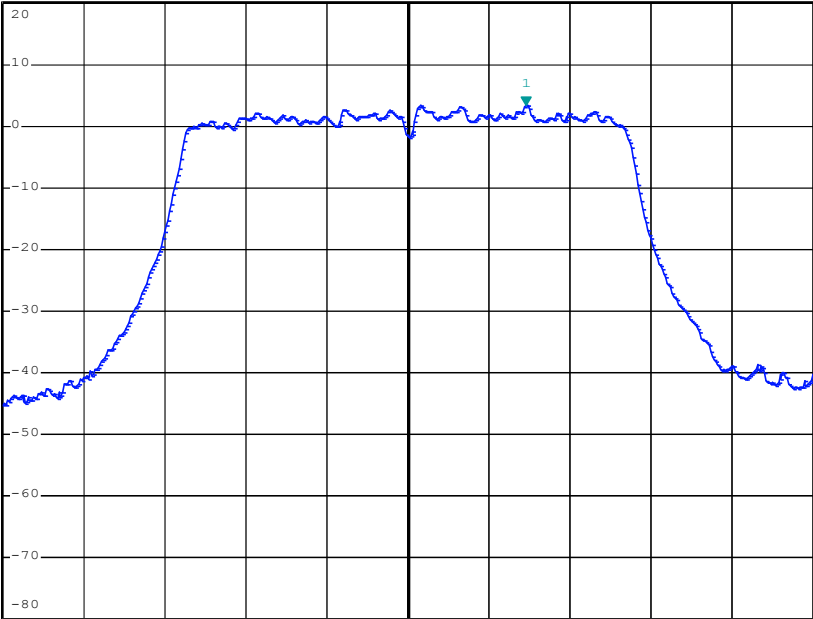
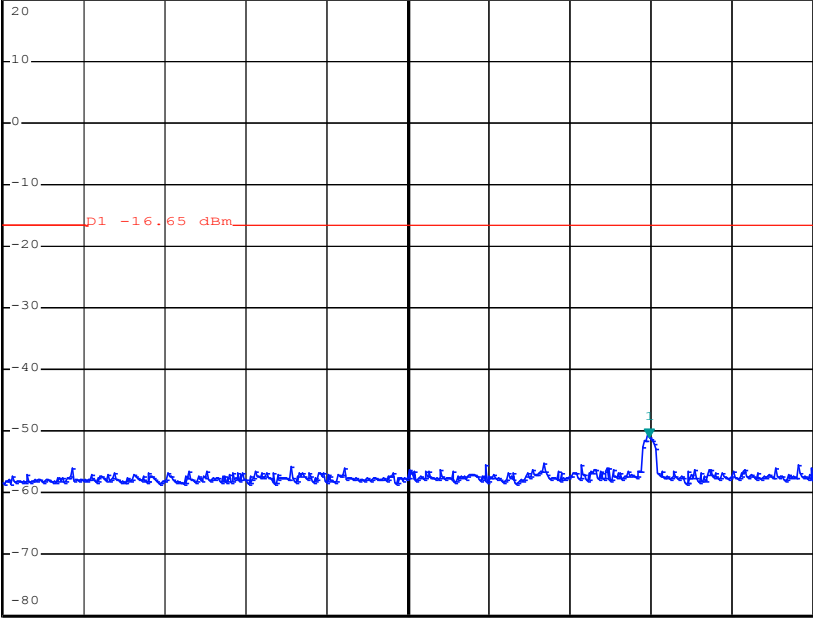
CH06
Above 1GHz



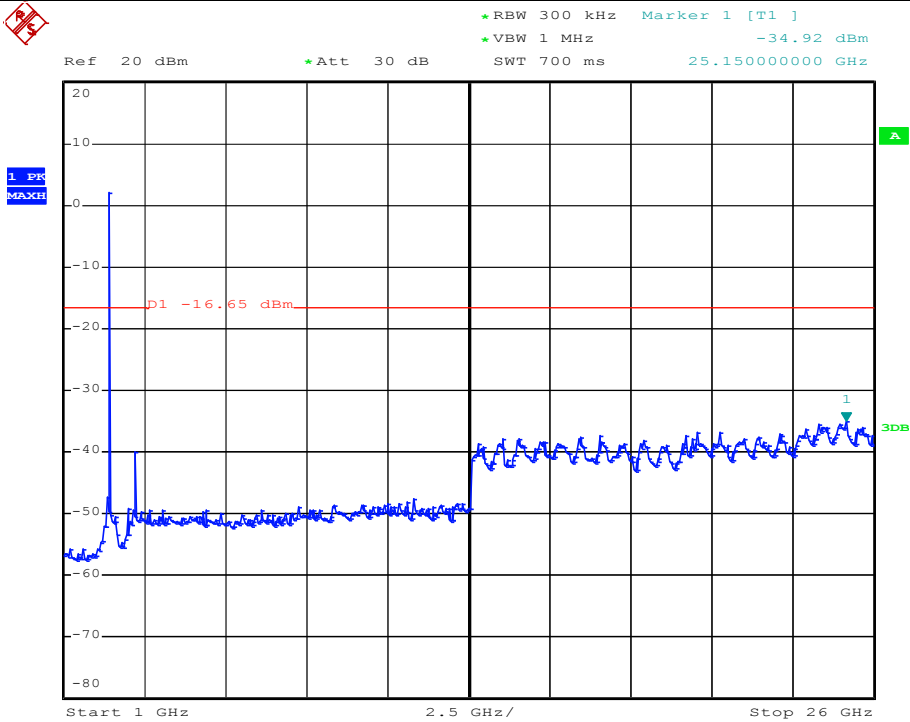
Test Item:	SE	Type:	802.11b
CH11 Reference level	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 10.35 dBm 2.460980000 GHz  Center 2.462 GHz3 MHz/30 MHz		
CH11 30MHz-1000MHz	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 30 ms Marker 1 [T1] -47.55 dBm 821.520000000 MHz  Start 30 MHz97 MHz/1 GHz		

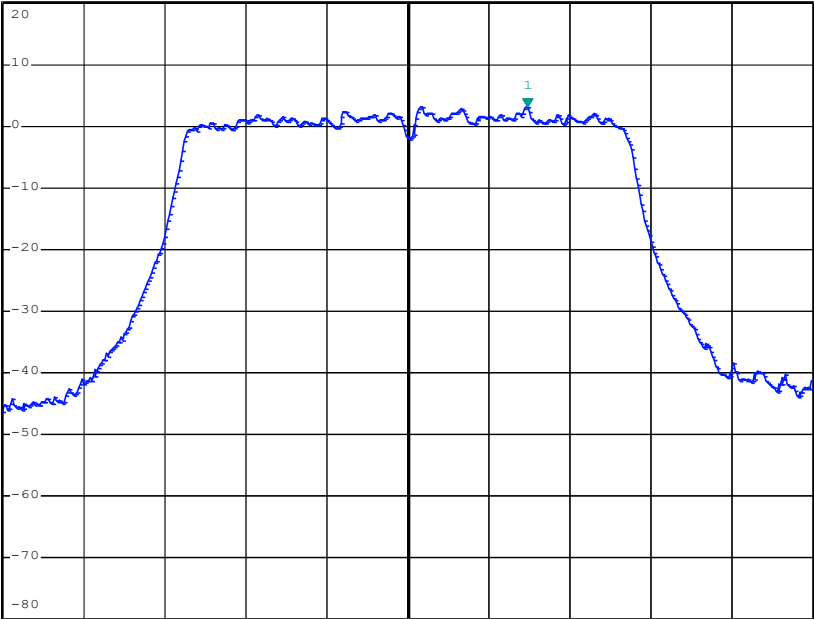
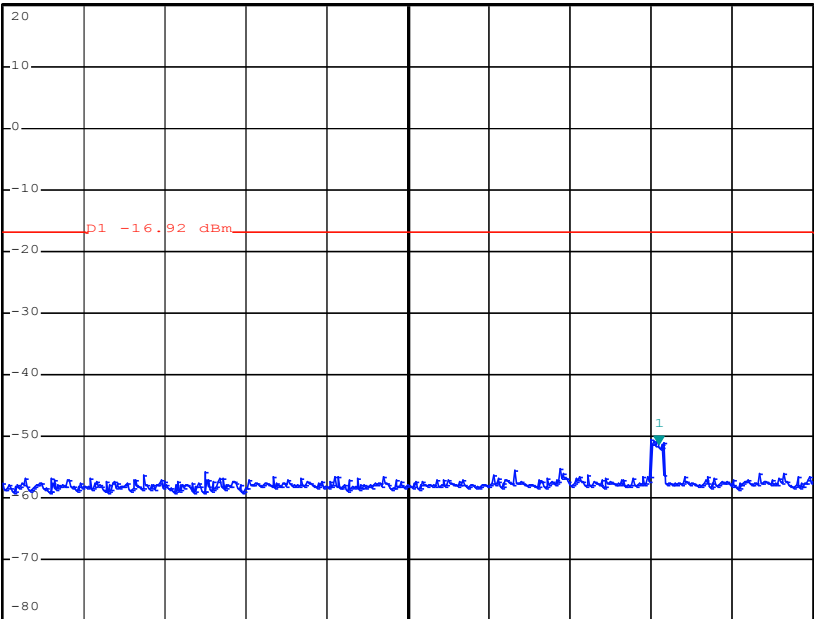
CH11
Above 1GHz



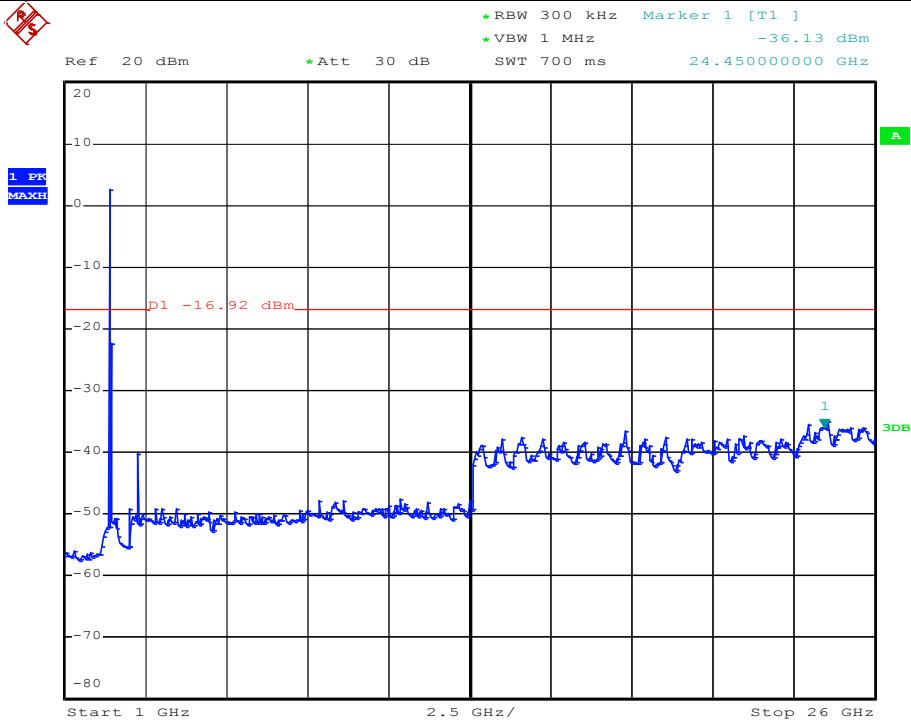
Test Item:	SE	Type:	802.11g
CH01 Reference level	1 PK MAXH Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 3.35 dBm 2.416380000 GHz  Center 2.412 GHz 3 MHz/ Span 30 MHz		
CH01 30MHz-1000MHz	1 PK MAXH Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 30 ms Marker 1 [T1] -51.12 dBm 804.060000000 MHz  Start 30 MHz 97 MHz/ Stop 1 GHz		

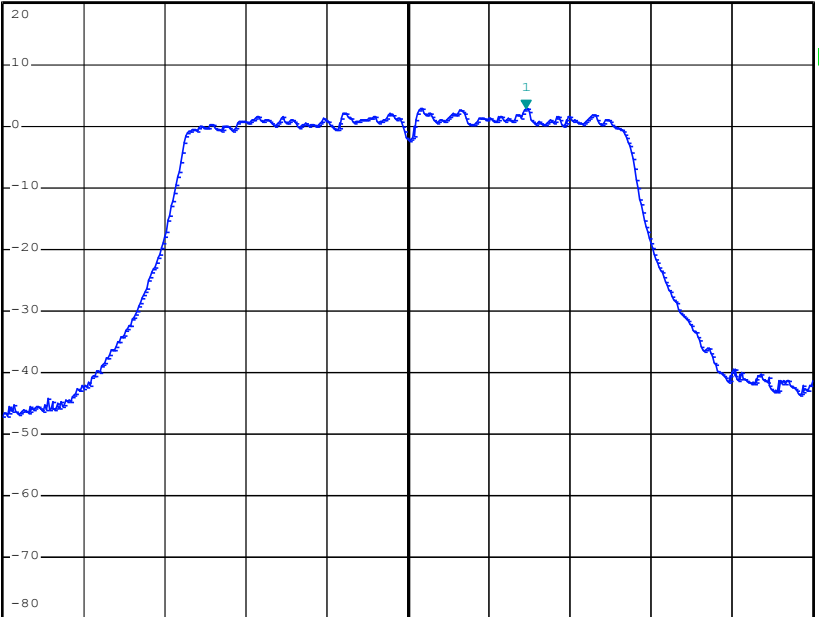
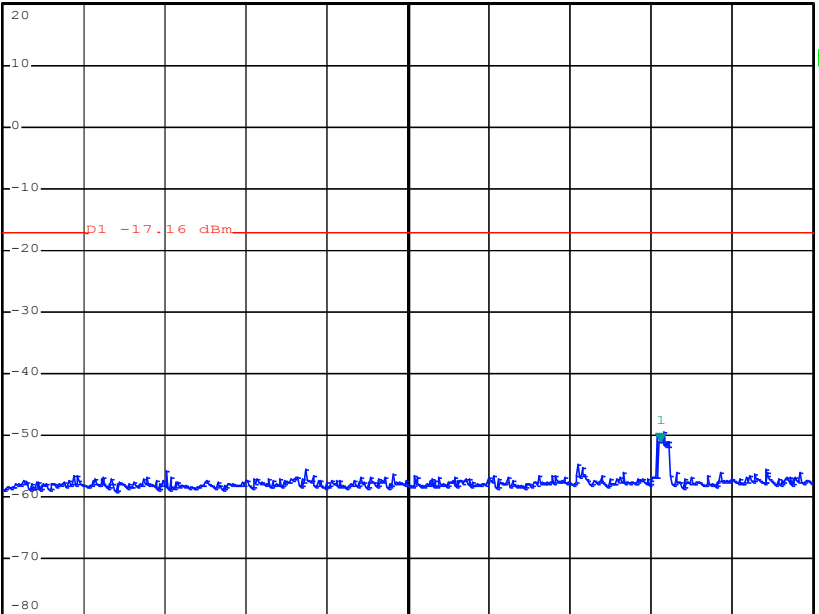
CH01
Above 1GHz



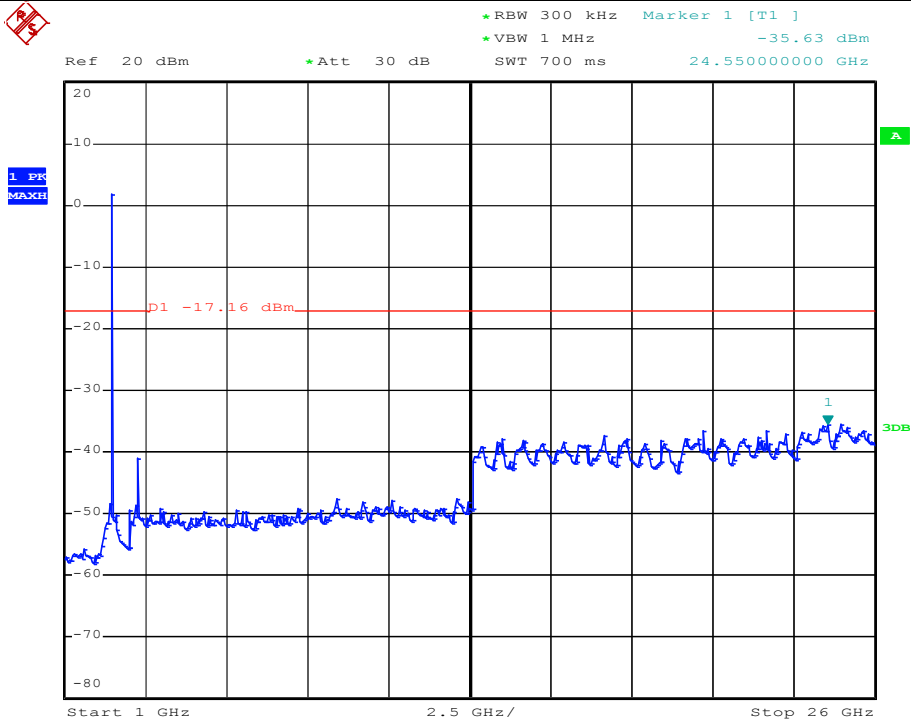
Test Item:	SE	Type:	802.11g
CH06 Reference level	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 3.08 dBm 2.441440000 GHz  Center 2.437 GHz 3 MHz/ Span 30 MHz		
CH06 30MHz-1000MHz	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 30 ms Marker 1 [T1] -51.33 dBm 815.700000000 MHz  Start 30 MHz 97 MHz/ Stop 1 GHz		

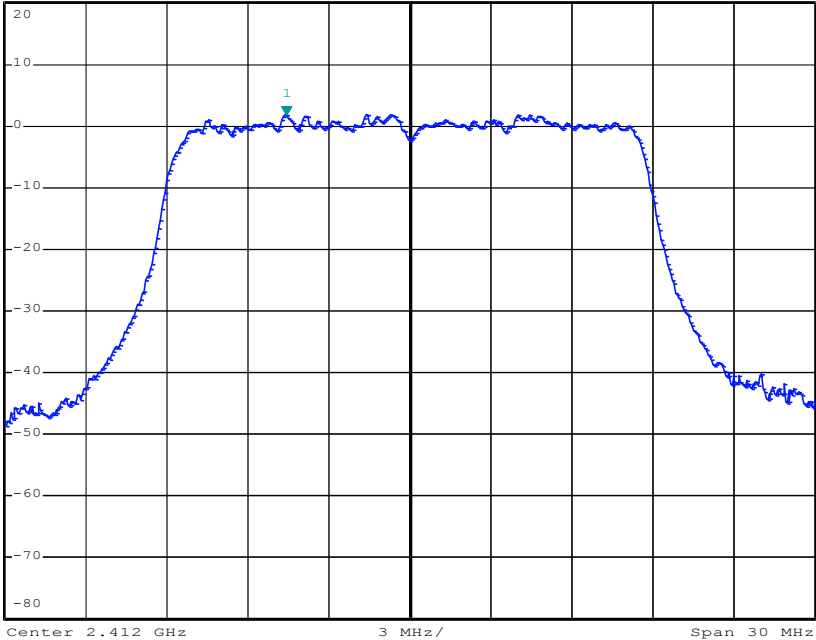
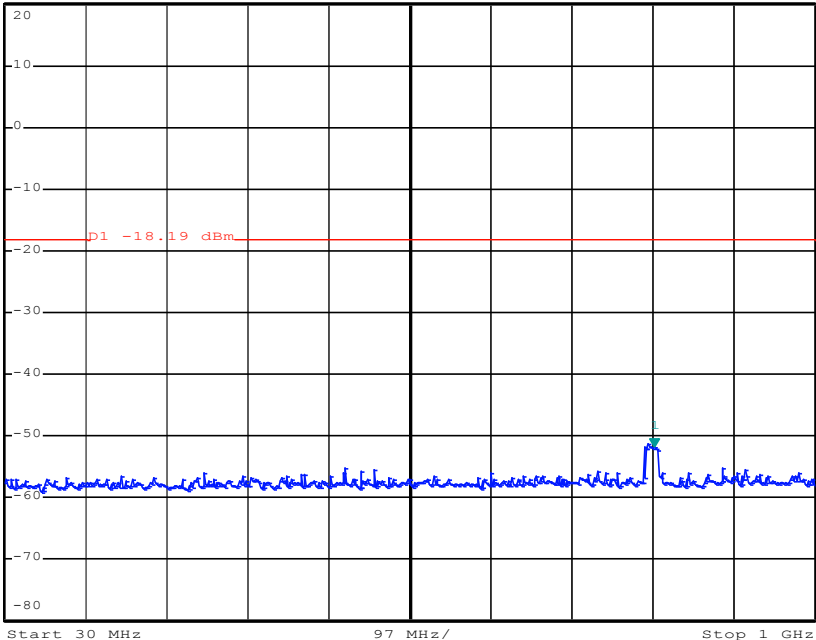
CH06
Above 1GHz



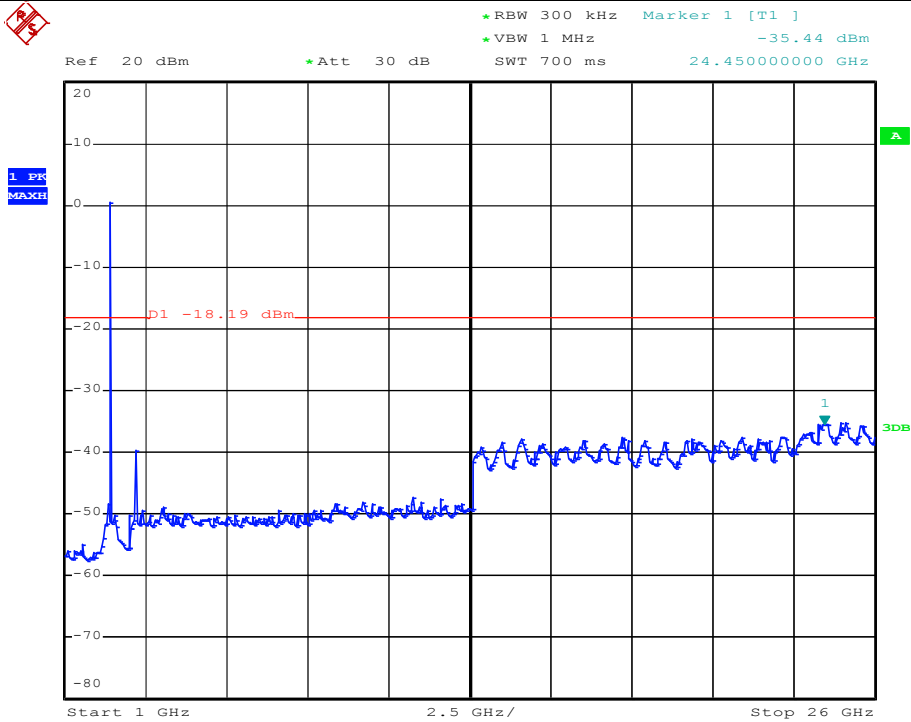
Test Item:	SE	Type:	802.11g
CH11 Reference level		RBW 300 kHz Marker 1 [T1] VBW 1 MHz 2.84 dBm SWT 2.5 ms 2.466380000 GHz	
		Ref 20 dBm Att 30 dB  1 PR MAXH 3dB	
CH11 30MHz-1000MHz		RBW 300 kHz Marker 1 [T1] VBW 1 MHz -50.93 dBm SWT 30 ms 817.640000000 MHz	
		Ref 20 dBm Att 30 dB  1 PR MAXH 3dB	

CH11
Above 1GHz

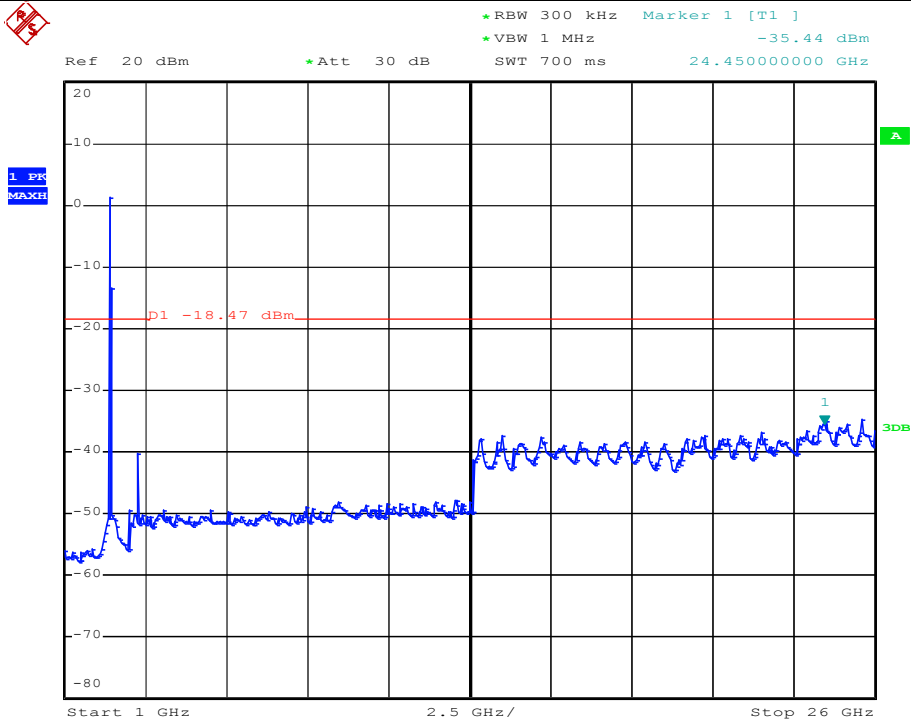


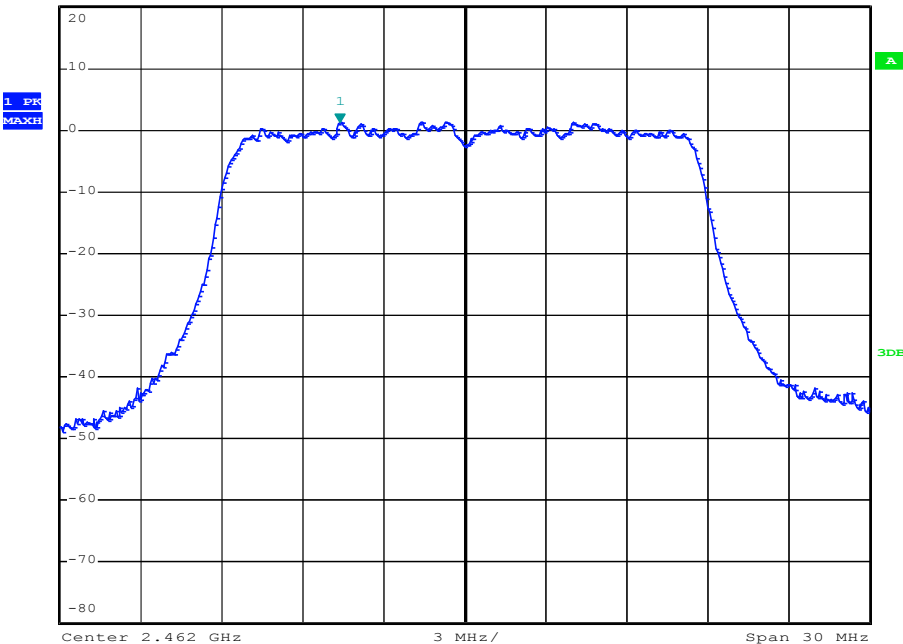
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 1.81 dBm 2.407440000 GHz  Center 2.412 GHz3 MHz/30 MHz		
CH01 30MHz-1000MHz	1 PK MAXH Ref 20 dBm *Att 30 dB *RBW 300 kHz *VBW 1 MHz SWT 30 ms Marker 1 [T1] -51.82 dBm 807.940000000 MHz  Start 30 MHz97 MHz/1 GHz		

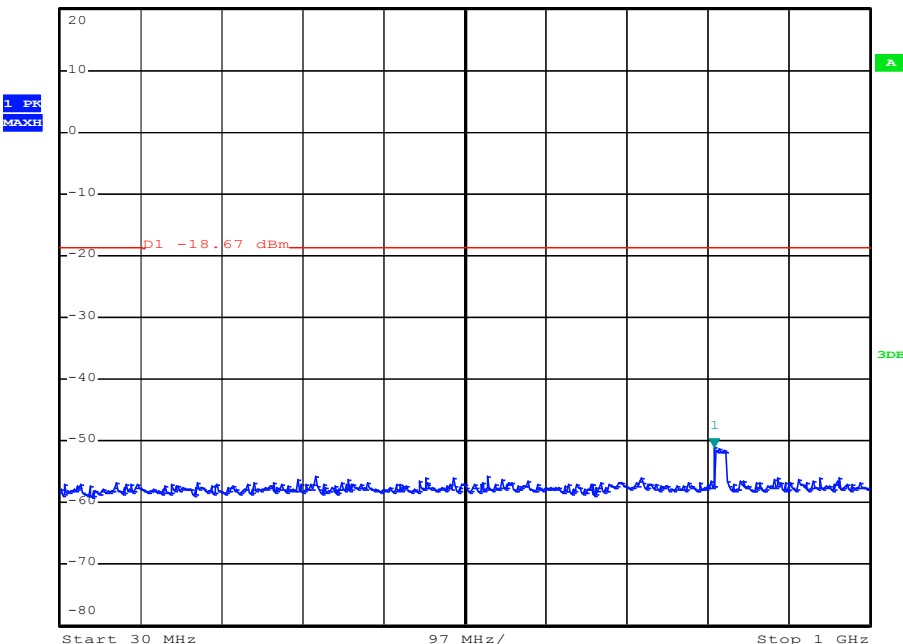
CH01
Above 1GHz



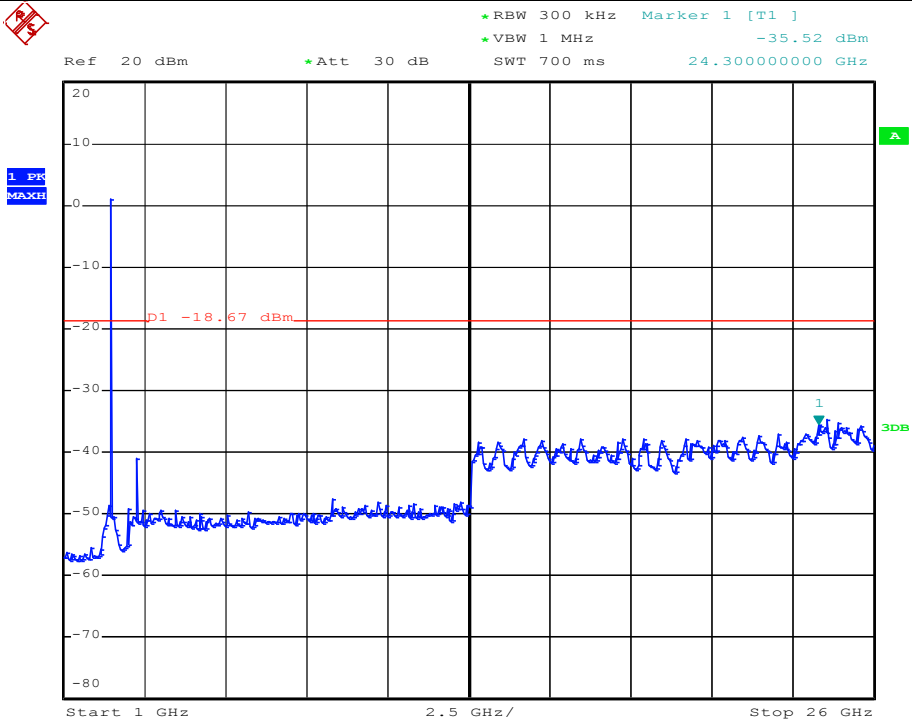
CH06
Above 1GHz

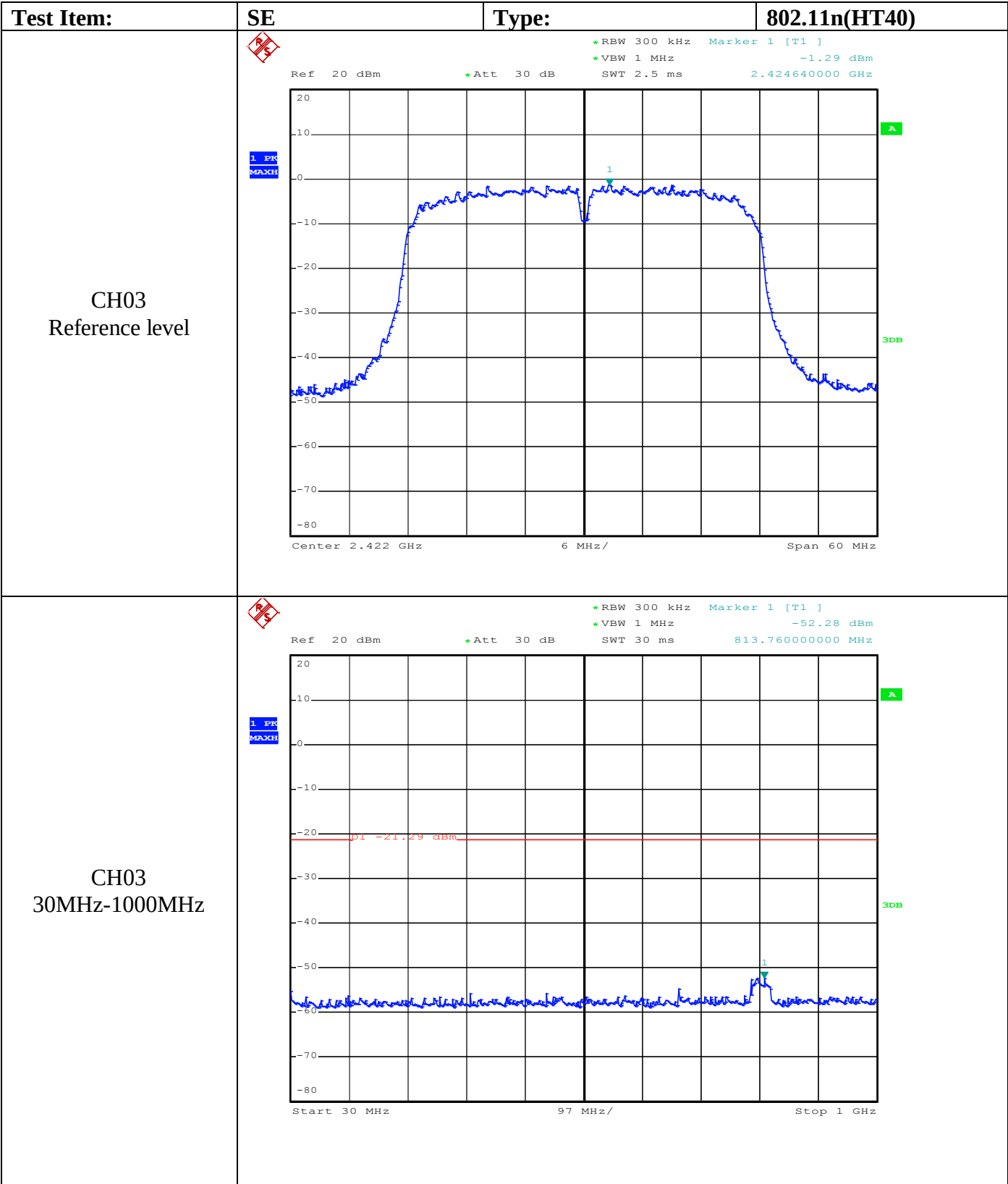


Test Item:	SE	Type:	802.11n(HT20)
CH11 Reference level	Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Marker 1 [T1] 1.33 dBm 2.457380000 GHz 		

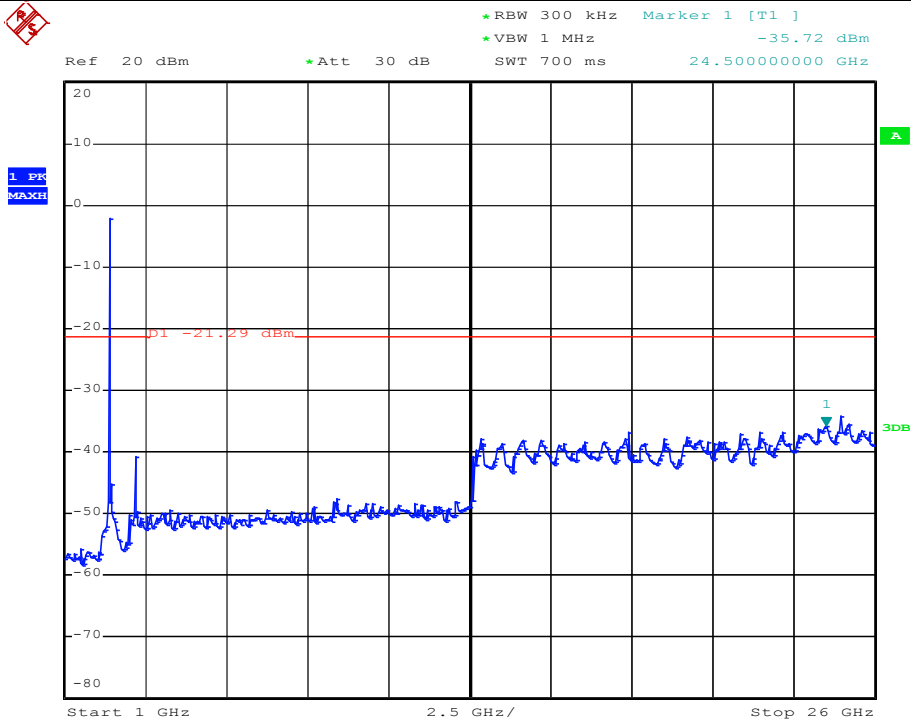
CH11 30MHz-1000MHz	Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 30 ms Marker 1 [T1] -50.95 dBm 813.760000000 MHz 
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CH11
Above 1GHz



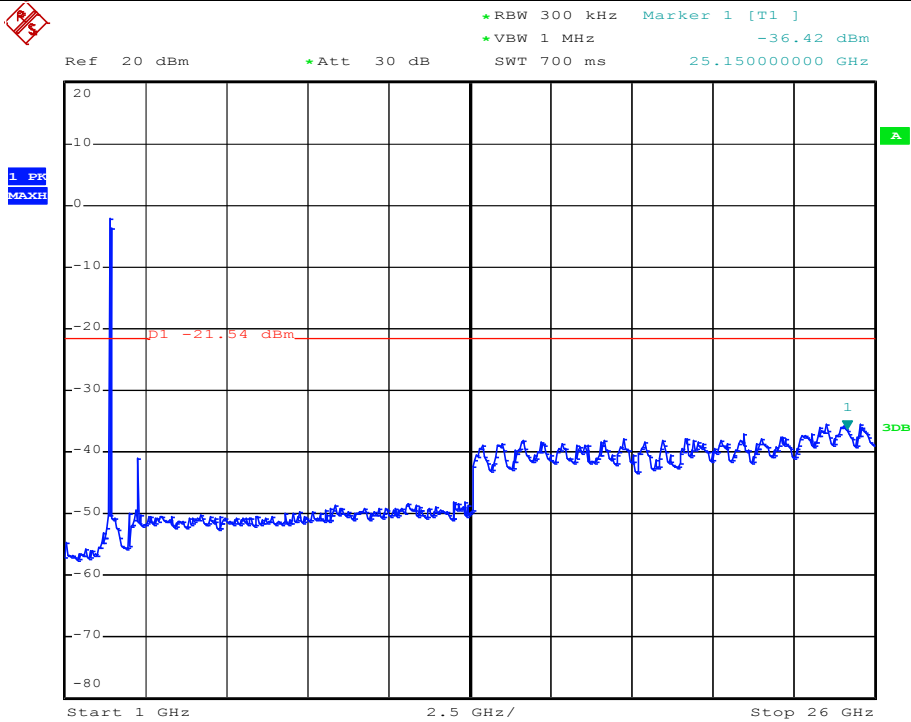


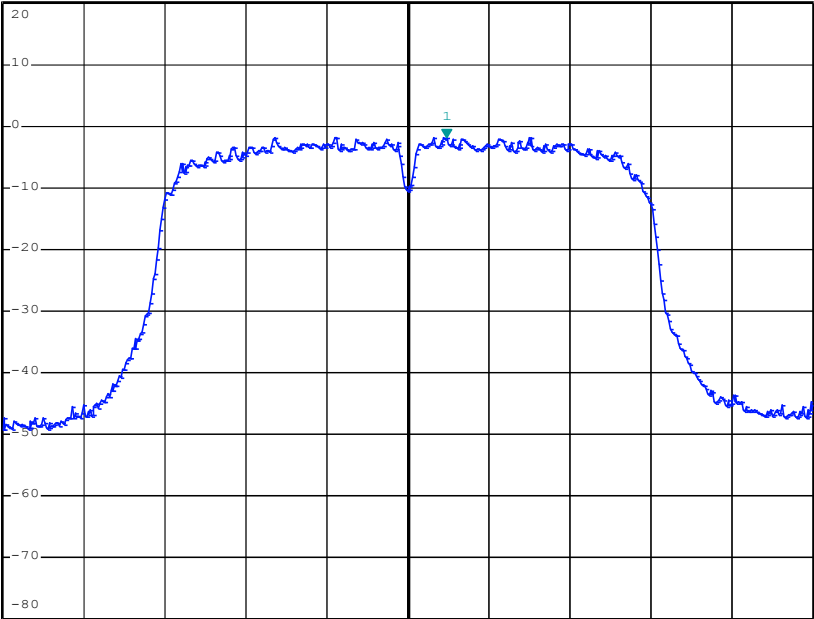
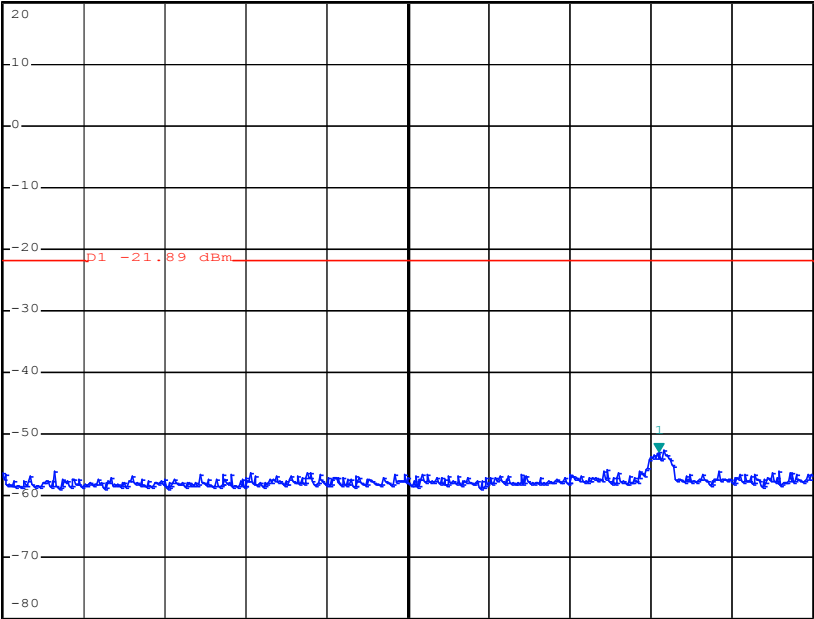
CH03
Above 1GHz



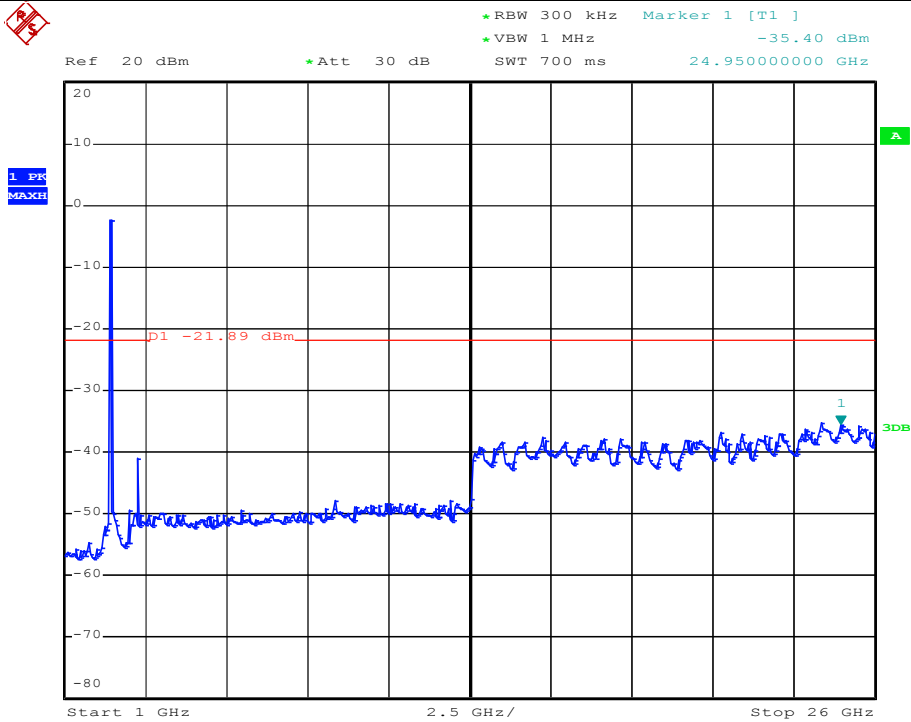
Page 94 of 141

CH06
Above 1GHz



Test Item:	SE	Type:	802.11n(HT40)
CH09 Reference level	1 PK MAXH Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Marker 1 [T1] -1.89 dBm 2.454880000 GHz  Center 2.452 GHz 6 MHz/ Span 60 MHz		
CH09 30MHz-1000MHz	1 PK MAXH Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 30 ms Marker 1 [T1] -52.82 dBm 815.700000000 MHz  Start 30 MHz 97 MHz/ Stop 1 GHz		

CH09
Above 1GHz



6. BAND EDGE COMPLIANCE TEST

6.1.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.2.Test Procedure

Use the test method described in ANSI C63.10 clause 6.10:

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

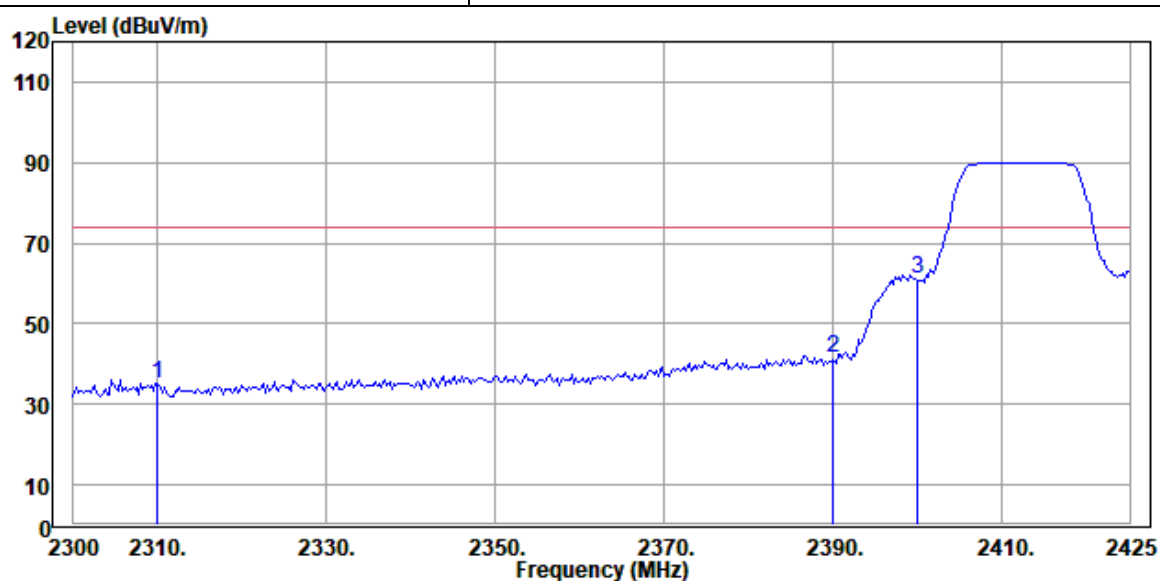
6.3.Test Results

Pass (The testing data was attached in the next pages.)

Note 1: Final Level = Spectrum Analyzer Read Level + Cable Loss

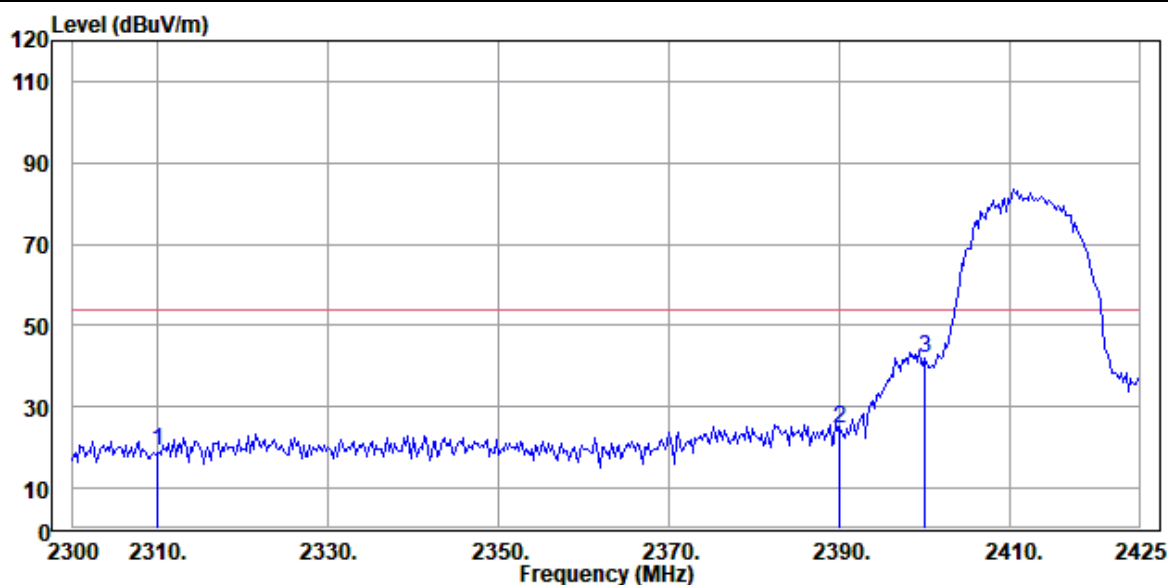
802.11b

CH01



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	2310.000	34.96	38.42	27.66	4.03	35.15	-3.46	74.00	-39.04	Peak
2	2390.000	41.35	44.92	27.66	4.09	35.32	-3.57	74.00	-32.65	Peak
3	2400.000	61.09	64.63	27.70	4.10	35.34	-3.54	74.00	-12.91	Peak

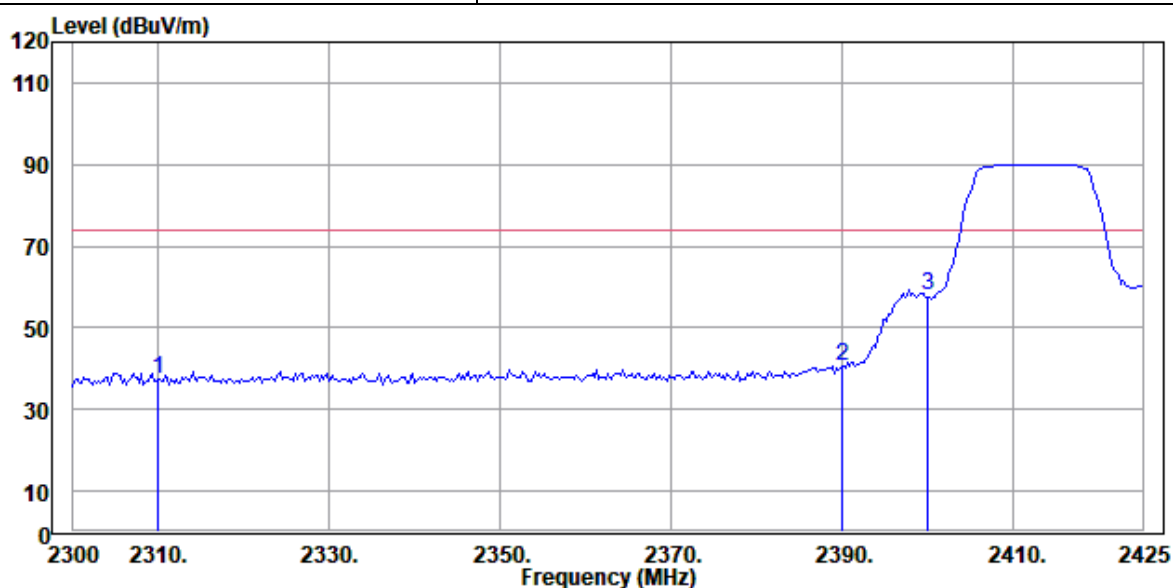
Horizontal



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBUV/m	dBuV	dB/m	dB	dB	dB/m	dBUV/m	dB	
1	2310.000	19.16	22.62	27.66	4.03	35.15	-3.46	54.00	-34.84	Average
2	2390.000	24.79	28.36	27.66	4.09	35.32	-3.57	54.00	-29.21	Average
3	2400.000	41.88	45.42	27.70	4.10	35.34	-3.54	54.00	-12.12	Average

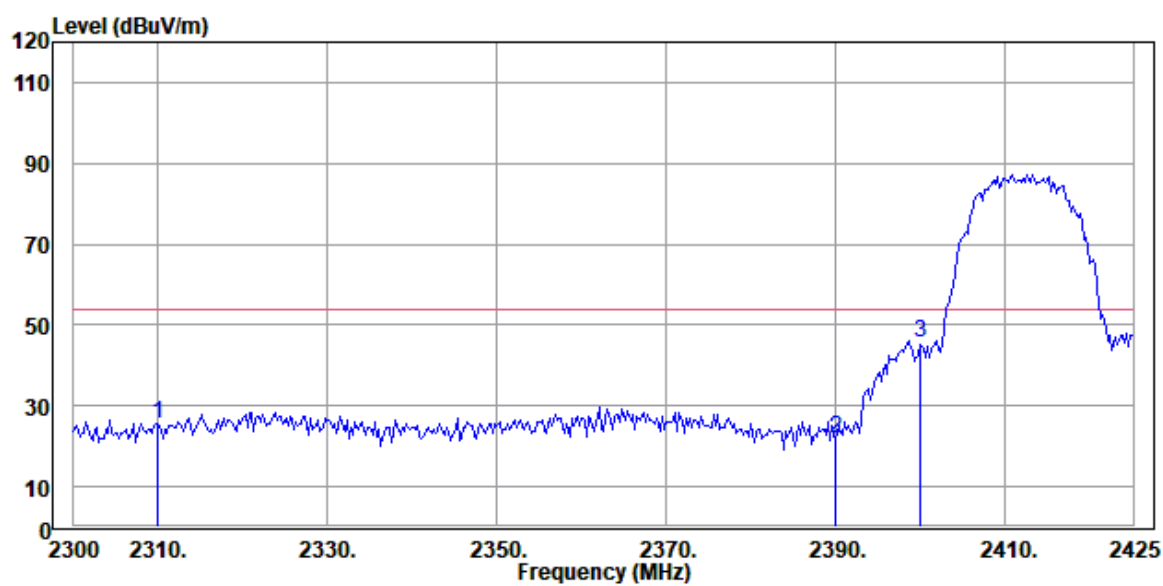
802.11b

CH01



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	37.33	40.79	27.66	4.03	35.15	-3.46	74.00	-36.67 Peak
2	2390.000	40.47	44.04	27.66	4.09	35.32	-3.57	74.00	-33.53 Peak
3	2400.000	58.09	61.63	27.70	4.10	35.34	-3.54	74.00	-15.91 Peak

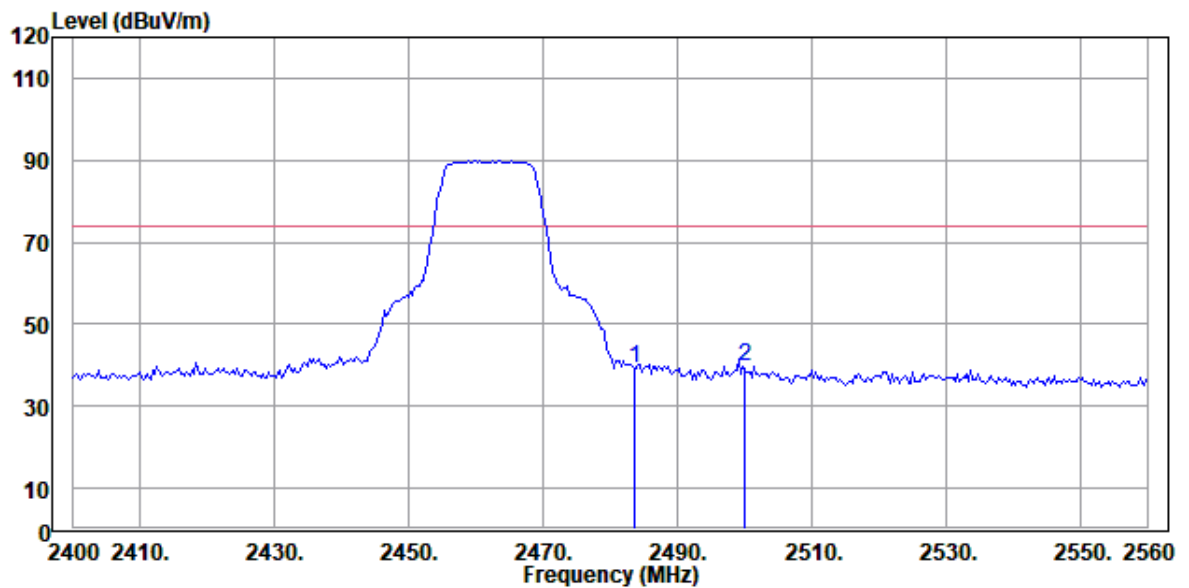
Vertical



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	25.46	28.92	27.66	4.03	35.15	-3.46	54.00	-28.54 Average
2	2390.000	21.76	25.33	27.66	4.09	35.32	-3.57	54.00	-32.24 Average
3	2400.000	45.43	48.97	27.70	4.10	35.34	-3.54	54.00	-8.57 Average

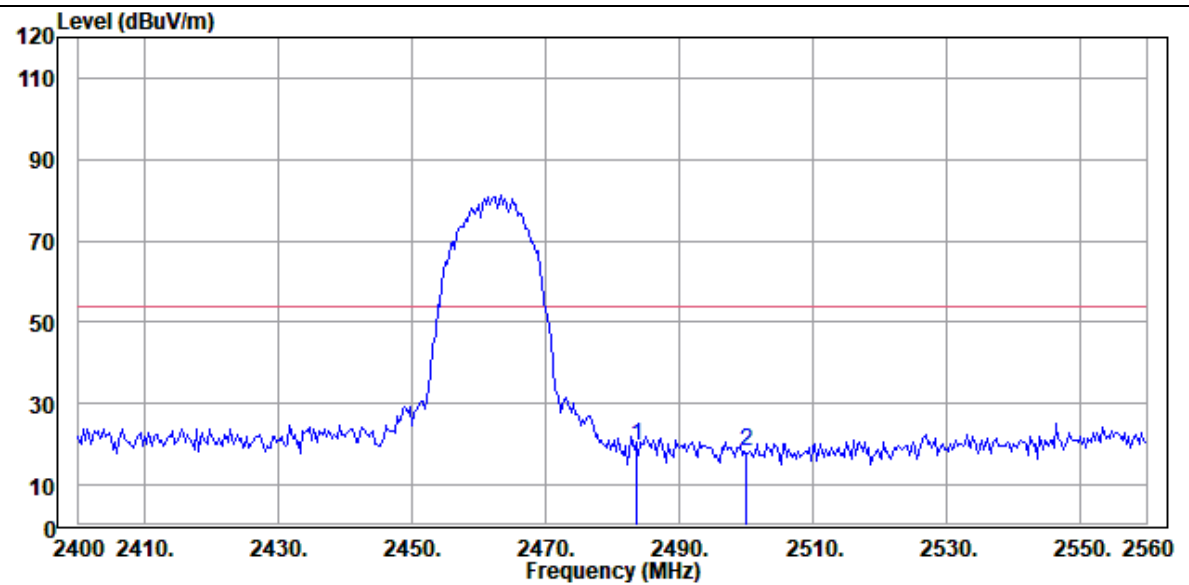
802.11b

CH11



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2483.500	39.36	43.14	27.57	4.17	35.52	-3.78	74.00	-34.64 Peak
2	2500.000	39.91	43.68	27.60	4.18	35.55	-3.77	74.00	-34.09 Peak

Horizontal

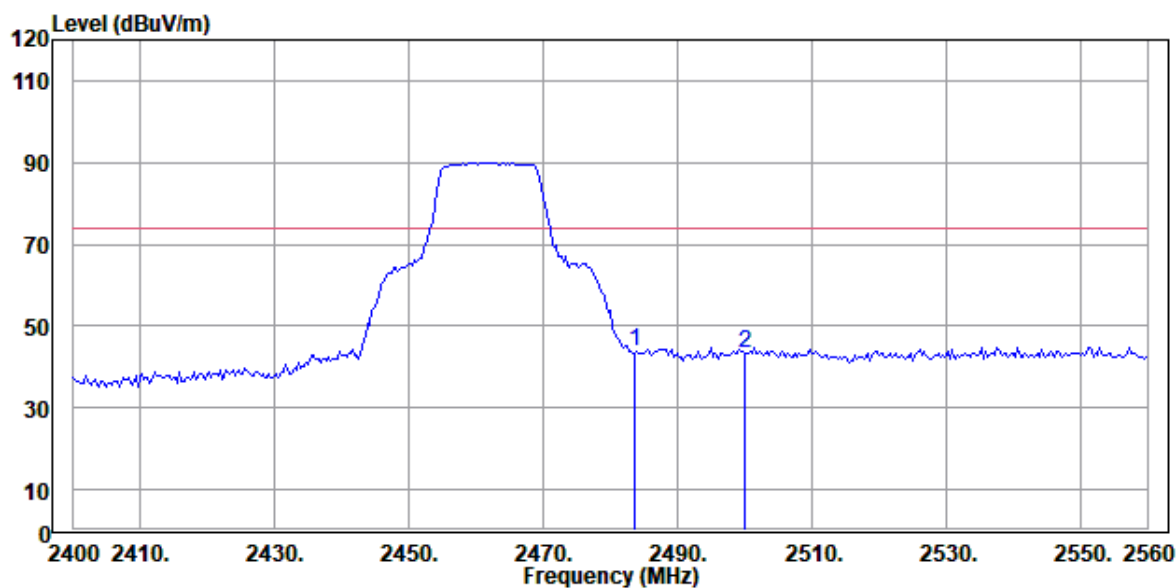


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2483.500	19.65	23.43	27.57	4.17	35.52	-3.78	54.00	-34.35 Average
2	2500.000	18.08	21.85	27.60	4.18	35.55	-3.77	54.00	-35.92 Average

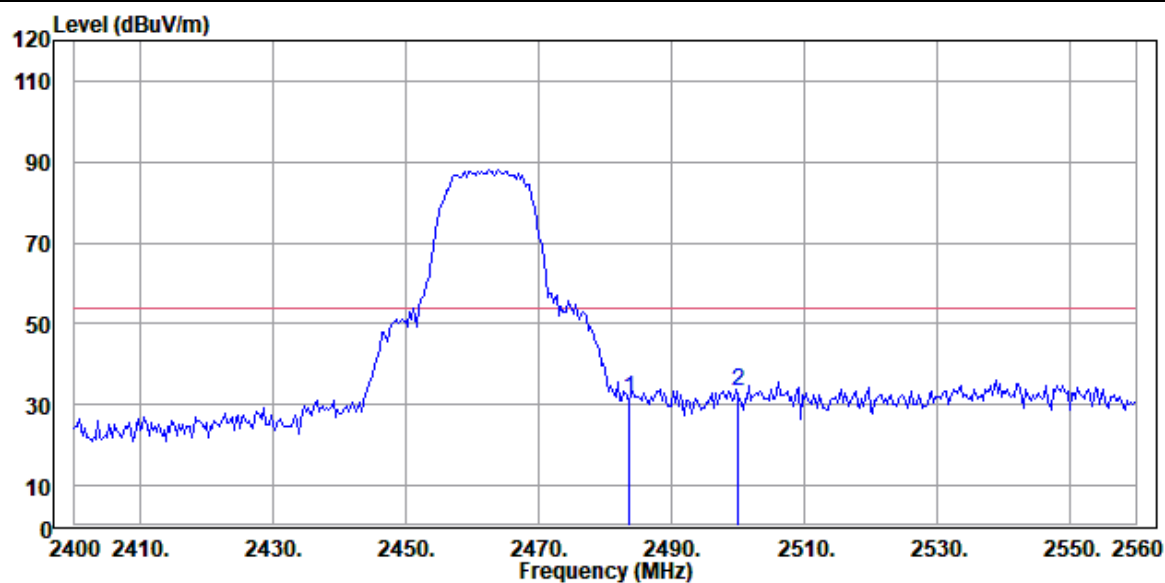
802.11b

CH11

Vertical



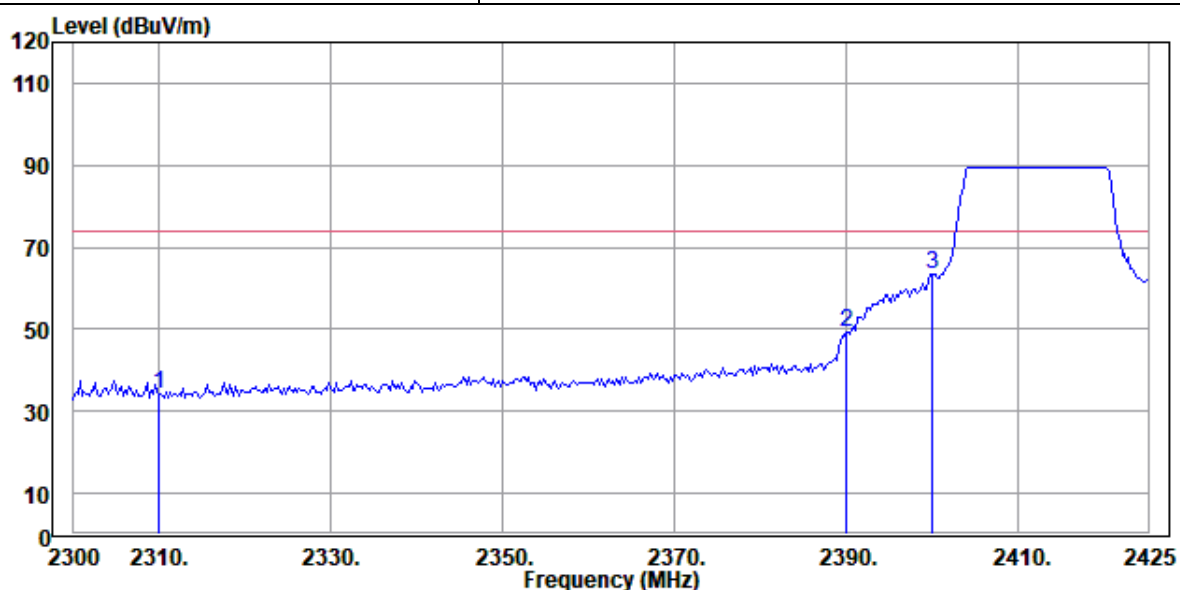
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2483.500	43.70	47.48	27.57	4.17	35.52	74.00	-30.30	Peak
2	2500.000	43.37	47.14	27.60	4.18	35.55	74.00	-30.63	Peak



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2483.500	31.58	35.36	27.57	4.17	35.52	54.00	-22.42	Average
2	2500.000	33.48	37.25	27.60	4.18	35.55	54.00	-20.52	Average

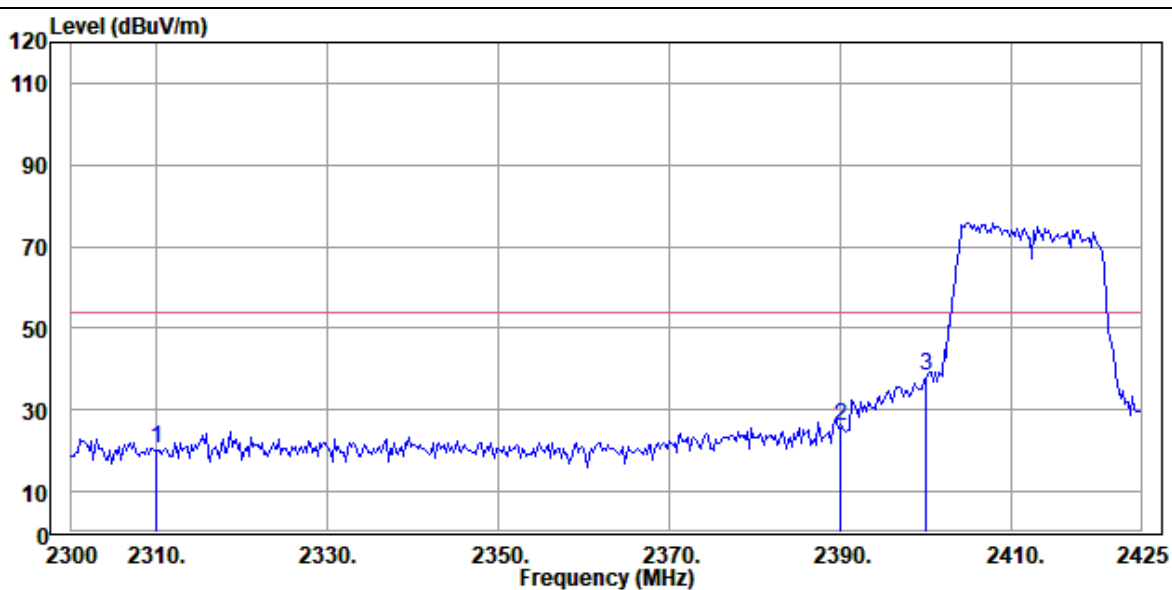
802.11g

CH01



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	34.07	37.53	27.66	4.03	35.15	74.00	-39.93	Peak
2	2390.000	49.22	52.79	27.66	4.09	35.32	74.00	-24.78	Peak
3	2400.000	63.48	67.02	27.70	4.10	35.34	74.00	-10.52	Peak

Horizontal

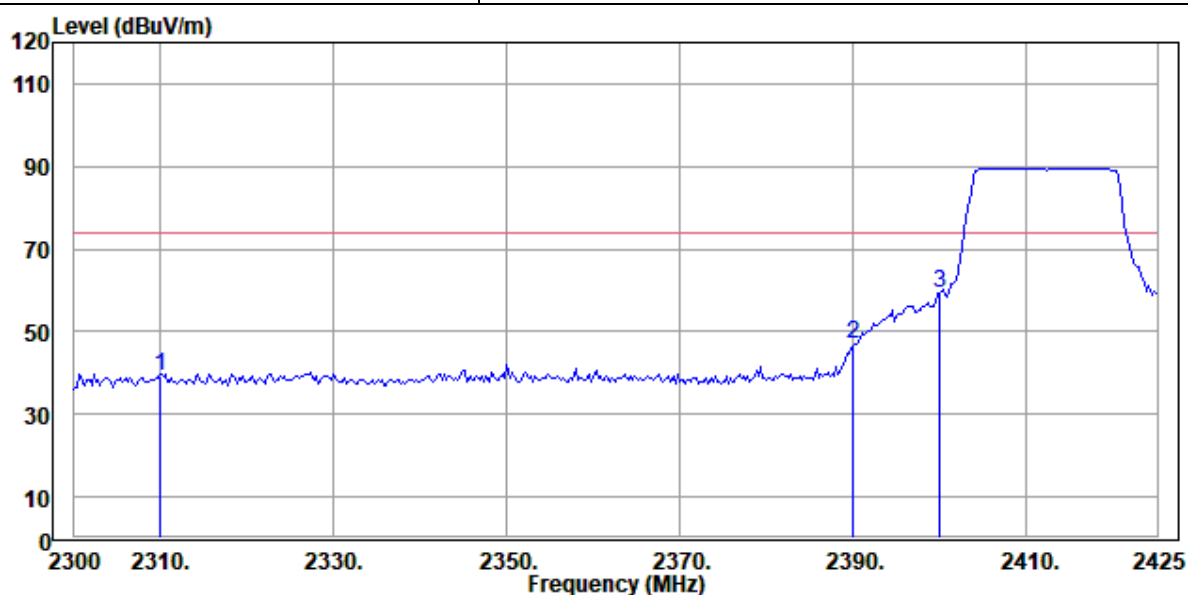


	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	20.58	24.04	27.66	4.03	35.15	54.00	-33.42	Average
2	2390.000	26.19	29.76	27.66	4.09	35.32	54.00	-27.81	Average
3	2400.000	38.12	41.66	27.70	4.10	35.34	54.00	-15.88	Average

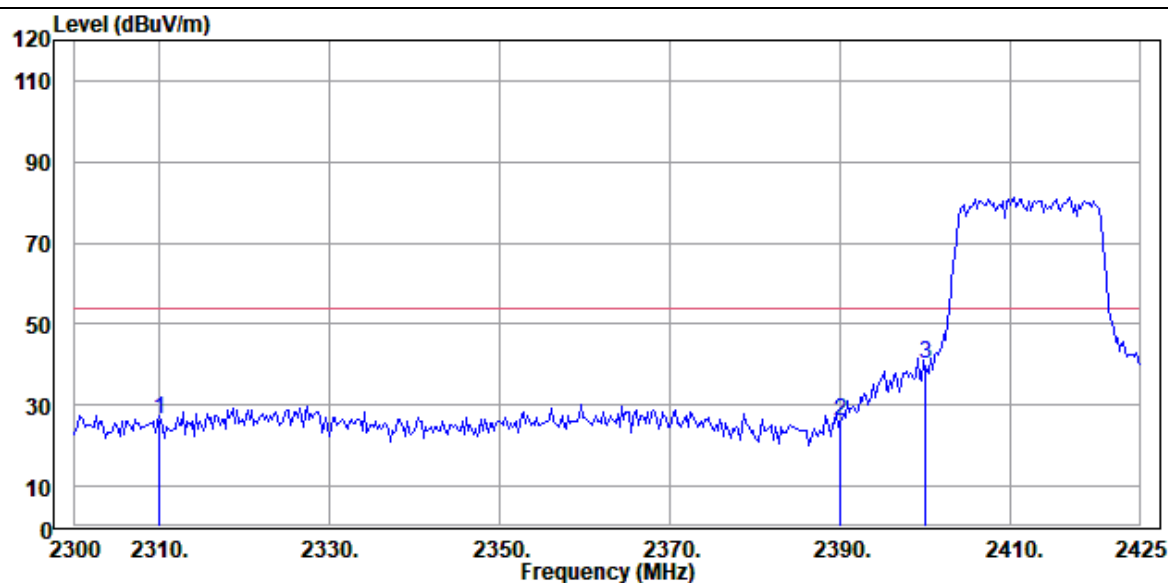
802.11g

CH01

Vertical



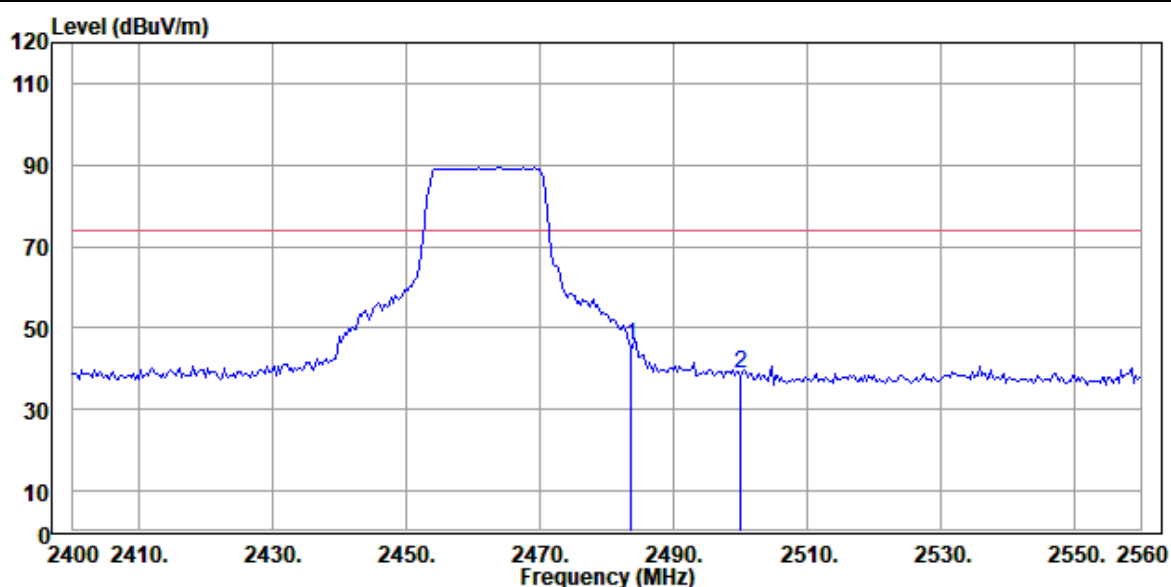
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	39.05	42.51	27.66	4.03	35.15	-3.46	74.00	-34.95 Peak
2	2390.000	46.96	50.53	27.66	4.09	35.32	-3.57	74.00	-27.04 Peak
3	2400.000	59.42	62.96	27.70	4.10	35.34	-3.54	74.00	-14.58 Peak



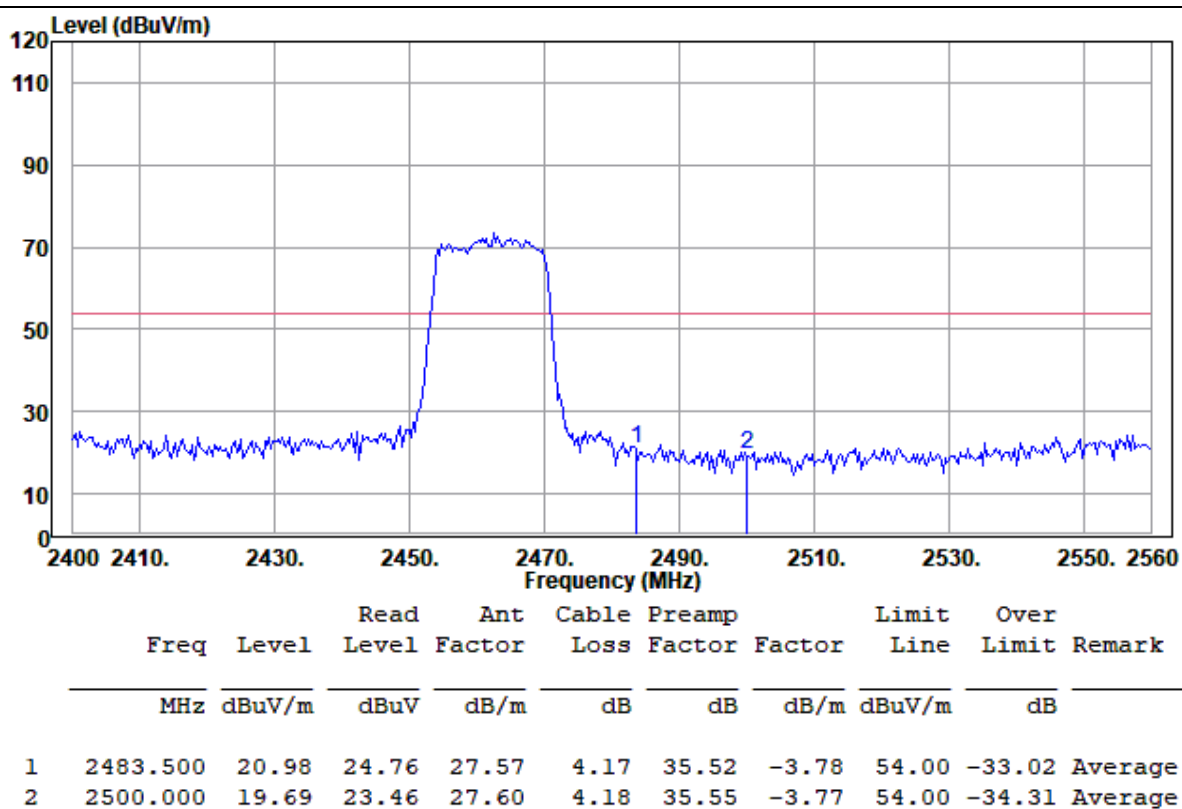
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	26.31	29.77	27.66	4.03	35.15	-3.46	54.00	-27.69 Average
2	2390.000	25.82	29.39	27.66	4.09	35.32	-3.57	54.00	-28.18 Average
3	2400.000	40.24	43.78	27.70	4.10	35.34	-3.54	54.00	-13.76 Average

802.11g

CH11

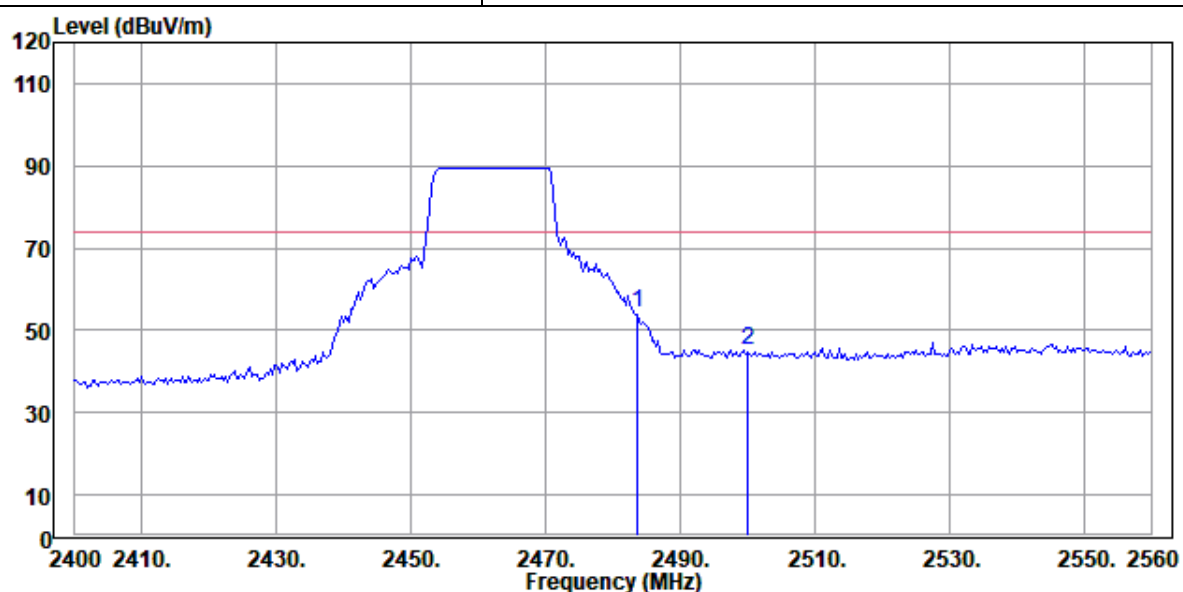


Horizontal



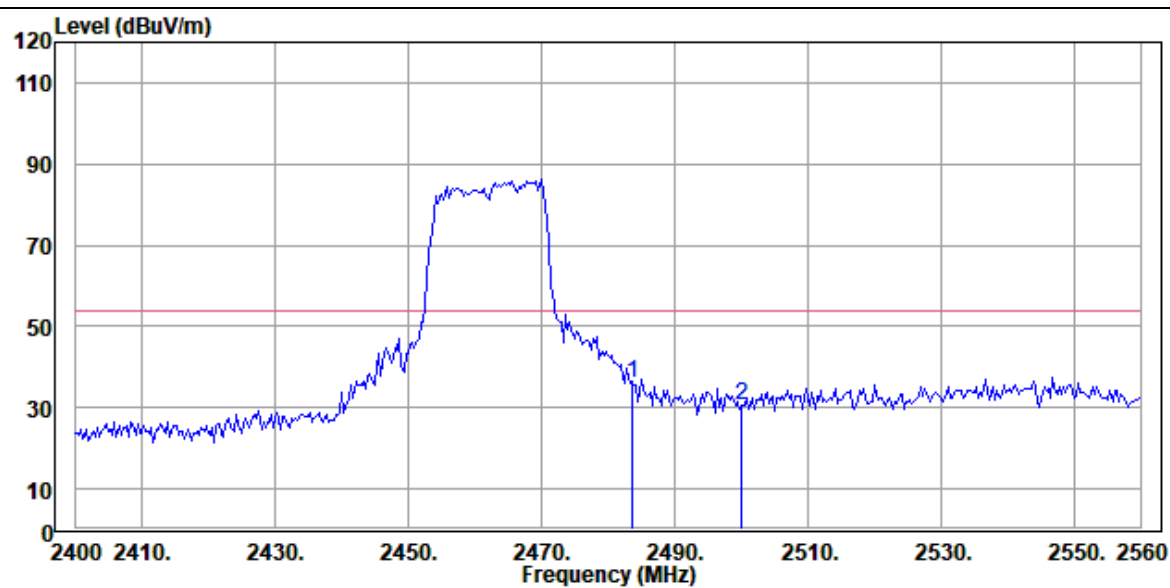
802.11g

CH11



Vertical

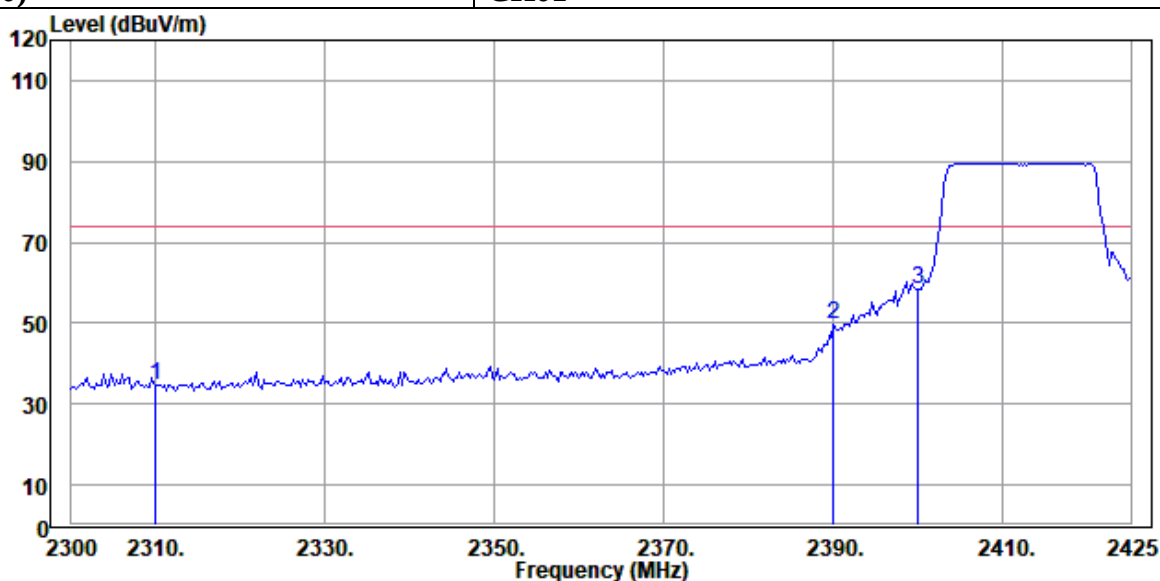
Freq	Level	Read	Ant	Cable	Preamp	Limit	Over	Remark
MHz	dBuV/m	Level	Factor	Loss	Factor	Line	Limit	
1	2483.500	54.48	58.26	27.57	4.17	35.52	-3.78	74.00 -19.52 Peak
2	2500.000	45.34	49.11	27.60	4.18	35.55	-3.77	74.00 -28.66 Peak



Freq	Level	Read	Ant	Cable	Preamp	Limit	Over	Remark
MHz	dBuV/m	Level	Factor	Loss	Factor	Line	Limit	
1	2483.500	36.02	39.80	27.57	4.17	35.52	-3.78	54.00 -17.98 Average
2	2500.000	30.61	34.38	27.60	4.18	35.55	-3.77	54.00 -23.39 Average

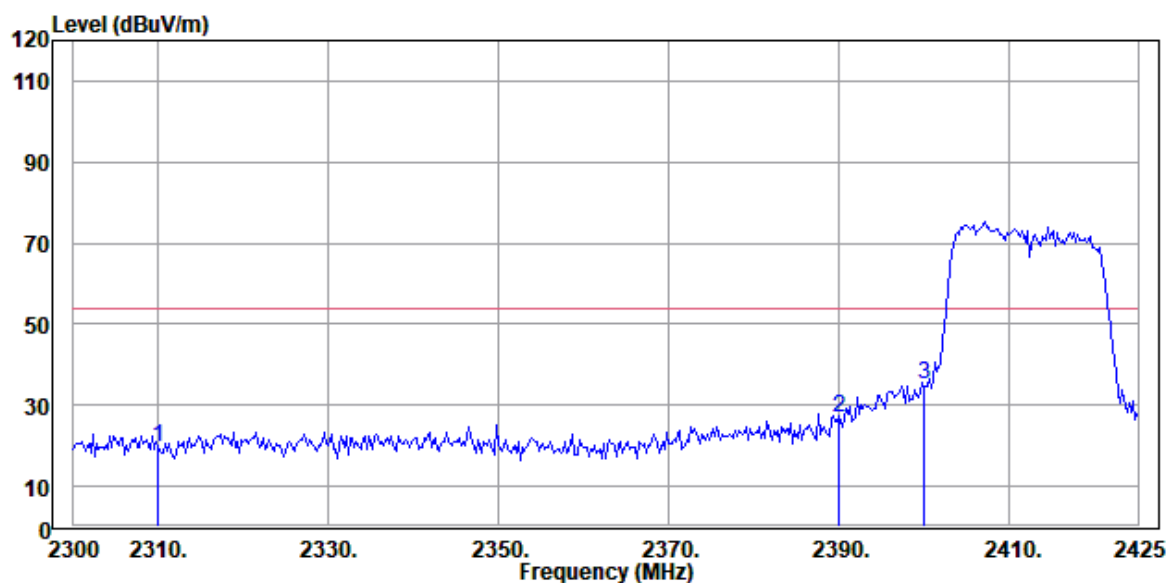
802.11n(HT20)

CH01



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	34.85	38.31	27.66	4.03	35.15	-3.46	74.00	-39.15 Peak
2	2390.000	49.95	53.52	27.66	4.09	35.32	-3.57	74.00	-24.05 Peak
3	2400.000	58.29	61.83	27.70	4.10	35.34	-3.54	74.00	-15.71 Peak

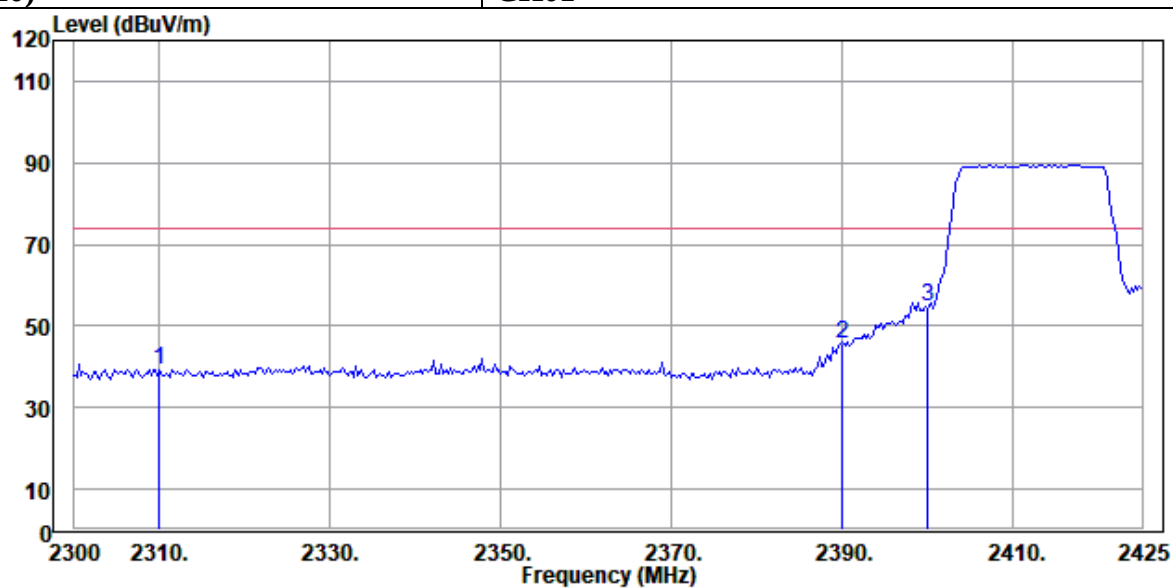
Horizontal



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	19.67	23.13	27.66	4.03	35.15	-3.46	54.00	-34.33 Average
2	2390.000	26.78	30.35	27.66	4.09	35.32	-3.57	54.00	-27.22 Average
3	2400.000	35.18	38.72	27.70	4.10	35.34	-3.54	54.00	-18.82 Average

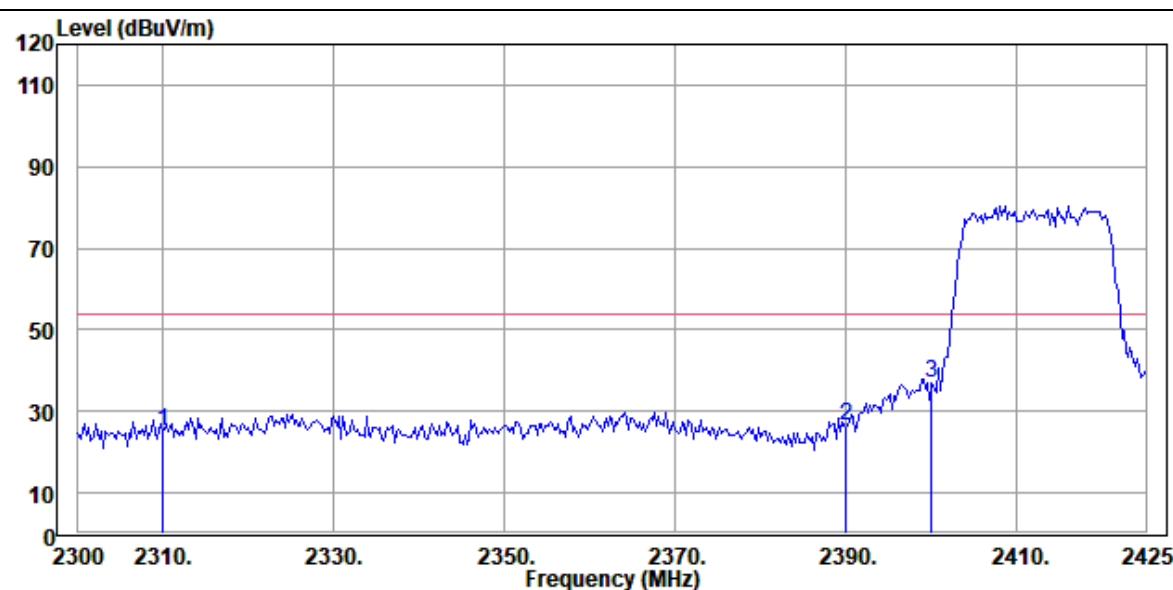
802.11n(HT20)

CH01



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	39.12	42.58	27.66	4.03	35.15	-3.46	74.00	-34.88 Peak
2	2390.000	45.68	49.25	27.66	4.09	35.32	-3.57	74.00	-28.32 Peak
3	2400.000	54.80	58.34	27.70	4.10	35.34	-3.54	74.00	-19.20 Peak

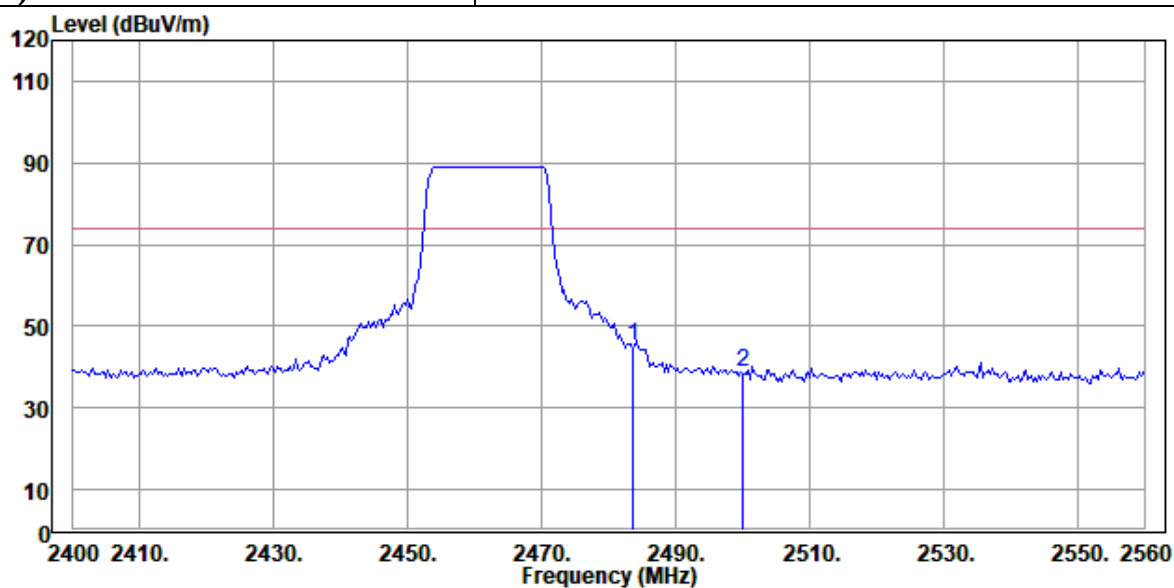
Vertical



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	25.11	28.57	27.66	4.03	35.15	-3.46	54.00	-28.89 Average
2	2390.000	26.56	30.13	27.66	4.09	35.32	-3.57	54.00	-27.44 Average
3	2400.000	36.94	40.48	27.70	4.10	35.34	-3.54	54.00	-17.06 Average

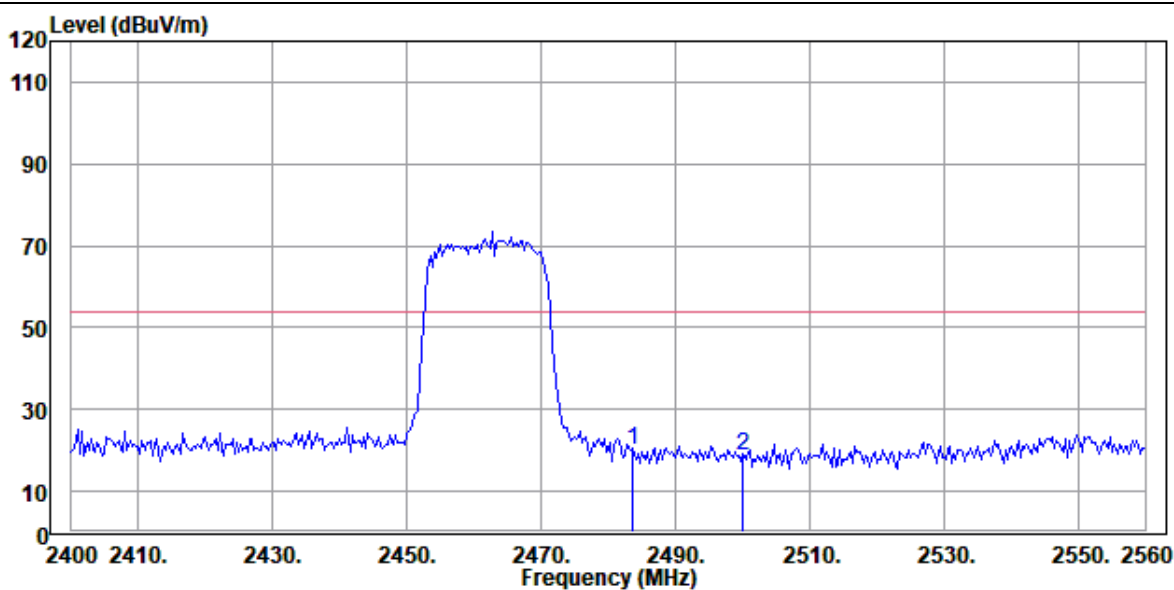
802.11n(HT20)

CH11



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2483.500	45.30	49.08	27.57	4.17	35.52	-3.78	74.00	-28.70	Peak
2	2500.000	38.68	42.45	27.60	4.18	35.55	-3.77	74.00	-35.32	Peak

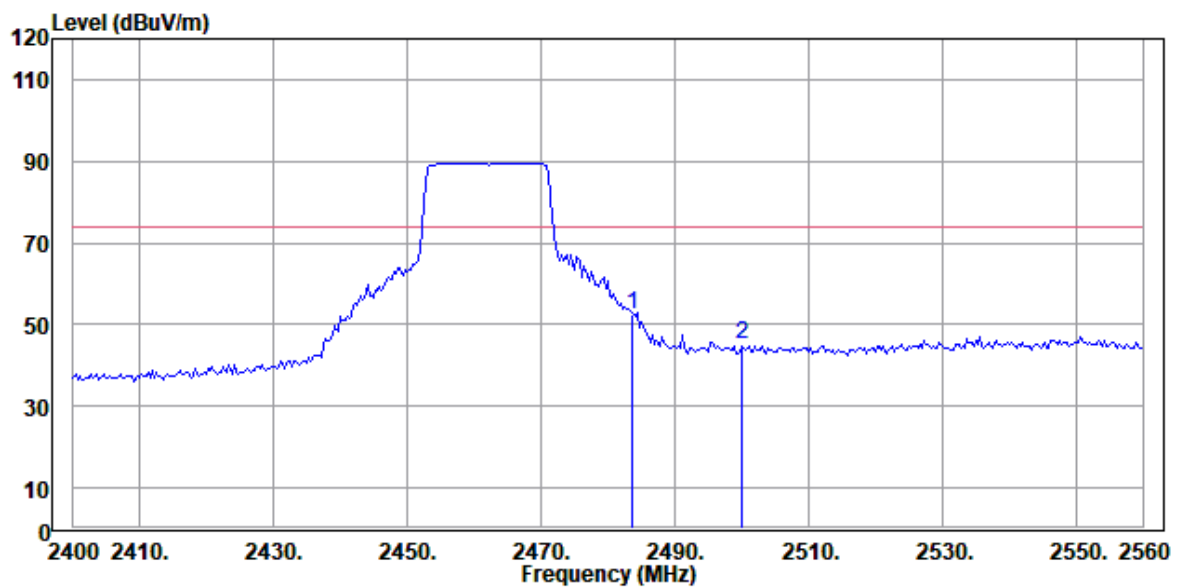
Horizontal



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2483.500	19.93	23.71	27.57	4.17	35.52	-3.78	54.00	-34.07	Average
2	2500.000	18.86	22.63	27.60	4.18	35.55	-3.77	54.00	-35.14	Average

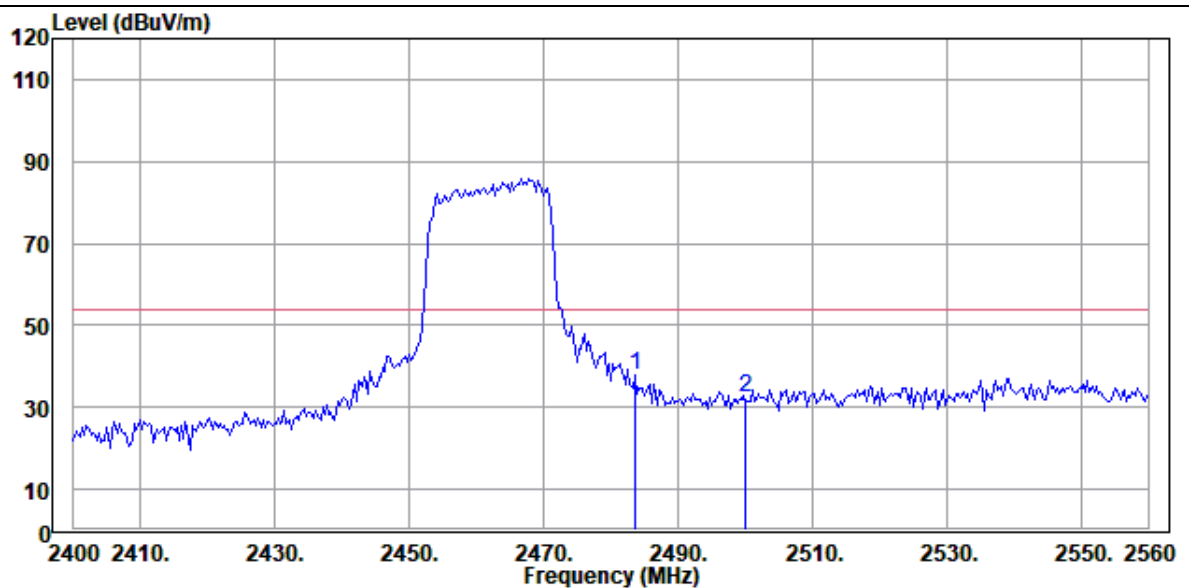
802.11n(HT20)

CH11



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2483.500	52.66	56.44	27.57	4.17	35.52	-3.78	74.00	-21.34	Peak
2	2500.000	45.24	49.01	27.60	4.18	35.55	-3.77	74.00	-28.76	Peak

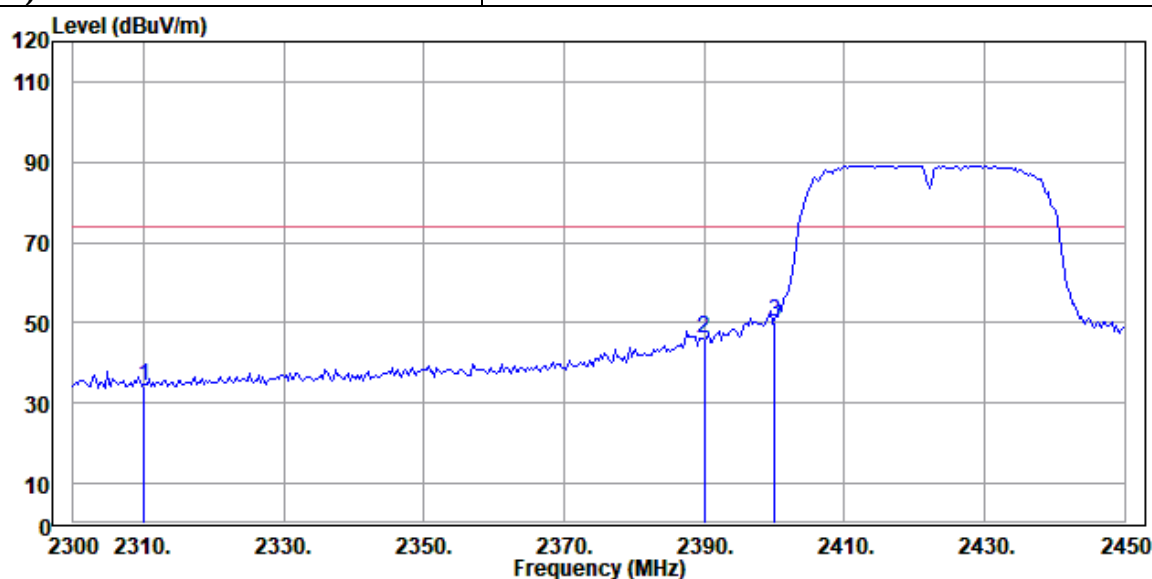
Vertical



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	2483.500	37.69	41.47	27.57	4.17	35.52	-3.78	54.00	-16.31	Average
2	2500.000	32.26	36.03	27.60	4.18	35.55	-3.77	54.00	-21.74	Average

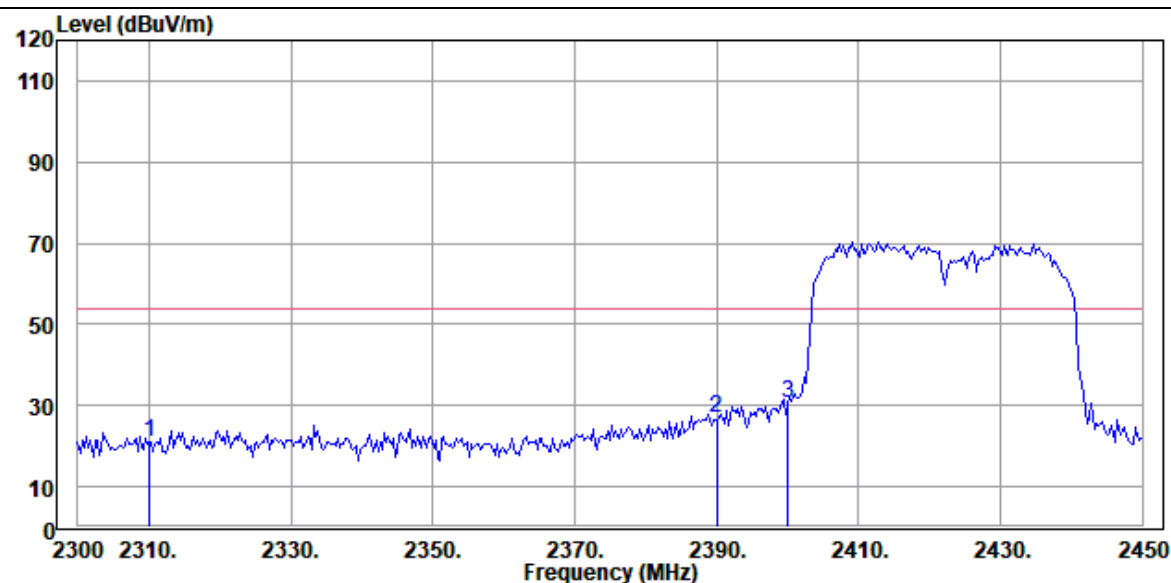
802.11n(HT40)

CH03



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	34.39	37.85	27.66	4.03	35.15	74.00	-39.61	Peak
2	2390.000	46.00	49.57	27.66	4.09	35.32	74.00	-28.00	Peak
3	2400.000	50.22	53.76	27.70	4.10	35.34	74.00	-23.78	Peak

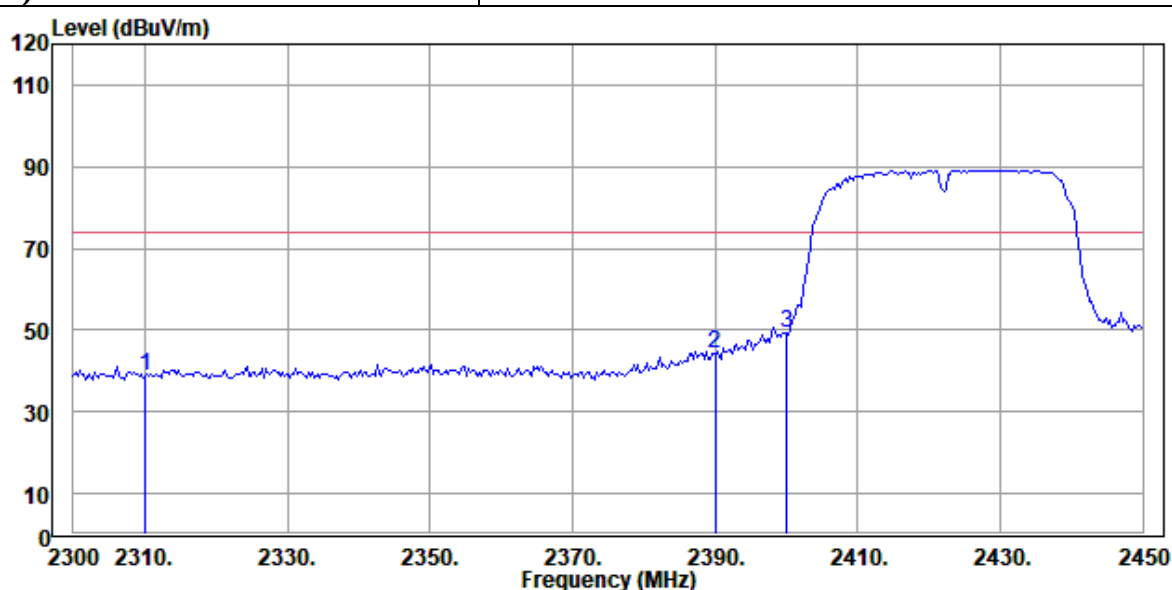
Horizontal



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2310.000	20.95	24.41	27.66	4.03	35.15	54.00	-33.05	Average
2	2390.000	26.84	30.41	27.66	4.09	35.32	54.00	-27.16	Average
3	2400.000	30.77	34.31	27.70	4.10	35.34	54.00	-23.23	Average

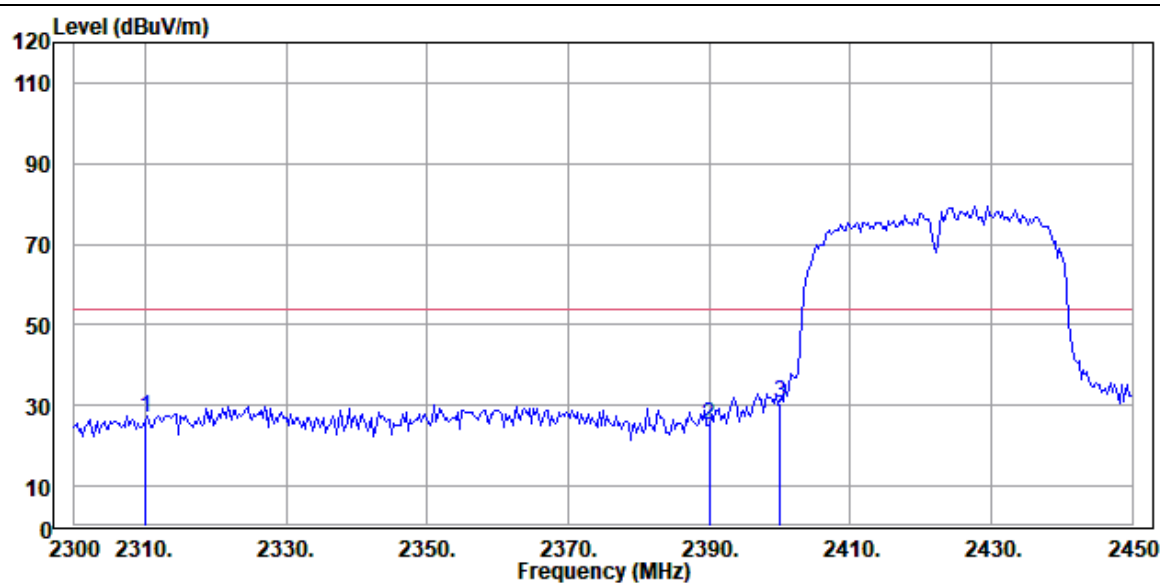
802.11n(HT40)

CH03



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	38.70	42.16	27.66	4.03	35.15	-3.46	74.00	-35.30 Peak
2	2390.000	44.26	47.83	27.66	4.09	35.32	-3.57	74.00	-29.74 Peak
3	2400.000	49.40	52.94	27.70	4.10	35.34	-3.54	74.00	-24.60 Peak

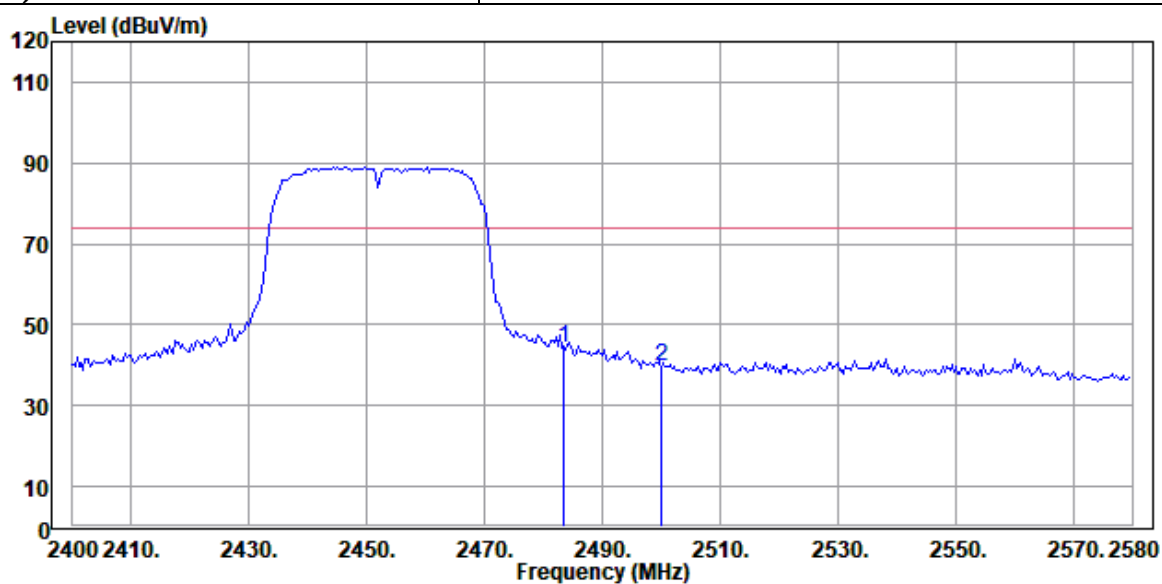
Vertical



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	2310.000	26.88	30.34	27.66	4.03	35.15	-3.46	54.00	-27.12 Average
2	2390.000	25.04	28.61	27.66	4.09	35.32	-3.57	54.00	-28.96 Average
3	2400.000	30.57	34.11	27.70	4.10	35.34	-3.54	54.00	-23.43 Average

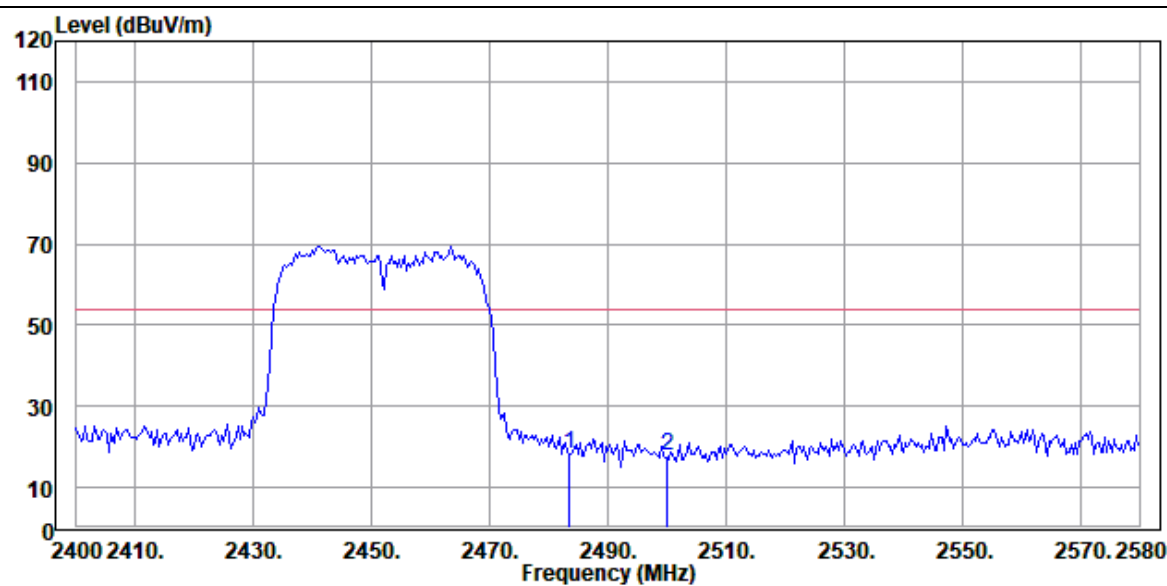
802.11n(HT40)

CH09



	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2483.500	44.36	48.14	27.57	4.17	35.52	-3.78	74.00	-29.64 Peak
2	2500.000	39.55	43.32	27.60	4.18	35.55	-3.77	74.00	-34.45 Peak

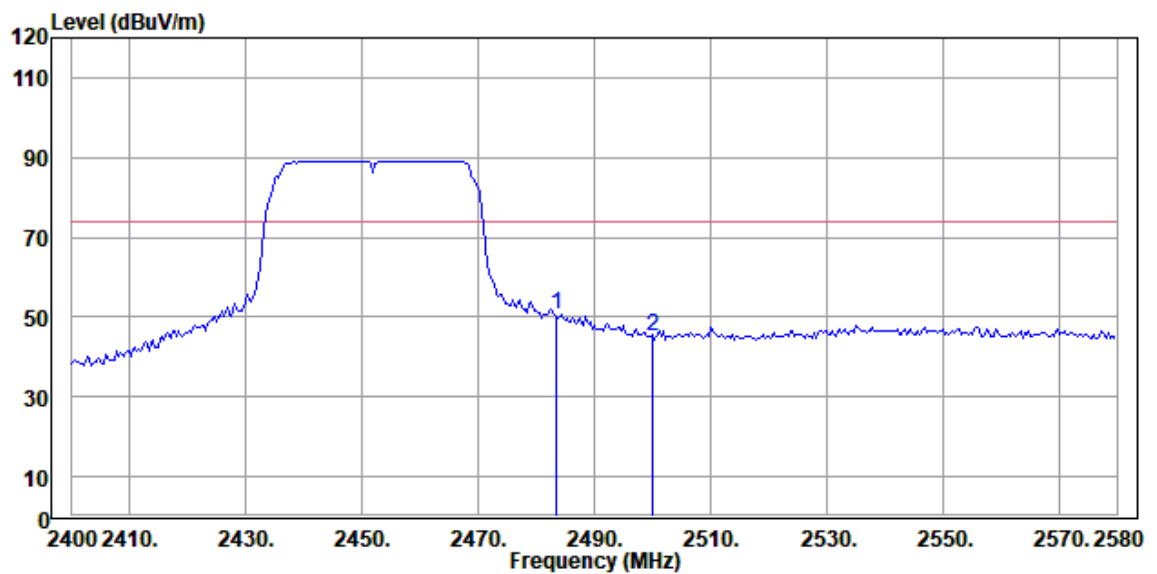
Horizontal



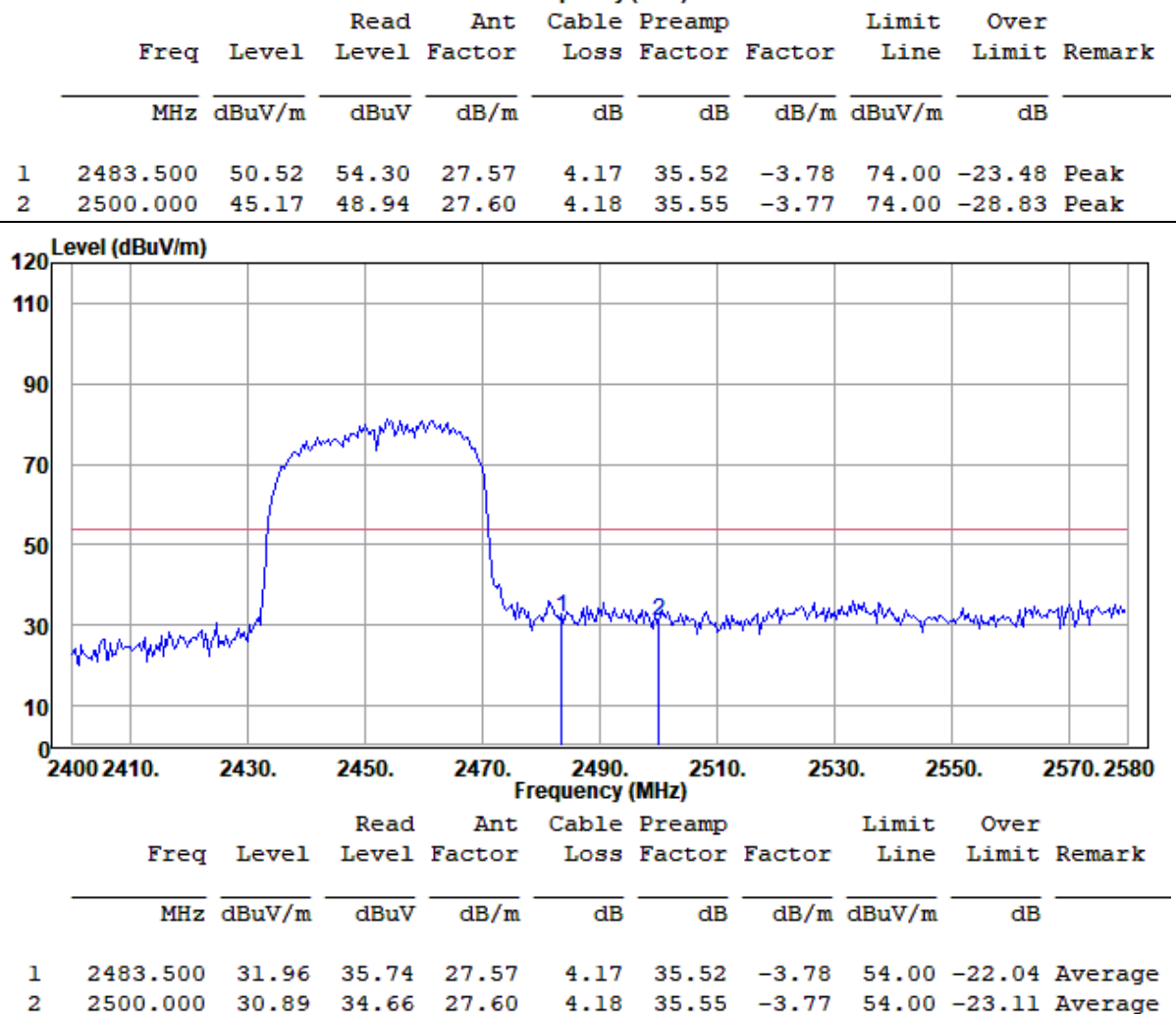
	Freq	Level	Read Level	Ant Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	2483.500	18.05	21.83	27.57	4.17	35.52	-3.78	54.00	-35.95 Average
2	2500.000	17.84	21.61	27.60	4.18	35.55	-3.77	54.00	-36.16 Average

802.11n(HT40)

CH09

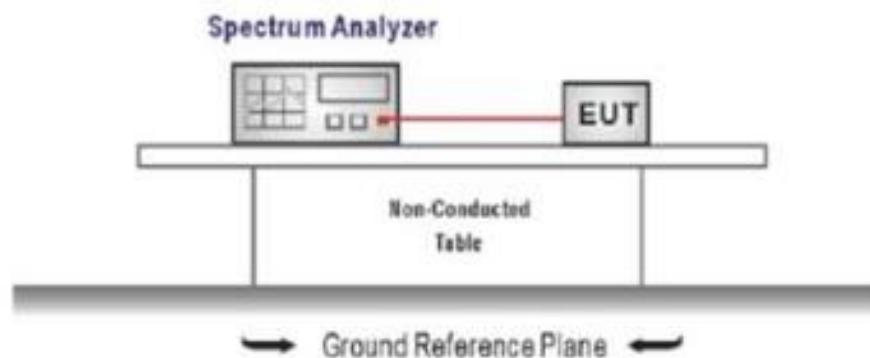


Vertical



7. 6dB Bandwidth Test

7.1. Block Diagram of Test Setup



7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

Use the test method described in ANSI C63.10 Section 11.8.2:

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

7.4. Test Results

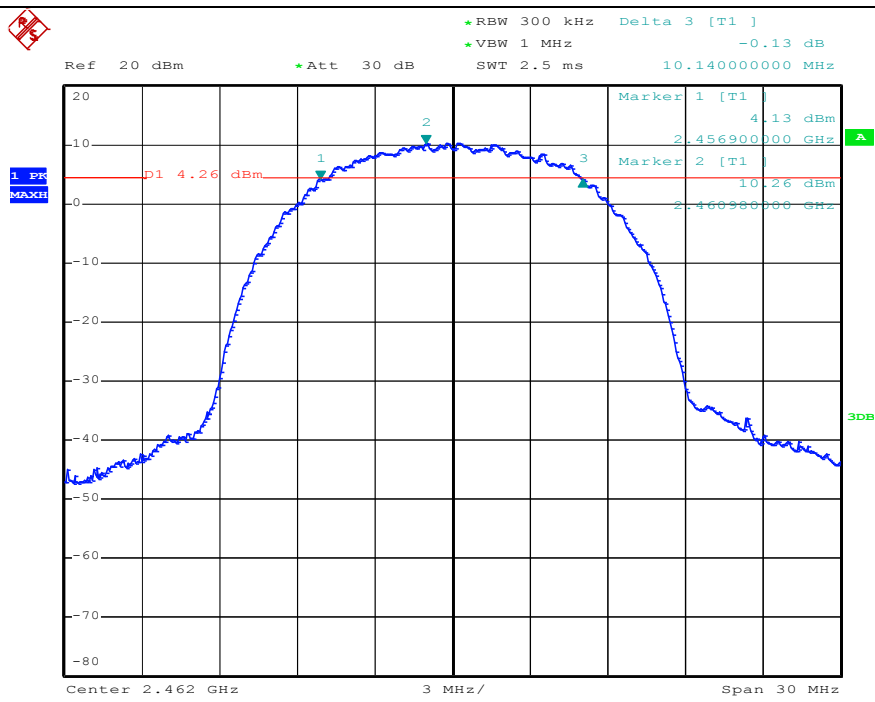
Pass

Note 1: Final Level = Spectrum Analyzer Read Level + Cable Loss

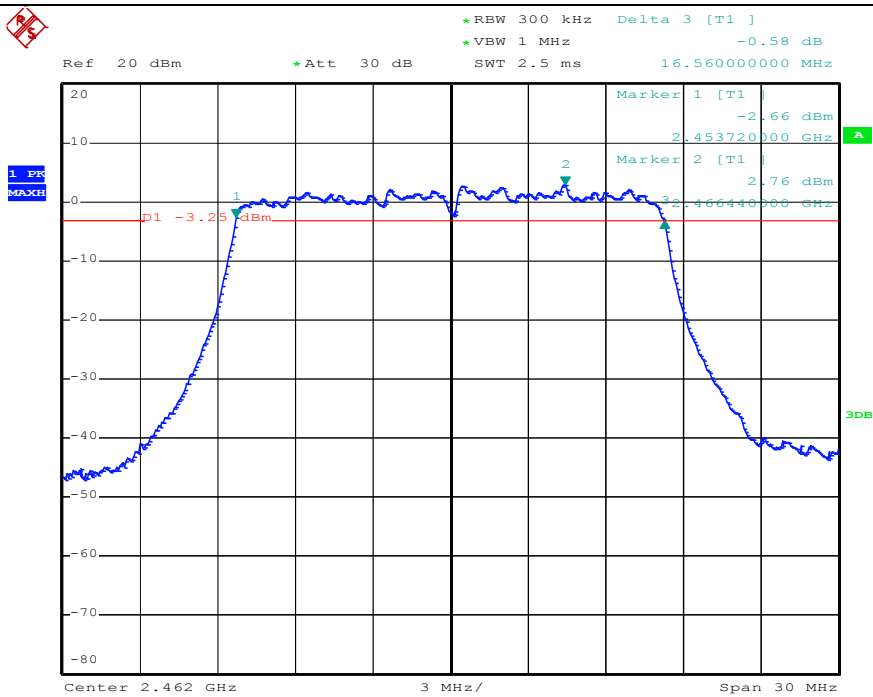
Test Mode	CH	-6dB bandwidth (MHz)	Limit (KHz)
11b	CH01	10.14	≧ 500
	CH06	10.20	
	CH11	10.14	
11g	CH01	16.56	≧ 500
	CH06	16.56	
	CH11	16.56	
11n HT20	CH01	17.34	≧ 500
	CH06	17.34	
	CH11	17.34	
11n HT40	CH03	33.96	≧ 500
	CH06	34.08	
	CH09	33.96	
Conclusion : PASS			

Report Formart No.: STP-QP019-129-A/0 Page 117 of 141

CH11

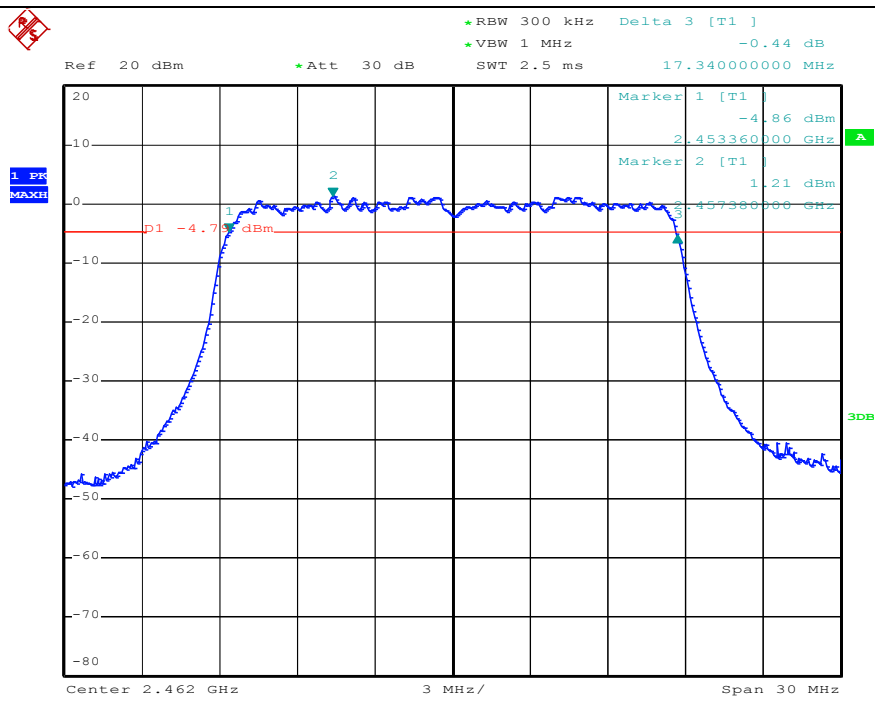


CH11

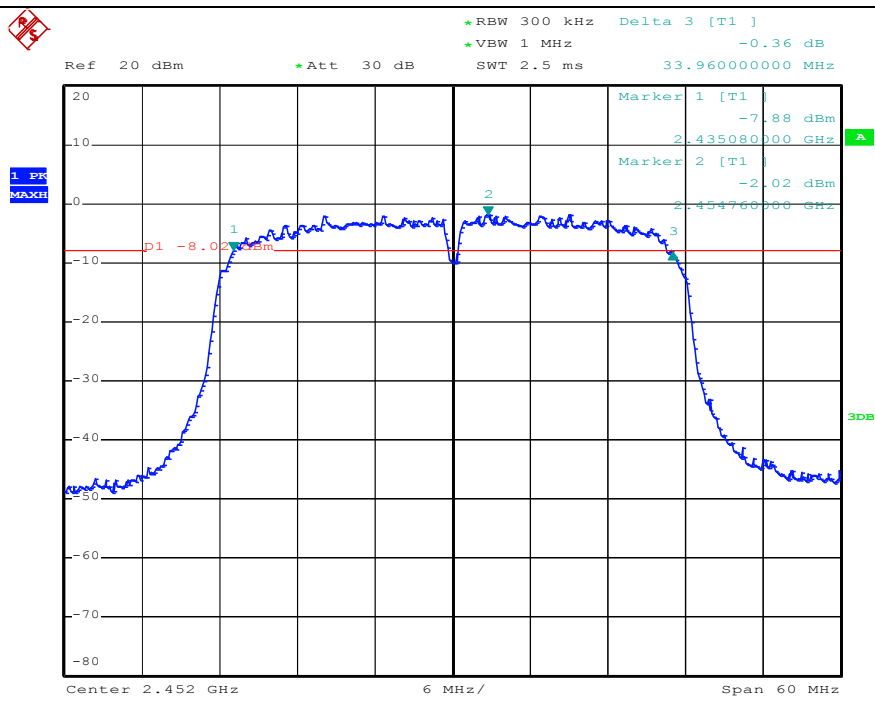


Report Formart No.: STP-QP019-129-A/0 Page 121 of 141

CH11

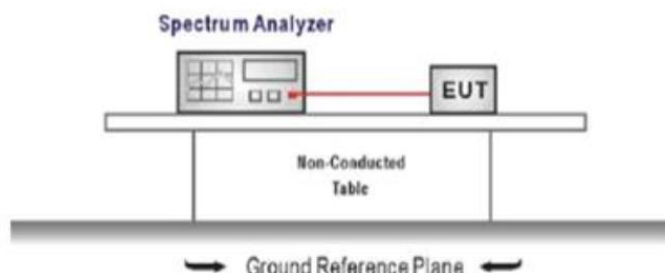


CH09



8. OUTPUT POWER TEST

8.1. Block Diagram of Test Setup



8.2. Limit

FCC Part 15C 15.247 b(3):

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm), As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

8.3. Test Procedure

- 1, Connected the EUT's antenna port to Spectrum Analyzer.
- 2, Use the test method described in ANSI C63.10 clause 11.9.2.2.2:
 - 1) Set span to at least 1.5 times the OBW.
 - 2) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
 - 3) Set VBW $\geq [3 \times \text{RBW}]$.
 - 4) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.).
 - 5) Sweep time = auto.
 - 6) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - 7) If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run.".
 - 8) Trace average at least 100 traces in power averaging (rms) mode.
 - 9) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

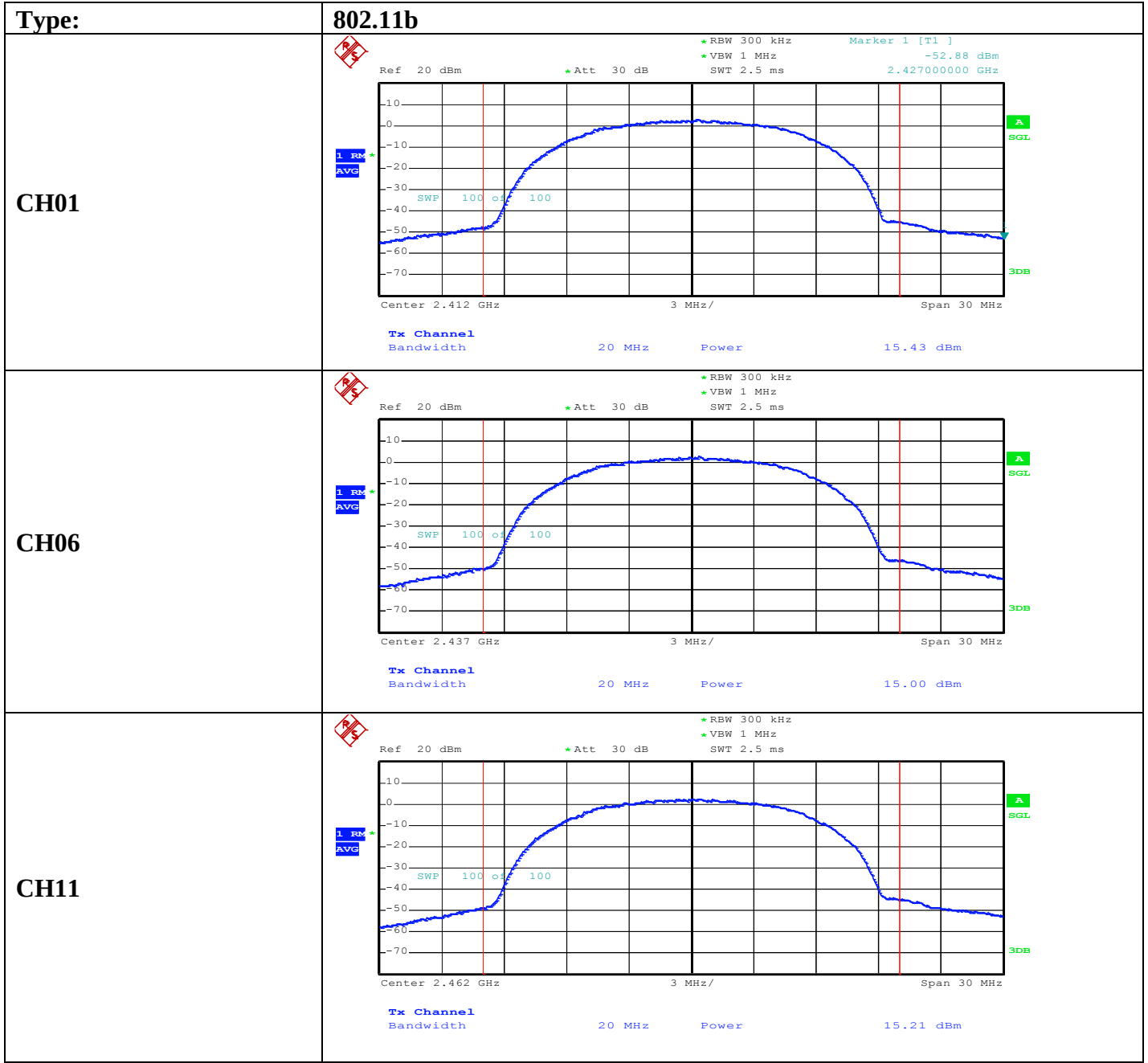
Note: The cable loss needs to be compensated into the data.

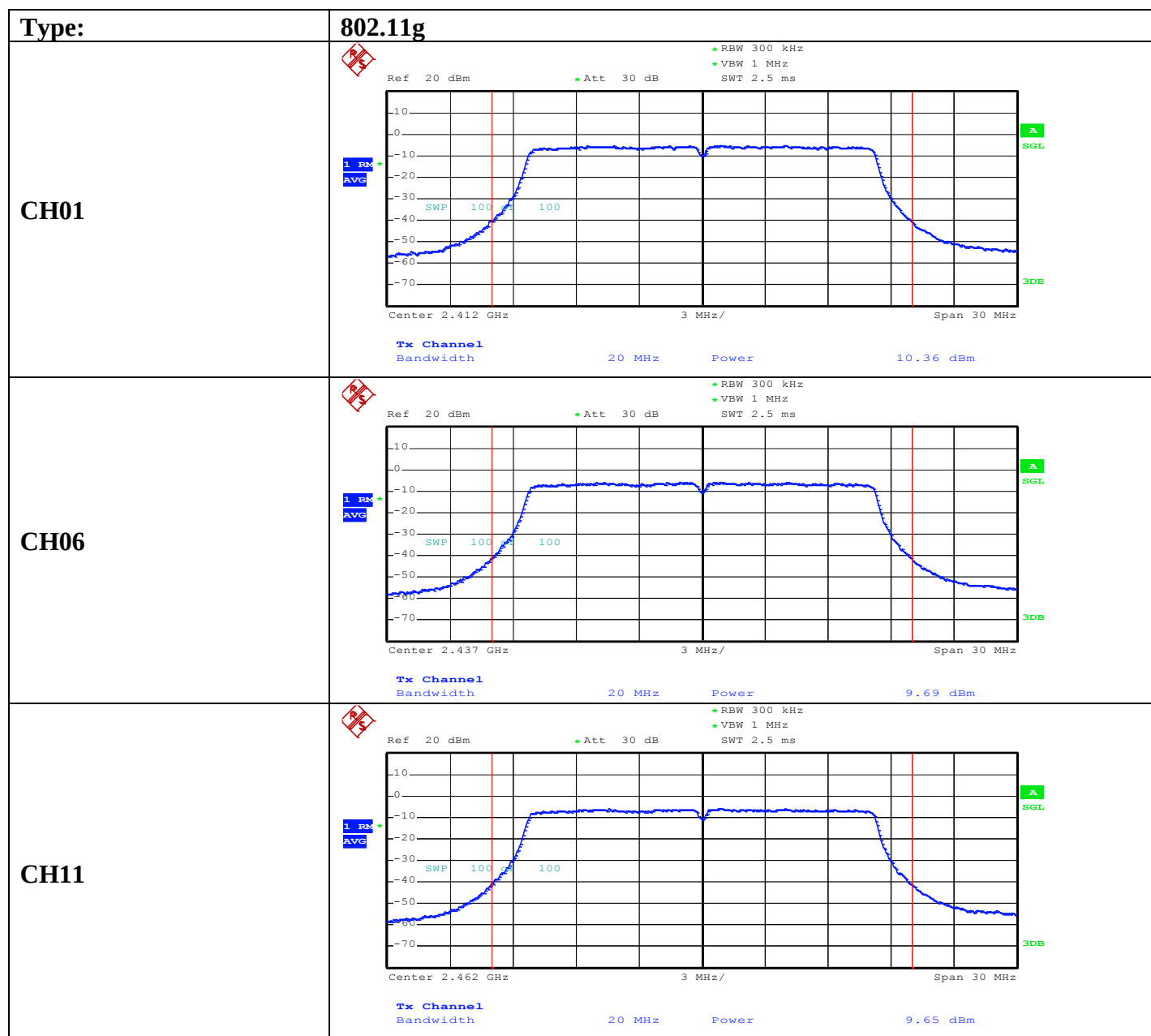
8.4. Test Results

Pass

Note 1: Final Level = Spectrum Analyzer Read Level + Cable Loss

Test Mode	CH	Output power (dBm)	Limit (dBm)
11b	CH01	15.43	≤30
	CH06	15.00	
	CH11	15.21	
11g	CH01	10.36	≤30
	CH06	9.69	
	CH11	9.65	
11n HT20	CH01	9.32	≤30
	CH06	8.88	
	CH11	8.59	
11n HT40	CH01	8.56	≤30
	CH06	8.21	
	CH11	7.96	
Conclusion: PASS			



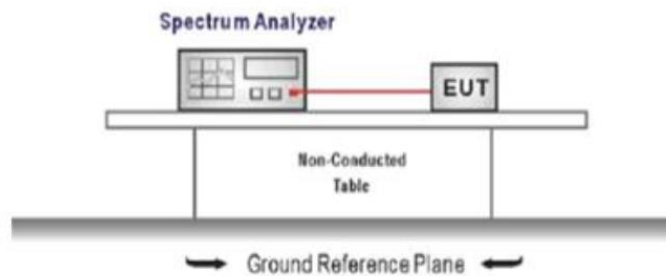


Type:	802.11n(HT20)
CH01	Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 9.32 dBm
CH06	Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 8.88 dBm
CH11	Ref 20 dBm Att 30 dB RBW 300 kHz VBW 1 MHz SWT 2.5 ms Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 8.59 dBm

Report Formart No.: STP-QP019-129-A/0 Page 130 of 141

9. POWER SPECTRAL DENSITY TEST

9.1. Block Diagram of Test Setup



9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

Use the test method described in ANSI C63.10 clause 11.10.2:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

9.4. Test Results

Pass

Note 1: Final Level = Spectrum Analyzer Read Level + Cable Loss

Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH01	-8.19	8
	CH06	-8.77	
	CH11	-8.69	
11g	CH01	-15.98	8
	CH06	-17.22	
	CH11	-16.45	
11n HT20	CH01	-17.88	8
	CH06	-18.38	
	CH11	-18.30	
11n HT40	CH03	-15.01	8
	CH06	-17.22	
	CH09	-18.07	
Conclusion : PASS			

Type:

802.11b

CH01

CH06

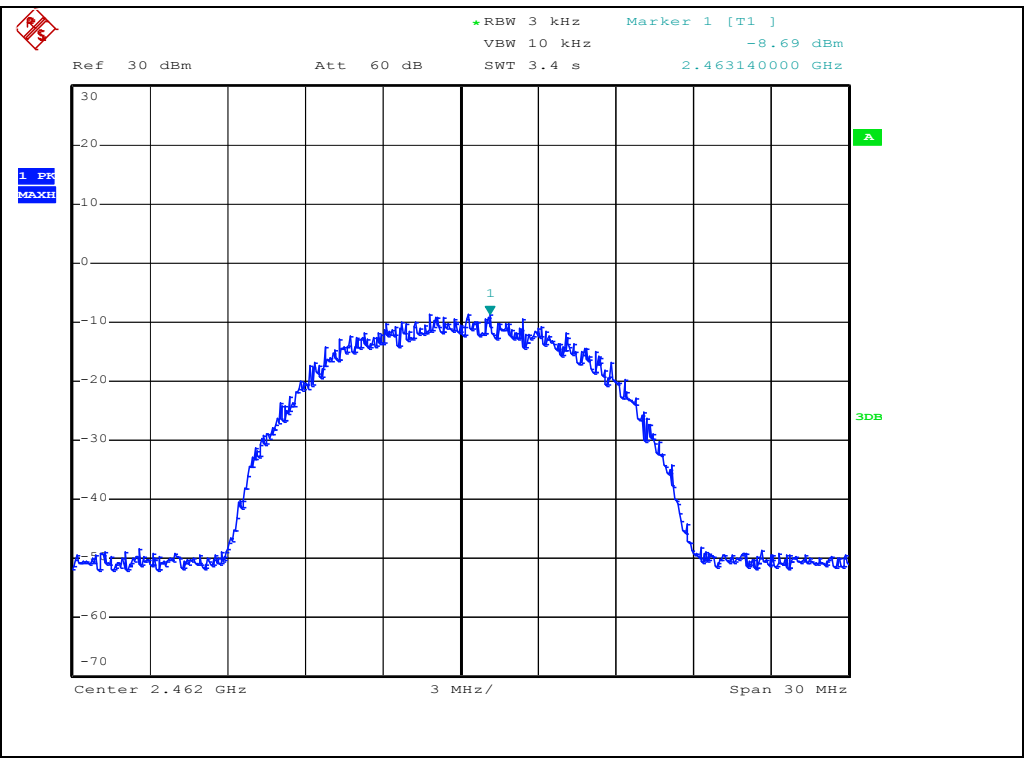
Ref 30 dBm Att 60 dB SWT 3.4 s RBW 3 kHz VBW 10 kHz Marker 1 [T1] -8.19 dBm 2.410800000 GHz

Center 2.412 GHz 3 MHz/ Span 30 MHz

Ref 30 dBm Att 60 dB SWT 3.4 s RBW 3 kHz VBW 10 kHz Marker 1 [T1] -8.77 dBm 2.435800000 GHz

Center 2.437 GHz 3 MHz/ Span 30 MHz

CH11



Type:

802.11g

CH01

CH06

Ref 30 dBm Att 60 dB

RBW 3 kHz VBW 10 kHz Marker 1 [T1] -15.98 dBm

SWT 3.4 s 2.416380000 GHz

1 PK MAXH

30 -20 -10 0 -10 -20 -30 -40 -50 -60 -70

Center 2.412 GHz 3 MHz/ Span 30 MHz

3dB

1

Ref 30 dBm Att 60 dB

RBW 3 kHz VBW 10 kHz Marker 1 [T1] -17.22 dBm

SWT 3.4 s 2.436640000 GHz

1 PK MAXH

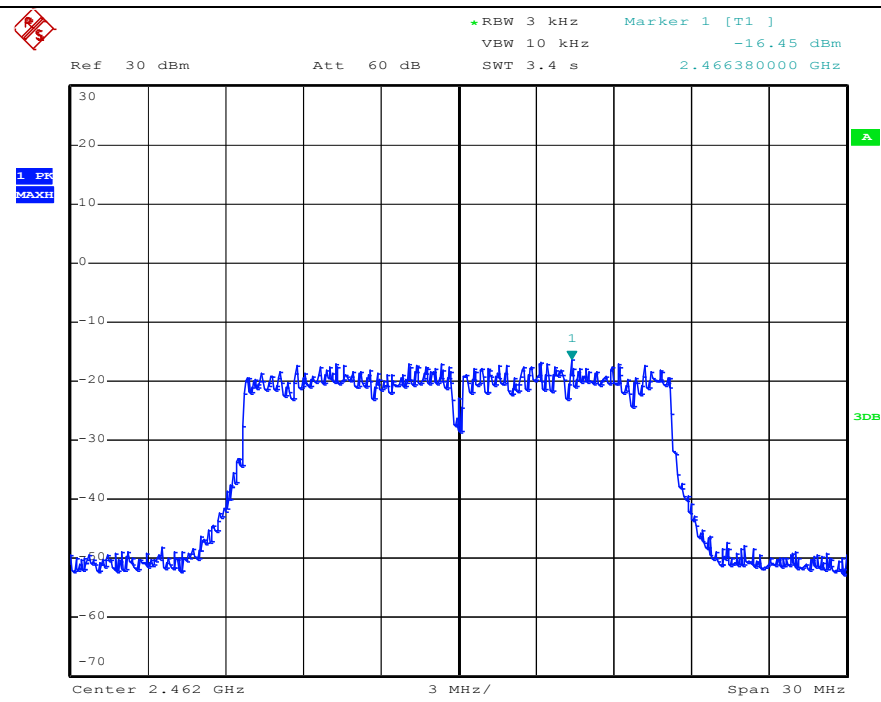
30 -20 -10 0 -10 -20 -30 -40 -50 -60 -70

Center 2.437 GHz 3 MHz/ Span 30 MHz

3dB

1

CH11



Type:

802.11n(HT20)

CH01

CH06

The figure displays two spectral plots, CH01 and CH06, for an 802.11n(HT20) signal. Both plots show a flat noise floor with a slight rise in the center, indicating no significant signal. The plots include parameters like Ref, Att, RBW, VBW, SWT, and a 3dB marker.

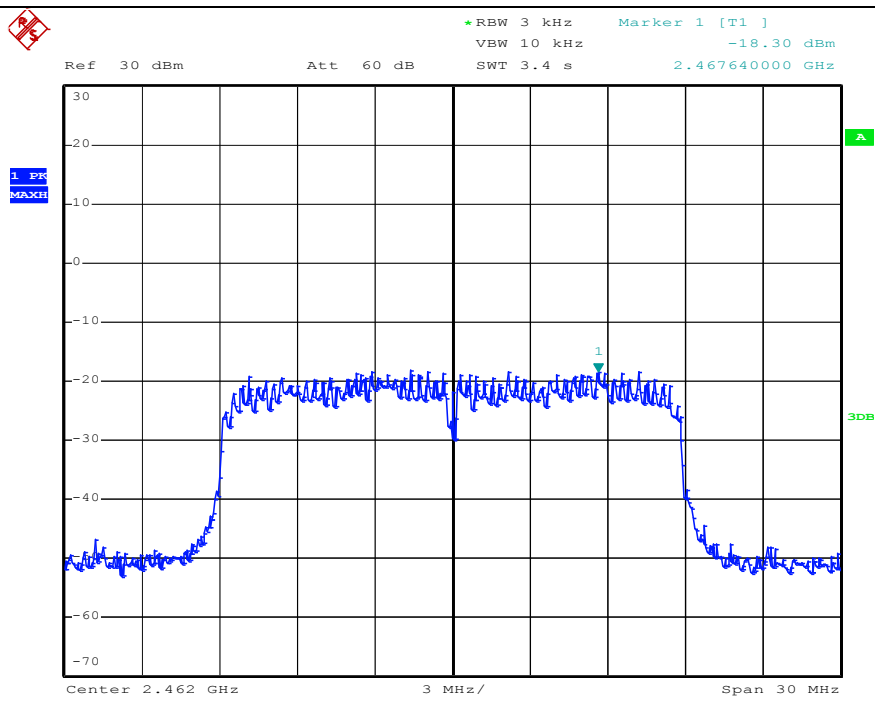
CH01 Plot Details:

- Ref: 30 dBm
- Att: 60 dB
- RBW: 3 kHz
- VBW: 10 kHz
- SWT: 3.4 s
- Marker 1 [T1]: -17.88 dBm
- Center: 2.412 GHz
- Span: 30 MHz
- 3dB Bandwidth: 3 MHz

CH06 Plot Details:

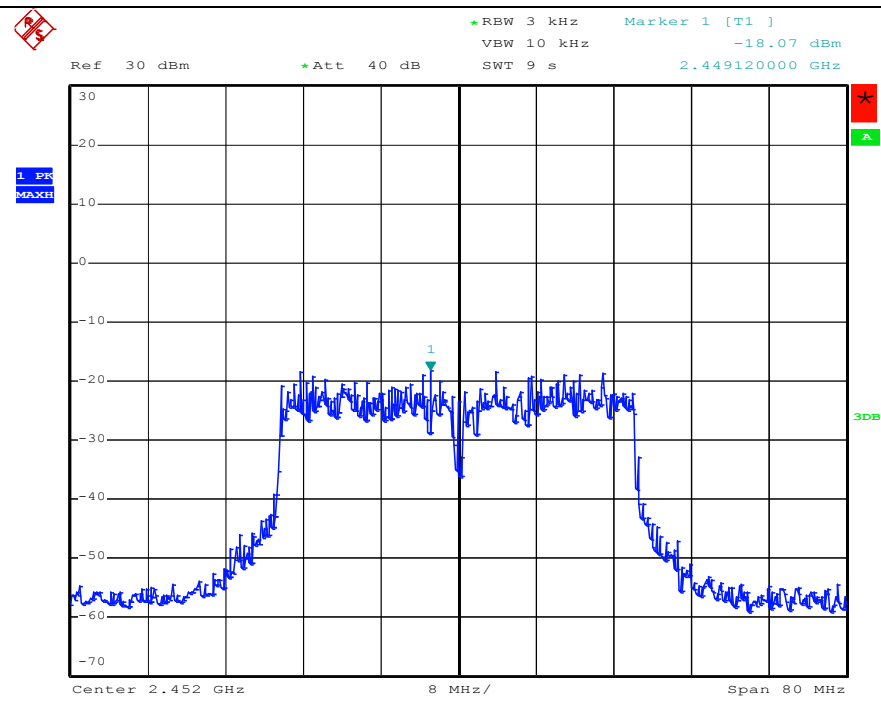
- Ref: 30 dBm
- Att: 60 dB
- RBW: 3 kHz
- VBW: 10 kHz
- SWT: 3.4 s
- Marker 1 [T1]: -18.38 dBm
- Center: 2.437 GHz
- Span: 30 MHz
- 3dB Bandwidth: 3 MHz

CH11



Report Formart No.: STP-QP019-129-A/0 Page 139 of 141

CH09



10.ANTENNA REQUIREMENT

10.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are FPC antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 4.1dBi.

..... End of Report