

FCC 15.247 & RSS-247 2.4GHz Test Report

for

LG Electronics Inc.

**222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do,
17709 Republic of Korea**

Product Name : Notebook Computer
Model Name : (1)16Z90RS (2)16ZD90RS
Brand : LG
FCC ID : BEJNT-16Z90RS
IC : 2703H-16Z90RS

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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APPENDIX A TEST DATA AND PLOTS
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TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : LG Electronics Nanjing New Technology Co., Ltd.
EUT Description
(1) Product : Notebook Computer
(2) Model : (1)16Z90RS (2)16ZD90RS
(3) Brand : LG
(4) Power Supply: DC 20V, 3.25A

Applicable Standards:

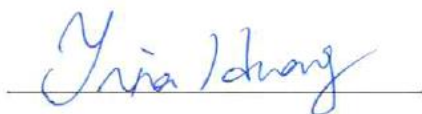
Title 47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5), Amendment 2, February 2021
RSS-247 (Issue 2), February 2017
ANSI C63.10:2013

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2022. 12. 02

Reviewed by:



(Tina Huang/Section Manager)

Approved by:



(Johnny Hsueh/Section Manager)

1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2022. 12. 02	Original Report	EM-F220800

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	RSS-247 §5.2(1)	DTS/Occupied Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output Power	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	---	Antenna Requirement	Compliance

Note: The uncertainties value is not used in determining the result.

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Factory	LG Electronics Nanjing New Technology Co., Ltd. No.346, Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.
Product	Notebook Computer
Model	(1)16Z90RS (2)16ZD90RS The difference between all models is different in the sales customers.
Brand	LG

3.2. Description of EUT

Test Model	16Z90RS		
Serial Number	N/A		
Power Rating	DC 20V, 3.25A		
Software Version	XY (X, Y can be 0 to 9 for different SW version not influence RF parameter)		
RF Features	WLAN:802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.1)		
Transmit Type	2.4 GHz		
	802.11b		1T1R
	802.11g		1T1R
	802.11n-HT20		2T2R
	802.11n-HT40		2T2R
	802.11ax-HE20		2T2R
	802.11ax-HE40		2T2R
	BT/BLE		1T1R
	U-NII Bands		
	802.11a		1T1R
	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20		2T2R
	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40		2T2R
	802.11ac-VHT80/802.11ax-HE80		2T2R
	802.11ac-VHT160/802.11ax-HE160		2T2R
	The MIMO is uncorrelated and supported SDM(Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).		
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	02	AC Conduction, RSE, Output Power	N/A
Date of Receipt	2022. 10. 13		
Date of Test	2022. 10. 26 ~ 11. 30		
Interface Ports of EUT	<ul style="list-style-type: none"> • One Micro SD Card Slot • One USB 3.2 Port • Two USB Type C Port • One Earphone Port 		
Accessories Supplied	<ul style="list-style-type: none"> • AC Adapter • USB C Cable • LAN Gender 		

3.3. Reference Test Guidance

KDB 662911 D01 Multiple Transmitter Output v02r01
 ANSI C63.10:2013

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Gain(dBi)		Directional Gain ^{Note1 & 2}
					Main	AUX	
1.	WA-P-LELE-04-035	INPAQ	Mono-Pole	2400	2.8	1.8	2.33
				2450	3.3	1.1	2.34
				2500	3.8	1.4	2.76
				5150	1.8	0.2	1.07
				5250	2.0	5.8	4.30
				5470	1.9	0.9	1.43
				5850	1.1	1.5	1.30
				5925	2.9	2.9	2.90
				6425	0.7	1.4	1.06
				6825	0.3	2.8	1.73
			7125	-3.4	1.0	-0.67	

According to KDB 662911 D01 d) ii), transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

Note 1. WLAN 2.4GHz: Directional gain =

$$2400\text{MHz: Directional gain} = 10 \log[(10^{2.8/10} + 10^{1.8/10})/2] = 2.33\text{dBi}$$

$$2450\text{MHz: Directional gain} = 10 \log[(10^{3.3/10} + 10^{1.1/10})/2] = 2.34\text{dBi}$$

$$2500\text{MHz: Directional gain} = 10 \log[(10^{3.8/10} + 10^{1.4/10})/2] = 2.76\text{dBi}$$

Note 2. WLAN 5G/6GHz: Directional gain =

$$5150\text{MHz: Directional gain} = 10 \log[(10^{1.8/10} + 10^{0.2/10})/2] = 1.07\text{dBi}$$

$$5250\text{MHz: Directional gain} = 10 \log[(10^{2.0/10} + 10^{5.8/10})/2] = 4.30\text{dBi}$$

$$5470\text{MHz: Directional gain} = 10 \log[(10^{1.9/10} + 10^{0.9/10})/2] = 1.43\text{dBi}$$

$$5850\text{MHz: Directional gain} = 10 \log[(10^{1.1/10} + 10^{1.5/10})/2] = 1.30\text{dBi}$$

$$5925\text{MHz: Directional gain} = 10 \log[(10^{2.9/10} + 10^{2.9/10})/2] = 2.90\text{dBi}$$

$$6425\text{MHz: Directional gain} = 10 \log[(10^{0.7/10} + 10^{1.4/10})/2] = 1.06\text{dBi}$$

$$6825\text{MHz: Directional gain} = 10 \log[(10^{0.3/10} + 10^{2.8/10})/2] = 1.73\text{dBi}$$

$$7125\text{MHz: Directional gain} = 10 \log[(10^{-3.4/10} + 10^{1.0/10})/2] = -0.67\text{dBi}$$

We chose the antenna gain corresponding to the frequency listed on the table which is closer to center frequency of WLAN/BT.

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 144.4
802.11n-HT40	2422-2462	9	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 300
802.11ax-HE20	2412-2472	13	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/1024QAM)	Up to 287
802.11ax-HE40	2422-2462	9		Up to 574
BLE	2402-2480	40	GFSK (1Mbps, 2Mbps, PHY Coded S8, PHY Coded S2)	Up to 2

Channel List			
802.11 b/g/n-HT20/ax-HE20		802.11n-HT40/ax-HE40	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

Channel List							
BLE							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

3.6. Descriptions of Key Components

3.6.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win 10	---
		Win 10 Pro	
		Win11	
Main Board	LG	1XZ90RS MAIN B/D PCB	Manufacturer: #1 Hannstar Board Tech (Jiang Yin) Corp.,Ltd. #2 Elec&Eltek Company (MCO) Limited.
WLAN SUB Board	LG	16Z90RS SUB B/D	Manufacturer: #1 HannstarBoardTech(Jiang Yin)Corp.,Ltd. #2JiangSuHuaShen Electronic co.,ltd (HXF) #3 Elec&Eltek Company (MCO) Limited.
CPU (Socket: BGA1744)	Intel	i7-1360P	2.2GHz
		i5-1340P	1.9GHz
16" LCD Panel	Samsung	ATNA60BX02-0	Resolution: 3200*2000/120Hz(WQHD)
Storage (SSD)	SK hynix	---	256GB
		---	512GB
		---	1TB
		---	2TB
	Samsung	---	128GB
		---	256GB
		---	512GB
		---	1TB
		---	2TB
		---	2TB
Memory (RAM)	Samsung	---	16GB LPDDR5x(On Board)
		---	8GB LPDDR5x(On Board)
		---	32GB LPDDR5x(On Board)
	SK Hynix	---	16GB LPDDR5x(On Board)
		---	8GB LPDDR5x(On Board)
		---	32GB LPDDR5x(On Board)
Battery Pack	LG	LBV7227E	80Wh with GM M/B DC 7.74V,80Wh
WLAN Combo Card	Intel	AX211D2W	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card FCC ID: PD9AX211D2 IC: 1000M-AX211D2
WLAN Combo Antenna	LG (INPAQ)	WA-P-LELE-04-035	PCB, Mono-pole Type Main: Black, Aux: Gray

Item	Supplier	Model / Type	Character	
Touch Pad	Taifang	TF100AP02002	---	
Keyboard	TIC	KT0120B8	---	
	LITE ON	SN8B01	---	
	LY	990-LPE	---	
Web Camera	Chicony	CKFLF26(2Mic)	---	
	Luxvisions	1BF225N3(2Mic)	---	
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100 Megabit Ethernet	
		80-5946-230	(White) 10/100/1000 Megabit Ethernet	
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100 Megabit Ethernet	
		GD-08MF-36-WH-LP12	(White) 10/100/1000 Megabit Ethernet	
	Type C to LAN: Shielded, Undetached, 0.12m			
	HUIZHOU DEHONG TECHNOLOGY CO.,LTD.	370-50713	(White) 10/100 Megabit Ethernet	
	Type C to LAN: Shielded, Undetached, 0.12m			
AC Adapter	LG (PI ELECTRONICS)	LP65WFC20P-NJ W	I/P: AC 100-240V, 1.6A, 50-60Hz O/P: DC 5V, 3A(15W) or DC 9V, 3A(27W) or DC 15V, 3A (45W) or DC 20V, 3.25A (65W) (US Type, Wall-mount)	
		Type C Cable, Shielded, Detached, 2.0m		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

3.6.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

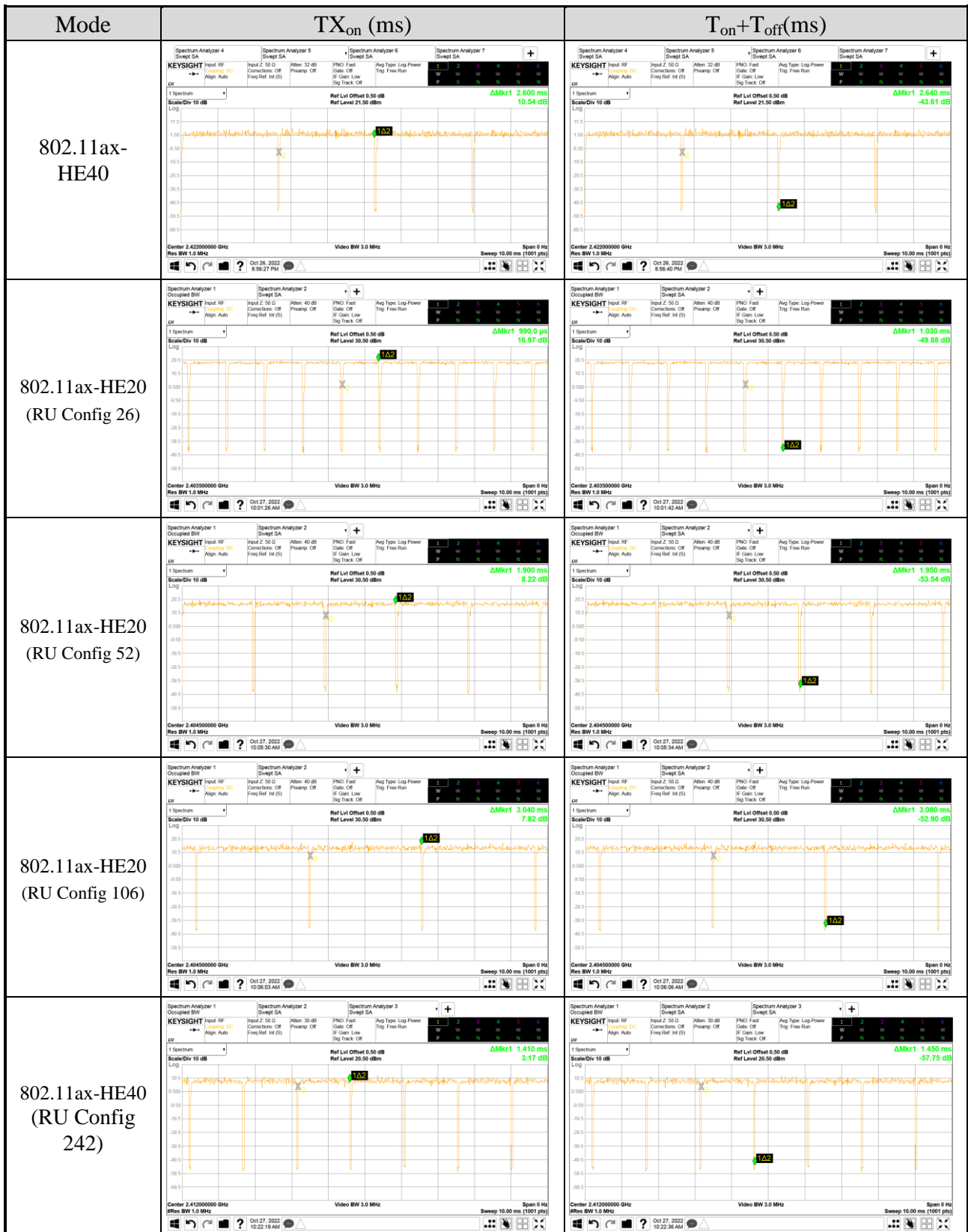
SKU (Mode)		1	
Main Board	LG, 1XZ90RS MAIN B/D PCB	V	
SUB Board	LG, 16Z90RS SUB B/D	V	
CPU	Intel, i7-1360P	V	
16" LCD Panel	Samsung, ATNA60BX02-0	V	
Storage (SSD)	SK hynix, 1TB	V	
	Samsung, 256GB	V	
Memory (RAM)	32GB	V	
Battery Pack	LG, 80Wh	V	
Keyboard	TIC, KT0120B8	V	
Touch Pad	Taifang, TF100AP02002	V	
Web Camera	Chicony, CKFLF26(2Mic)	V	
WLAN Combo Card	Intel, AX211D2W	V	
WLAN Combo Antenna	LG (INPAQ), WA-P-LELE-04-035	V	
Type C #1	AC Adapter	LG (PI ELECTRONICS), LP65WFC20P-NJ W	V
Type C #2	Link to LAN Gender	MEC	V

3.7. Test Configuration

Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11b	8.340	8.400	0.993	N/A
802.11g	2.080	2.120	0.981	N/A
802.11n-HT20	4.000	4.040	0.990	N/A
802.11n-HT40	3.990	4.030	0.990	N/A
802.11ax-HE20	2.610	2.650	0.985	N/A
802.11ax-HE40	2.600	2.640	0.985	N/A
802.11ax-HE20 (RU Config 26)	0.990	1.030	0.961	0.173
802.11ax-HE20 (RU Config 52)	1.900	1.950	0.974	0.114
802.11ax-HE20 (RU Config 106)	3.040	3.080	0.987	N/A
802.11ax-HE40 (RU Config 242)	1.410	1.450	0.972	0.123

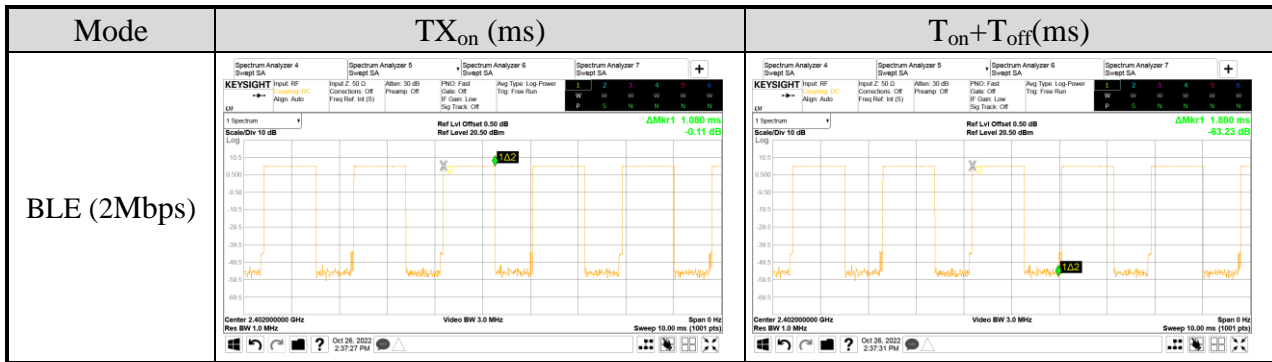
Note: When duty cycle is less than 98% (0.98) that duty cycle factor $10\log(1/x)$ is needed to add in conducted test items measured in average detector.

Mode	TX _{on} (ms)	T _{on} +T _{off} (ms)
802.11b		
802.11g		
802.11n-HT20		
802.11n-HT40		
802.11ax-HE20		



Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
BLE (2Mbps)	1.080	1.800	0.600	2.218

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



AC Conduction	
Normal operation	

Item	Mode	Data Rate	Test Channel	
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz)	802.11n-HT20	MCS8	7

Item	Mode	Data Rate	Test Channel	
Radiated Test Case	Radiated Band Edge ^{Note1}	802.11b	1Mbps	1/11/12/13
		802.11g	6Mbps	1/2/10/11/12/13
		802.11n-HT20	MCS8	1/2/3/10/11/12/13
		802.11n-HT40	MCS8	3/9/10/11
		802.11ax-HE20	HE0	1/2/3/10/11/12/13
		802.11ax-HE40	HE0	3/9/10/11
		BLE	2Mbps	37/39
	Radiated Spurious Emission ^{Note1 & 2}	802.11b	1Mbps	1
		802.11g	6Mbps	7
		802.11n-HT20	MCS8	7
		802.11n-HT40	MCS8	7
		802.11ax-HE20	HE0	7
		802.11ax-HE40	HE0	7
		BLE	1Mbps	37/17/39

Item	Mode	RU Config	Test Channel	
Radiated Test Case	Radiated Band Edge ^{Note 1}	802.11ax-HE20	26/0	1
			52/37	
			106/53	
		802.11ax-HE20	26/8	13
			52/40	
			106/54	
		802.11ax-HE40	242/61	3
			242/62	11

Item		Mode	Data Rate	Test Channel
Conducted Test Case	DTS/Occupied Bandwidth	802.11b	1Mbps	1/7/11/13
		802.11g	6Mbps	1/7/11/13
		802.11n-HT20	MCS8	1/7/11/13
		802.11n-HT40	MCS8	3/7/9/11
		802.11ax-HE20	HE0	1/7/11/13
		802.11ax-HE40	HE0	3/7/9/11
		BLE	1Mbps	37/17/39
	Peak Output Power	802.11b	1Mbps	1/7/11/12/13
		802.11g	6Mbps	1/2/7/10/11/12/13
		802.11n-HT20	MCS8	1/2/3/7/10/11/12/13
		802.11n-HT40	MCS8	3/7/9/10/11
		802.11ax-HE20	HE0	1/2/3/7/10/11/12/13
		802.11ax-HE40	HE0	3/7/9/10/11
		BLE	1Mbps	37/17/39
			2Mbps	37/17/39
			PHY Coded S2	37/17/39
			PHY Coded S8	37/17/39
	Band Edge	802.11b	1Mbps	1/11/13
		802.11g	6Mbps	1/11/13
		802.11n-HT20	MCS8	1/11/13
		802.11n-HT40	MCS8	3/9/11
		802.11ax-HE20	HE0	1/11/13
		802.11ax-HE40	HE0	3/9/11
		BLE	1Mbps	37/39
	Spurious Emission	802.11b	1Mbps	1/7/11/13
		802.11g	6Mbps	1/7/11/13
		802.11n-HT20	MCS8	1/7/11/13
		802.11n-HT40	MCS8	3/7/9/11
		802.11ax-HE20	HE0	1/7/11/13
		802.11ax-HE40	HE0	3/7/9/11
BLE		1Mbps	37/17/39	
Peak Power Spectral Density	802.11b	1Mbps	1/7/11/13	
	802.11g	6Mbps	1/7/11/13	
	802.11n-HT20	MCS8	1/7/11/13	
	802.11n-HT40	MCS8	3/7/9/11	
	802.11ax-HE20	HE0	1/7/11/13	
	802.11ax-HE40	HE0	3/7/9/11	
	BLE	1Mbps	37/17/39	

Item		Mode	Data Rate	RU Configuration	Test Channel
Conducted Test Case	DTS/Occupied Bandwidth	802.11ax-HE20	HE0	26/0	1
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	13
				52/40	
				106/54	
	Peak Output Power	802.11ax-HE20	HE0	26/0	1
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	13
				52/40	
				106/5	
	Peak Power Spectral Density	802.11ax-HE20	HE0	26/0	1
				52/37	
				106/53	
		802.11ax-HE40	HE0	26/8	13
				52/40	
				106/54	
802.11ax-HE40	HE0	242/61	3		
	HE0	242/62	11		

Note 1: Mobile Device
 Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: Lie Side Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

Note 3: The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified rate as the worst case for output power.

3.8. Output Power Setting

Mode	Centre Frequency (MHz)	Power Setting		Mode	Centre Frequency (MHz)	Power Setting	
		ANT (AUX)	ANT (Main)			ANT (AUX)	ANT (Main)
802.11b	2412	20.000	20.000	802.11g	2412	17.000	17.000
	2442	20.000	20.000		2417	19.000	19.250
	2462	20.000	20.000		2442	20.000	20.000
	2467	19.000	18.750		2457	18.750	18.750
	2472	16.500	15.500		2462	16.750	16.750
					2467	14.500	14.250
			2472	11.500	11.500		

Mode	Centre Frequency (MHz)	Power Setting	Mode	Centre Frequency (MHz)	Power Setting
802.11n-HT20	2412	14.750	802.11n-HT40	2422	13.750
	2417	17.000		2442	14.750
	2422	19.250		2452	13.750
	2442	20.000		2457	9.000
	2457	18.250		2462	5.500
	2462	15.000			
	2467	11.000			
	2472	6.000			

Mode	Centre Frequency (MHz)	Power Setting	Mode	Centre Frequency (MHz)	Power Setting
802.11ax-HE20	2412	14.750	802.11ax-HE40	2422	13.750
	2417	17.000		2442	14.750
	2422	19.250		2452	13.750
	2442	20.000		2457	9.000
	2457	18.250		2462	5.500
	2462	15.000			
	2467	11.000			
	2472	6.000			

Mode	RU Configuration	Centre Frequency (MHz)	Power Setting	
			AUX	Main
802.11ax-HE20	26/0	2412	18.250	17.500
	52/37		18.250	17.500
	106/53		18.250	17.500
	26/0	2472	5.500	5.500
	52/37		6.000	6.000
	106/53		6.000	6.000
802.11ax-HE40	242/61	2422	15.000	15.000
	242/62	2462	6.000	6.000

Mode	Centre Frequency (MHz)	Power Setting			
		1M	2M	PHY Coded S2	PHY Coded S8
BLE	2402	Default	Default	Default	Default
	2440	Default	Default	Default	Default
	2480	Default	Default	Default	Default

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

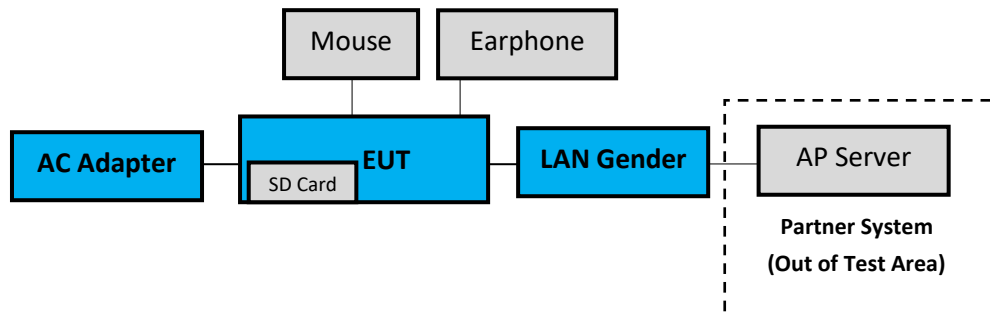
No.	Product	Brand	Model No.	Serial No.	Approval
1.	USB Mouse	hp	MOFYUO	FCMHH0AKZB D7LC	N/A
2.	Earphone	APPLE	N/A	N/A	N/A
3.	SD Card	ADATA	MicroSDHC Card	N/A	N/A
Partner System					
4.	AP Server	ASUS	RT-AX88U	N/A	FCC ID: MSQ-RTAXHP00 IC: 3568A-RTAXHP00

3.9.2. Cable Lists

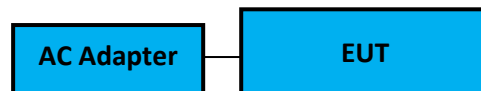
No.	Cable Description Of The Above Support Units
1.	USB Cable: Unshielded, Undetachable, 0.7m
2.	Earphone Cable: Unshielded, Undetachable, 1.2m
3.	N/A
4.	AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m LAN cable: Unshielded, Detachable, 3.0m
5.	LAN cable: Unshielded, Detachable, 1.8m

3.10. Setup Configuration

3.10.1. EUT Configuration for Power Line & Radiated Emission



3.10.2. EUT Configuration for RF Conducted Test Items



3.11. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel.

[ANT AUX port (A Button in DRTU), ANT Main port (B Button in DRTU)].

3.12. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.13.Measurement Uncertainty

Test Items/Facilities		Frequency Range	Uncertainty
Conduction Test	<input type="checkbox"/>	No. 7 Shielded Room	9kHz-150kHz ±3.7dB
			150kHz-30MHz ±3.4dB
	<input checked="" type="checkbox"/>	No. 8 Shielded Room	9kHz-150kHz ±3.7dB
			150kHz-30MHz ±3.5dB
Radiation Test	<input checked="" type="checkbox"/>	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal ±3.8dB
			200MHz-1000MHz, 3m, Horizontal ±4.4dB
			30MHz-200MHz, 3m, Vertical ±4.5dB
			200MHz-1000MHz, 3m, Vertical ±4.7dB
			1GHz-6GHz, 3m ±4.9dB
			6GHz-18GHz, 3m ±4.5dB
	<input type="checkbox"/>	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal ±4.0dB
			200MHz-1000MHz, 3m, Horizontal ±4.3dB
			30MHz-200MHz, 3m, Vertical ±4.6dB
			200MHz-1000MHz, 3m, Vertical ±4.7dB
			1GHz-6GHz, 3m ±4.8dB
			6GHz-18GHz, 3m ±4.5dB
	<input type="checkbox"/>	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal ±4.3dB
			200MHz-1000MHz, 3m, Horizontal ±4.3dB
			30MHz-200MHz, 3m, Vertical ±4.6dB
			200MHz-1000MHz, 3m, Vertical ±4.7dB
			1GHz-6GHz, 3m ±4.8dB
			6GHz-18GHz, 3m ±4.4dB
	<input type="checkbox"/>	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal ±4.3dB
			200MHz-1000MHz, 3m, Horizontal ±4.3dB
			30MHz-200MHz, 3m, Vertical ±4.5dB
			200MHz-1000MHz, 3m, Vertical ±4.6dB
			1GHz-6GHz, 3m ±4.9dB
			6GHz-18GHz, 3m ±4.1dB
Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.4dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	$\pm 0.05\text{kHz}$
Maximum peak output power	$\pm 0.33\text{dB}$
Power spectral density	$\pm 0.13\text{dB}$
Conducted Emission Limitations	$\pm 0.13\text{dB}$

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2022. 01. 11	1 Year
2.	A.M.N.	R&S	ENV432	101567	2022. 05. 26	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2021. 12. 19	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2021. 12. 23	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2022. 04. 14	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2022. 09. 07	1 Year
7.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2022. 08. 24	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2022. 06. 15	1 Year
3.	Amplifier	HP	8447D	2944A06305	2022. 01. 05	1 Year
4.	Microwave Amplifier	Keysight	83051A	MY56480113	2022. 09. 07	1 Year
5.	Microwave Amplifier	Agilent	8449B	3008A02678	2022. 02. 22	1 Year
6.	Loop Antenna	TESEQ	HLA 6121	60478	2022. 02. 17	1 Year
7.	Bilog Antenna	TESEQ	CBL6112D	33821	2022. 07. 01	1 Year
8.	Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00135902	2022. 03. 21	1 Year
9.	Horn Antenna	COM-POWER	AH-840	101092	2022. 01. 06	1 Year
10.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441 .5/E130.5-O/O	2	2022 .07. 23	1 Year
11.	3GHz Notch Filter	Microwave	H3G018G1	484796	2022 .07. 23	1 Year
12.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2022. 01. 20	1 Year
13.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2022. 01. 20	1 Year
14.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2022. 08. 22	1 Year
15.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2022. 04. 14	1 Year
16.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.3.RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2022. 03. 02	1 Year
2.	Power Meter	Anritsu	ML2495A	2127005	2022. 11. 30	1 Year
3.	Power Sensor	Anritsu	MA2411B	1911360	2021. 12. 02	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2022. 04. 14	1 Year

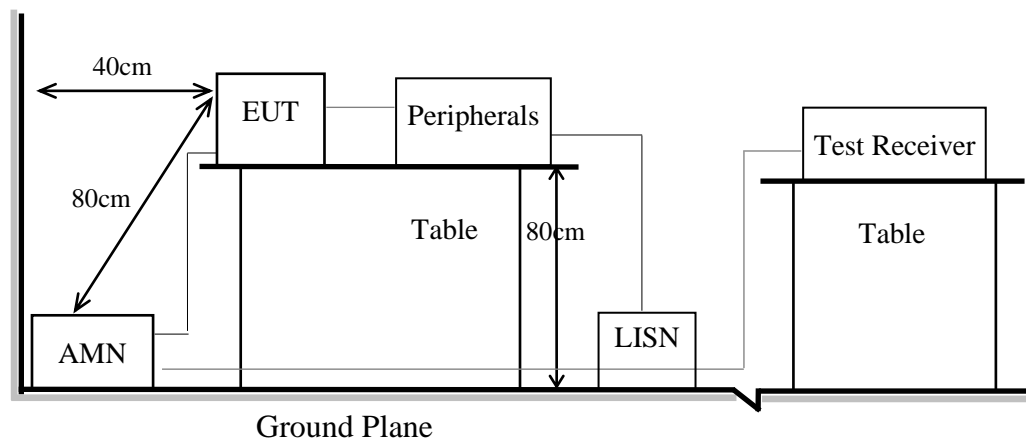
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.9

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

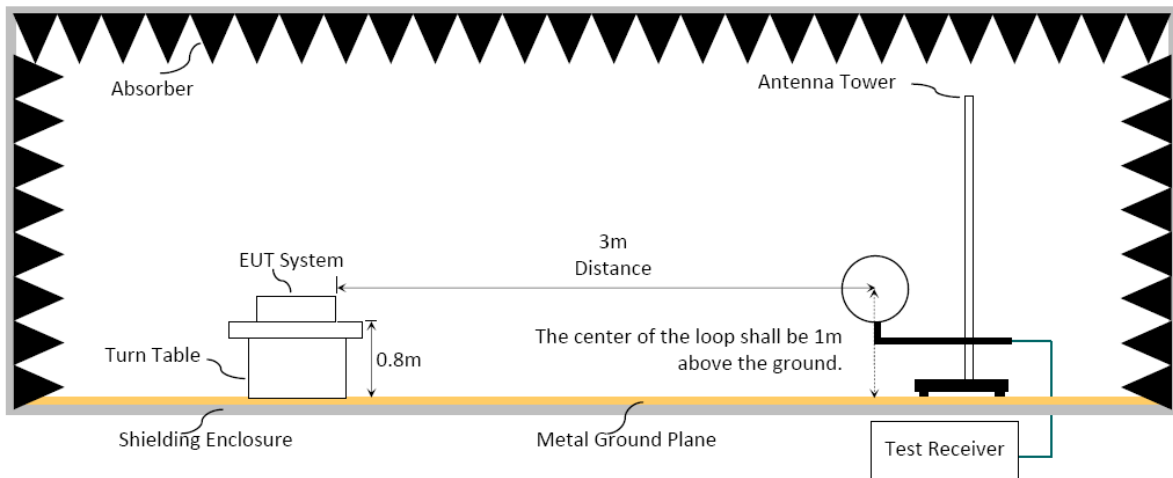
Please refer to Appendix A.

6. RADIATED EMISSION

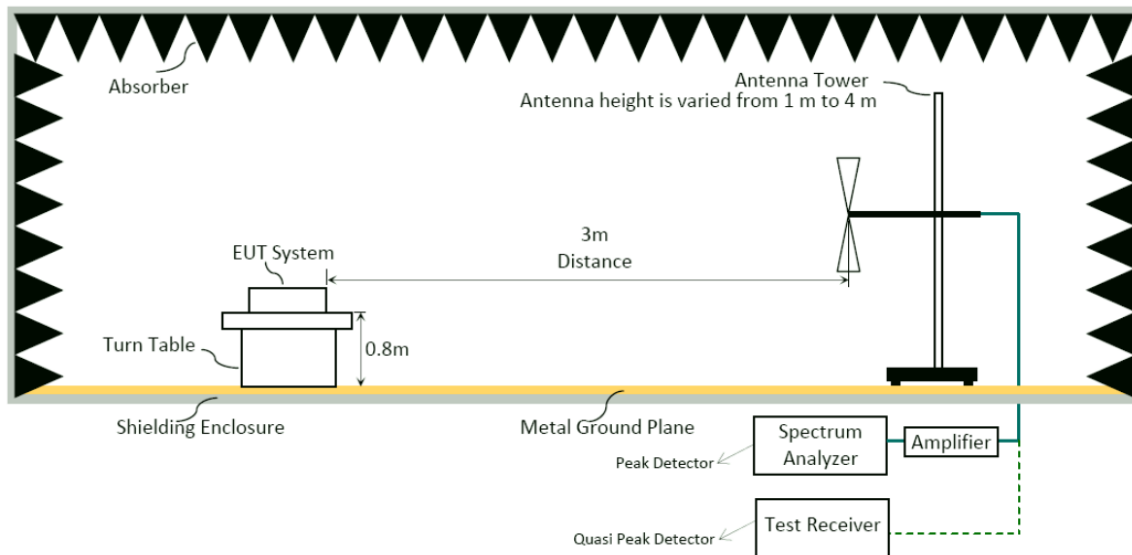
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of EUT
Indicated as section 3.9

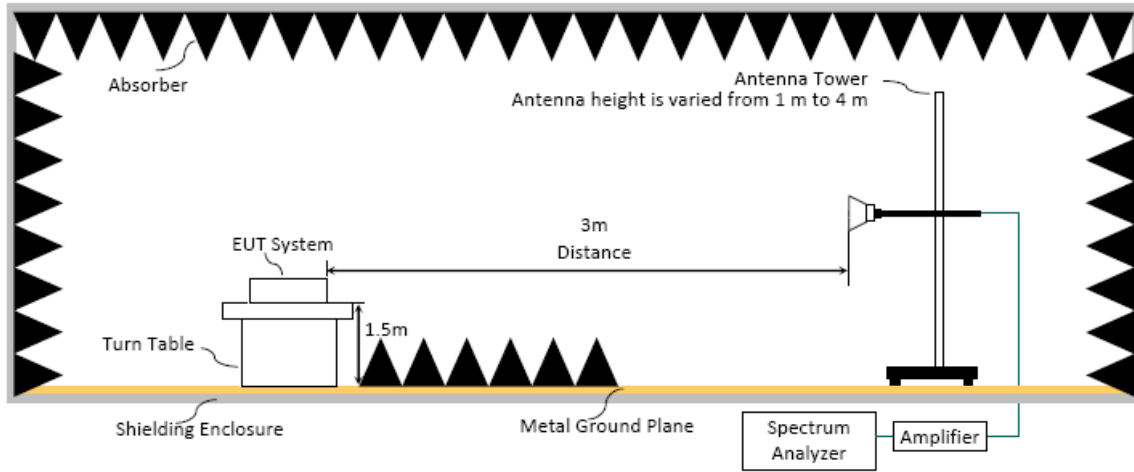
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable 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 C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW \geq 3 x RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic (up to 25 GHz):

Peak Detector:

- (1)RBW = 1MHz
- (2)VBW \geq 3 x RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:

Option 1:

(1) RBW = 1MHz

(2) VBW $\geq 1/T$. (Duty Cycle < 98%, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting (VBW $\geq 1/T$)
802.11ax-HE20 (RU Config 26)	1.1kHz
802.11ax-HE20 (RU Config 52)	560Hz
802.11ax-HE40 (RU Config 242)	750Hz
BLE (2Mbps)	1kHz

(3) VBW = 10Hz (Duty Cycle $\geq 98\%$, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting
802.11b	10Hz
802.11g	10Hz
802.11n-HT20	10Hz
802.11n-HT40	10Hz
802.11ax-HE20	10Hz
802.11ax-HE40	10Hz
802.11ax-HE20 (RU Config 106)	10Hz

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

(7) Allow sweeps to continue until the trace stabilizes.

Option 2:

Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation

Peak Emission Level (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

Average Emission Level (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

Average Emission Level (dB μ V/m) = Peak Emission Level (dB μ V/m) + DCCF (dB)
 Duty Cycle Correction Factor (DCCF) (dB) = $20 \log(TX_{on}/TX_{on+off})$ presented in section 3.7.

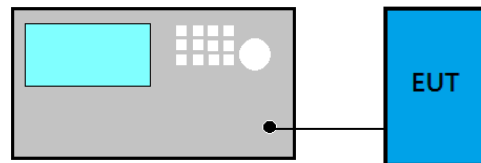
ERP (dBm) = Peak Emission Level (dB μ V/m) - 95.2dB - 2.14dB

6.5. Test Results

Please refer to Appendix A.

7. DTS/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

For DTS Bandwidth

- (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) Setting channel bandwidth function x to -6dB power to record the final bandwidth..

For 99% Occupied Bandwidth

- (1) Set Span range 1.5~5 times the OBW
- (2) Set RBW close to 1% to 5% of OBW.
- (3) Set $VBW \geq 3 \times RBW$.
- (4) Detector = Peak.
- (5) Trace mode = Max hold
- (6) Sweep = Auto couple.
- (7) Allow the trace to stabilize.

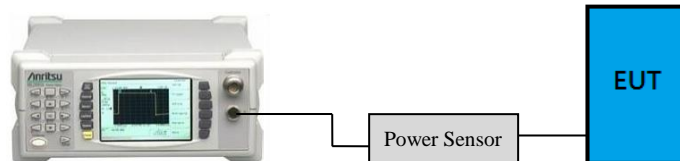
7.4. Test Results

Please refer to Appendix A

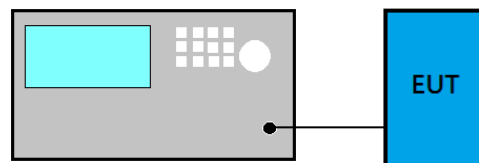
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup

- For WLAN Function



- For BLE Function



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

8.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■ PKPM1 Peak power meter method:

EUT is connected to power sensor and record the maximum output power.

■ Maximum peak conducted output power method:

- (1) Set the RBW \geq DTS bandwidth
- (2) Set VBW $\geq 3 \times$ RBW
- (3) Set span $\geq 3 \times$ RBW.
- (4) Sweep time = auto couple
- (5) Detector = peak.
- (6) Trace mode = max hold.
- (7) Allow trace to fully stabilize.
- (8) Use peak marker function to determine the peak amplitude level.

■ Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

Method AVGSA-2 (Spectrum channel power)

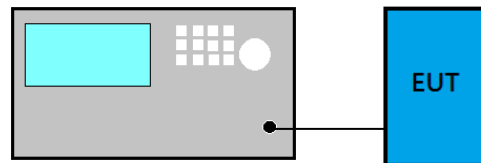
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

8.4. Test Results

Please refer to Appendix A

9. EMISSION LIMITATIONS

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■ Reference Level

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max PSD as reference level.

■ Emission Level Measurement

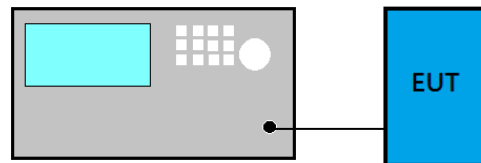
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■ Method PKPSD (peak PSD)

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize.
- (9) Use the peak marker function to determine the maximum amplitude level.
- (10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

□ Method AVGPSD-2

- (1) Using peak PSD procedure step 1 to step 4.
- (2) Detector = RMS detector
- (3) Sweep time = auto couple
- (4) Trace mode = trace averaging over a minimum of 100 traces
- (5) Use the peak marker function to determine the maximum amplitude level.
- (6) Duty cycle factor is added when duty cycle presented in section 3.7 < 98%.
- (7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A

11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



APPDNDIX A

TEST DATA AND PLOTS

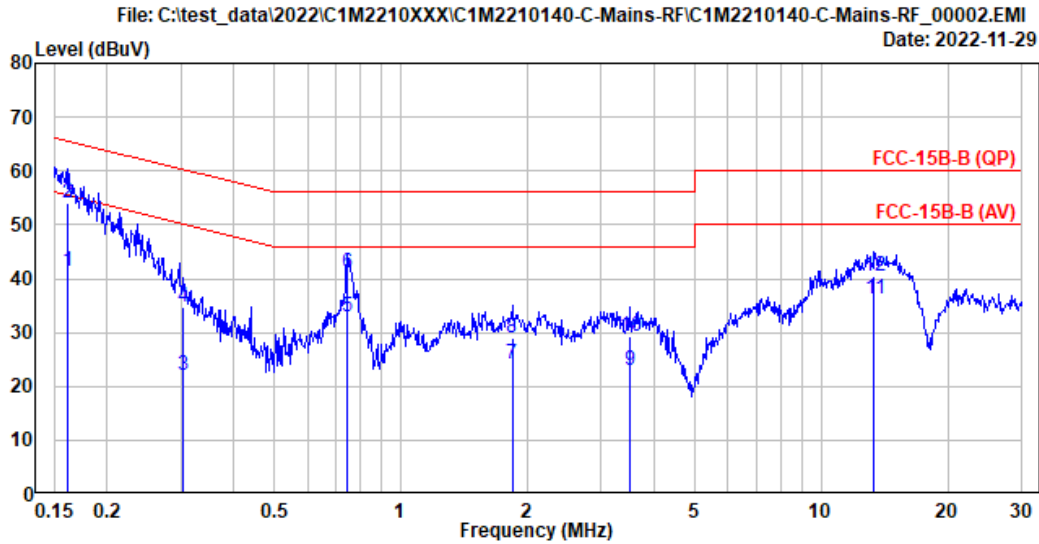
(Model: 16Z90RS)

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A.1 CONDUCTED EMISSION

Test Date	2022/11/29	Temp./Hum.	25°C/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESCI(923)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 25°C/62 %	Engineer	: Roy Hung
EUT Model	: 16Z90RS	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

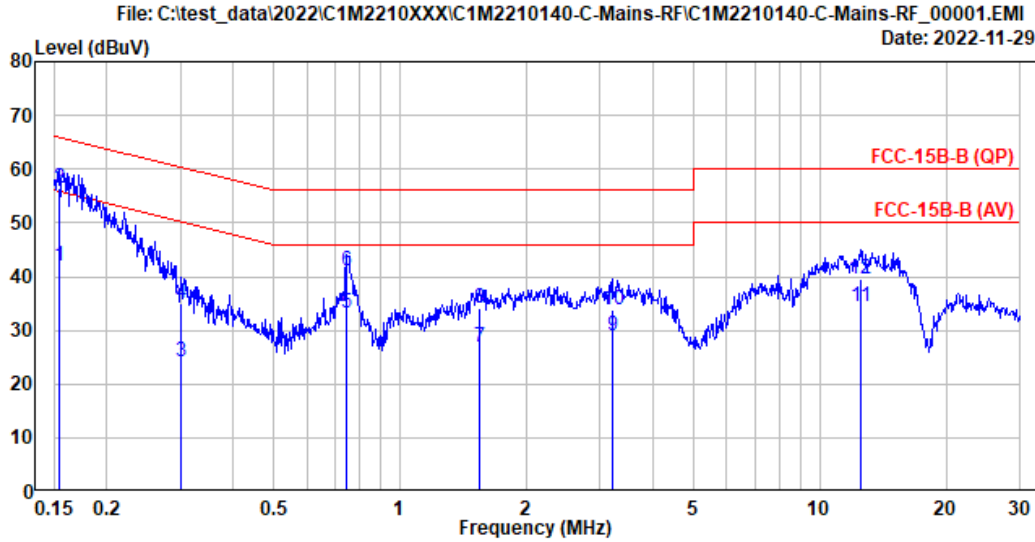
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.161	10.34	0.03	9.85	21.27	41.49	55.42	13.93	Average
2	0.161	10.34	0.03	9.85	33.73	53.95	65.42	11.47	QP
3	0.304	10.32	0.03	9.85	1.94	22.14	50.12	27.98	Average
4	0.304	10.32	0.03	9.85	14.62	34.82	60.12	25.30	QP
5	0.747	10.33	0.04	9.85	12.72	32.94	46.00	13.06	Average
6	0.747	10.33	0.04	9.85	20.92	41.14	56.00	14.86	QP
7	1.840	10.36	0.06	9.86	3.92	24.20	46.00	21.80	Average
8	1.840	10.36	0.06	9.86	8.77	29.05	56.00	26.95	QP
9	3.501	10.39	0.08	9.86	2.59	22.92	46.00	23.08	Average
10	3.501	10.39	0.08	9.86	9.08	29.41	56.00	26.59	QP
11	13.380	10.81	0.16	9.90	15.33	36.20	50.00	13.80	Average
12	13.380	10.81	0.16	9.90	19.72	40.59	60.00	19.41	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Audix Technology Corp.
 No. 491, Zhongfu Rd., Linkou Dist.,
 New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/11/29	Temp./Hum.	25°C/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESCI(923)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Line
Environment	: 25°C/62 %	Engineer	: Roy Hung
EUT Model	: 16Z90RS	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.154	10.22	0.03	9.85	21.75	41.85	55.79	13.94	Average
2	0.154	10.22	0.03	9.85	36.36	56.46	65.79	9.33	QP
3	0.300	10.22	0.03	9.85	3.90	24.00	50.25	26.25	Average
4	0.300	10.22	0.03	9.85	14.80	34.90	60.25	25.35	QP
5	0.747	10.23	0.04	9.85	13.04	33.16	46.00	12.84	Average
6	0.747	10.23	0.04	9.85	21.02	41.14	56.00	14.86	QP
7	1.546	10.24	0.05	9.86	6.80	26.95	46.00	19.05	Average
8	1.546	10.24	0.05	9.86	13.84	33.99	56.00	22.01	QP
9	3.200	10.27	0.07	9.86	8.63	28.83	46.00	17.17	Average
10	3.200	10.27	0.07	9.86	13.62	33.82	56.00	22.18	QP
11	12.478	10.49	0.15	9.90	13.92	34.46	50.00	15.54	Average
12	12.478	10.49	0.15	9.90	19.10	39.64	60.00	20.36	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

A.2 RADIATED EMISSION

Test Date	2022/11/25 ~ 30	Temp./Hum.	22 ~ 26°C/60 ~ 70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Martin Chen

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

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

A.2.1.2 Frequency Below 1GHz

Mode	802.11n-HT20	Frequency	TX 2442MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.940	22.87	1.46	26.48	34.19	32.04	40.00	7.96	Peak
143.490	17.30	3.13	26.03	35.29	29.69	43.50	13.81	Peak
378.230	21.18	5.69	26.28	37.69	38.28	46.00	7.72	Peak
485.900	23.24	6.65	27.04	34.14	36.99	46.00	9.01	Peak
815.700	25.41	8.30	27.22	29.86	36.35	46.00	9.65	Peak
980.600	26.89	9.18	26.72	27.80	37.15	54.00	16.85	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.910	22.70	1.48	0.00	12.10	36.28	40.00	3.72	Peak
144.460	17.24	3.14	26.02	37.28	31.64	43.50	11.86	Peak
378.230	21.18	5.69	26.28	37.94	38.53	46.00	7.47	Peak
484.930	23.24	6.65	27.04	33.90	36.75	46.00	9.25	Peak
917.550	26.20	8.85	26.93	29.65	37.77	46.00	8.23	Peak
975.750	26.86	9.17	26.72	28.84	38.15	54.00	15.85	Peak

Mode	BLE (2Mbps)	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.940	22.87	1.46	26.48	33.93	31.78	40.00	8.22	Peak
143.490	17.30	3.13	26.03	37.19	31.59	43.50	11.91	Peak
378.230	21.18	5.69	26.28	37.85	38.44	46.00	7.56	Peak
485.900	23.24	6.65	27.04	33.58	36.43	46.00	9.57	Peak
869.050	25.80	8.60	27.08	29.24	36.56	46.00	9.44	Peak
974.780	26.86	9.17	26.72	29.62	38.93	54.00	15.07	Peak

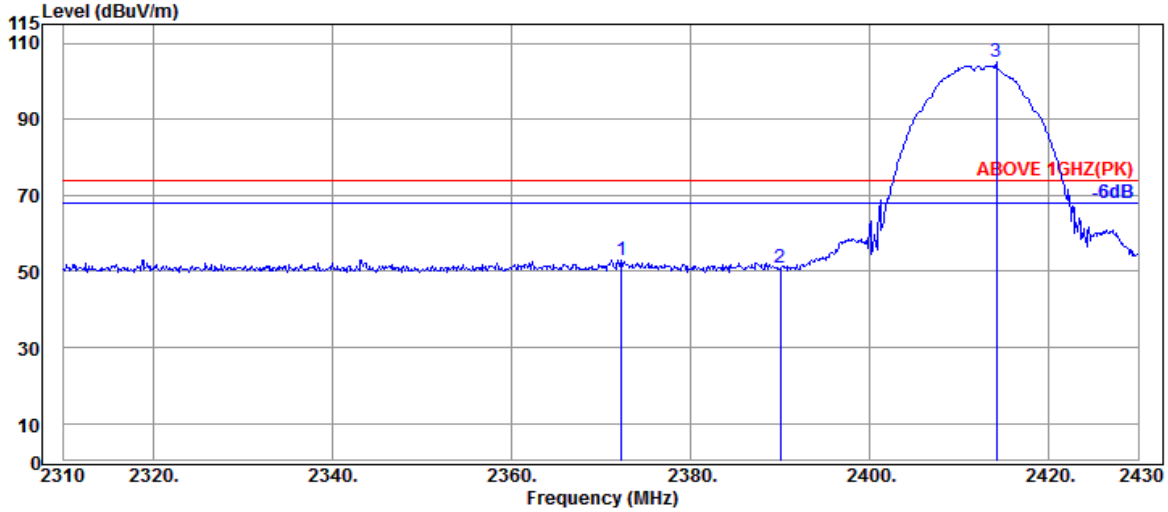
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.910	22.70	1.48	0.00	11.90	36.08	40.00	3.92	Peak
144.460	17.24	3.14	26.02	36.58	30.94	43.50	12.56	Peak
378.230	21.18	5.69	26.28	36.86	37.45	46.00	8.55	Peak
485.900	23.24	6.65	27.04	33.67	36.52	46.00	9.48	Peak
830.250	25.52	8.38	27.18	29.18	35.90	46.00	10.10	Peak
967.990	26.78	9.13	26.75	27.69	36.85	54.00	17.15	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

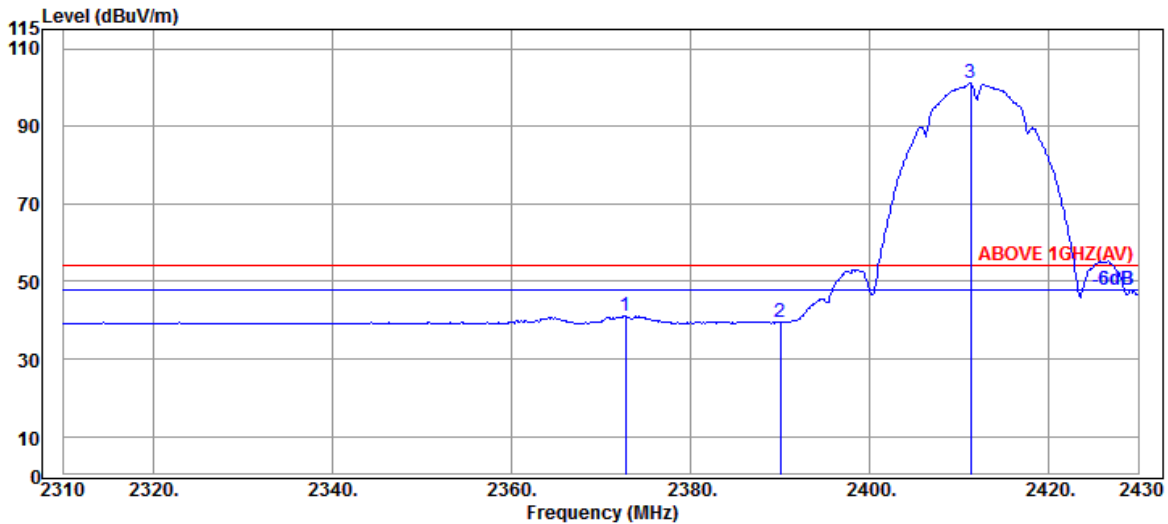
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2372.280	32.00	5.70	34.50	49.89	53.09	74.00	20.91	Peak
2390.040	32.00	5.72	34.51	47.62	50.83	74.00	23.17	Peak
@ 2414.160	32.00	5.76	34.51	101.86	105.11	---	---	Peak

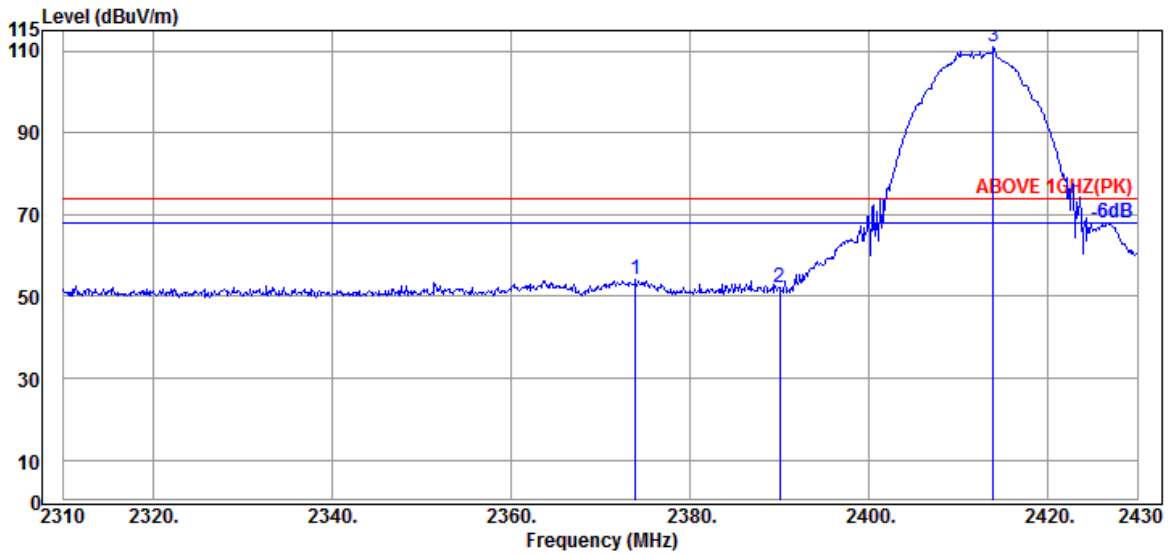


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2372.760	32.00	5.70	34.50	37.89	41.09	54.00	12.91	Average
2390.040	32.00	5.72	34.51	36.38	39.59	54.00	14.41	Average
@ 2411.280	32.00	5.76	34.51	97.75	101.00	---	---	Average

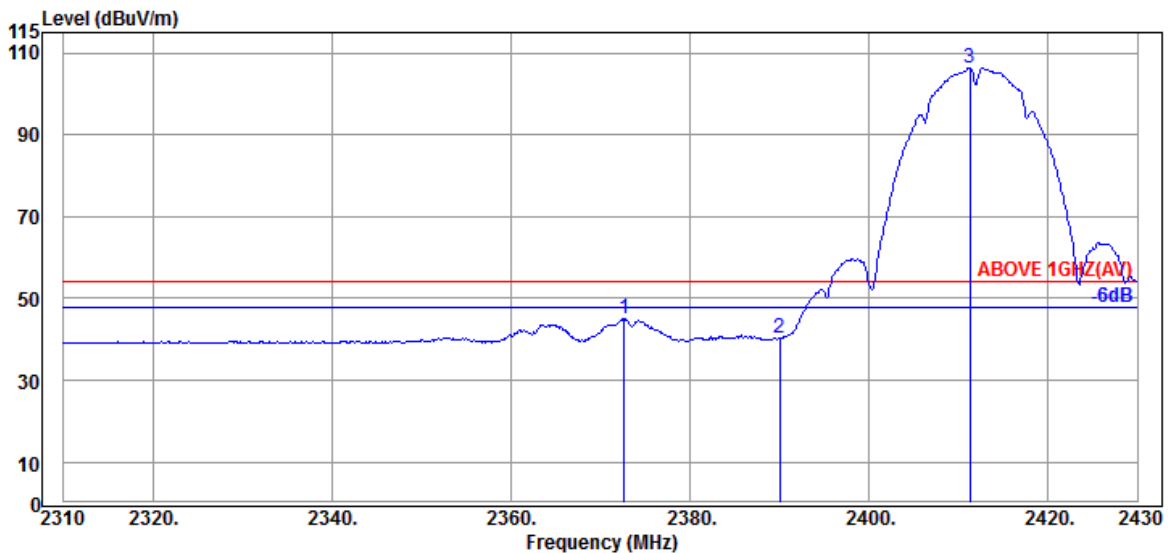
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2373.960	32.00	5.70	34.50	50.82	54.02	74.00	19.98	Peak
2390.040	32.00	5.72	34.51	48.89	52.10	74.00	21.90	Peak
@ 2413.920	32.00	5.76	34.51	107.60	110.85	---	---	Peak

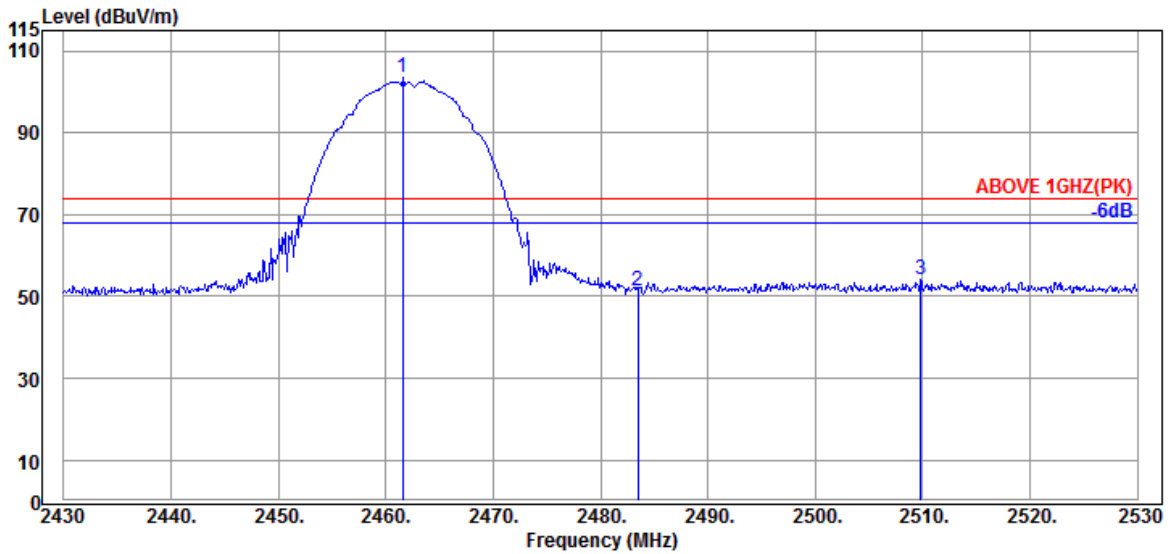


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2372.640	32.00	5.70	34.50	41.87	45.07	54.00	8.93	Average
2390.040	32.00	5.72	34.51	37.08	40.29	54.00	13.71	Average
@ 2411.280	32.00	5.76	34.51	103.01	106.26	---	---	Average

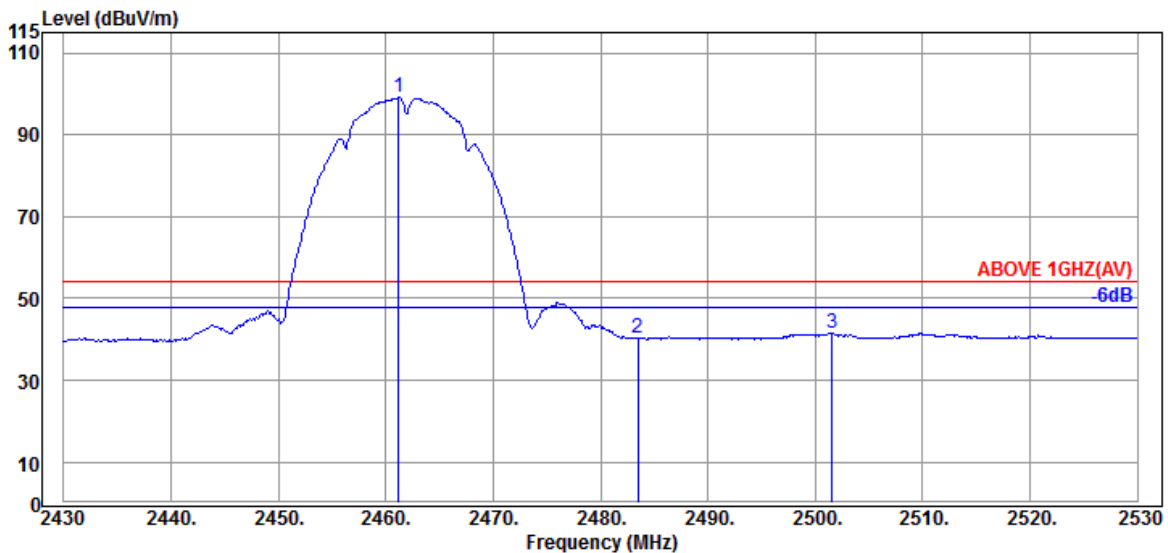
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.600	32.17	5.84	34.52	100.02	103.51	---	---	Peak
2483.500	32.43	5.87	34.53	47.55	51.32	74.00	22.68	Peak
2509.800	32.57	5.91	34.53	50.04	53.99	74.00	20.01	Peak

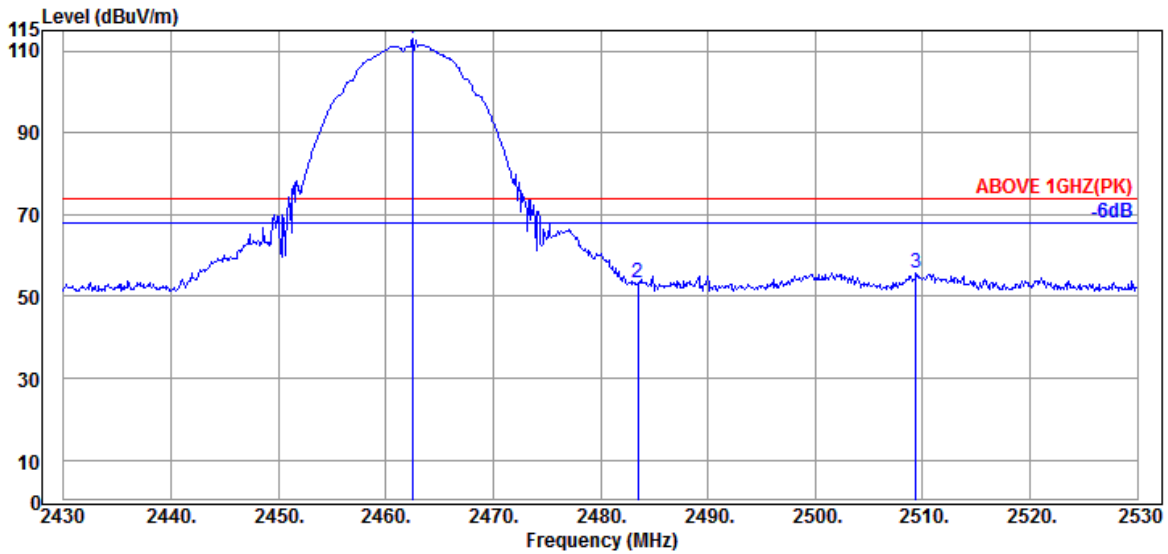


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.200	32.17	5.84	34.52	95.64	99.13	---	---	Average
2483.500	32.43	5.87	34.53	36.46	40.23	54.00	13.77	Average
2501.600	32.60	5.89	34.53	37.43	41.39	54.00	12.61	Average

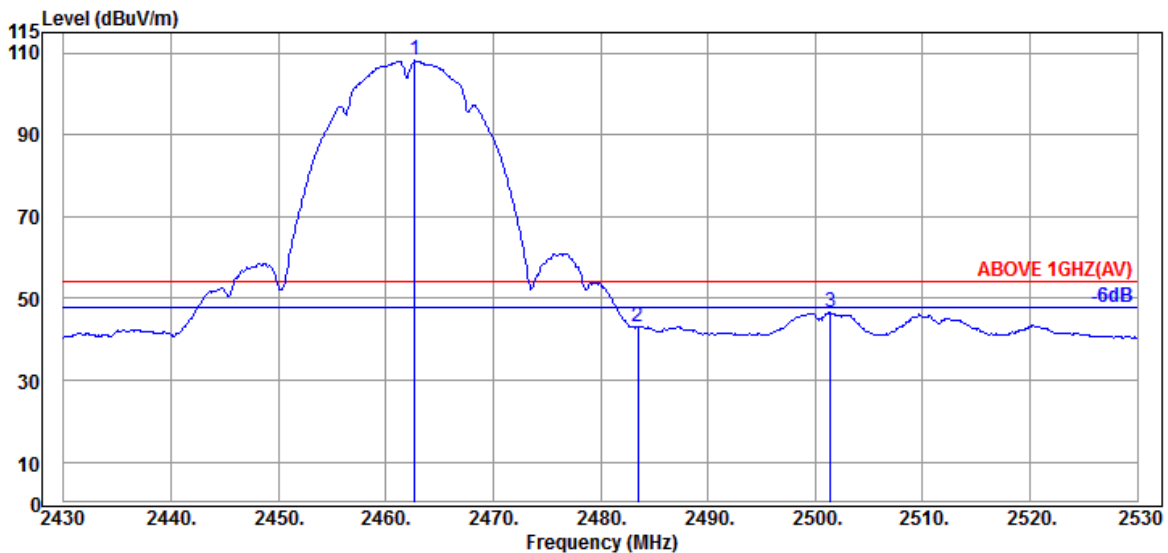
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.500	32.17	5.84	34.52	109.48	112.97	---	---	Peak
2483.500	32.43	5.87	34.53	49.58	53.35	74.00	20.65	Peak
2509.400	32.57	5.91	34.53	51.97	55.92	74.00	18.08	Peak

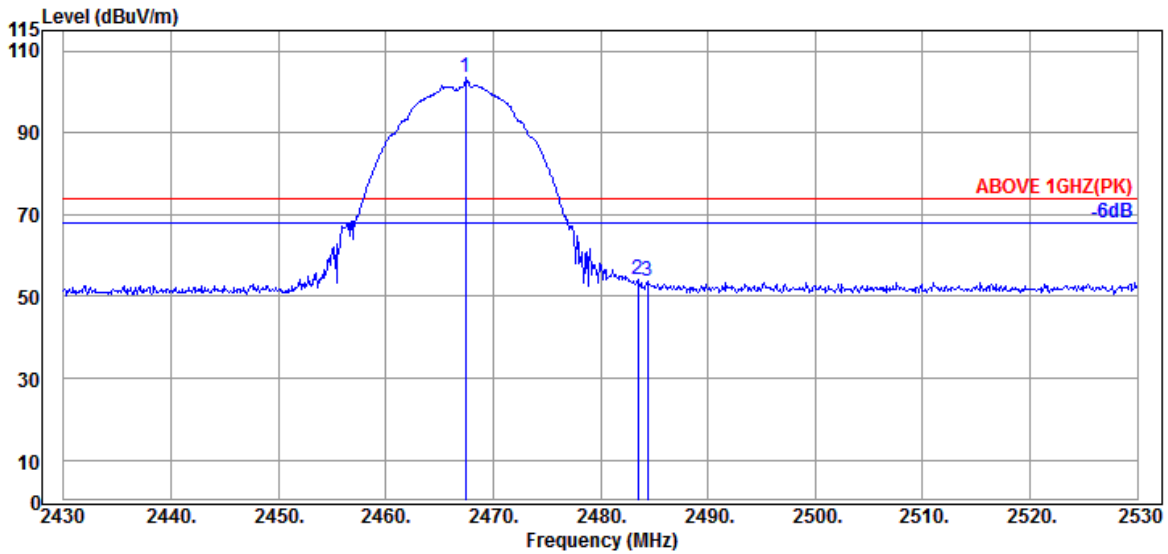


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2462.700	32.17	5.84	34.52	104.60	108.09	---	---	Average
2483.500	32.43	5.87	34.53	39.40	43.17	54.00	10.83	Average
2501.400	32.60	5.89	34.53	42.76	46.72	54.00	7.28	Average

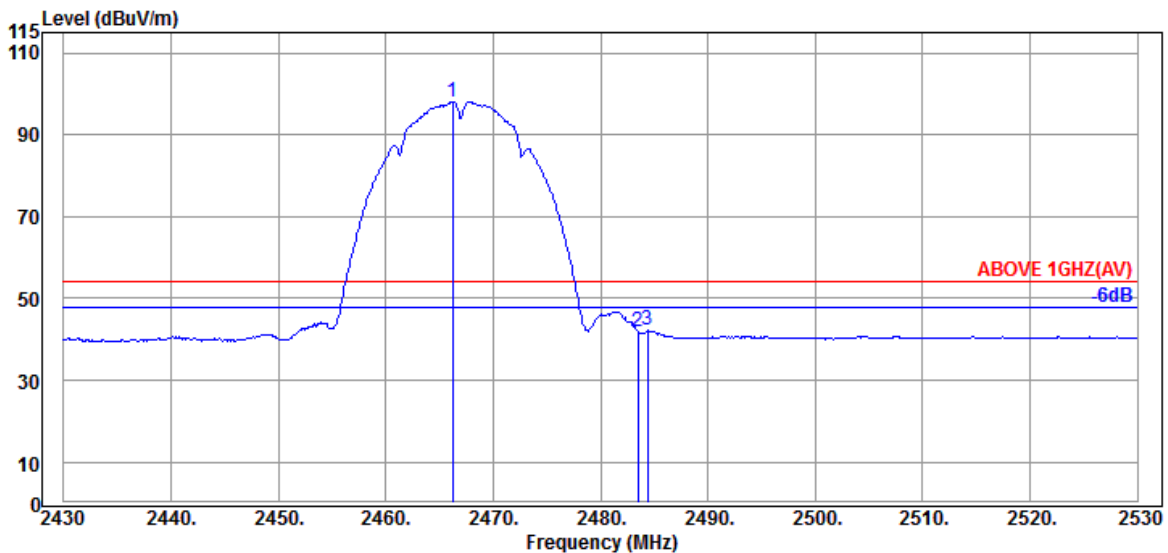
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.400	32.17	5.84	34.52	99.98	103.47	---	---	Peak
2483.500	32.43	5.87	34.53	50.42	54.19	74.00	19.81	Peak
2484.400	32.43	5.87	34.53	49.80	53.57	74.00	20.43	Peak

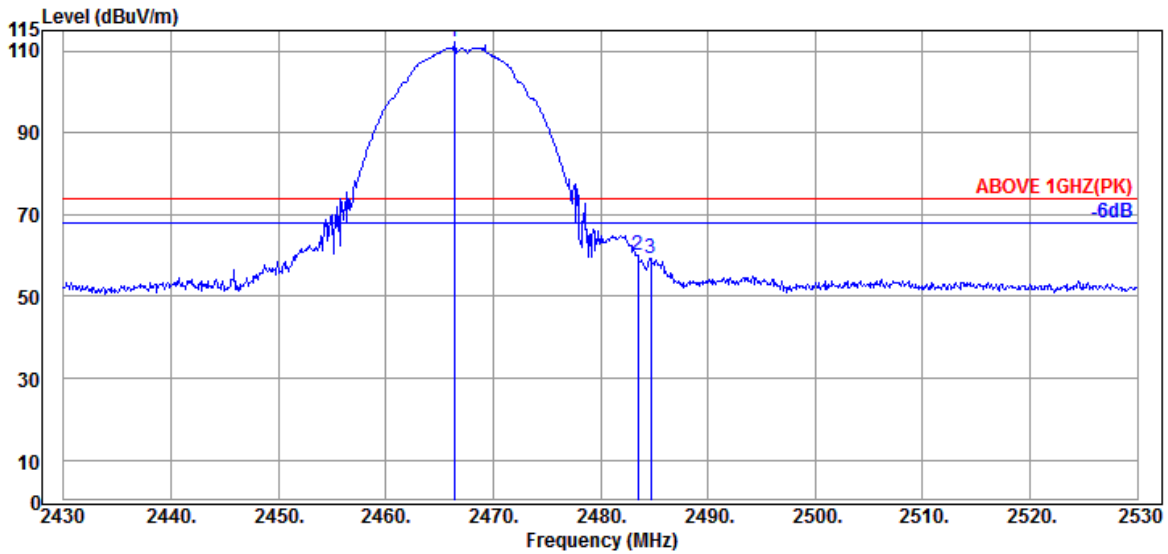


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.200	32.17	5.84	34.52	94.64	98.13	---	---	Average
2483.500	32.43	5.87	34.53	38.03	41.80	54.00	12.20	Average
2484.400	32.43	5.87	34.53	38.62	42.39	54.00	11.61	Average

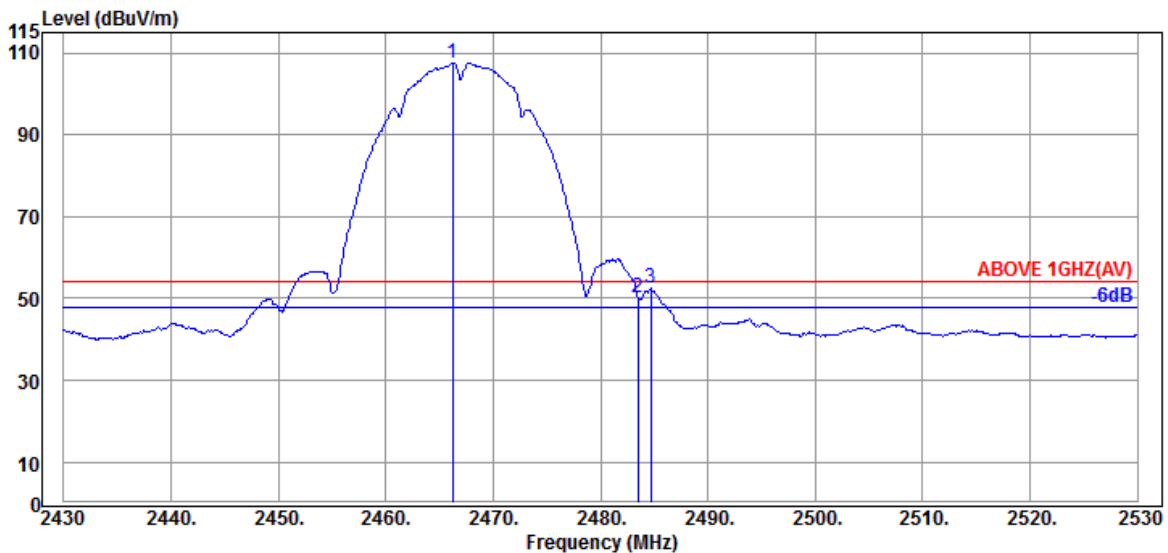
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.400	32.17	5.84	34.52	108.79	112.28	---	---	Peak
2483.500	32.43	5.87	34.53	56.17	59.94	74.00	14.06	Peak
2484.700	32.43	5.87	34.53	55.39	59.16	74.00	14.84	Peak

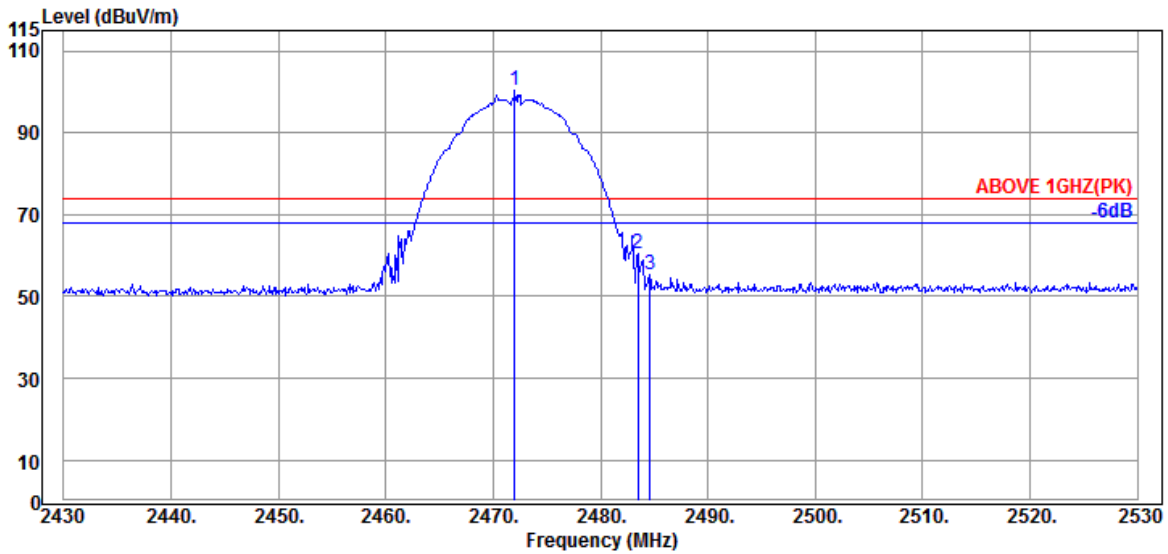


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2466.200	32.17	5.84	34.52	104.02	107.51	---	---	Average
2483.500	32.43	5.87	34.53	46.42	50.19	54.00	3.81	Average
2484.700	32.43	5.87	34.53	48.70	52.47	54.00	1.53	Average

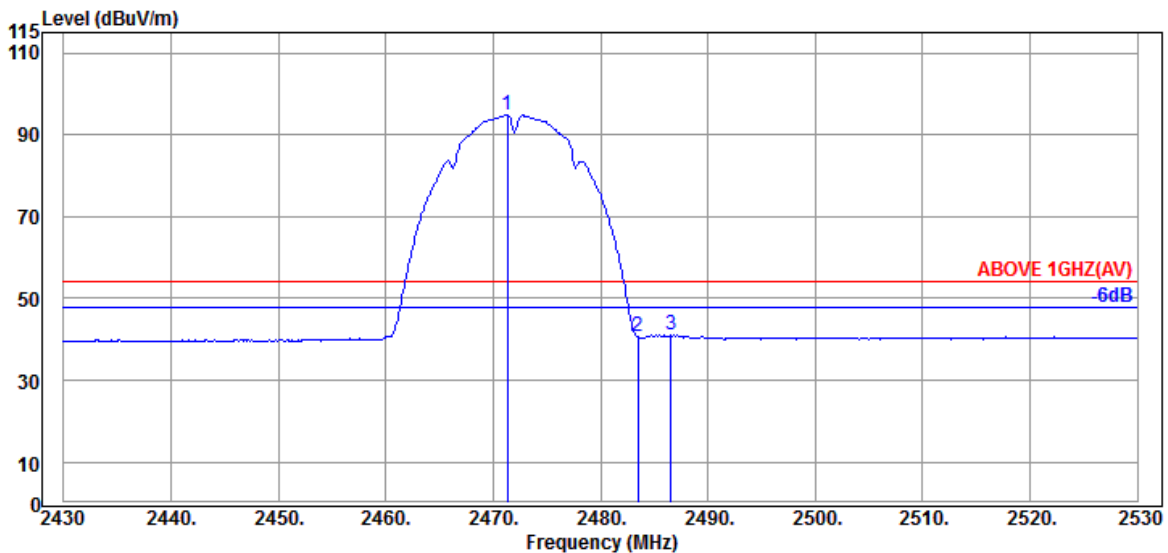
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.000	32.26	5.85	34.52	96.84	100.43	---	---	Peak
2483.500	32.43	5.87	34.53	56.63	60.40	74.00	13.60	Peak
2484.600	32.43	5.87	34.53	51.46	55.23	74.00	18.77	Peak

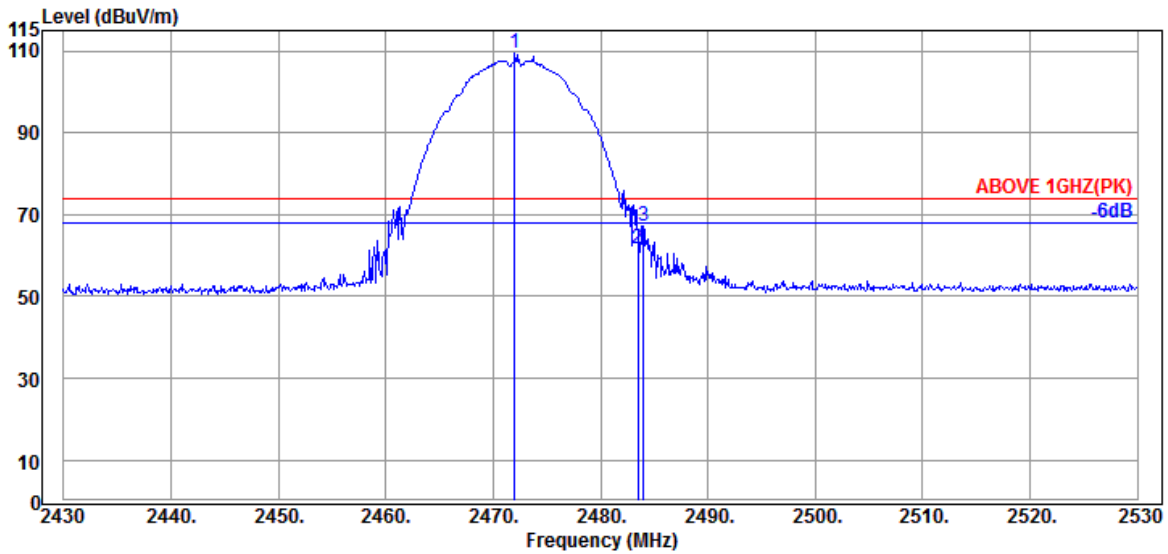


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2471.300	32.26	5.85	34.52	91.42	95.01	---	---	Average
2483.500	32.43	5.87	34.53	37.12	40.89	54.00	13.11	Average
2486.600	32.43	5.87	34.53	37.38	41.15	54.00	12.85	Average

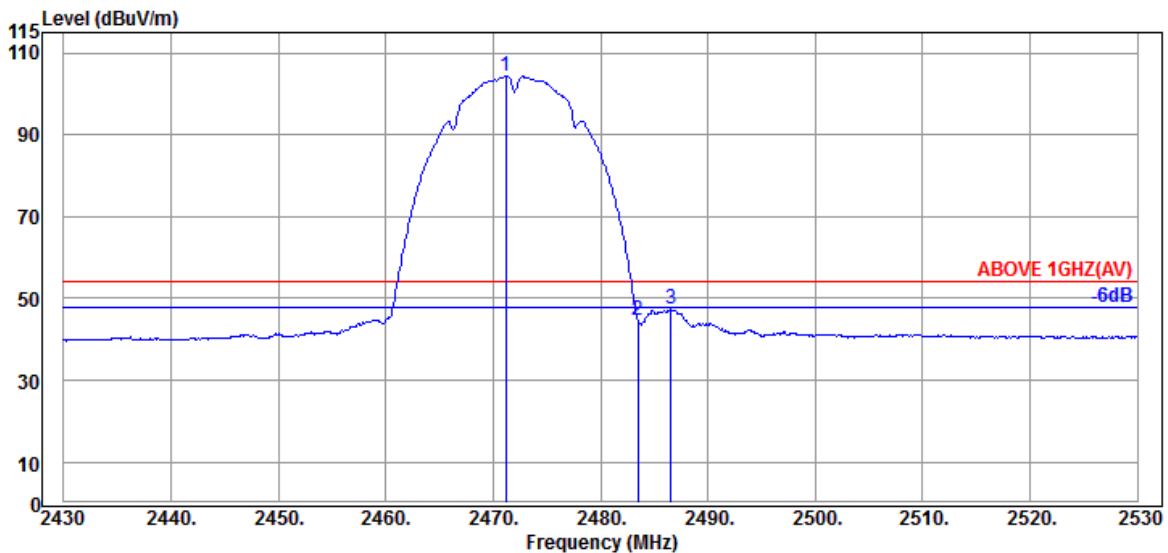
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.000	32.26	5.85	34.52	106.01	109.60	---	---	Peak
2483.500	32.43	5.87	34.53	57.96	61.73	74.00	12.27	Peak
2484.000	32.43	5.87	34.53	63.59	67.36	74.00	6.64	Peak

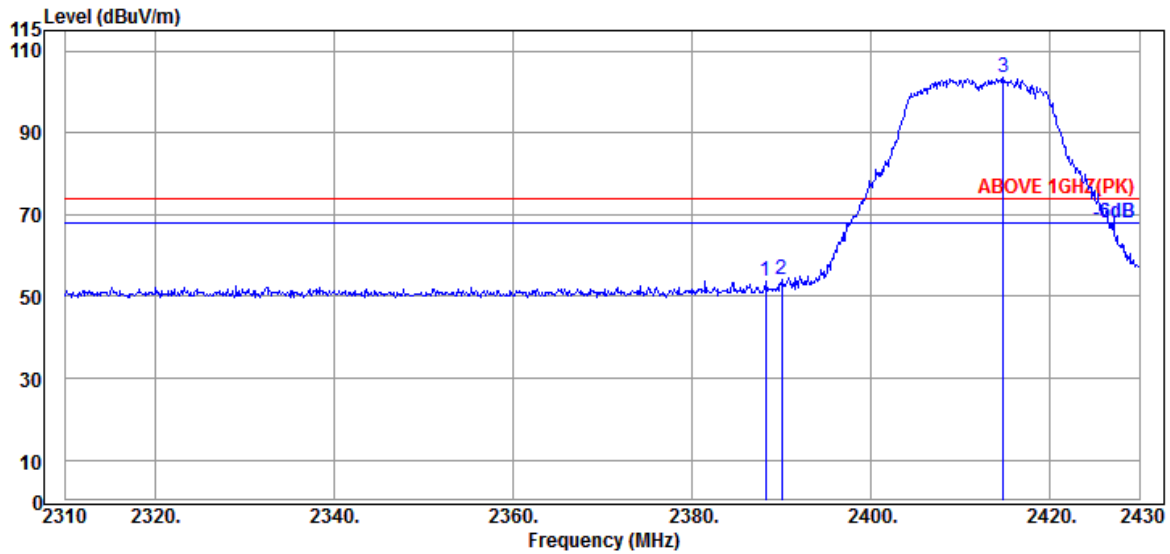


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2471.200	32.26	5.85	34.52	100.89	104.48	---	---	Average
2483.500	32.43	5.87	34.53	40.94	44.71	54.00	9.29	Average
2486.600	32.43	5.87	34.53	43.51	47.28	54.00	6.72	Average

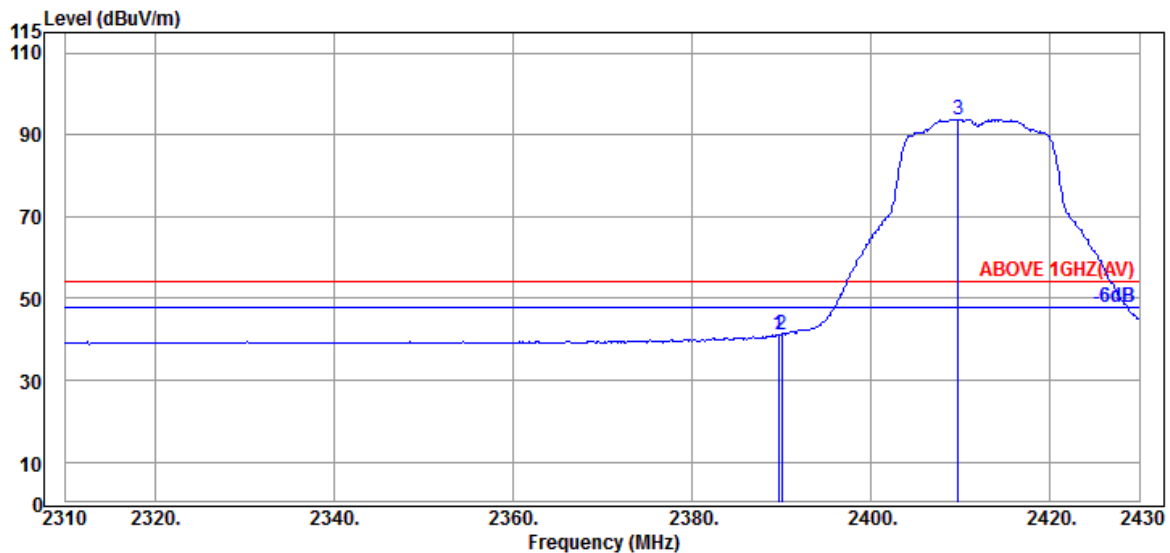
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.240	32.00	5.72	34.51	50.51	53.72	74.00	20.28	Peak
2390.040	32.00	5.72	34.51	50.86	54.07	74.00	19.93	Peak
@ 2414.760	32.00	5.76	34.51	100.15	103.40	---	---	Peak

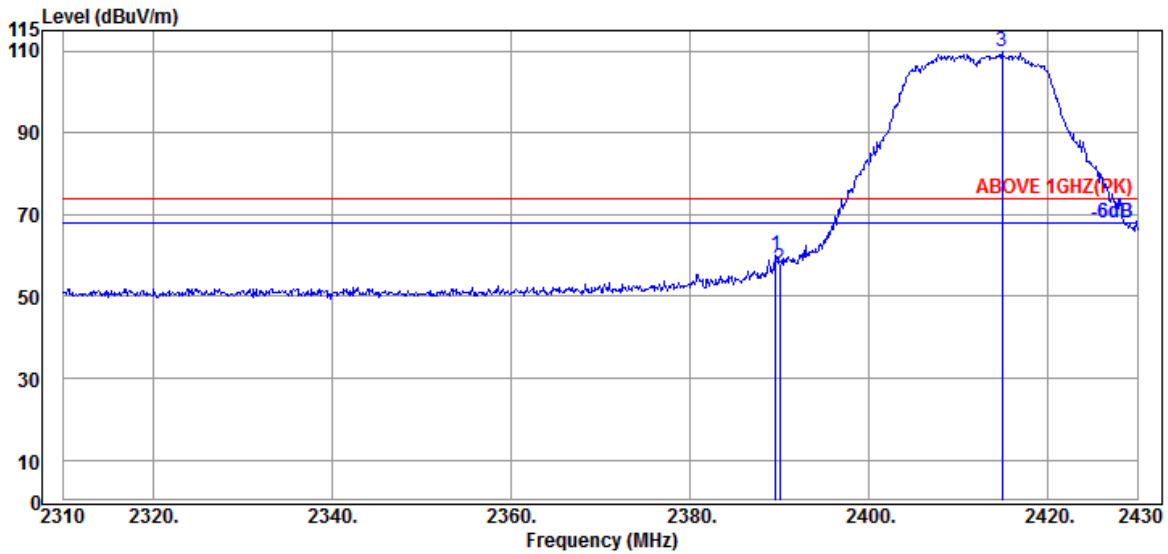


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	37.82	41.03	54.00	12.97	Average
2390.040	32.00	5.72	34.51	37.87	41.08	54.00	12.92	Average
@ 2409.720	32.00	5.75	34.51	90.57	93.81	---	---	Average

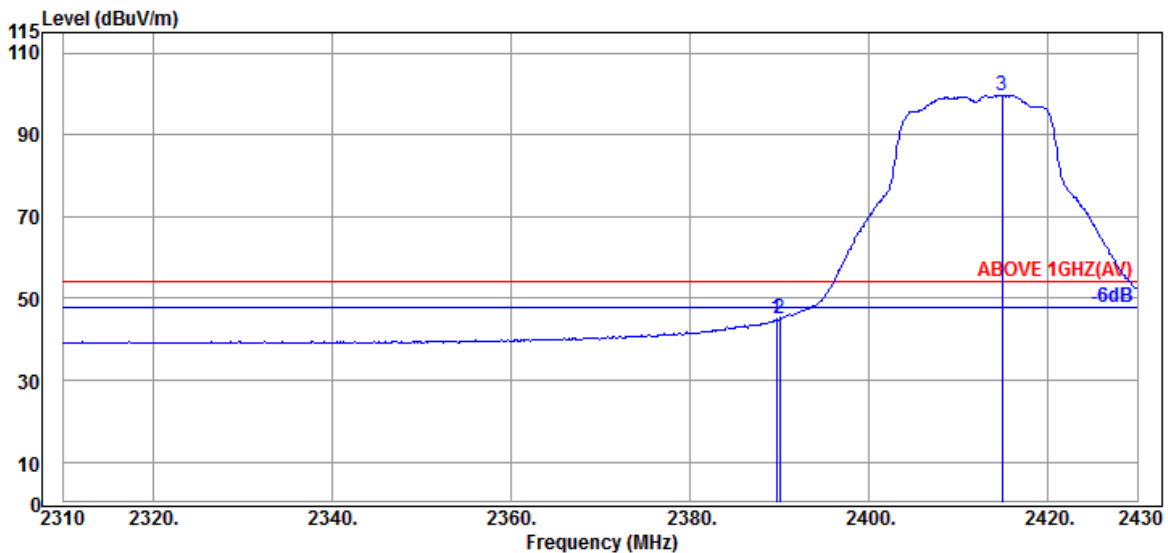
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	32.00	5.72	34.51	56.76	59.97	74.00	14.03	Peak
2390.040	32.00	5.72	34.51	53.71	56.92	74.00	17.08	Peak
@ 2414.880	32.00	5.76	34.51	106.47	109.72	---	---	Peak

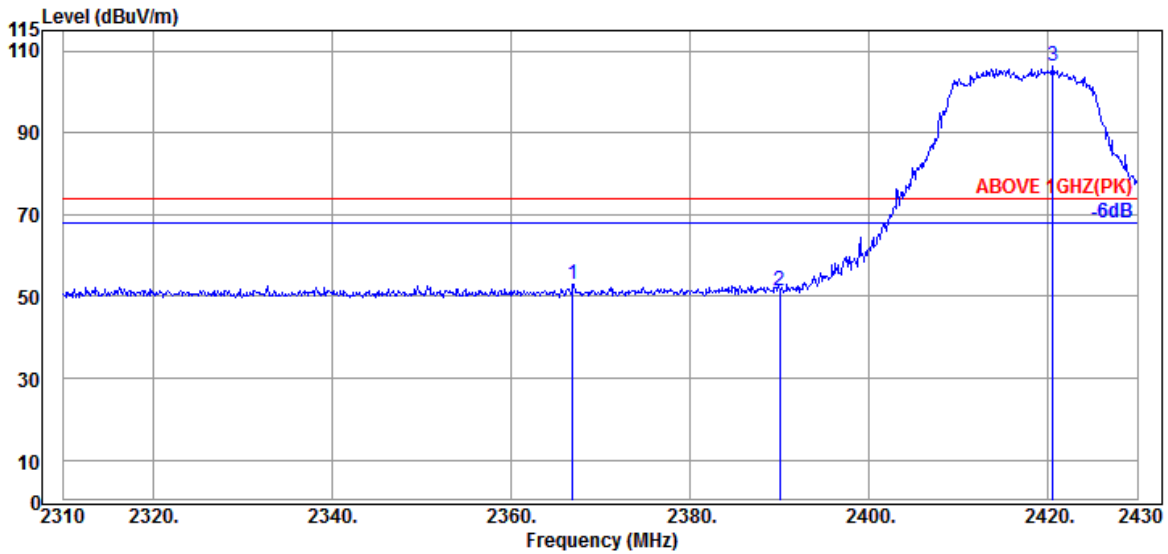


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	41.80	45.01	54.00	8.99	Average
2390.040	32.00	5.72	34.51	41.66	44.87	54.00	9.13	Average
@ 2414.880	32.00	5.76	34.51	96.36	99.61	---	---	Average

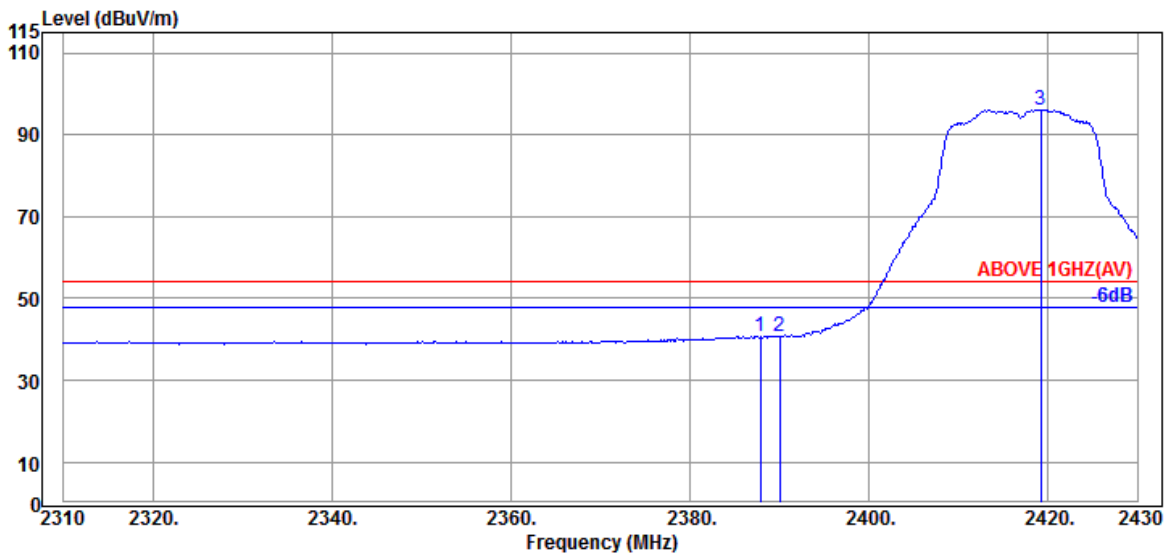
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2366.880	32.00	5.69	34.50	49.93	53.12	74.00	20.88	Peak
2390.040	32.00	5.72	34.51	48.22	51.43	74.00	22.57	Peak
@ 2420.520	32.00	5.77	34.51	102.85	106.11	---	---	Peak

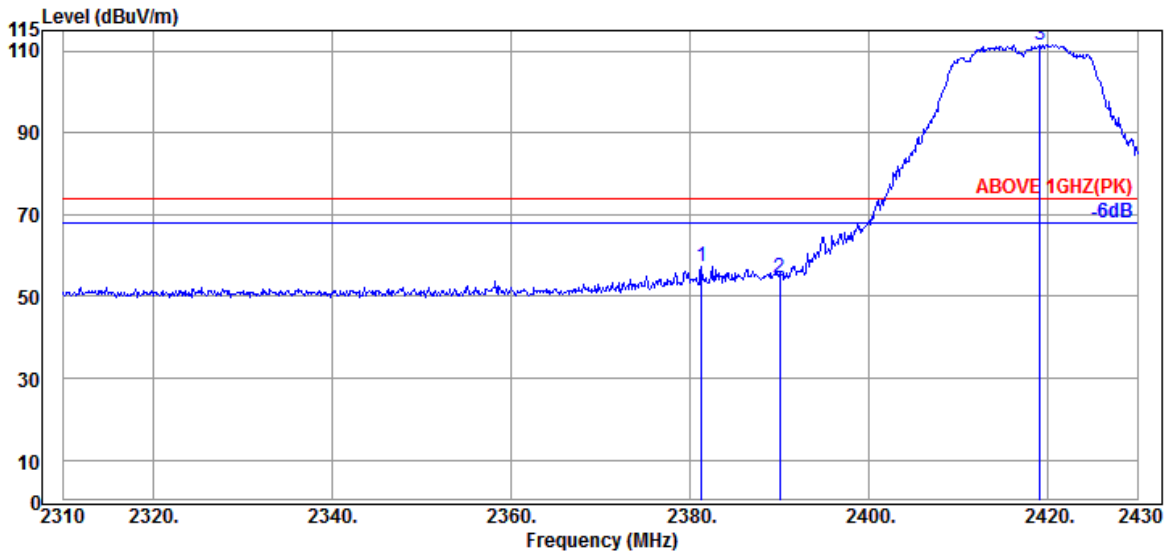


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.880	32.00	5.72	34.51	37.67	40.88	54.00	13.12	Average
2390.040	32.00	5.72	34.51	37.50	40.71	54.00	13.29	Average
@ 2419.200	32.00	5.77	34.51	92.82	96.08	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

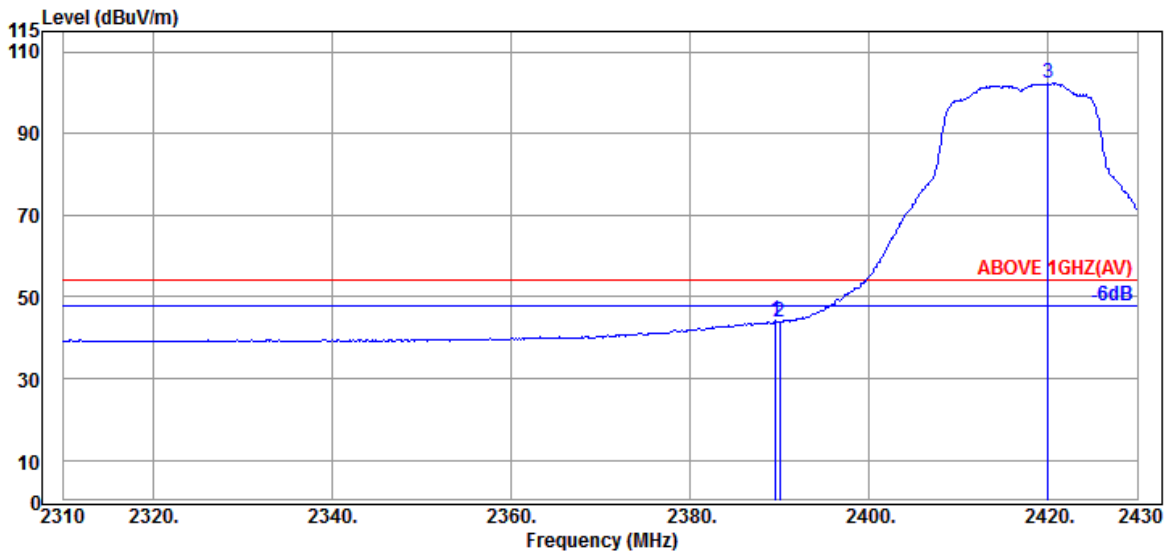
Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2381.280	32.00	5.71	34.51	54.29	57.49	74.00	16.51	Peak
2390.040	32.00	5.72	34.51	51.38	54.59	74.00	19.41	Peak
@ 2419.080	32.00	5.77	34.51	108.27	111.53	---	---	Peak

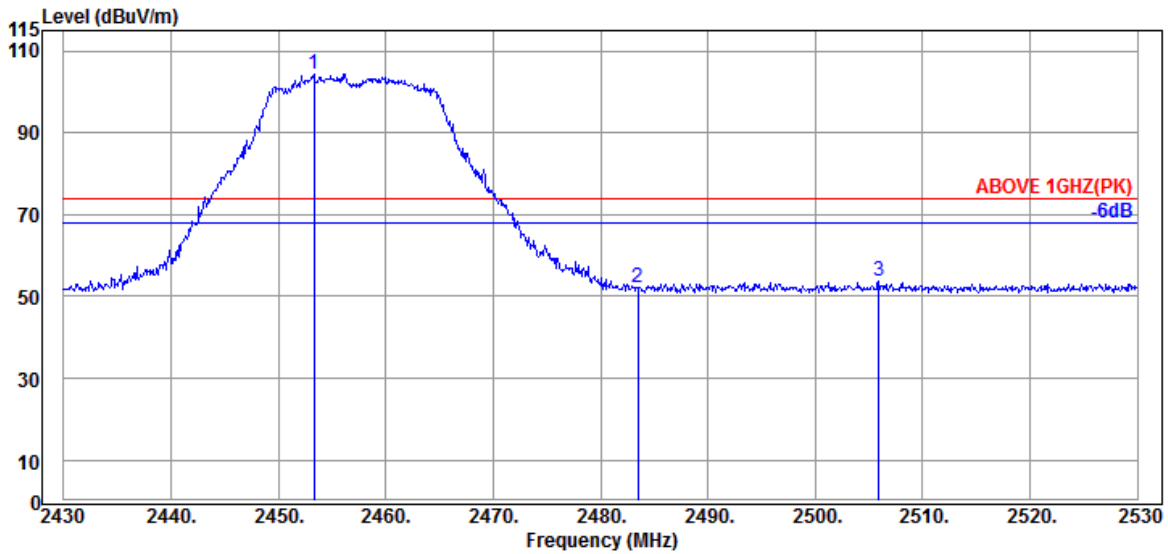
Antenna at Vertical Polarization



Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	32.00	5.72	34.51	40.90	44.11	54.00	9.89	Average
2390.040	32.00	5.72	34.51	40.55	43.76	54.00	10.24	Average
@ 2420.040	32.00	5.77	34.51	99.08	102.34	---	---	Average

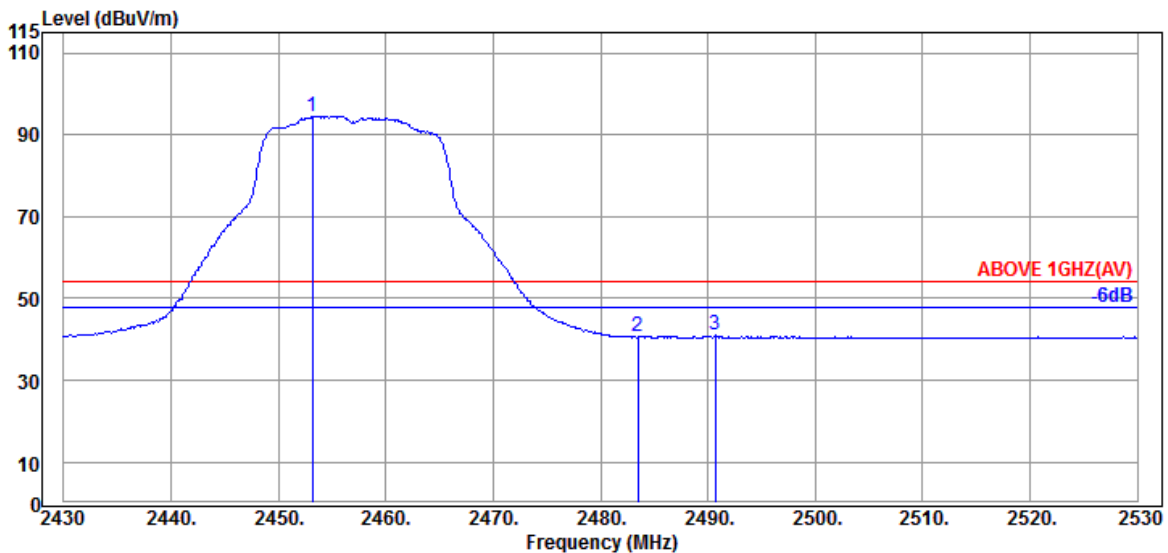
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2453.300	32.00	5.81	34.52	101.00	104.29	---	---	Peak
2483.500	32.43	5.87	34.53	48.58	52.35	74.00	21.65	Peak
2505.900	32.57	5.91	34.53	49.62	53.57	74.00	20.43	Peak

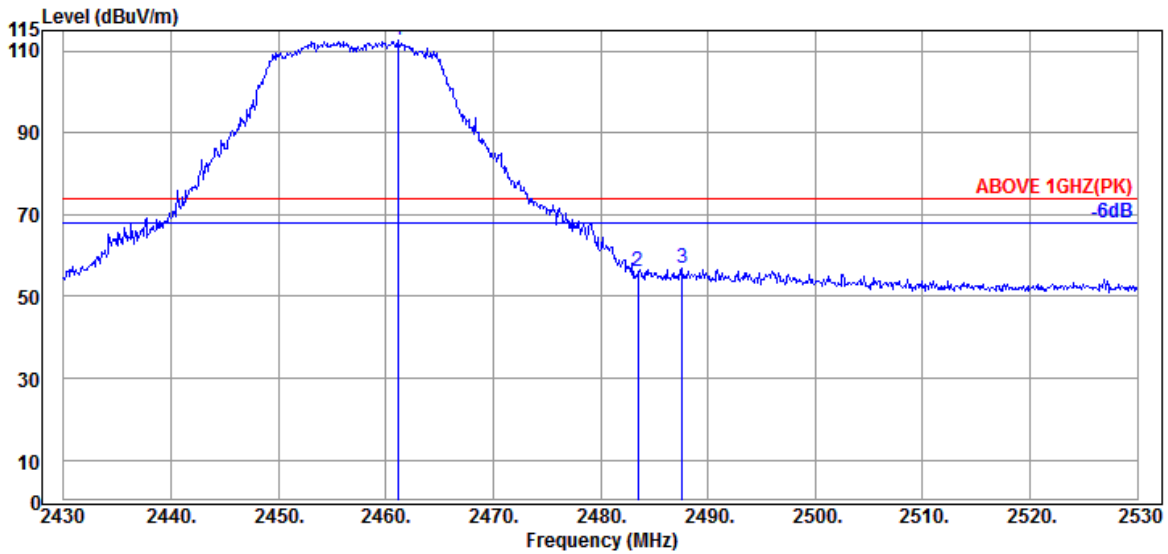


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2453.200	32.00	5.81	34.52	91.28	94.57	---	---	Average
2483.500	32.43	5.87	34.53	36.77	40.54	54.00	13.46	Average
2490.700	32.51	5.88	34.53	37.05	40.91	54.00	13.09	Average

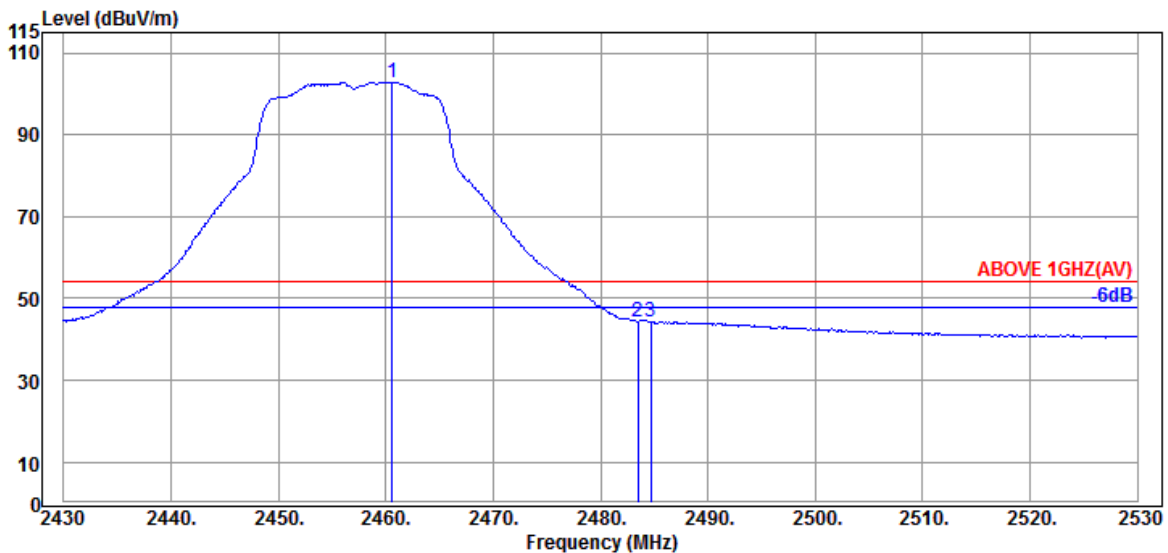
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2461.200	32.17	5.84	34.52	109.11	112.60	---	---	Peak
2483.500	32.43	5.87	34.53	52.30	56.07	74.00	17.93	Peak
2487.600	32.43	5.87	34.53	53.10	56.87	74.00	17.13	Peak

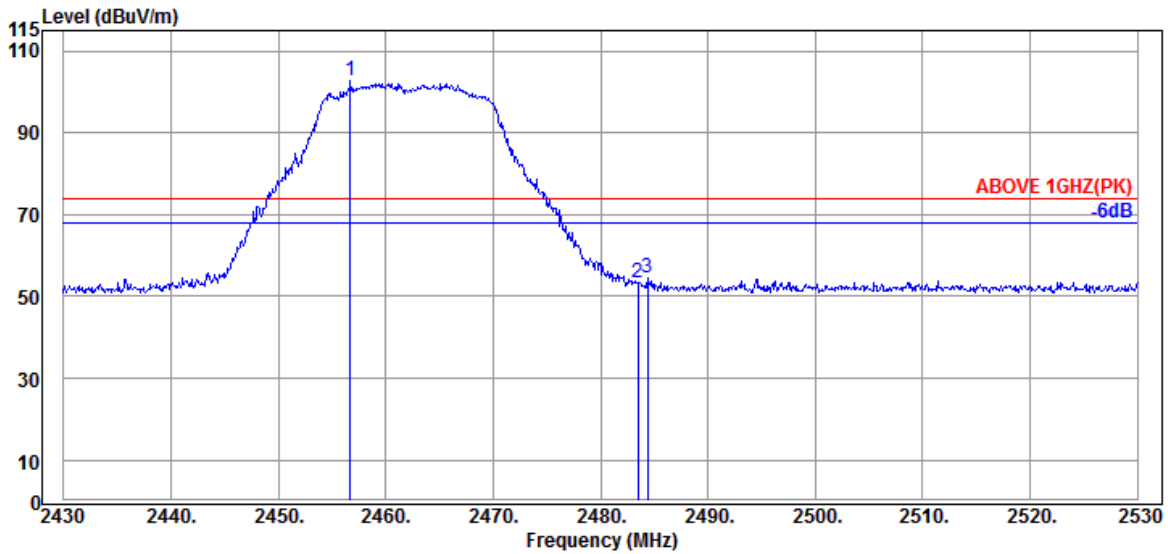


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.600	32.17	5.84	34.52	99.39	102.88	---	---	Average
2483.500	32.43	5.87	34.53	40.63	44.40	54.00	9.60	Average
2484.700	32.43	5.87	34.53	40.68	44.45	54.00	9.55	Average

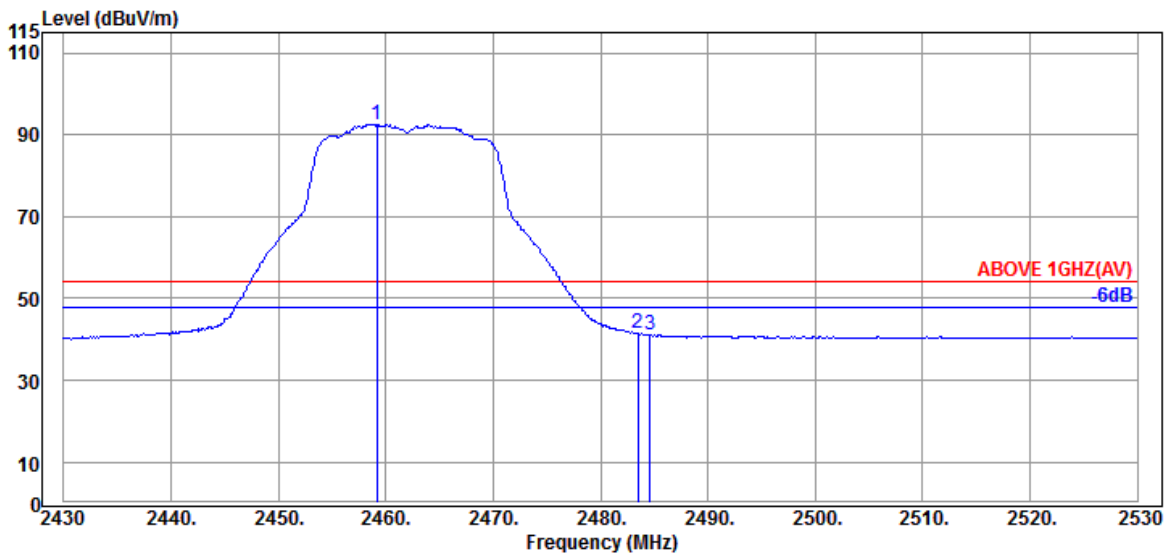
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2456.700	32.09	5.83	34.52	99.28	102.68	---	---	Peak
2483.500	32.43	5.87	34.53	49.57	53.34	74.00	20.66	Peak
2484.400	32.43	5.87	34.53	50.89	54.66	74.00	19.34	Peak

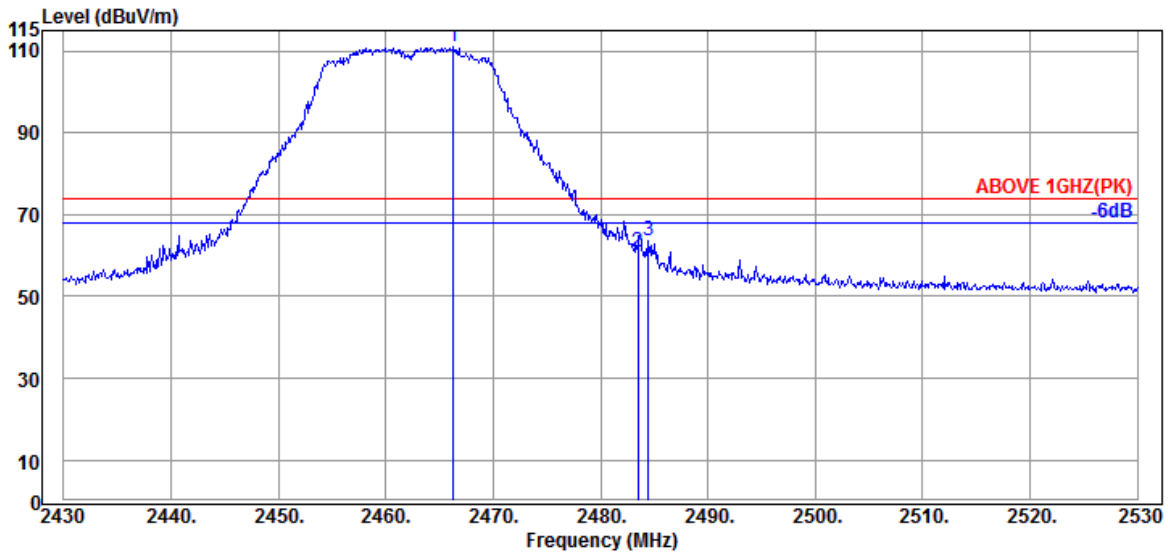


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2459.200	32.09	5.83	34.52	89.14	92.54	---	---	Average
2483.500	32.43	5.87	34.53	37.85	41.62	54.00	12.38	Average
2484.600	32.43	5.87	34.53	37.44	41.21	54.00	12.79	Average

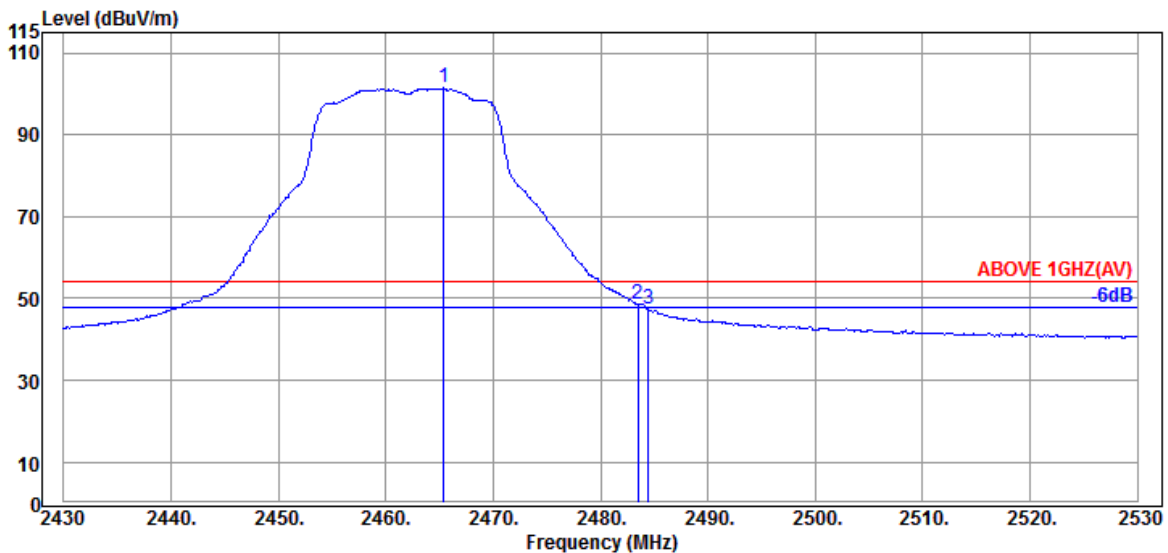
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.300	32.17	5.84	34.52	107.64	111.13	---	---	Peak
2483.500	32.43	5.87	34.53	57.11	60.88	74.00	13.12	Peak
2484.500	32.43	5.87	34.53	59.89	63.66	74.00	10.34	Peak

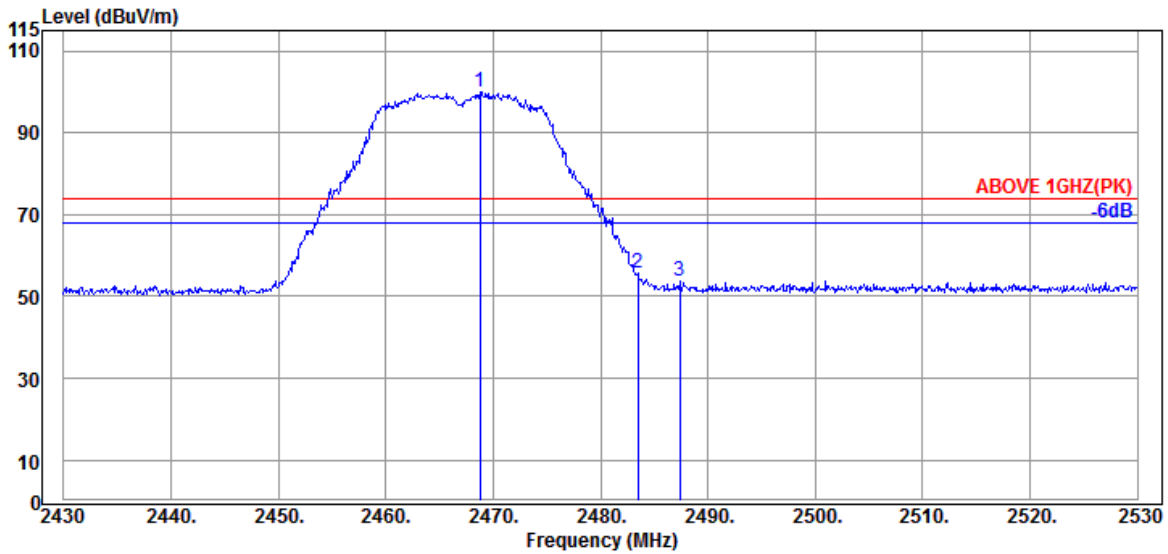


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2465.400	32.17	5.84	34.52	97.88	101.37	---	---	Average
2483.500	32.43	5.87	34.53	44.82	48.59	54.00	5.41	Average
2484.500	32.43	5.87	34.53	43.63	47.40	54.00	6.60	Average

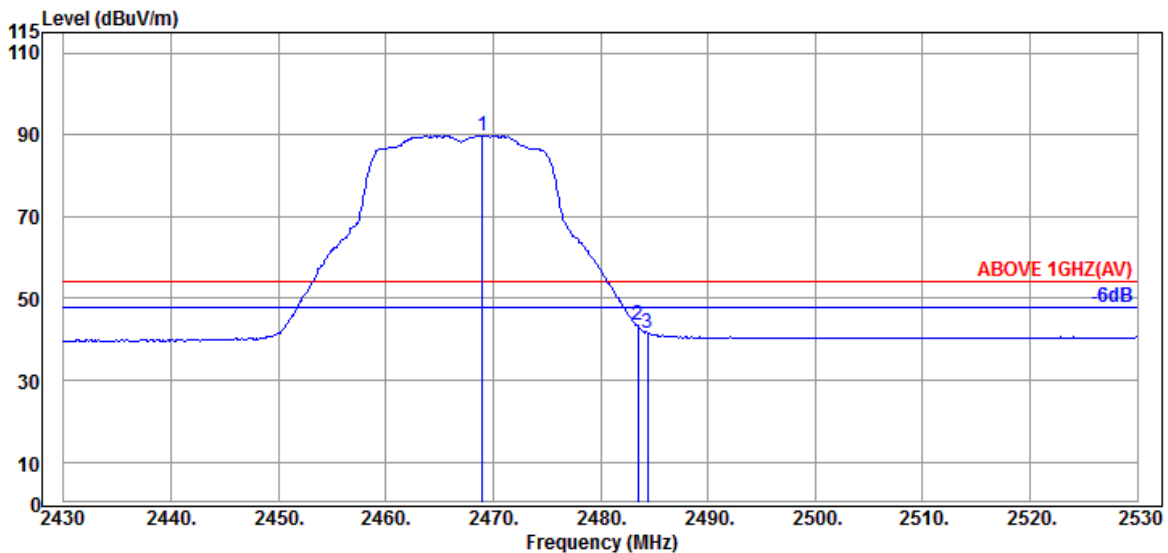
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.800	32.26	5.85	34.52	96.25	99.84	---	---	Peak
2483.500	32.43	5.87	34.53	51.86	55.63	74.00	18.37	Peak
2487.400	32.43	5.87	34.53	49.82	53.59	74.00	20.41	Peak

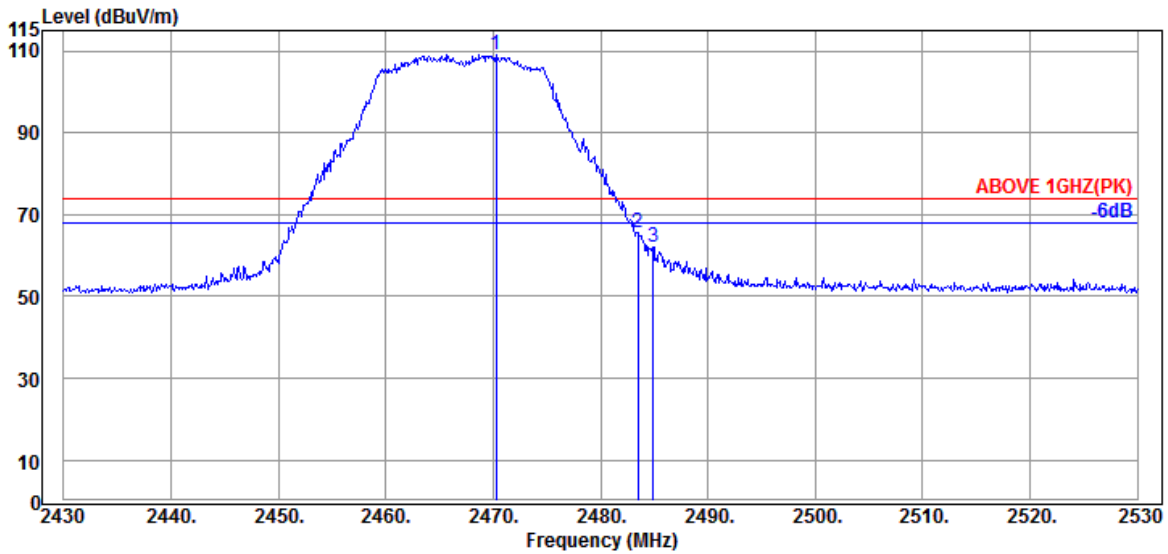


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2469.000	32.26	5.85	34.52	86.28	89.87	---	---	Average
2483.500	32.43	5.87	34.53	39.58	43.35	54.00	10.65	Average
2484.400	32.43	5.87	34.53	37.87	41.64	54.00	12.36	Average

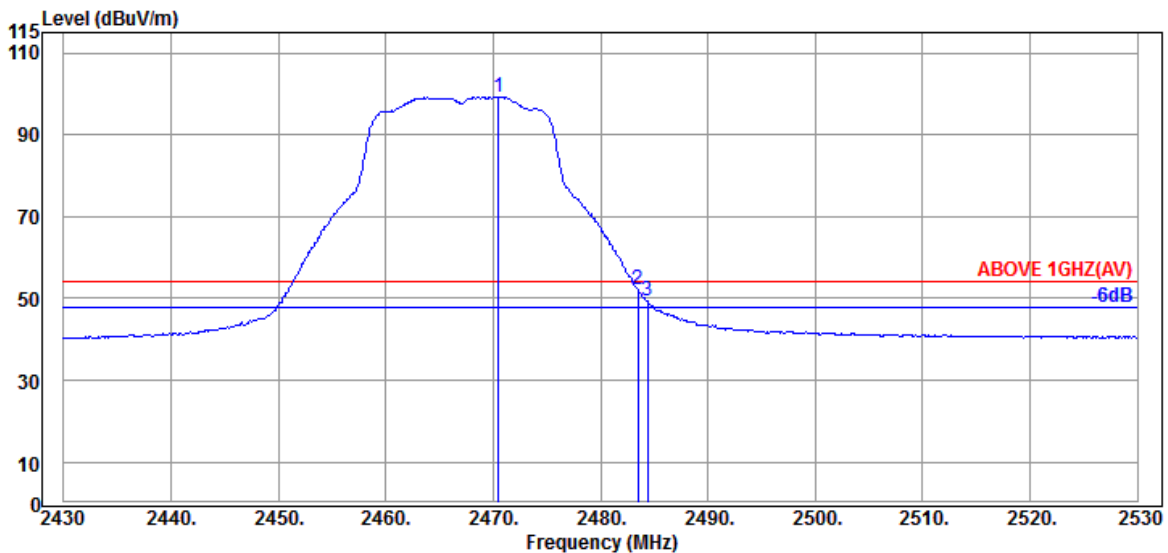
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.300	32.26	5.85	34.52	105.51	109.10	---	---	Peak
2483.500	32.43	5.87	34.53	61.73	65.50	74.00	8.50	Peak
2484.900	32.43	5.87	34.53	58.22	61.99	74.00	12.01	Peak

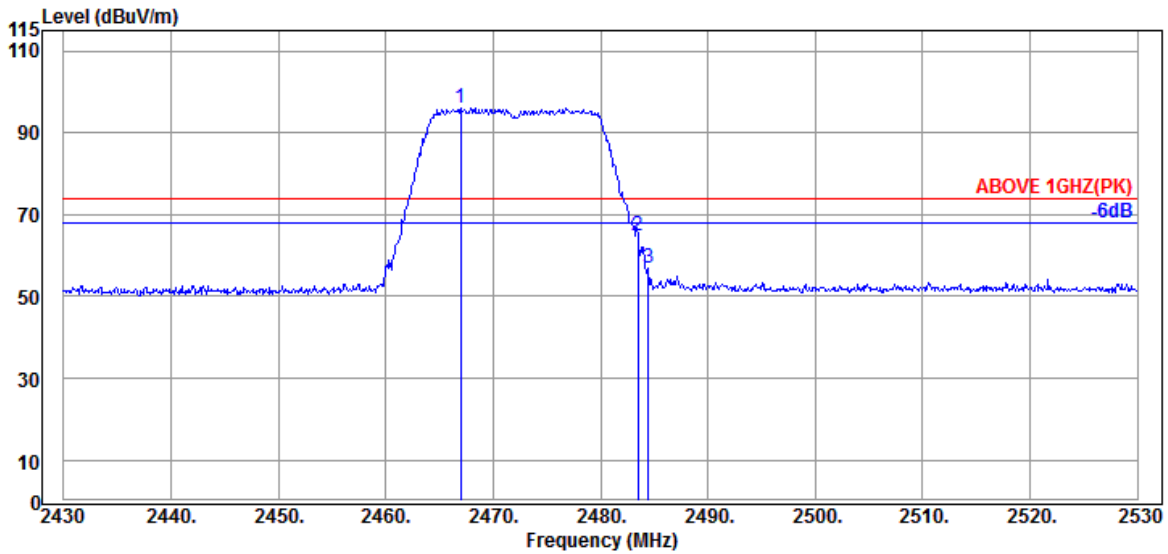


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2470.500	32.26	5.85	34.52	95.77	99.36	---	---	Average
2483.500	32.43	5.87	34.53	48.31	52.08	54.00	1.92	Average
2484.400	32.43	5.87	34.53	45.51	49.28	54.00	4.72	Average

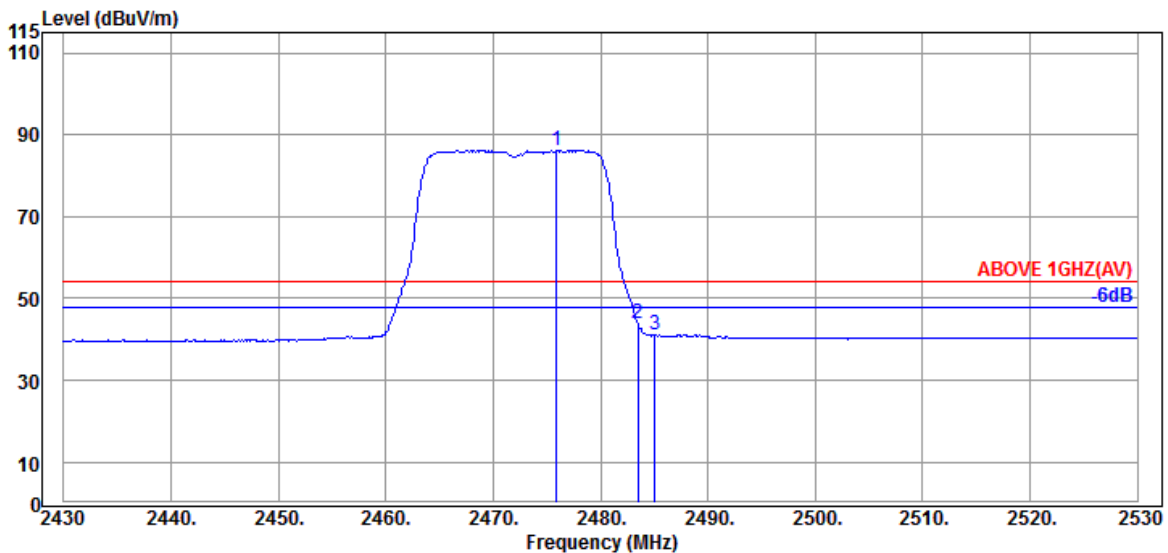
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.000	32.17	5.84	34.52	92.63	96.12	---	---	Peak
2483.500	32.43	5.87	34.53	61.21	64.98	74.00	9.02	Peak
2484.500	32.43	5.87	34.53	52.98	56.75	74.00	17.25	Peak

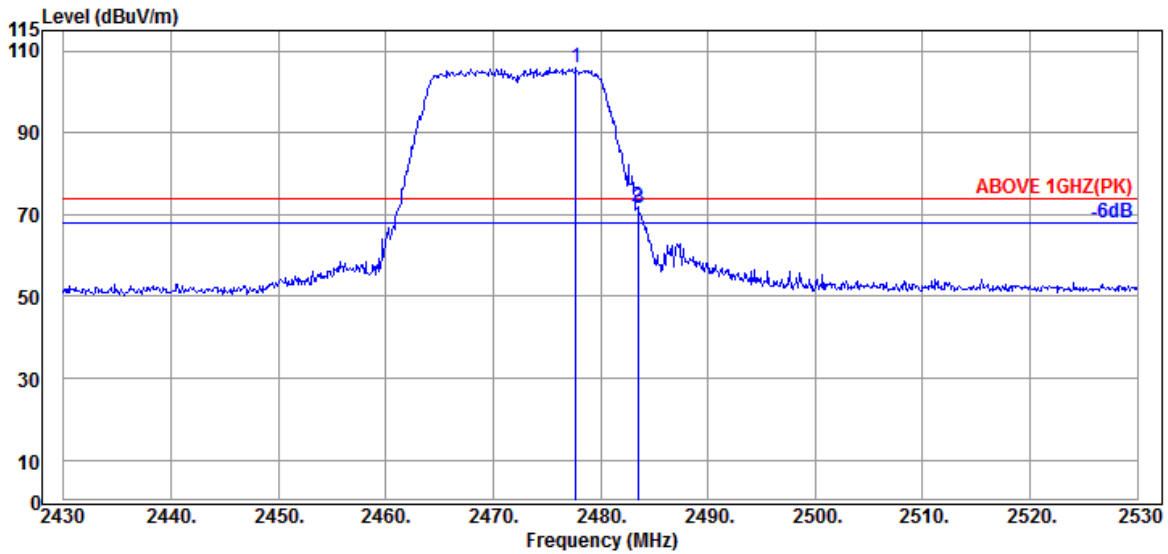


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2475.900	32.34	5.86	34.53	82.61	86.28	---	---	Average
2483.500	32.43	5.87	34.53	40.07	43.84	54.00	10.16	Average
2485.100	32.43	5.87	34.53	37.49	41.26	54.00	12.74	Average

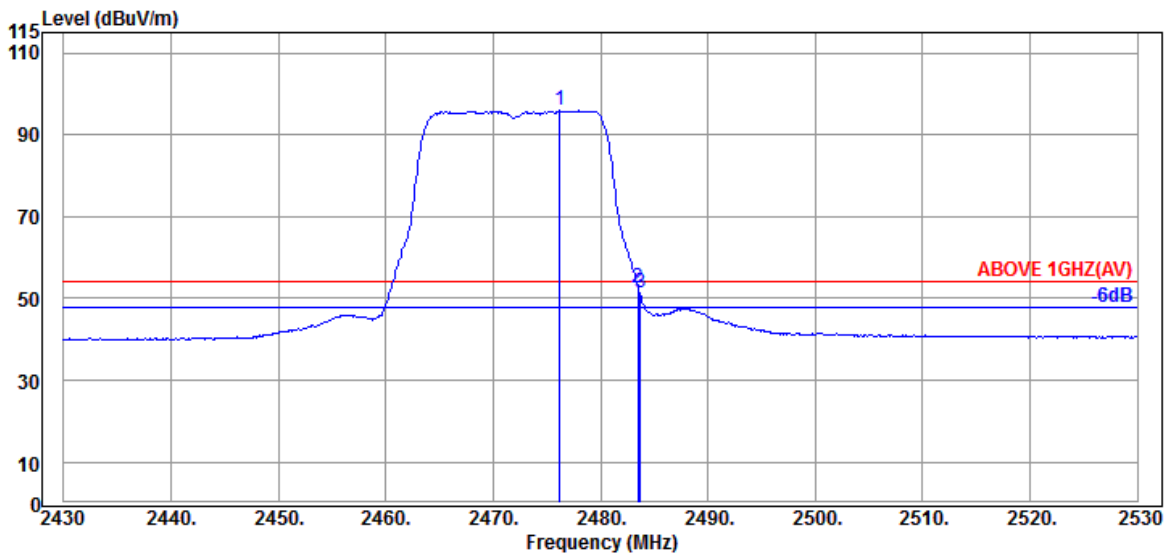
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2477.700	32.34	5.86	34.53	102.26	105.93	---	---	Peak
2483.500	32.43	5.87	34.53	68.15	71.92	74.00	2.08	Peak
2483.600	32.43	5.87	34.53	67.92	71.69	74.00	2.31	Peak

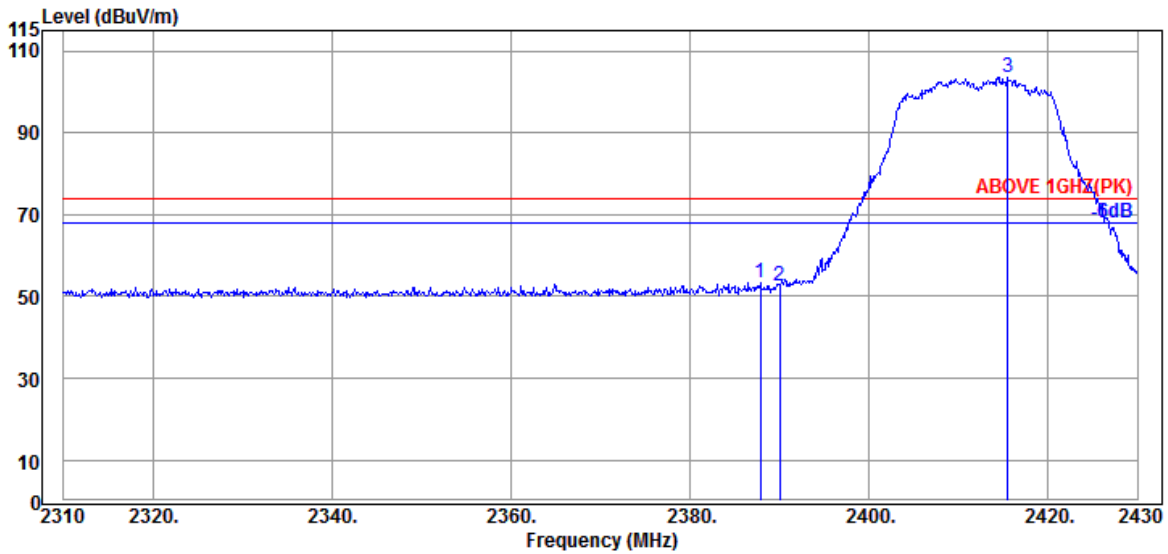


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2476.200	32.34	5.86	34.53	92.29	95.96	---	---	Average
2483.500	32.43	5.87	34.53	48.65	52.42	54.00	1.58	Average
2483.700	32.43	5.87	34.53	47.55	51.32	54.00	2.68	Average

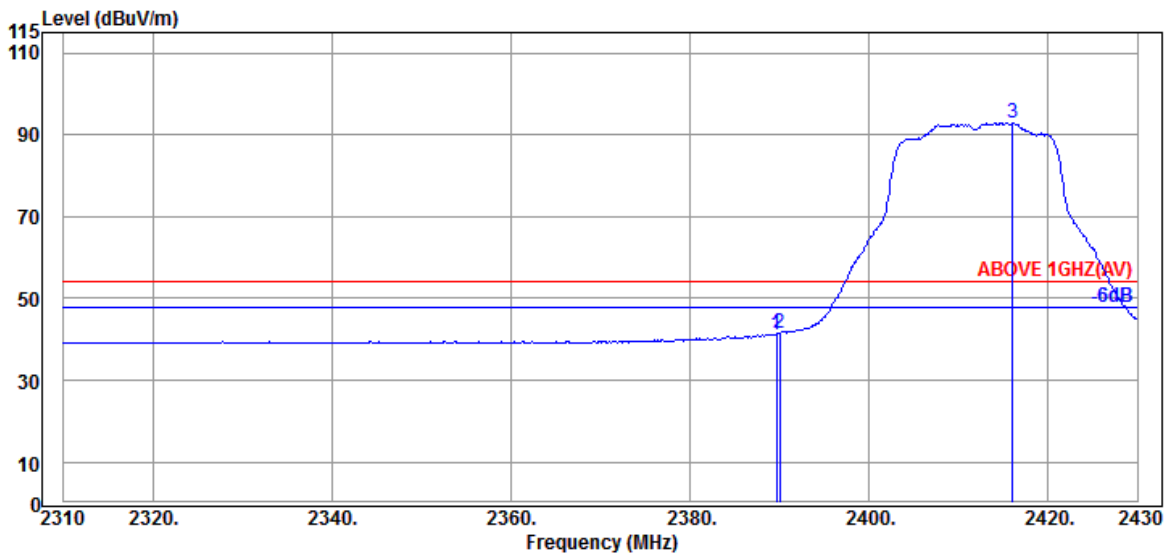
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.880	32.00	5.72	34.51	50.08	53.29	74.00	20.71	Peak
2390.040	32.00	5.72	34.51	49.29	52.50	74.00	21.50	Peak
@ 2415.480	32.00	5.76	34.51	100.42	103.67	---	---	Peak

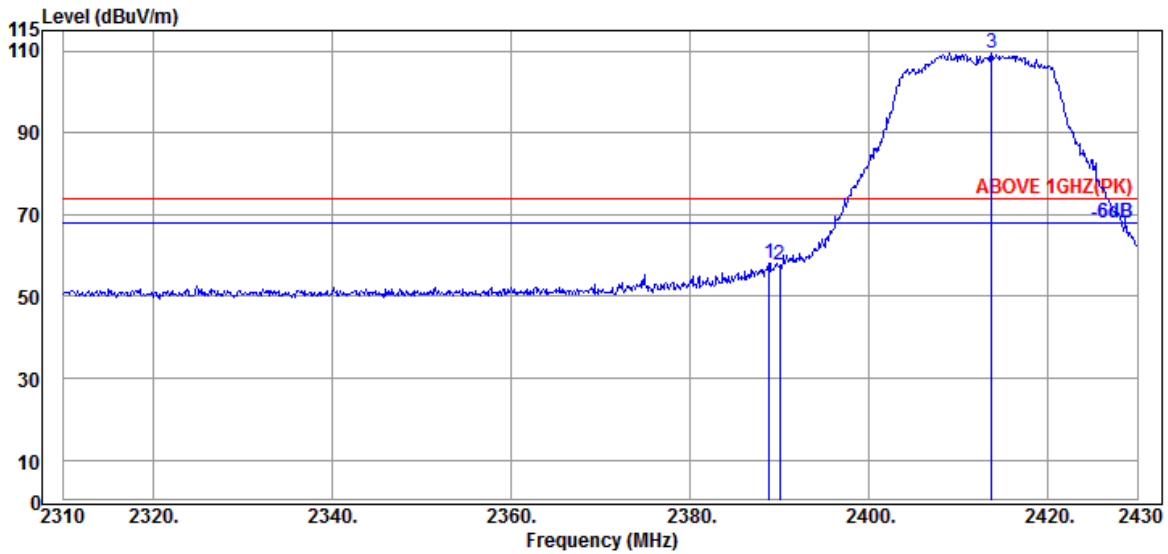


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	38.05	41.26	54.00	12.74	Average
2390.040	32.00	5.72	34.51	38.38	41.59	54.00	12.41	Average
@ 2416.080	32.00	5.76	34.51	89.53	92.78	---	---	Average

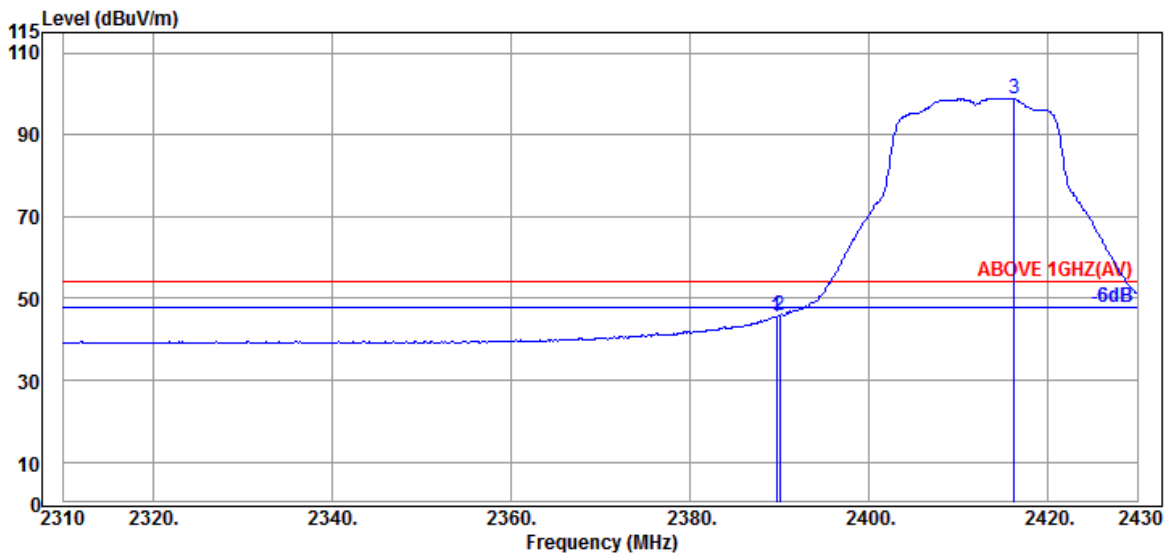
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.840	32.00	5.72	34.51	54.81	58.02	74.00	15.98	Peak
2390.040	32.00	5.72	34.51	54.40	57.61	74.00	16.39	Peak
@ 2413.680	32.00	5.76	34.51	106.18	109.43	---	---	Peak

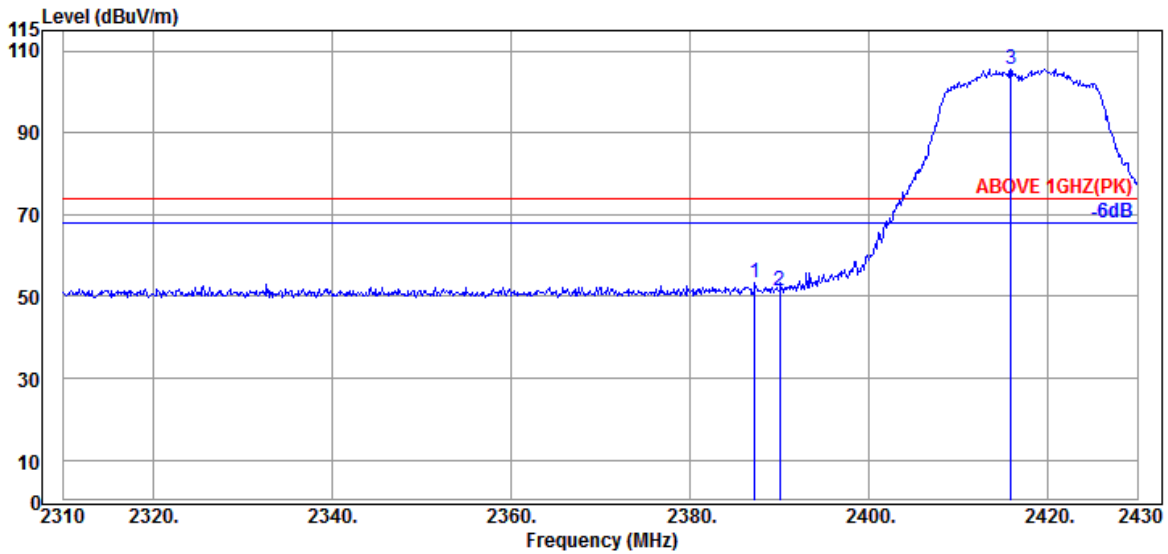


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	42.26	45.47	54.00	8.53	Average
2390.040	32.00	5.72	34.51	42.61	45.82	54.00	8.18	Average
@ 2416.200	32.00	5.76	34.51	95.62	98.87	---	---	Average

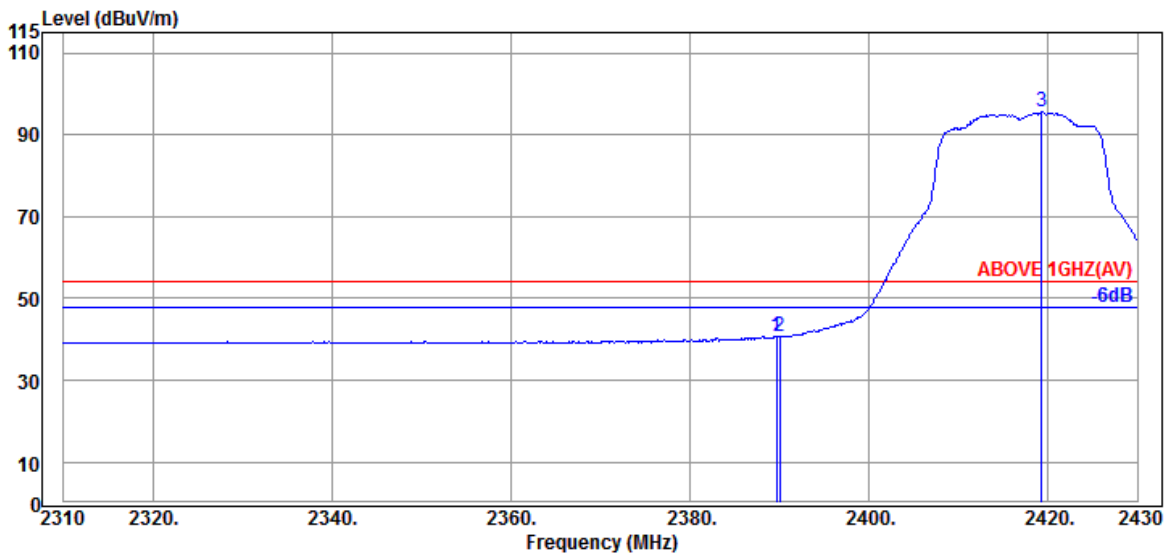
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.280	32.00	5.72	34.51	50.11	53.32	74.00	20.68	Peak
2390.040	32.00	5.72	34.51	48.28	51.49	74.00	22.51	Peak
@ 2415.840	32.00	5.76	34.51	102.34	105.59	---	---	Peak

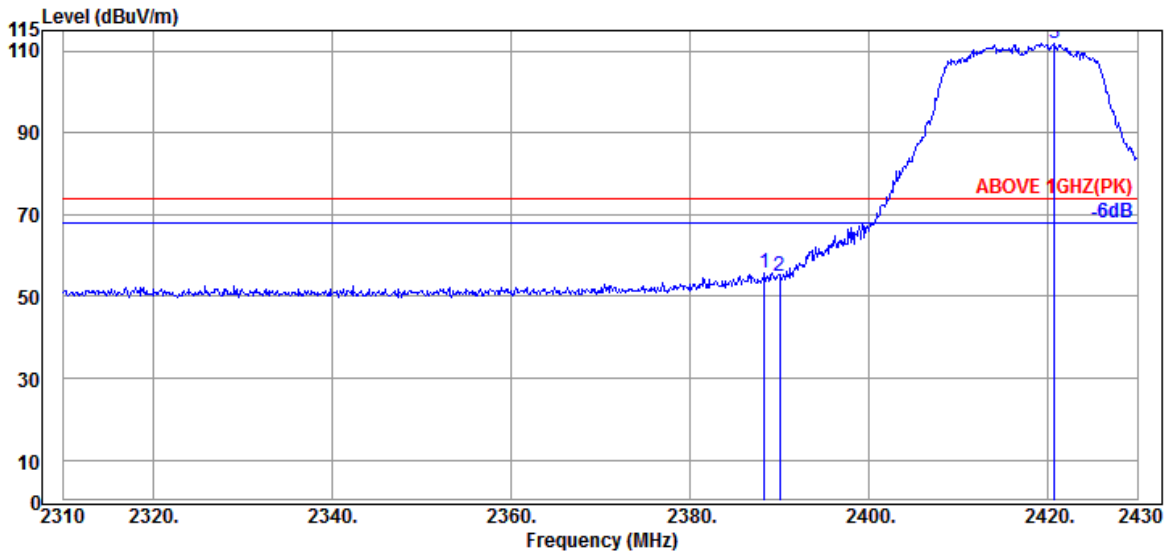


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	37.49	40.70	54.00	13.30	Average
2390.040	32.00	5.72	34.51	37.31	40.52	54.00	13.48	Average
@ 2419.320	32.00	5.77	34.51	92.21	95.47	---	---	Average

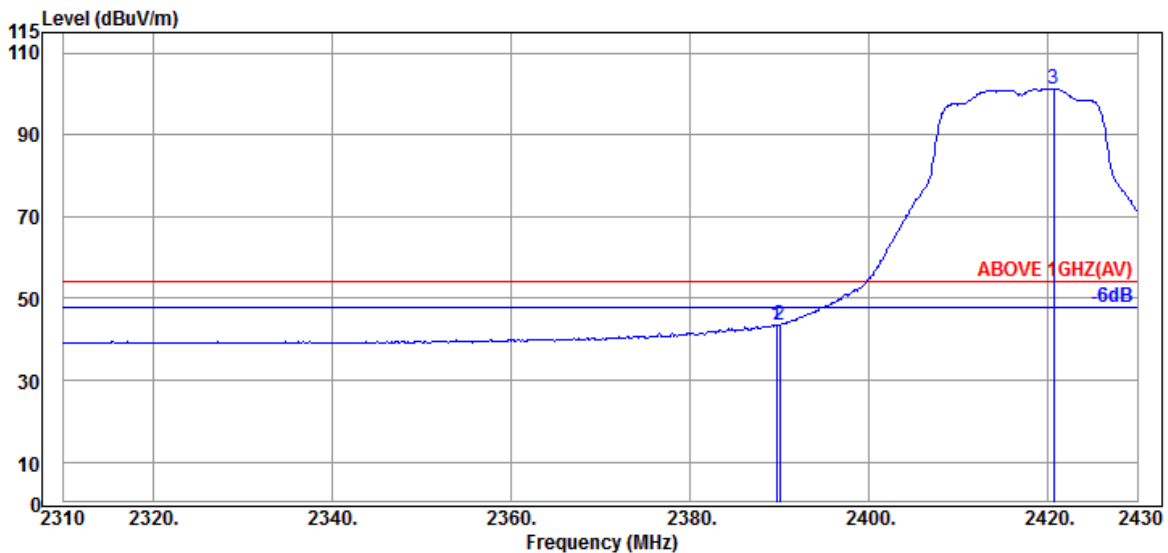
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.360	32.00	5.72	34.51	52.67	55.88	74.00	18.12	Peak
2390.040	32.00	5.72	34.51	51.85	55.06	74.00	18.94	Peak
@ 2420.760	32.00	5.77	34.51	108.52	111.78	---	---	Peak

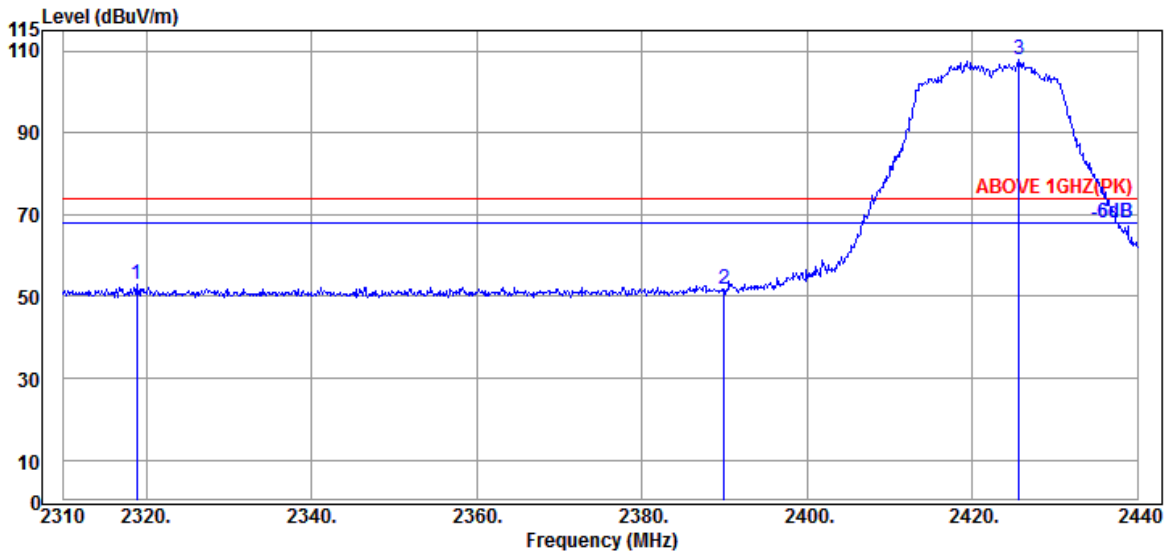


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	32.00	5.72	34.51	40.23	43.44	54.00	10.56	Average
2390.040	32.00	5.72	34.51	40.46	43.67	54.00	10.33	Average
@ 2420.640	32.00	5.77	34.51	98.06	101.32	---	---	Average

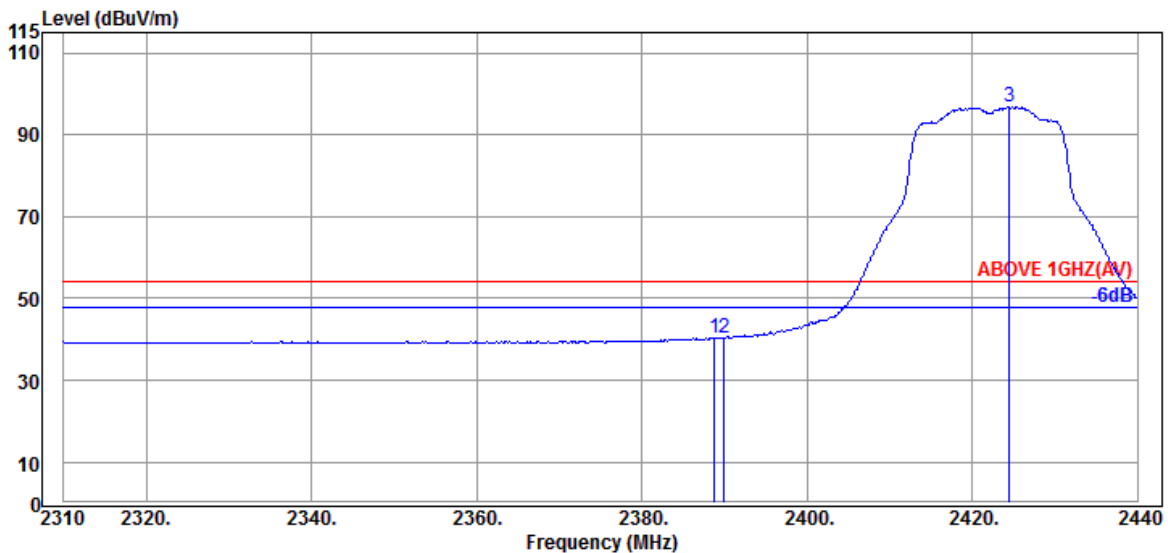
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2318.840	32.12	5.61	34.49	49.69	52.93	74.00	21.07	Peak
2389.950	32.00	5.72	34.51	48.37	51.58	74.00	22.42	Peak
@ 2425.700	32.00	5.78	34.51	104.59	107.86	---	---	Peak

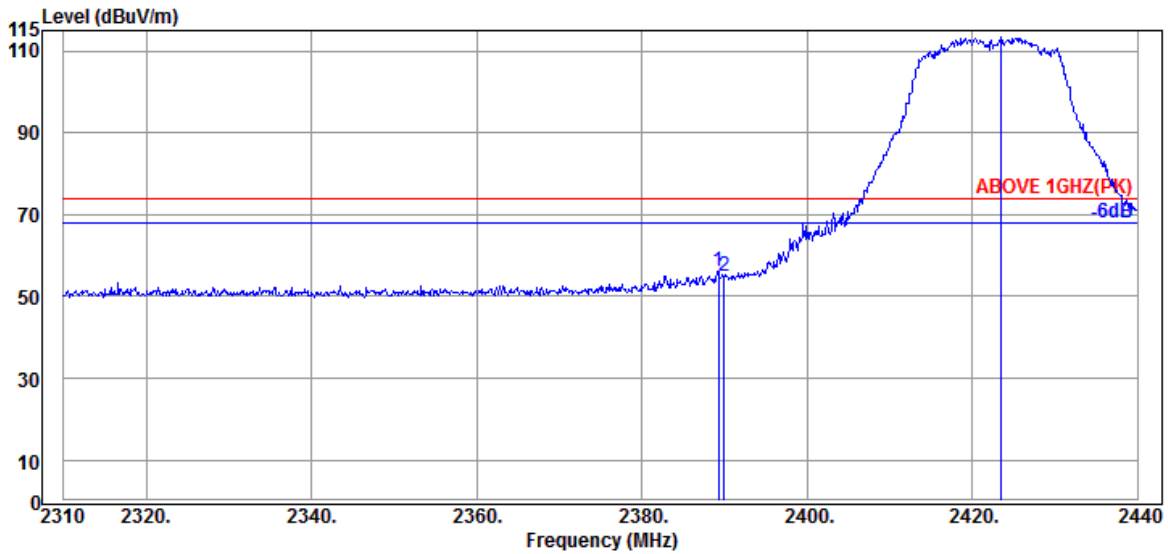


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.780	32.00	5.72	34.51	37.12	40.33	54.00	13.67	Average
2389.950	32.00	5.72	34.51	37.23	40.44	54.00	13.56	Average
@ 2424.530	32.00	5.77	34.51	93.56	96.82	---	---	Average

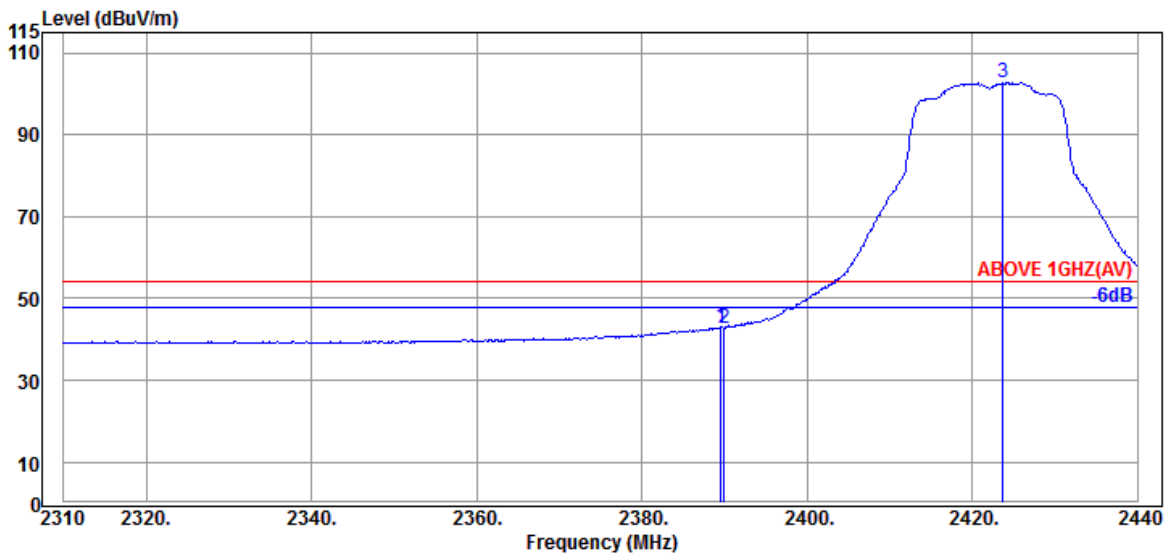
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.300	32.00	5.72	34.51	52.96	56.17	74.00	17.83	Peak
2389.950	32.00	5.72	34.51	51.60	54.81	74.00	19.19	Peak
@ 2423.490	32.00	5.77	34.51	110.04	113.30	---	---	Peak

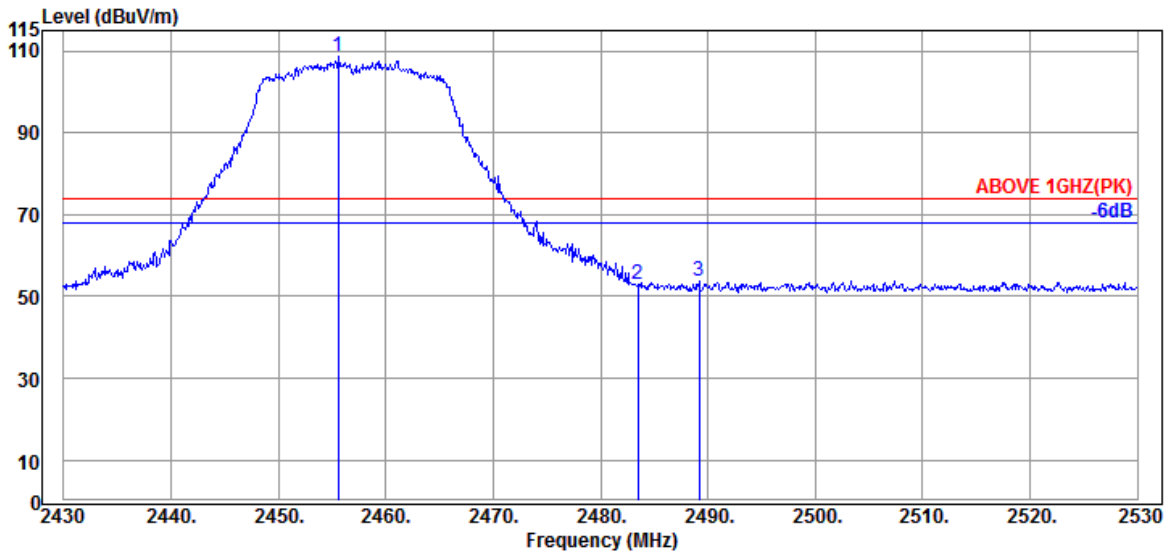


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.560	32.00	5.72	34.51	39.93	43.14	54.00	10.86	Average
2389.950	32.00	5.72	34.51	39.64	42.85	54.00	11.15	Average
@ 2423.750	32.00	5.77	34.51	99.47	102.73	---	---	Average

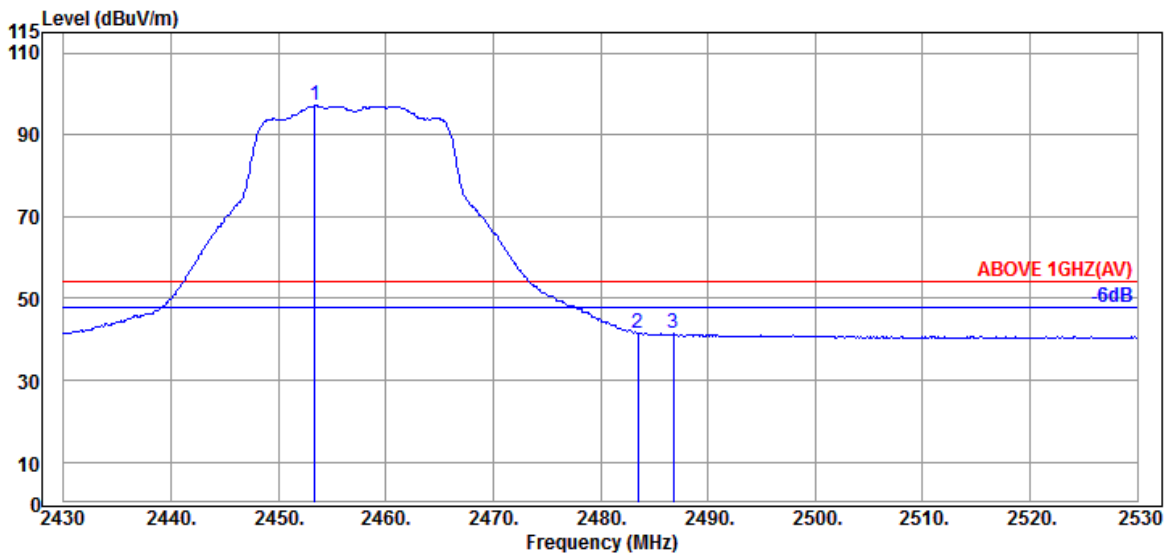
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2455.600	32.09	5.83	34.52	105.31	108.71	---	---	Peak
2483.500	32.43	5.87	34.53	49.22	52.99	74.00	21.01	Peak
2489.200	32.51	5.88	34.53	50.04	53.90	74.00	20.10	Peak

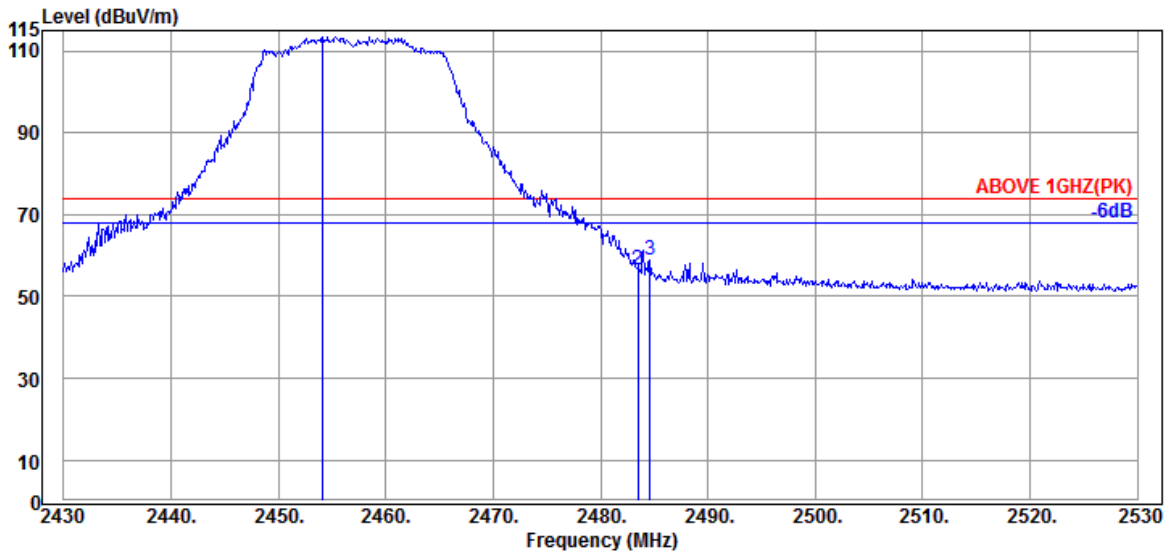


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2453.400	32.09	5.83	34.52	93.86	97.26	---	---	Average
2483.500	32.43	5.87	34.53	37.78	41.55	54.00	12.45	Average
2486.800	32.43	5.87	34.53	37.69	41.46	54.00	12.54	Average

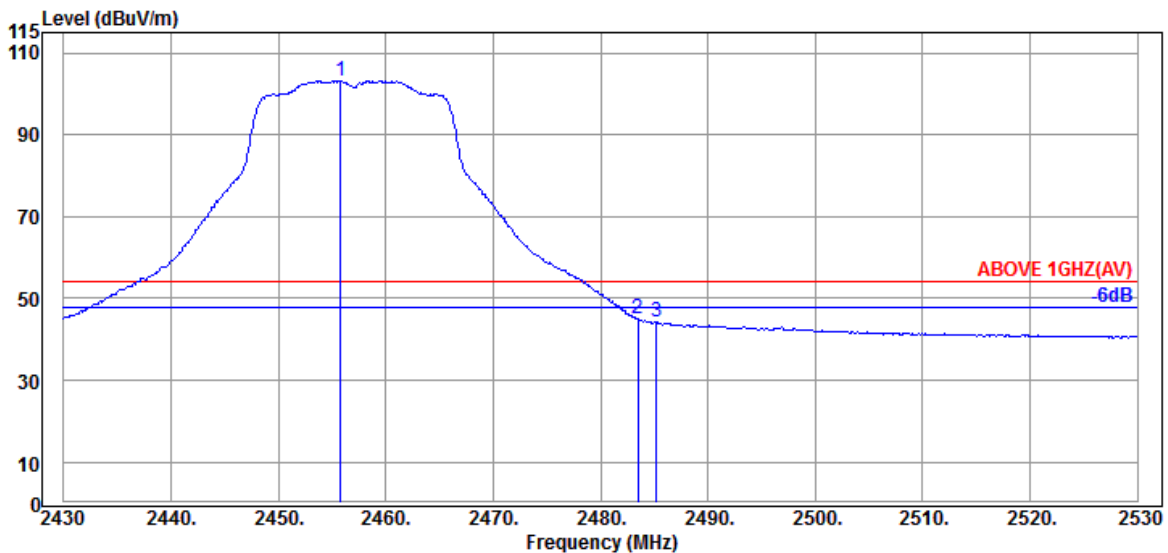
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2454.100	32.09	5.83	34.52	110.13	113.53	---	---	Peak
2483.500	32.43	5.87	34.53	52.78	56.55	74.00	17.45	Peak
2484.600	32.43	5.87	34.53	55.08	58.85	74.00	15.15	Peak

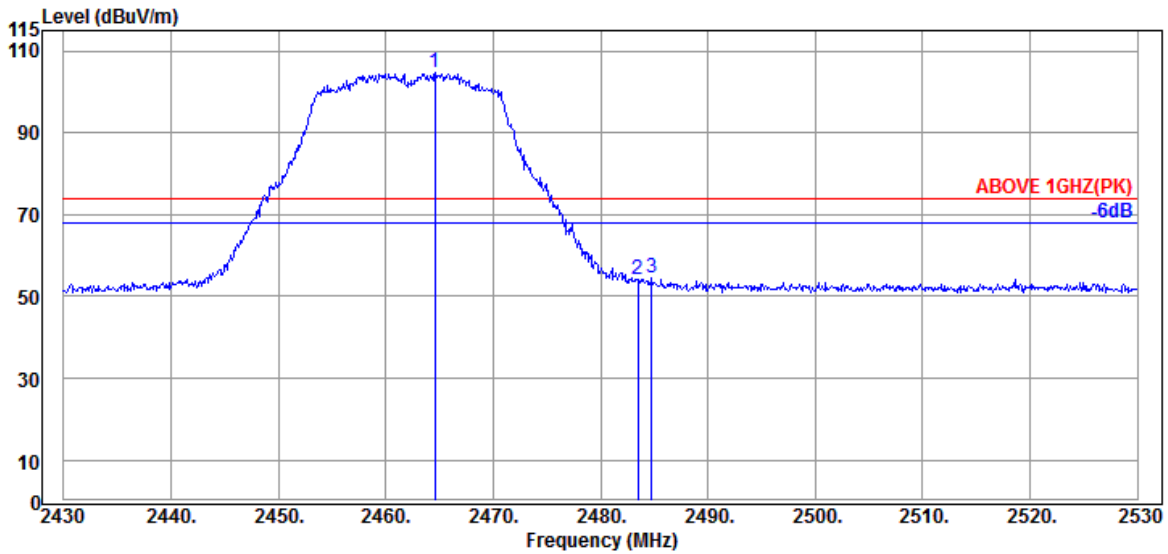


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2455.800	32.09	5.83	34.52	99.80	103.20	---	---	Average
2483.500	32.43	5.87	34.53	41.25	45.02	54.00	8.98	Average
2485.200	32.43	5.87	34.53	40.52	44.29	54.00	9.71	Average

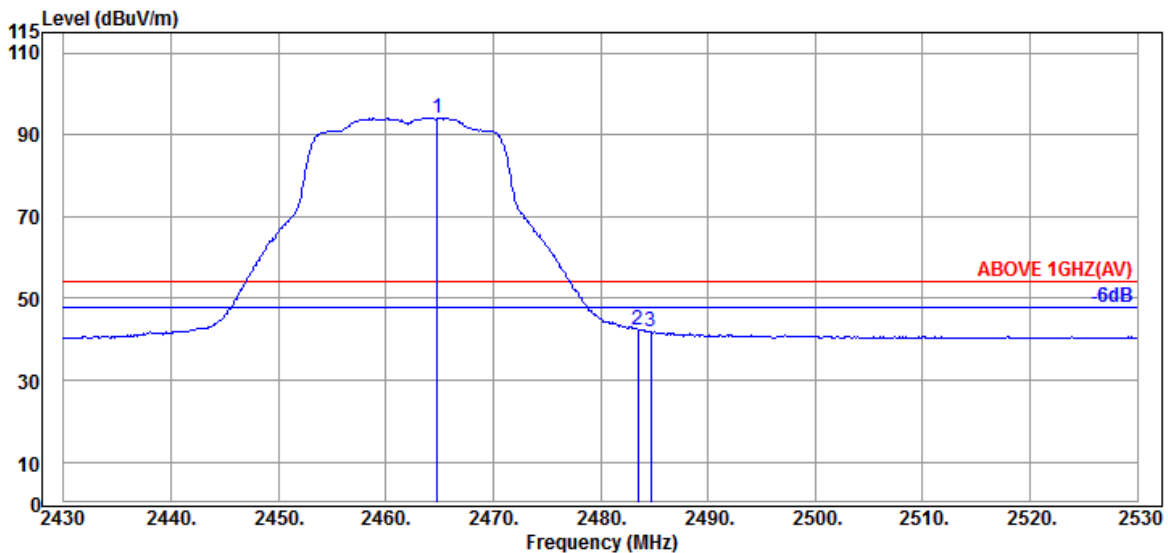
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.600	32.17	5.84	34.52	101.35	104.84	---	---	Peak
2483.500	32.43	5.87	34.53	50.29	54.06	74.00	19.94	Peak
2484.800	32.43	5.87	34.53	50.71	54.48	74.00	19.52	Peak

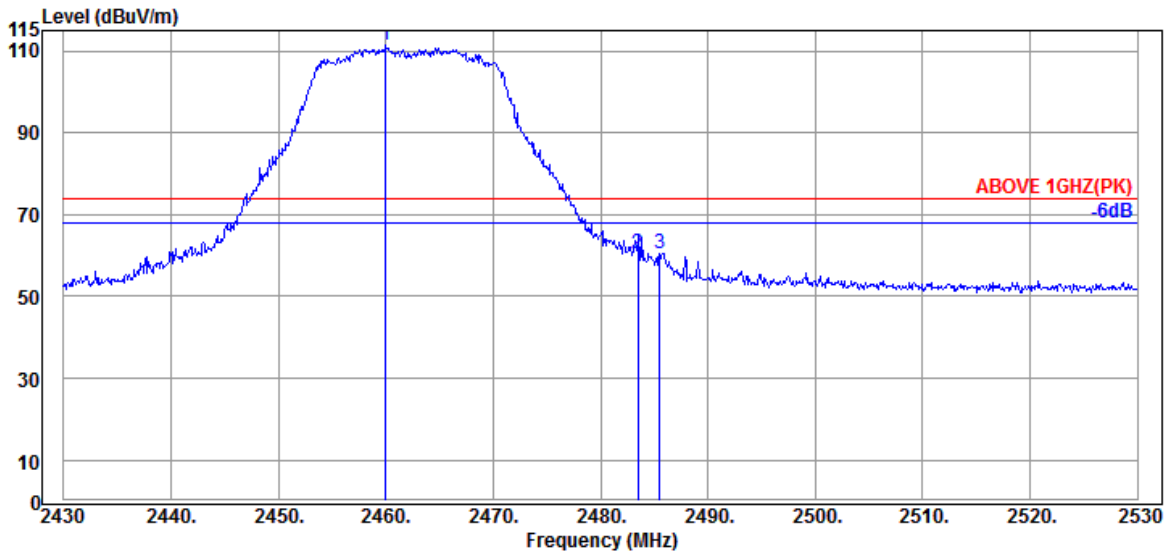


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2464.800	32.17	5.84	34.52	90.64	94.13	---	---	Average
2483.500	32.43	5.87	34.53	38.62	42.39	54.00	11.61	Average
2484.700	32.43	5.87	34.53	38.17	41.94	54.00	12.06	Average

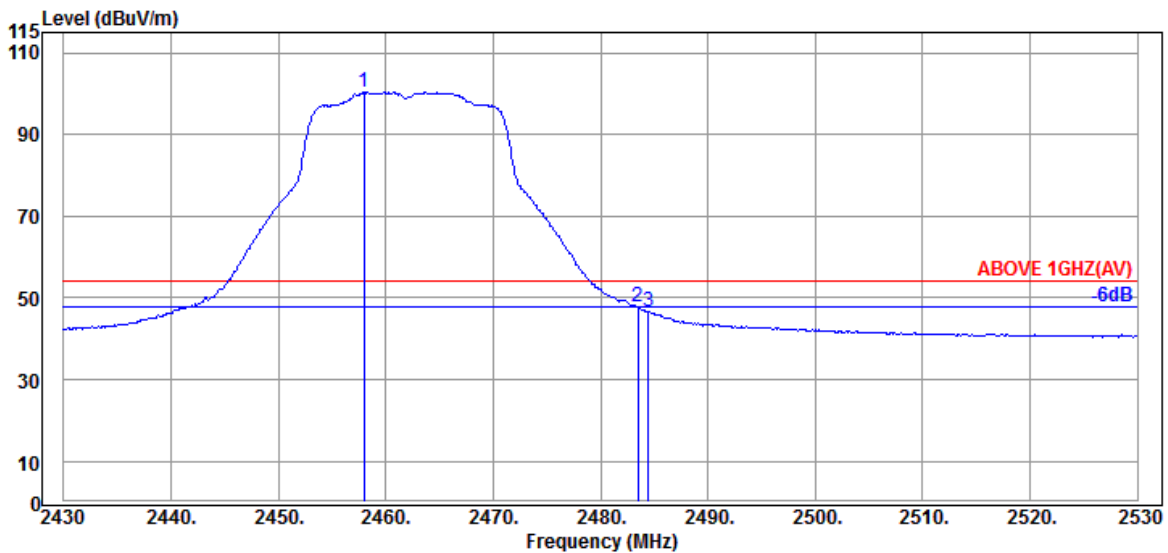
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2460.000	32.09	5.83	34.52	107.86	111.26	---	---	Peak
2483.500	32.43	5.87	34.53	56.81	60.58	74.00	13.42	Peak
2485.500	32.43	5.87	34.53	56.86	60.63	74.00	13.37	Peak

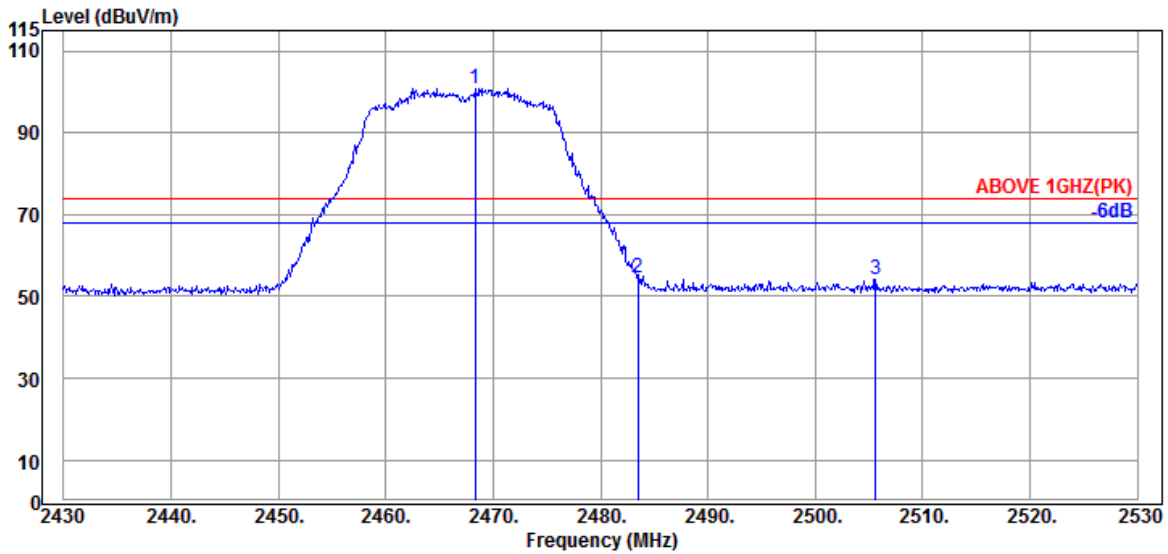


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2458.000	32.09	5.83	34.52	96.95	100.35	---	---	Average
2483.500	32.43	5.87	34.53	43.96	47.73	54.00	6.27	Average
2484.500	32.43	5.87	34.53	42.99	46.76	54.00	7.24	Average

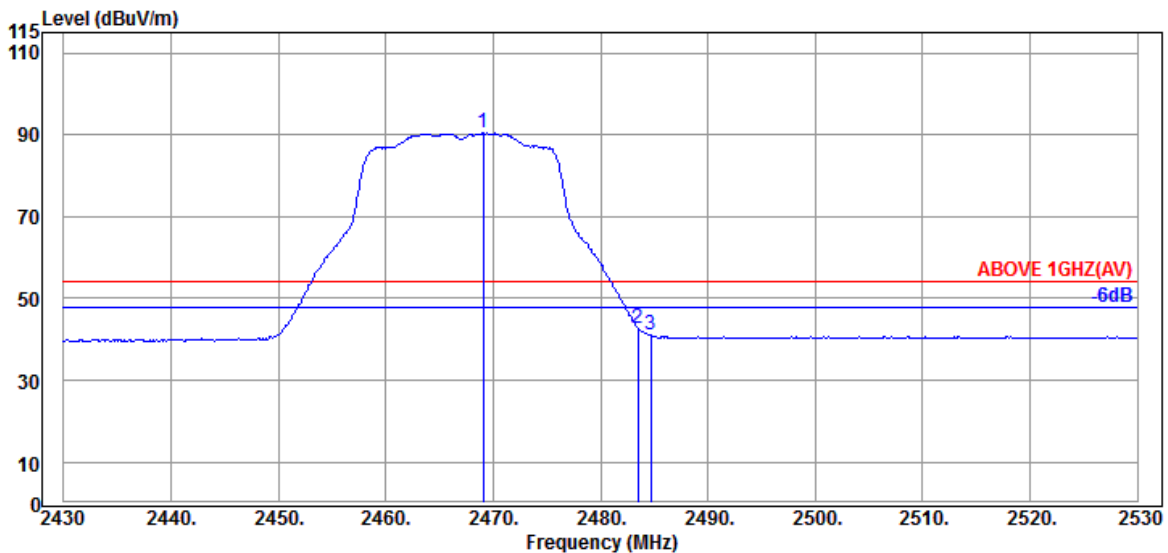
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2468.300	32.26	5.85	34.52	97.29	100.88	---	---	Peak
2483.500	32.43	5.87	34.53	50.67	54.44	74.00	19.56	Peak
2505.600	32.57	5.91	34.53	50.19	54.14	74.00	19.86	Peak

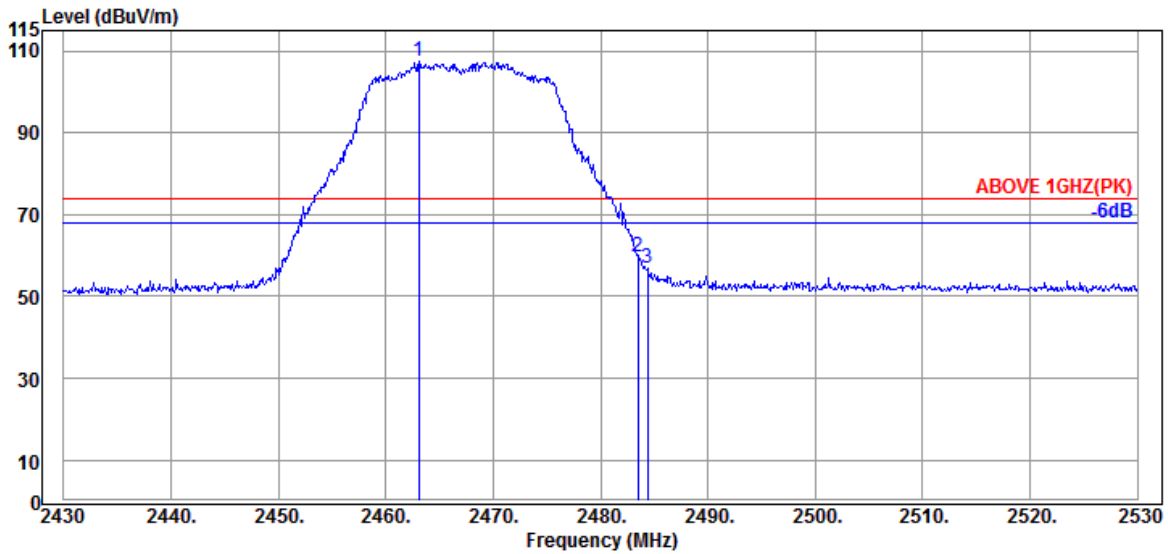


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2469.100	32.26	5.85	34.52	86.80	90.39	---	---	Average
2483.500	32.43	5.87	34.53	39.08	42.85	54.00	11.15	Average
2484.700	32.43	5.87	34.53	37.33	41.10	54.00	12.90	Average

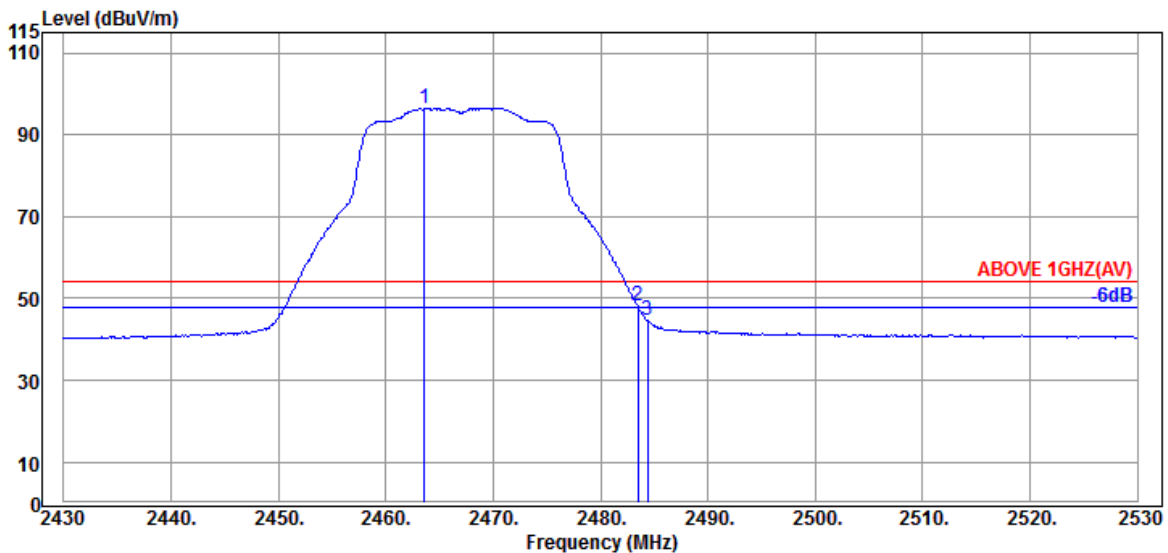
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.100	32.17	5.84	34.52	103.86	107.35	---	---	Peak
2483.500	32.43	5.87	34.53	56.09	59.86	74.00	14.14	Peak
2484.400	32.43	5.87	34.53	53.32	57.09	74.00	16.91	Peak

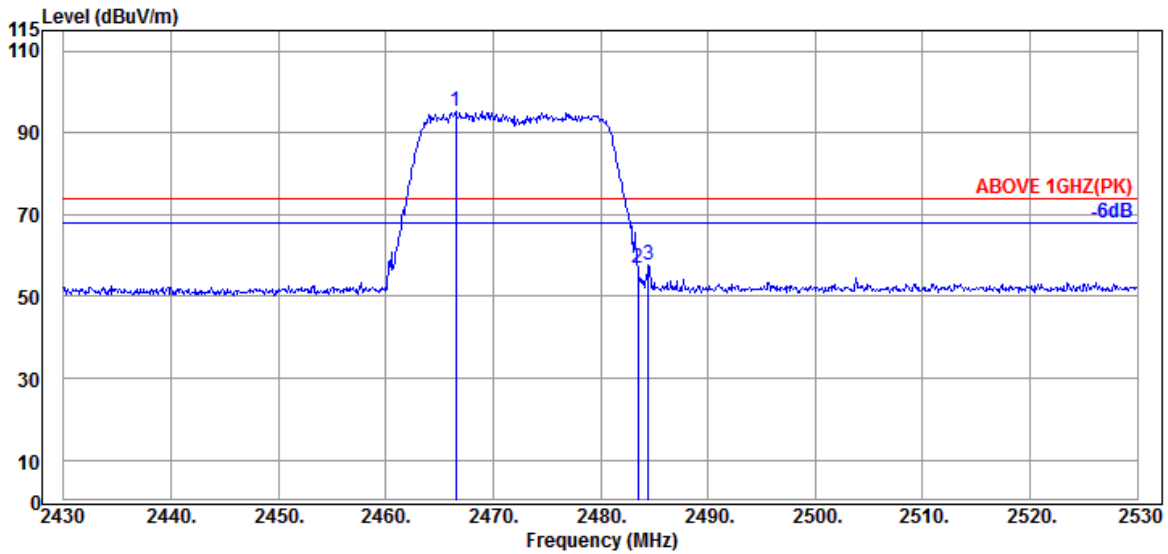


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2463.600	32.17	5.84	34.52	93.06	96.55	---	---	Average
2483.500	32.43	5.87	34.53	44.28	48.05	54.00	5.95	Average
2484.400	32.43	5.87	34.53	40.72	44.49	54.00	9.51	Average

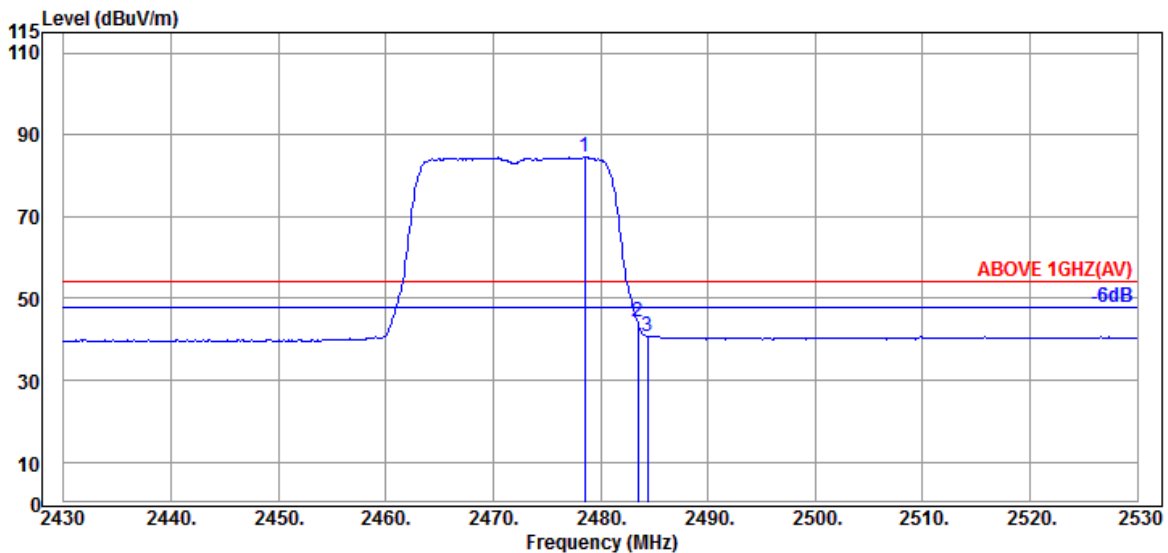
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2466.500	32.17	5.84	34.52	91.76	95.25	---	---	Peak
2483.500	32.43	5.87	34.53	53.33	57.10	74.00	16.90	Peak
2484.500	32.43	5.87	34.53	54.11	57.88	74.00	16.12	Peak

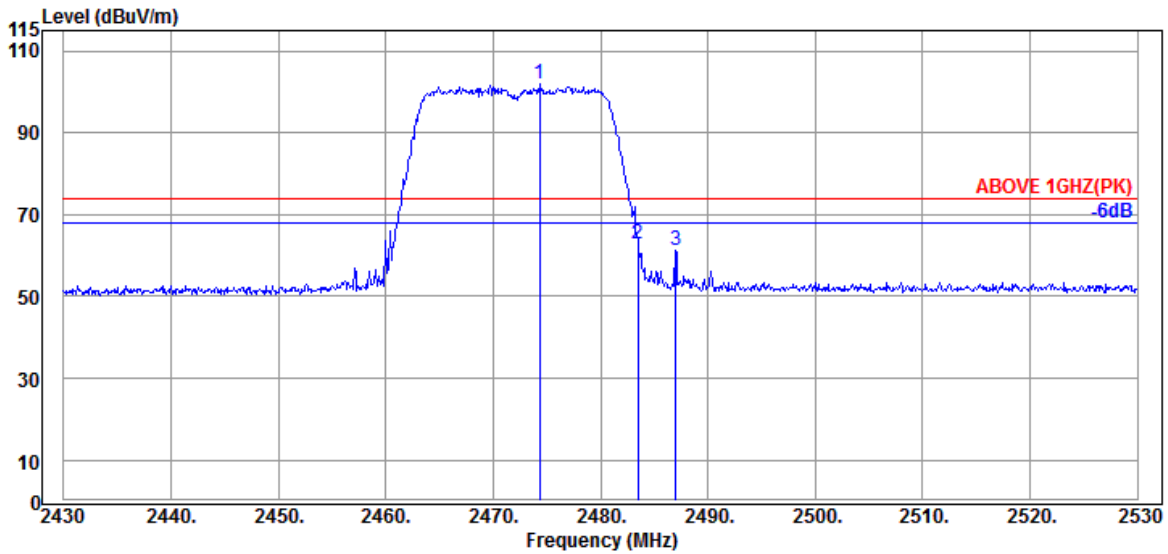


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.500	32.34	5.86	34.53	80.78	84.45	---	---	Average
2483.500	32.43	5.87	34.53	40.48	44.25	54.00	9.75	Average
2484.400	32.43	5.87	34.53	37.11	40.88	54.00	13.12	Average

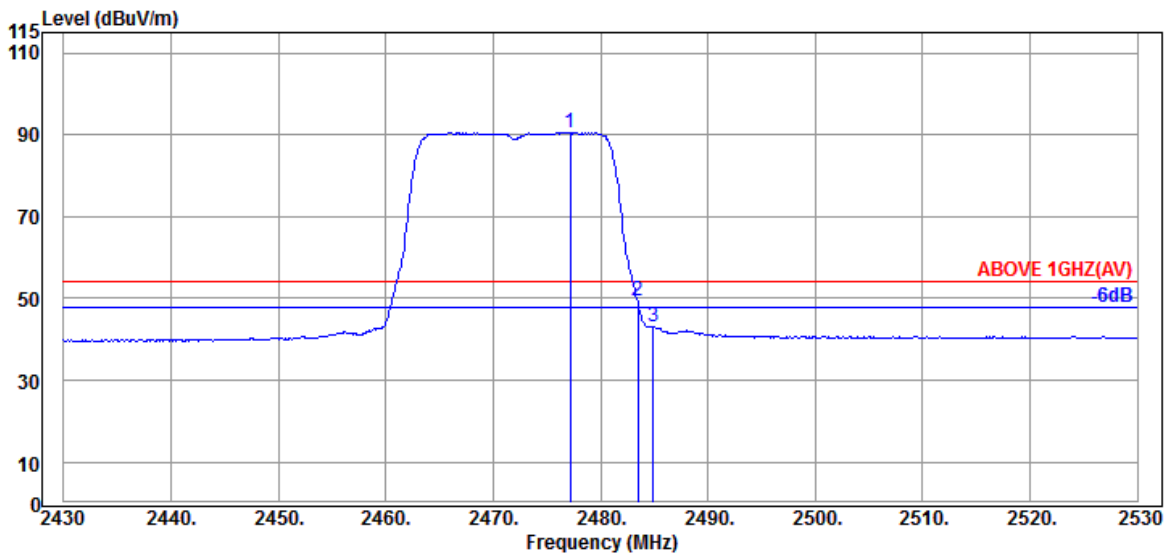
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2474.300	32.26	5.85	34.52	98.37	101.96	---	---	Peak
2483.500	32.43	5.87	34.53	59.14	62.91	74.00	11.09	Peak
2487.000	32.43	5.87	34.53	57.56	61.33	74.00	12.67	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2477.200	32.34	5.86	34.53	86.91	90.58	---	---	Average
2483.500	32.43	5.87	34.53	45.46	49.23	54.00	4.77	Average
2484.900	32.43	5.87	34.53	39.27	43.04	54.00	10.96	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.