

15.247& RSS-247 2.4 GHz Report

for

Amtran Technology Co., Ltd.

**17F., No. 268, Liancheng Rd., Jhonghe District,
New Taipei City 23553, Taiwan, R.O.C.**

Brand : CISCO
Product Name : Video Conferencing Equipment
Model Name : AA55WW
FCC ID : MDZAA55WW
IC : 7825A-AA55WW

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



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APPENDIX A TEST PHOTOGRAPHS

TEST REPORT CERTIFICATION

Applicant : Amtran Technology Co., Ltd.
Manufacture : Amtran Technology Co., Ltd.
Product Name : Video Conferencing Equipment
Model No. : AA55WW
Serial No. : N/A
Brand : CISCO

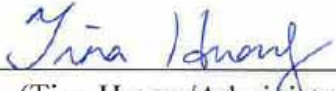
Applicable Standards:

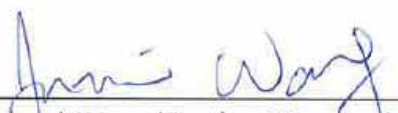
47 CFR FCC Part 15 Subpart C:2016
RSS-Gen (Issue 4), November 2014
RSS-247 (Issue 1), May 2015
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v03r05

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 Test: 2016. 11. 07 ~ 10

Date of Report: 2016. 11. 10

Producer: 
(Tina Huang/Administrator)

Signatory: 
(Jarwei Wang/Section Manager)

1. REPORT HISTORY

Edition No.	Date of Rev.	Revision Summary	Report No.
0	2016. 11. 10	Original Report.	EM-F160711

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)	6dB Bandwidth	N/A, Note
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output	N/A, Note
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	N/A, Note
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	N/A, Note
15.203	----	Antenna Requirement	PASS
Note: All conducted results are authorized to leverage to original grant FCC ID: VOB-P2180 and IC: 7361A-P2180.			

3. GENERAL INFORMATION

3.1. Description of EUT

Product	Video Conferencing Equipment																									
Model Number	AA55WW																									
Serial Number	N/A																									
Brand Name	CISCO																									
Applicant	Amtran Technology Co., Ltd. 17F., No. 268, Liancheng Rd., Jhonghe District, New Taipei City 23553, Taiwan, R.O.C.																									
Manufacture	Amtran Technology Co., Ltd. 17F., No. 268, Liancheng Rd., Jhonghe District, New Taipei City 23553, Taiwan, R.O.C.																									
RF Features	WLAN:802.11a/b/g/n/ac Bluetooth: BT and BLE																									
Transmit Type	<table><tr><th colspan="2">2.4 GHz</th></tr><tr><td>802.11b</td><td>1T1R</td></tr><tr><td>802.11g</td><td>1T1R</td></tr><tr><td>802.11n-HT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40</td><td>2T2R</td></tr><tr><td>BT</td><td>1T1R</td></tr><tr><td>BLE</td><td>1T1R</td></tr></table> <table><tr><th colspan="2">UNII Bands</th></tr><tr><td>802.11a</td><td>1T1R</td></tr><tr><td>802.11n-HT20/ 802.11ac-VHT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40/ 802.11ac-VHT40</td><td>2T2R</td></tr><tr><td>802.11ac-VHT80</td><td>2T2R</td></tr></table>		2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	BT	1T1R	BLE	1T1R	UNII Bands		802.11a	1T1R	802.11n-HT20/ 802.11ac-VHT20	2T2R	802.11n-HT40/ 802.11ac-VHT40	2T2R	802.11ac-VHT80	2T2R
2.4 GHz																										
802.11b	1T1R																									
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UNII Bands																										
802.11a	1T1R																									
802.11n-HT20/ 802.11ac-VHT20	2T2R																									
802.11n-HT40/ 802.11ac-VHT40	2T2R																									
802.11ac-VHT80	2T2R																									
Date of Receipt of Sample	2016. 10. 20																									

3.2. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2462	11	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		11	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 300
802.11n-HT40	2422-2452	7		
BLE	2402-2480	40	GFSK	1

Channel List			
802.11 b/g/n-HT20		802.11n-HT40	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412		
2	2417		
3	2422		
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		

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

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (GHz)	Max Gain (dBi)
1	RFMTA340776IMLB701	Walsin Technology Corporation	PIFA	2.4	4.61
				5	5.60
2.	RFMTA340784IMLB701		PIFA	2.4	4.10
				5	5.77

3.4. Test Configuration

Mode	Duty Cycle (x)	T (ms)
802.11b	0.98	8.6
802.11g	0.94	1.43
802.11n-HT20	0.87	0.692
802.11n-HT40	0.79	0.358
BLE	0.63	0.392

AC Conduction	
Test Case	Normal operation

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note 2	802.11b	1Mbps	1/11
		802.11g	6Mbps	1/11
		802.11n-HT20	MCS8	1/11
		802.11n-HT40	MCS8	3/9
		BLE	1Mbps	0/39
	Radiated Spurious Emission Note 2	802.11b	1 Mbps	11
		802.11g	6Mbps	6
		802.11n-HT20	MCS8	6
		802.11n-HT40	MCS8	6
		BLE	1Mbps	0/39

Note 1:

- ☒ Mobile Device
- ☐ Portable Device, and 3 axis were assessed.
- ☐ Lie
- ☐ Side
- ☐ Stand

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

3.5. Tested Supporting System List

3.5.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
For Power Line Emission					
1.	PC System	Lenovo	MT-M 2697-AH5	PBFBK914	By DoC
2.	USB Keyboard	Lenovo	SK-8825	00556863	By DoC
3.	USB Mouse	Lenovo	LXB MO28UOAUSB	4402687	By DoC
4.	Laser Printer	SAMSUNG	ML-1630	4561B1CP600023 X	A3LML1630
5.	I-POD	APPLE	A1204	4H722TG2VTE	By DoC
6.	Earphone	SAMPO	EK-Y1251MP	N/A	N/A
7.	5G Server	D-Link	DIR-868L	R3WE1D7002319	KA2IR868LA1
8.	Mobile Phone	SAMSUNG	GT-I9300	RF1C86ATMSV	N/A
For Radiated Emission					
1.	Notebook PC	acer	MS2362	N/A	PPD-AAR5B225
2.	TV	LG	22LK330-DB	N/A	N/A
3.	USB HUB	SENSE	UP250	N/A	DoC
4.	USB Storage Media	pqi	U273	N/A	DoC

3.5.2. Cable Lists

No.	Cable Description Of The Above Support Units
For Radiated Emission	
1.	HDMI Cable: Shielded, Detachable, 1.8m
2.	USB Cable: Shielded, Undetachable, 1.8m
3.	USB Cable: Shielded, Undetachable, 1.8m
4.	USB Cable: Shielded, Detachable, 1.8m Power Cord: Unshielded, Detachable, 1.8m
5.	USB Cable: Shielded, Undetachable, 1.0m
6.	Earphone Cable: Unshielded, Detachable, 1.2m
7.	LAN Cable: Unshielded, Detachable, 10.0m Adapter: WA-30B12, Power Cable: Unshielded, Undetachable, 1.2m
For Power Line Emission	
1.	Adapter: Chicony, M/N CPA09-A065N1, DC Power Cord: Unshielded, Undetachable, 1.8m, Bonded a ferrite core AC Power Cord: Unshielded, Detachable, 1.8m LAN Cable: Unshielded, Detachable, 1.8m
2.	HDMI Cable: Unshielded, Detachable, 1.8m Audio Cable: Unshielded, Detachable, 1.8m
3.	USB Cable: Unshielded, Detachable, 1.0m

3.6. Setup Configuration

3.6.1. EUT Configuration for Power Line & Radiated Emission

EUT

3.7. Operating Condition of EUT

Test program “ADB” is used for enabling EUT RF function under continues transmitting and choosing data rate/ channel.

3.8. Description of Test Facility

Test Firm Name	:	AUDIX Technology Corporation EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
Test Location & Facility	:	No. 7 Shielded Room No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Federal Communication Commission Registration Number: 90993 Renewal on May 06 2015 IC Test Site Registration No.: 5183B-1 Renewal on September 17, 2014 Fully Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan IC Test Site Registration No.: 5183B-4 Renewal on August 31, 2015
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724
FCC OET Designation	:	TW1004 & TW1090

3.9. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.50dB
Radiation Test (Distance: 3m)	30MHz~1000MHz	± 3.68dB
	Above 1GHz	± 5.82dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

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	ESCI	101276	2016. 03. 31	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2016. 07. 27	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1539-3	2016. 01. 21	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101495	2016. 01. 17	1 Year
5.	Test Software	Audix	e3	V.6.120424	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

4.2.1. Frequency Range 9kHz~1000MHz (Semi Anechoic Chamber)

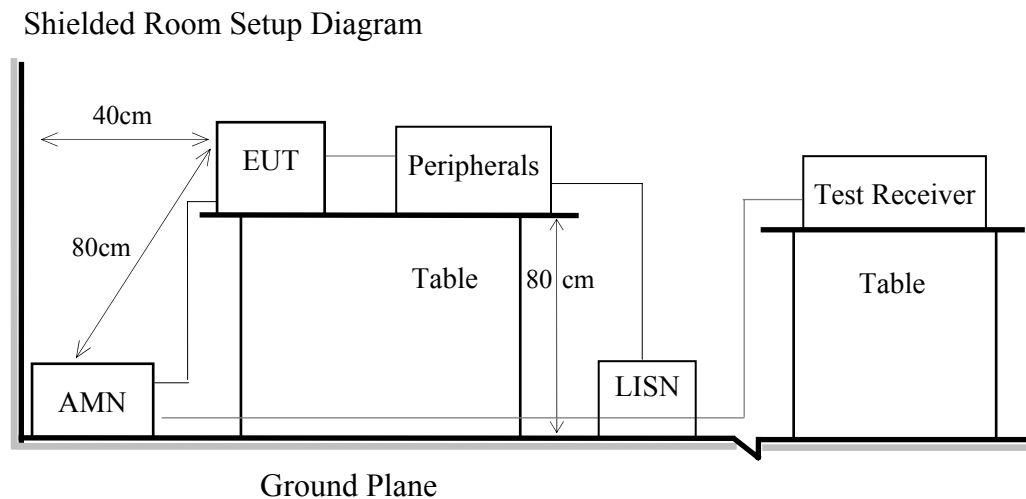
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2016. 09. 19	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2016. 06. 22	1 Year
3.	Amplifier	HP	8447D	2944A06305	2016. 02. 23	1 Year
4.	Bilog Antenna	CHASE	CBL6112D	33821	2016. 01. 30	1 Year
5.	Loop Antenna	R&S	HFH2-Z2	891847/27	2015. 12. 24	1 Year
6.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.2.2. Frequency Range Above 1GHz (Fully Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	2016. 08. 19	1 Year
2.	Amplifier	Agilent	8449B	3008A02678	2016. 03. 04	1 Year
3.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2016. 07. 28	1 Year
4.	Horn Antenna	ETS-Lindgren	3117	00135902	2016. 03. 05	1 Year
5.	Horn Antenna	EMCO	3116	2653	2016. 10. 24	1 Year
6.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

5. CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Power Line 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

Remark 1.: 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.

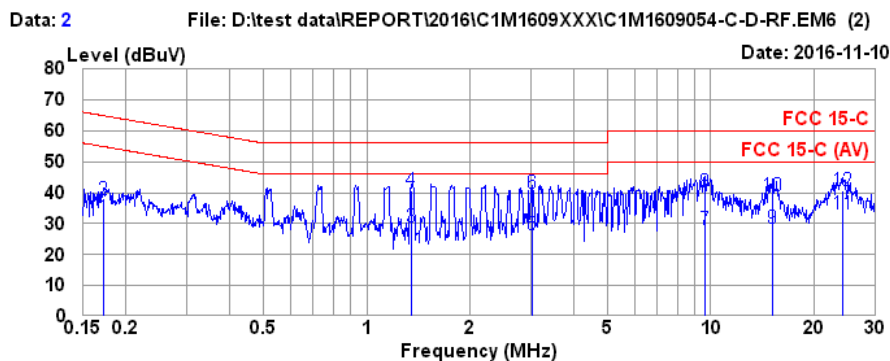
5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. 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 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Conducted Emission Measurement Results

PASSED.

Test Date	2016/11/10	Temp./Hum.	24°C/53%
Test Voltage	AC 120V, 60Hz		



Site no. : No.7 Shielded Room Data no. : 2
Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL
Limit : FCC 15-C
Env. / Ins. : 24°C / 53% ESCI (1276) Engineer : Nick Du
EUT : AA55WW
Power Rating : 120Vac/60Hz
Test Mode : Operating

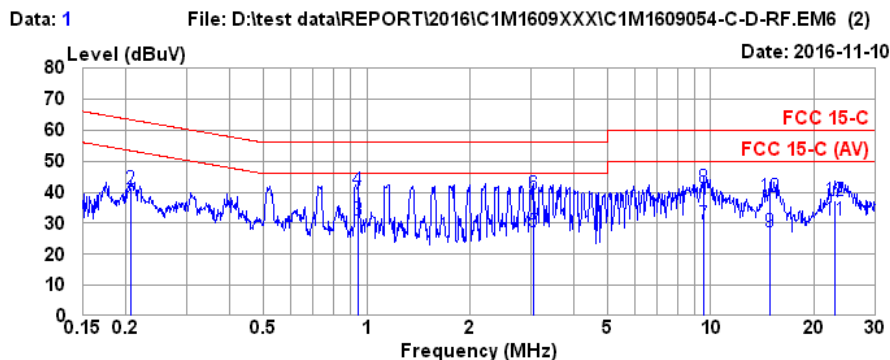
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.172	0.18	0.03	9.85	21.64	31.70	64.86	33.16	Average
2	0.172	0.18	0.03	9.85	27.57	37.63	64.86	27.23	QP
3	1.352	0.23	0.07	9.93	18.80	29.03	56.00	26.97	Average
4	1.352	0.23	0.07	9.93	30.47	40.70	56.00	15.30	QP
5	3.025	0.29	0.09	9.91	16.12	26.41	56.00	29.59	Average
6	3.025	0.29	0.09	9.91	29.51	39.80	56.00	16.20	QP
7	9.654	0.52	0.17	9.88	17.52	28.09	60.00	31.91	Average
8	9.654	0.52	0.17	9.88	29.64	40.21	60.00	19.79	QP
9	15.066	0.80	0.21	9.90	17.54	28.45	60.00	31.55	Average
10	15.066	0.80	0.21	9.90	27.94	38.85	60.00	21.15	QP
11	24.271	0.95	0.28	9.96	22.01	33.20	60.00	26.80	Average
12	24.271	0.95	0.28	9.96	29.32	40.51	60.00	19.49	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.

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No. 53-11, Dingfu, Linkou, Dist.,
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Test Date	2016/11/10	Temp./Hum.	24°C/53%
Test Voltage	AC 120V, 60Hz		



Site no. : No.7 Shielded Room Data no. : 1
Condition : ESH2-Z5 366(ADAPTER) Phase : LINE
Limit : FCC 15-C
Env. / Ins. : 24°C / 53% ESCI (1276) Engineer : Nick Du
EUT : AA55WW
Power 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	0.206	0.16	0.04	9.85	25.00	35.05	53.36	18.31	Average
2	0.206	0.16	0.04	9.85	30.89	40.94	63.36	22.42	QP
3	0.948	0.21	0.06	9.90	20.95	31.12	46.00	14.88	Average
4	0.948	0.21	0.06	9.90	30.34	40.51	56.00	15.49	QP
5	3.058	0.30	0.09	9.91	17.04	27.34	46.00	18.66	Average
6	3.058	0.30	0.09	9.91	29.07	39.37	56.00	16.63	QP
7	9.552	0.56	0.17	9.88	18.98	29.59	50.00	20.41	Average
8	9.552	0.56	0.17	9.88	30.78	41.39	60.00	18.61	QP
9	14.907	0.89	0.21	9.90	16.32	27.32	50.00	22.68	Average
10	14.907	0.89	0.21	9.90	27.67	38.67	60.00	21.33	QP
11	22.896	1.18	0.27	9.95	19.51	30.91	50.00	19.09	Average
12	22.896	1.18	0.27	9.95	26.09	37.49	60.00	22.51	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.

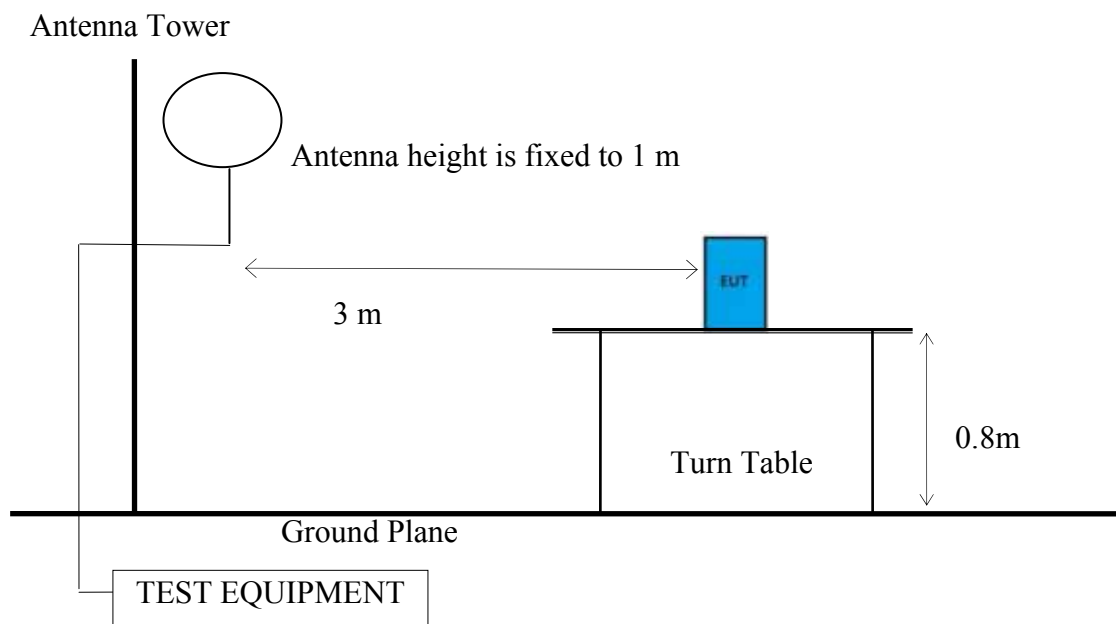
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

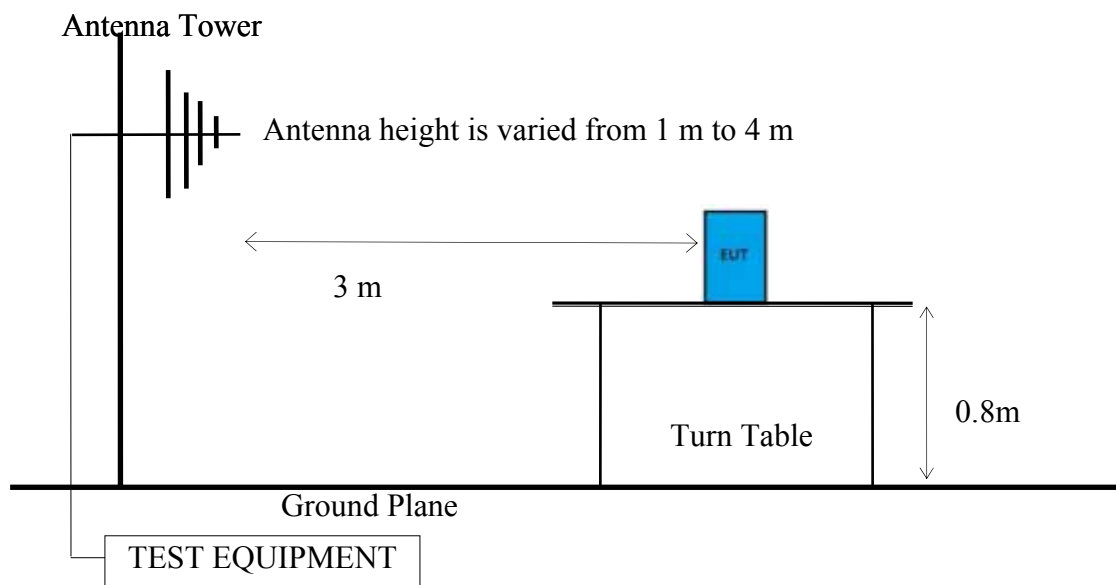
6.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.6

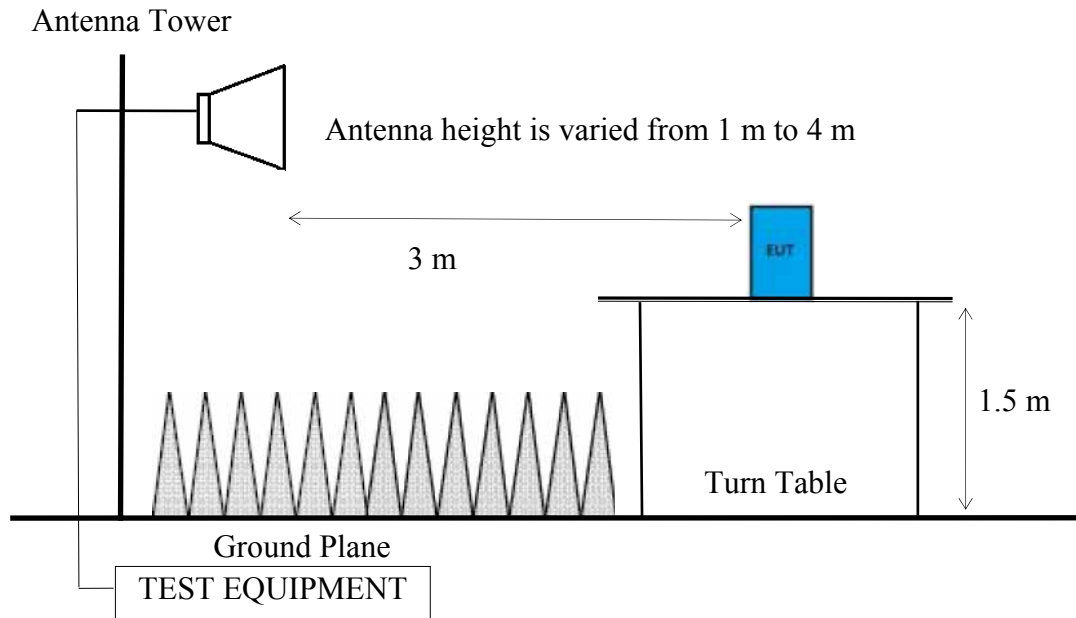
6.1.2. Semi Anechoic Chamber (3m) Setup Diagram for 9kHz-30MHz



6.1.3. Semi Anechoic Chamber (3m) Setup Diagram for 30-1000 MHz



6.1.4. Fully Anechoic Chamber (3m) 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	2400/kHz
0.490 - 1.705	30	87.6	24000/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 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 C63.10-2013 regulation.

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

Frequency Range 30MHz ~ 40GHz:

The EUT setup on the turn find table which has 80 cm (for 30-1000 MHz) 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 1 GHz:

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

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Frequency above 1GHz to 10th harmonic:

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average for finally measurement.

Average Detector:**■ Option 1:**

- (1) RBW = 1MHz
- (2) VBW $\geq 1/T$.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting (kHz)
802.11b	8.6	0.12	0.01
802.11g	1.43	0.70	0.70
802.11n-HT20	0.692	1.45	1.45
802.11n-HT40	0.358	2.79	2.79
BLE	0.392	2.55	2.55

N/A: 1/ T is not implemented when duty cycle presented in section 3.5 is $\geq 98\%$.

- (1) Detector = Peak.
- (2) Sweep time = auto.
- (3) Trace mode = max hold.
- (4) 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=Antenna Factor + Cable Loss + Meter Reading

■ Average Emission Level=Antenna Factor + Cable Loss + Meter Reading

□ Average Emission Level= Peak Emission Level+ DCCF

Duty Cycle Correction Factor (DCCF)= $20\log(TX_{on}/TX_{on+off})$ presented in section 3.5

□ ERP= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

PASSED.

Test Date	2016/11/07	Temp./Hum.	23°C/53%
Test Voltage	AC 120V, 60Hz		

6.5.1. Emissions within Restricted Frequency Bands

6.5.1.1. Frequency 9kHz~30MHz

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

6.5.1.2. Frequency 30MHz~1000MHz

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
119.24	13.01	2.50	19.05	34.56	43.50	8.94	Peak
359.80	15.13	5.09	14.28	34.50	46.00	11.50	Peak
515.97	17.35	6.48	7.92	31.75	46.00	14.25	Peak
712.88	18.65	7.15	5.76	31.56	46.00	14.44	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
46.49	11.44	1.51	25.74	38.69	40.00	1.31	Peak
119.24	13.01	2.50	25.96	41.47	43.50	2.03	Peak
239.52	12.08	3.71	22.92	38.71	46.00	7.29	Peak
726.46	18.83	7.23	5.74	31.80	46.00	14.20	Peak

Mode	BLE	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
119.24	13.01	2.50	19.04	34.55	43.50	8.95	Peak
197.81	9.45	3.32	17.51	30.28	43.50	13.22	Peak
359.80	15.13	5.09	14.50	34.72	46.00	11.28	Peak
712.88	18.65	7.15	5.52	31.32	46.00	14.68	Peak

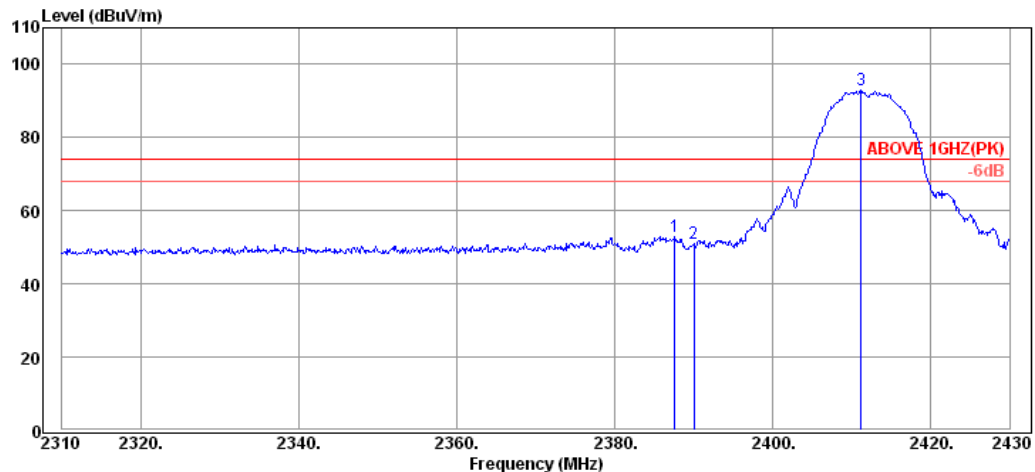
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
45.52	11.93	1.49	24.69	38.11	40.00	1.89	Peak
119.24	13.01	2.50	26.06	41.57	43.50	1.93	Peak
263.77	13.05	3.95	21.16	38.16	46.00	7.84	Peak
646.92	18.46	6.91	8.07	33.44	46.00	12.56	Peak

6.5.2. Frequency Above 1 GHz to 10th harmonics

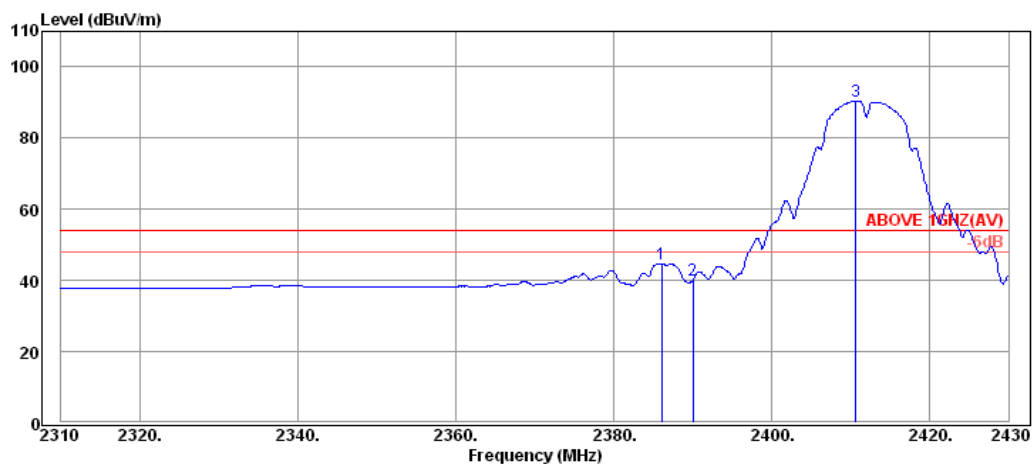
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

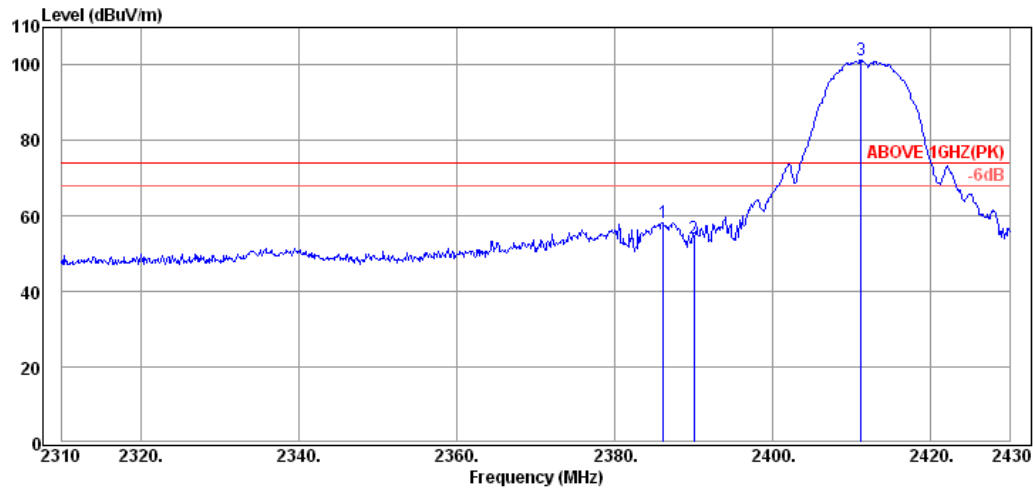
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.64	32.16	6.08	14.80	53.04	74.00	20.96	Peak
2390.04	32.16	6.08	12.82	51.06	74.00	22.94	Peak
2411.16	32.18	6.11	54.63	92.92	---	---	Peak



Antenna at Horizontal Polarization

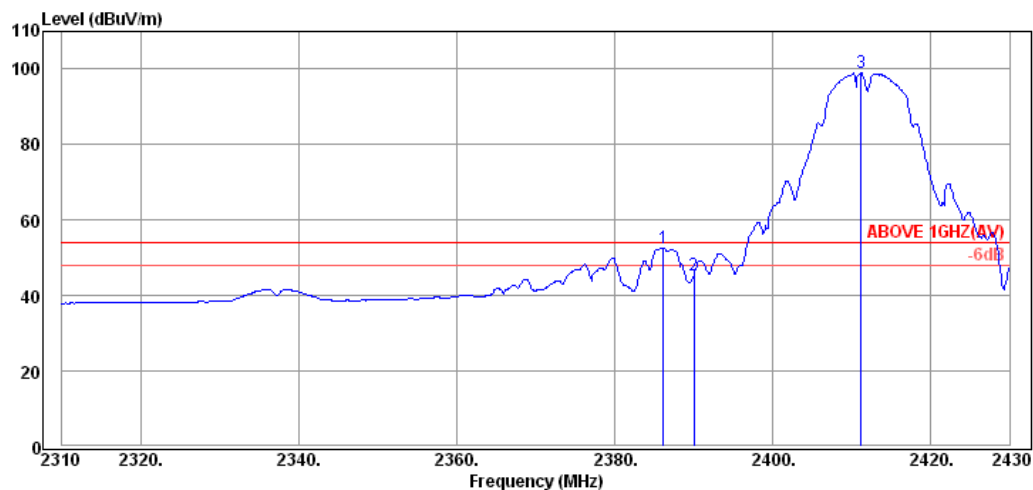
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.08	32.16	6.07	6.50	44.73	54.00	9.27	Average
2390.04	32.16	6.08	1.87	40.11	54.00	13.89	Average
2410.68	32.18	6.10	52.23	90.51	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

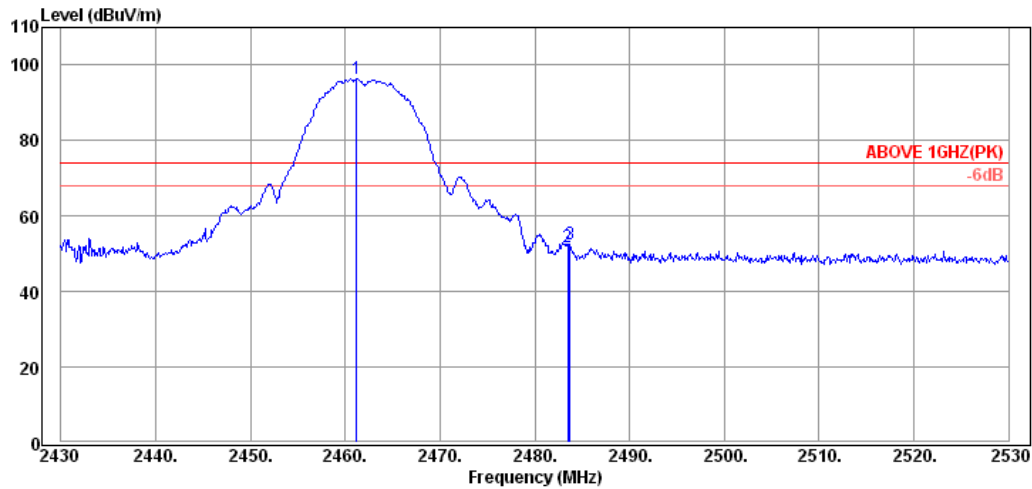
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.20	32.16	6.07	20.14	58.37	74.00	15.63	Peak
2390.04	32.16	6.08	15.73	53.97	74.00	20.03	Peak
2411.16	32.18	6.11	62.93	101.22	---	---	Peak



Antenna at Vertical Polarization

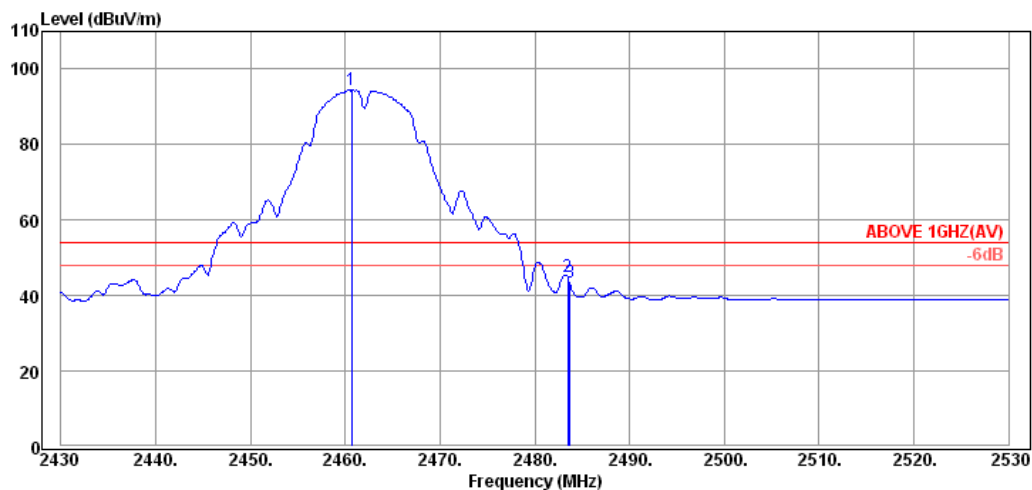
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.20	32.16	6.07	14.25	52.48	54.00	1.52	Average
2390.04	32.16	6.08	7.09	45.33	54.00	8.67	Average
2411.16	32.18	6.11	60.61	98.90	---	---	Average

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

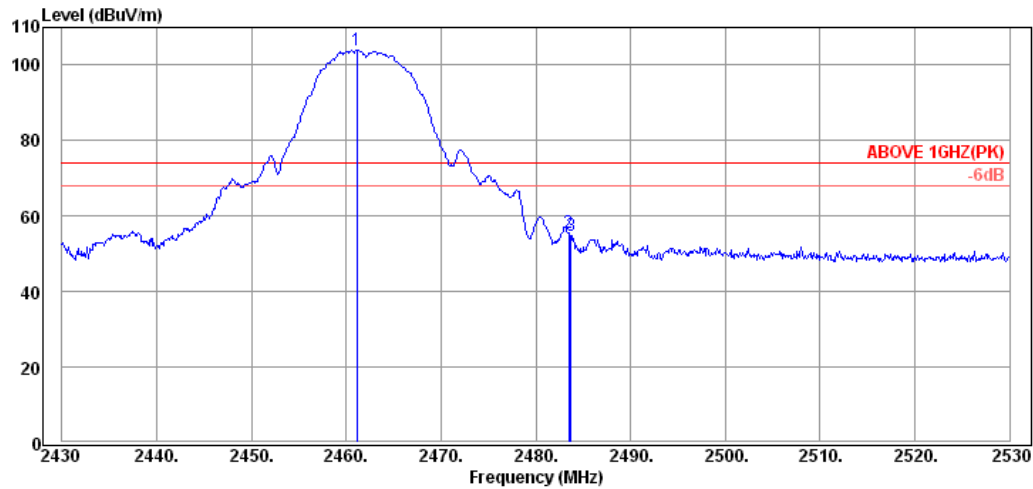
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	6.16	58.15	96.56	---	---	Peak
2483.50	32.28	6.19	13.25	51.72	74.00	22.28	Peak
2483.70	32.28	6.19	14.21	52.68	74.00	21.32	Peak



Antenna at Horizontal Polarization

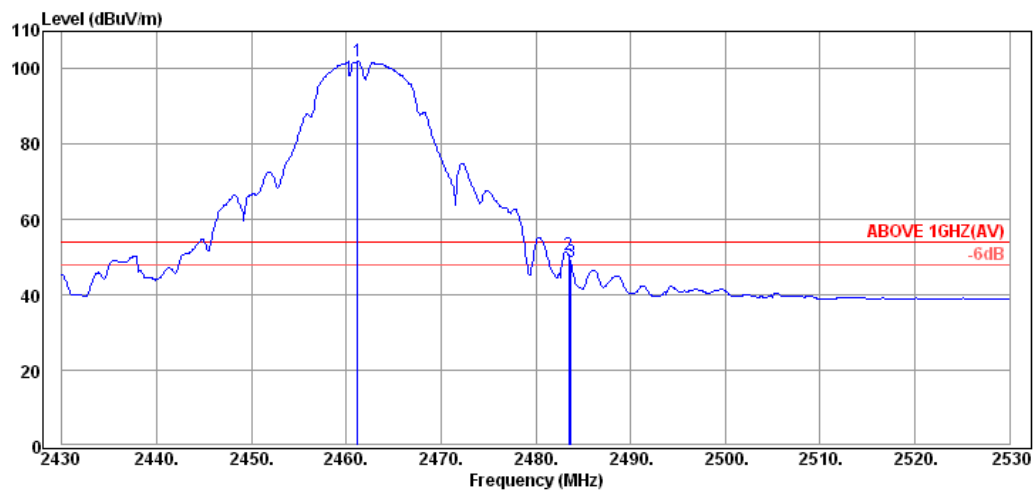
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.70	32.25	6.16	55.99	94.40	---	---	Average
2483.50	32.28	6.19	6.41	44.88	54.00	9.12	Average
2483.70	32.28	6.19	5.08	43.55	54.00	10.45	Average

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

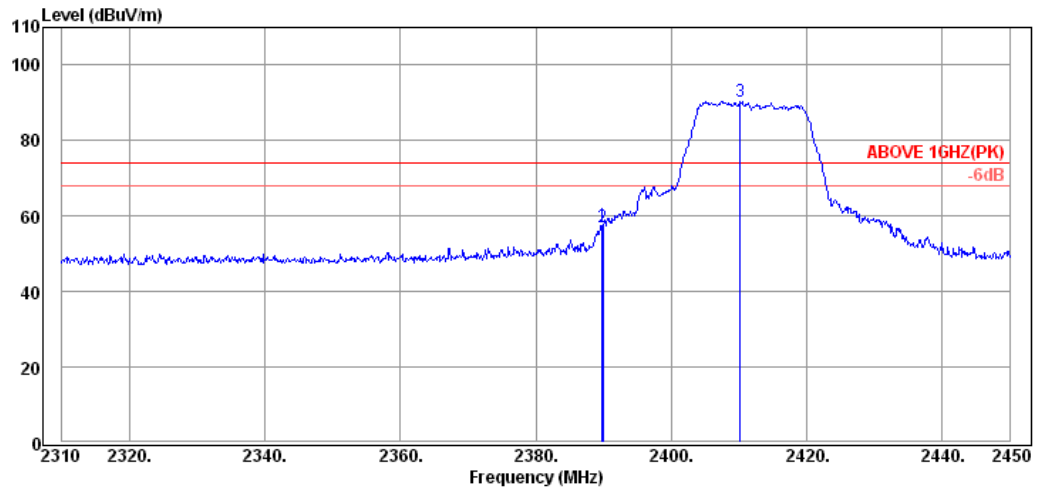
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.10	32.25	6.16	65.70	104.11	---	---	Peak
2483.50	32.28	6.19	16.95	55.42	74.00	18.58	Peak
2483.70	32.28	6.19	16.50	54.97	74.00	19.03	Peak



Antenna at Vertical Polarization

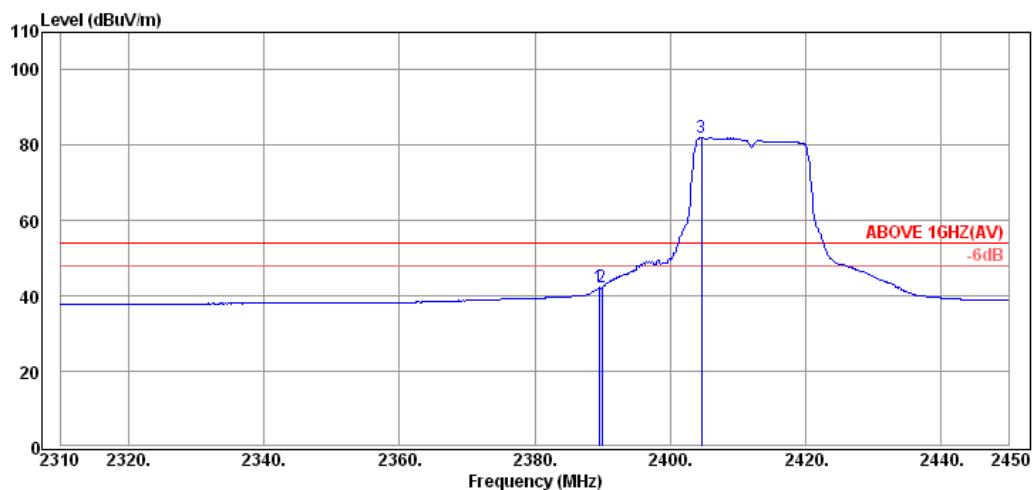
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	6.16	63.54	101.95	---	---	Average
2483.50	32.28	6.19	12.17	50.64	54.00	3.36	Average
2483.70	32.28	6.19	10.34	48.81	54.00	5.19	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

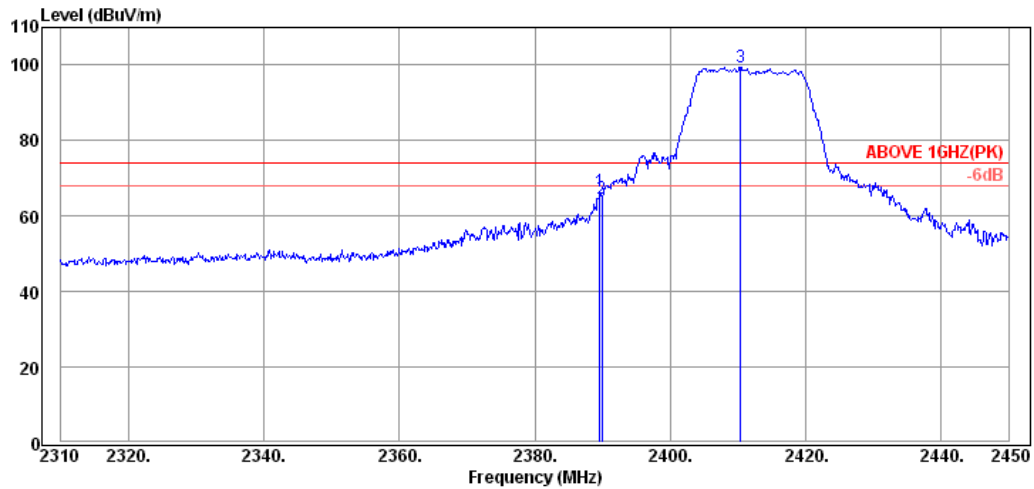
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	19.26	57.50	74.00	16.50	Peak
2389.94	32.16	6.08	18.78	57.02	74.00	16.98	Peak
2410.24	32.18	6.10	52.11	90.39	---	---	Peak



Antenna at Horizontal Polarization

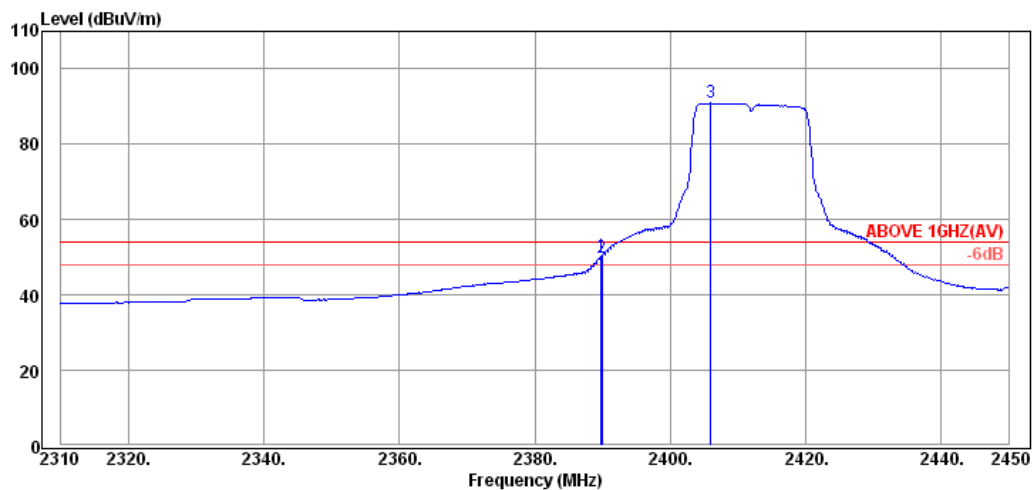
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.52	32.16	6.08	3.98	42.22	54.00	11.78	Average
2389.94	32.16	6.08	4.04	42.28	54.00	11.72	Average
2404.64	32.18	6.10	43.63	81.91	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

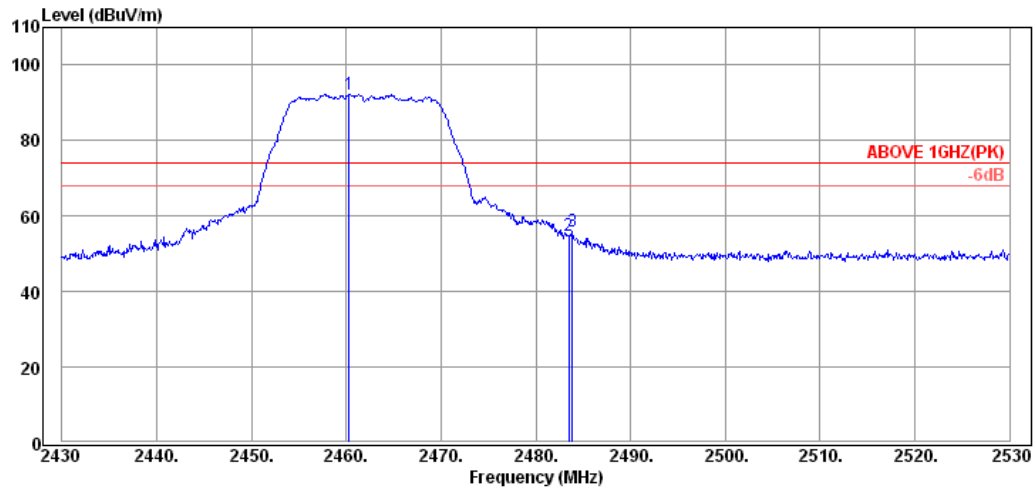
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	28.29	66.53	74.00	7.47	Peak
2389.94	32.16	6.08	26.52	64.76	74.00	9.24	Peak
2410.38	32.18	6.10	61.26	99.54	---	---	Peak



Antenna at Vertical Polarization

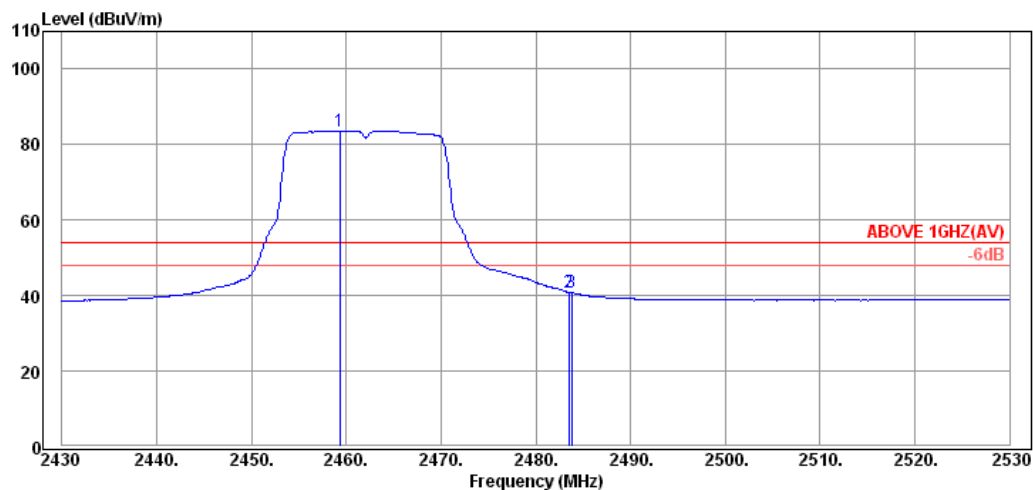
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	11.99	50.23	54.00	3.77	Average
2389.94	32.16	6.08	11.81	50.05	54.00	3.95	Average
2406.04	32.18	6.10	52.63	90.91	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

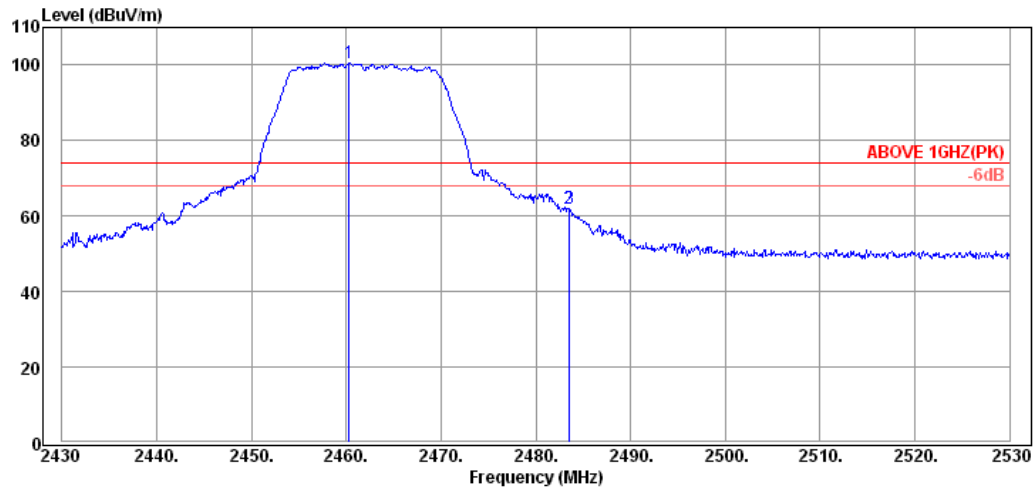
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.30	32.25	6.16	53.85	92.26	---	---	Peak
2483.50	32.28	6.19	16.38	54.85	74.00	19.15	Peak
2483.90	32.28	6.19	17.44	55.91	74.00	18.09	Peak



Antenna at Horizontal Polarization

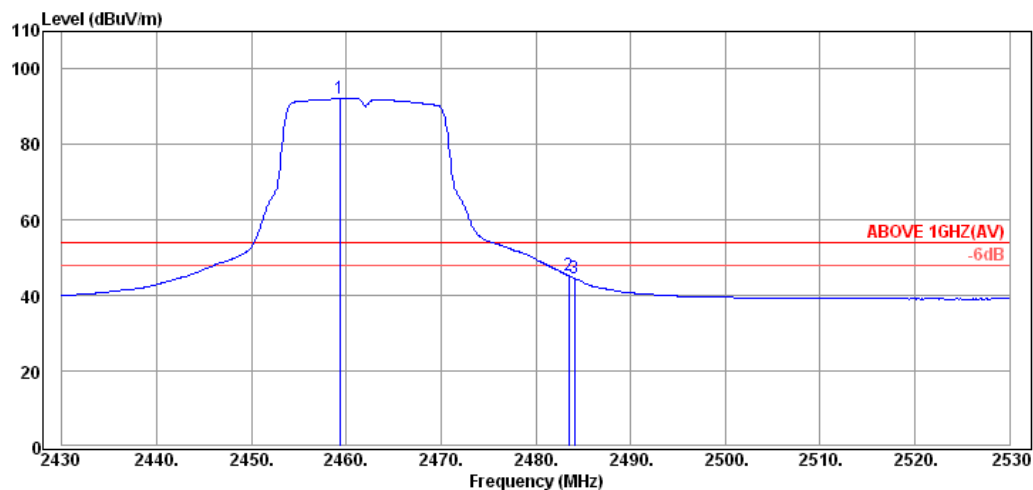
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.30	32.25	6.16	45.29	83.70	---	---	Average
2483.50	32.28	6.19	2.44	40.91	54.00	13.09	Average
2483.80	32.28	6.19	2.28	40.75	54.00	13.25	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

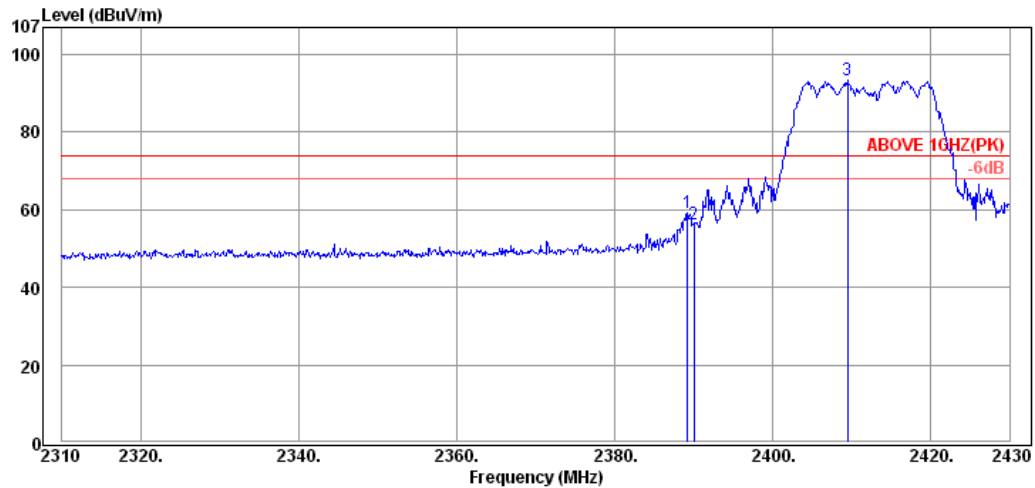
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.30	32.25	6.16	62.26	100.67	---	---	Peak
2483.50	32.28	6.19	23.41	61.88	74.00	12.12	Peak
2483.60	32.28	6.19	23.42	61.89	74.00	12.11	Peak



Antenna at Vertical Polarization

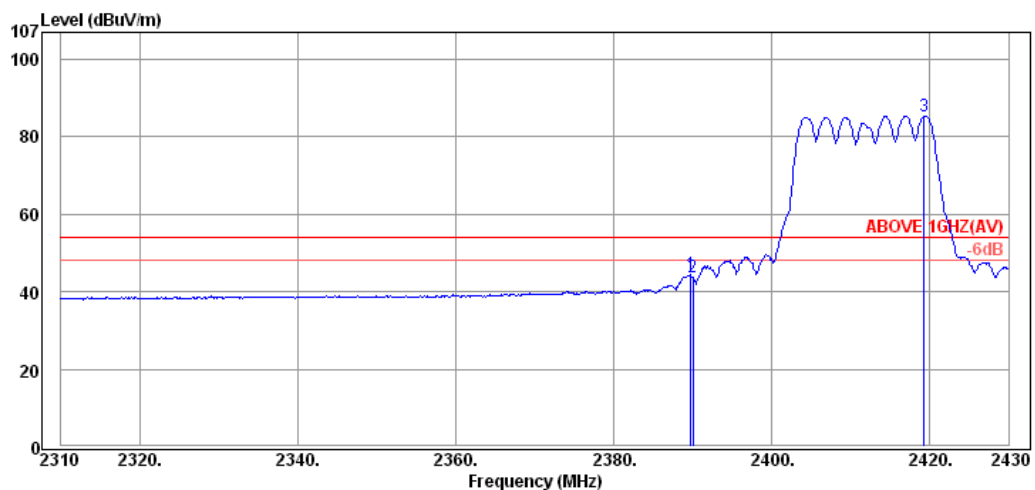
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.30	32.25	6.16	53.78	92.19	---	---	Average
2483.50	32.28	6.19	6.75	45.22	54.00	8.78	Average
2484.10	32.28	6.19	6.14	44.61	54.00	9.39	Average

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

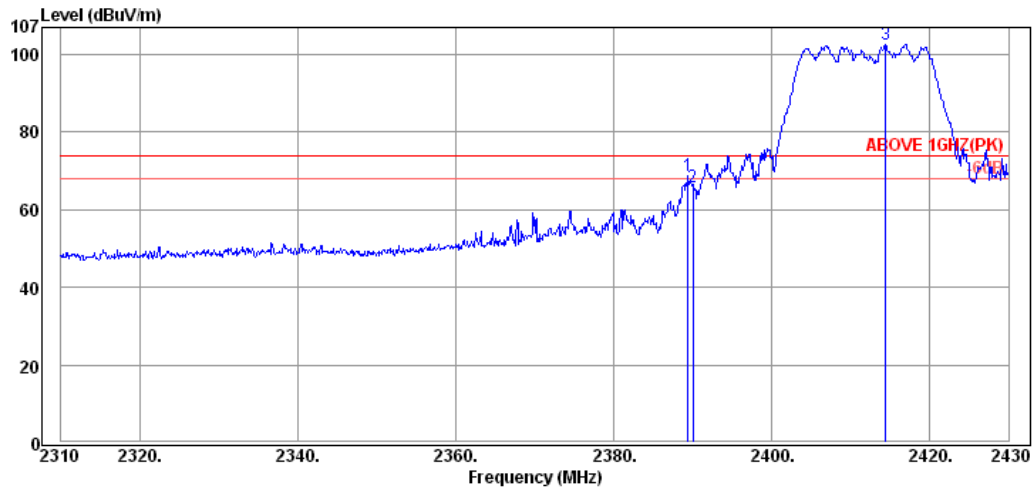
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	6.08	20.95	59.19	74.00	14.81	Peak
2390.04	32.16	6.08	17.89	56.13	74.00	17.87	Peak
2409.48	32.18	6.10	54.95	93.23	---	---	Peak



Antenna at Horizontal Polarization

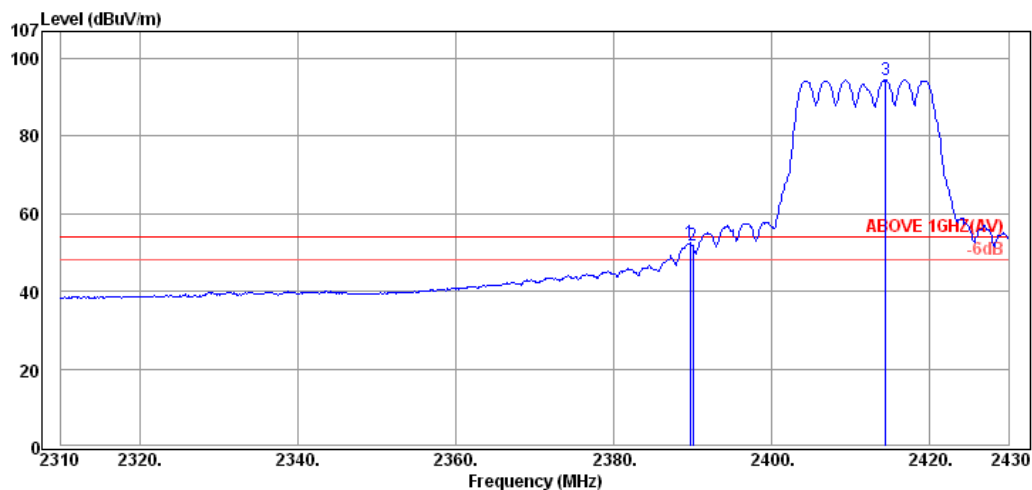
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	6.32	44.56	54.00	9.44	Average
2390.04	32.16	6.08	5.66	43.90	54.00	10.10	Average
2419.32	32.18	6.12	47.04	85.34	---	---	Average

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

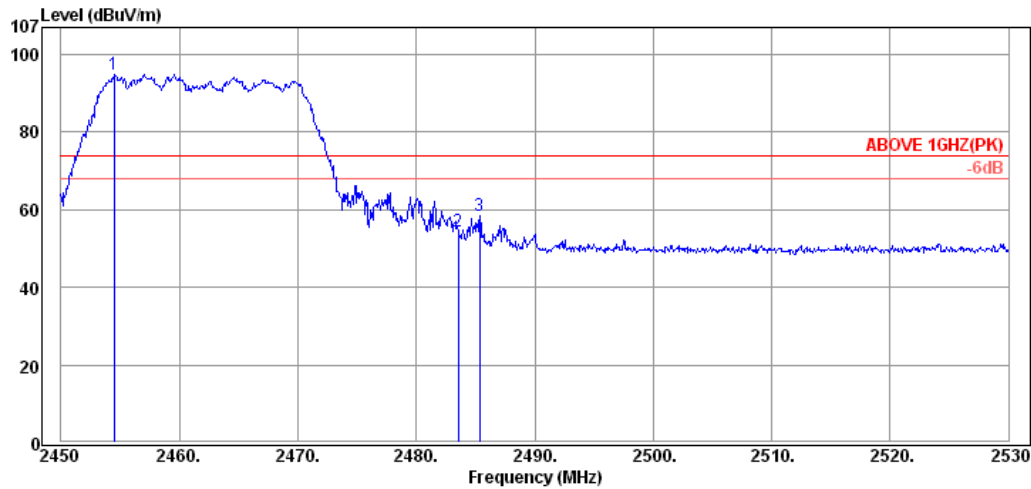
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	6.08	30.41	68.65	74.00	5.35	Peak
2390.04	32.16	6.08	27.63	65.87	74.00	8.13	Peak
2414.40	32.18	6.11	64.26	102.55	---	---	Peak



Antenna at Vertical Polarization

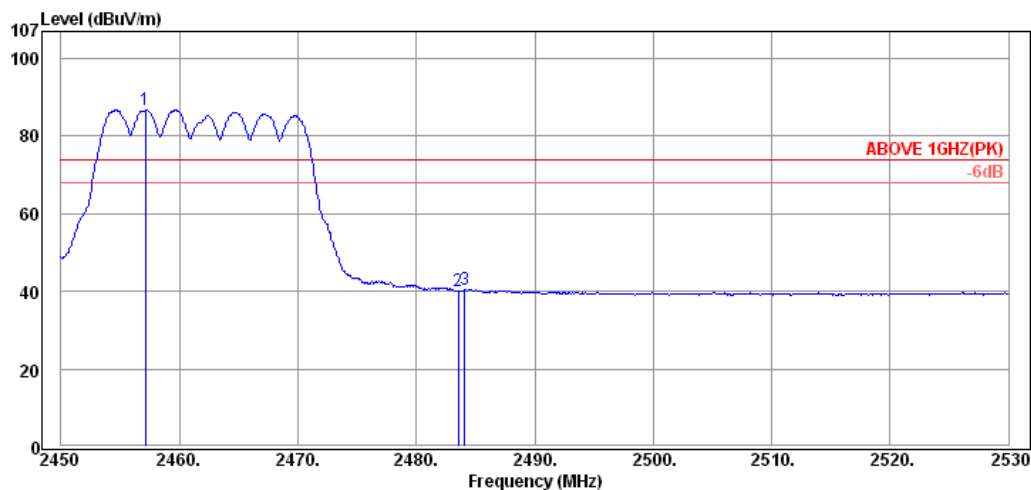
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	14.19	52.43	54.00	1.57	Average
2390.04	32.16	6.08	13.48	51.72	54.00	2.28	Average
2414.40	32.18	6.11	56.21	94.50	---	---	Average

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

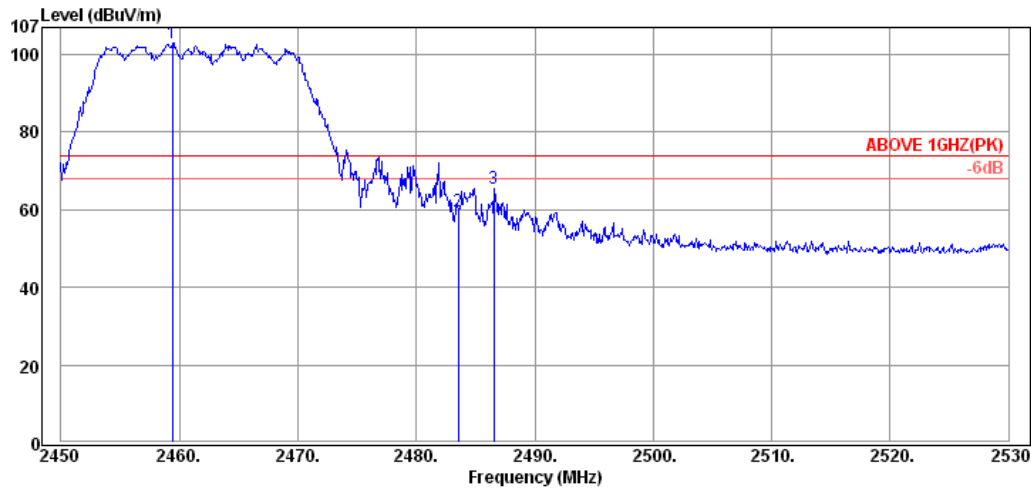
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2454.48	32.25	6.15	56.45	94.85	---	---	Peak
2483.52	32.28	6.19	16.12	54.59	74.00	19.41	Peak
2485.36	32.28	6.19	19.93	58.40	74.00	15.60	Peak



Antenna at Horizontal Polarization

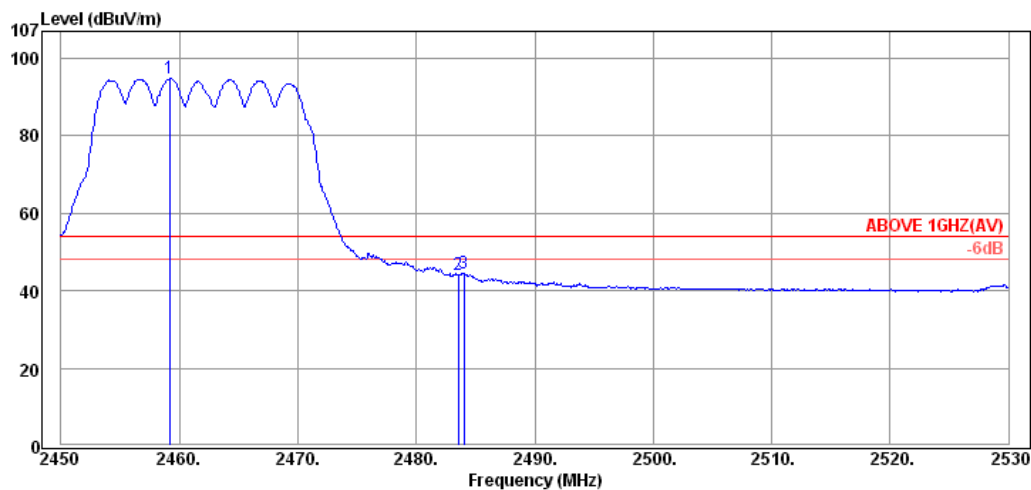
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2457.12	32.25	6.15	48.30	86.70	---	---	Average
2483.52	32.28	6.19	1.71	40.18	54.00	13.82	Average
2484.08	32.28	6.19	2.06	40.53	54.00	13.47	Average

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

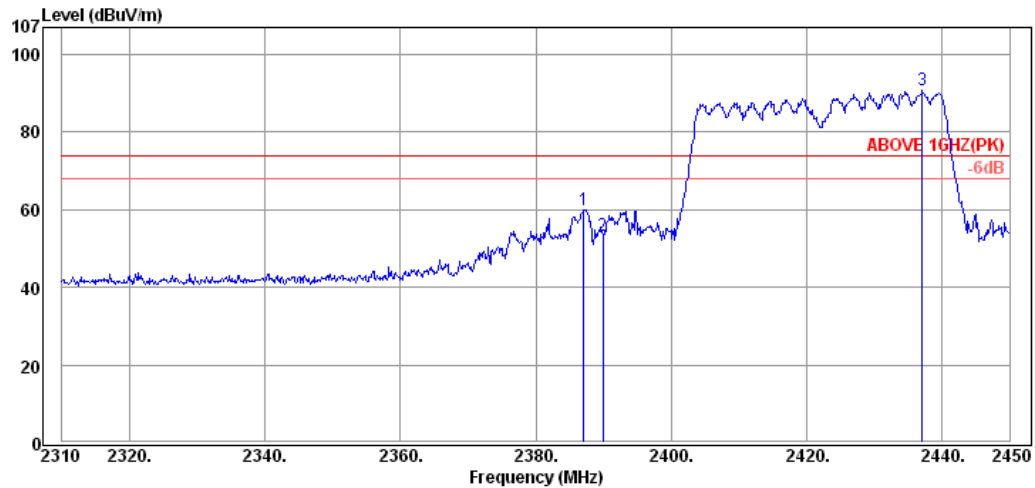
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.44	32.25	6.16	64.49	102.90	---	---	Peak
2483.52	32.28	6.19	21.06	59.53	74.00	14.47	Peak
2486.56	32.28	6.19	26.98	65.45	74.00	8.55	Peak



Antenna at Vertical Polarization

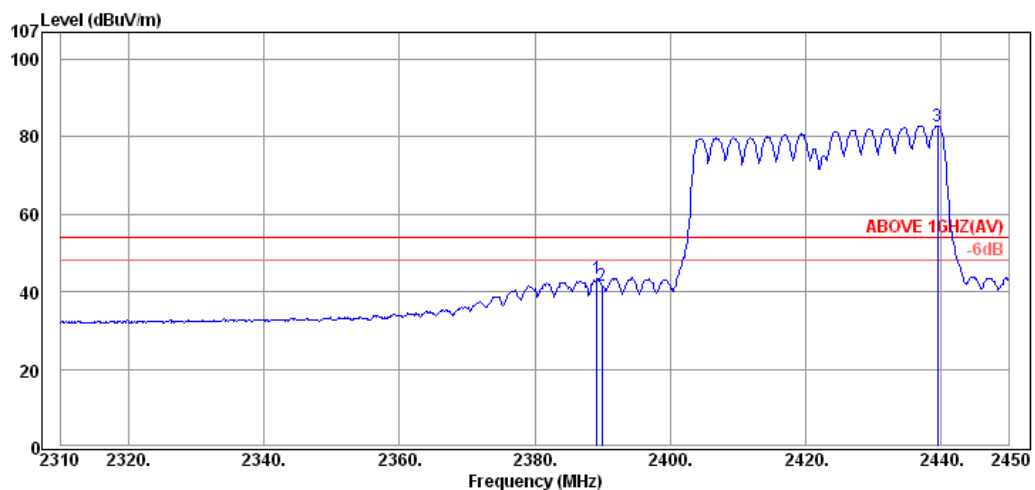
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.20	32.25	6.16	56.35	94.76	---	---	Average
2483.52	32.28	6.19	5.67	44.14	54.00	9.86	Average
2484.00	32.28	6.19	6.16	44.63	54.00	9.37	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

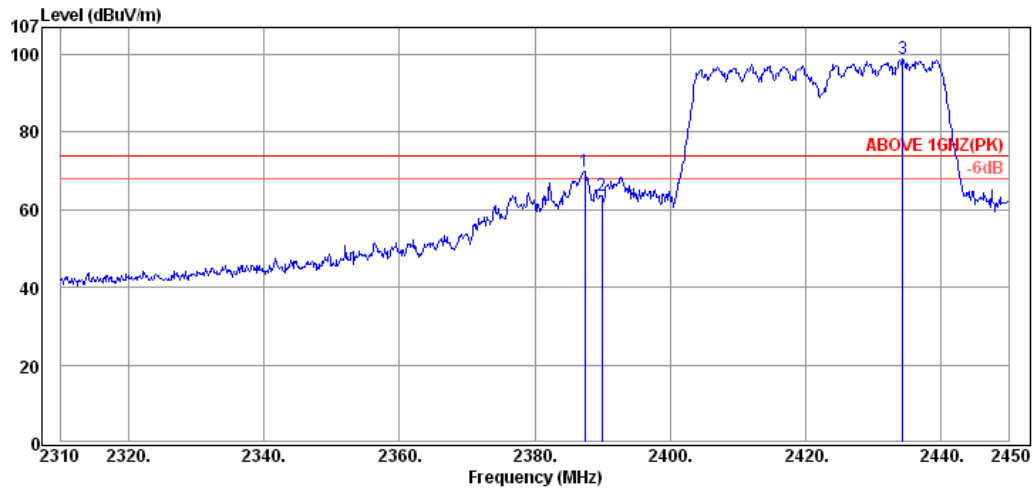
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.14	32.16	6.08	21.84	60.08	74.00	13.92	Peak
2389.94	32.16	6.08	15.05	53.29	74.00	20.71	Peak
2437.12	32.23	6.13	52.47	90.83	---	---	Peak



Antenna at Horizontal Polarization

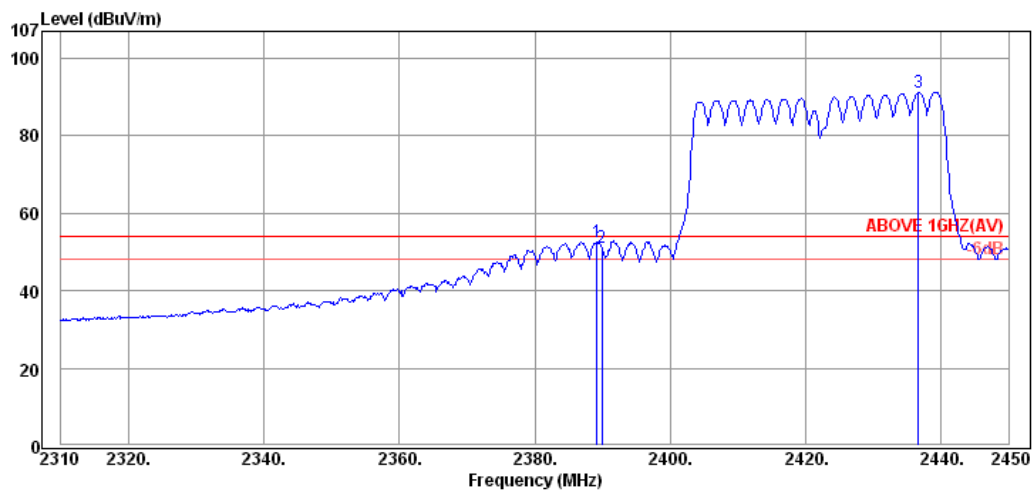
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.24	32.16	6.08	5.10	43.34	54.00	10.66	Average
2389.94	32.16	6.08	3.32	41.56	54.00	12.44	Average
2439.50	32.23	6.13	44.52	82.88	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

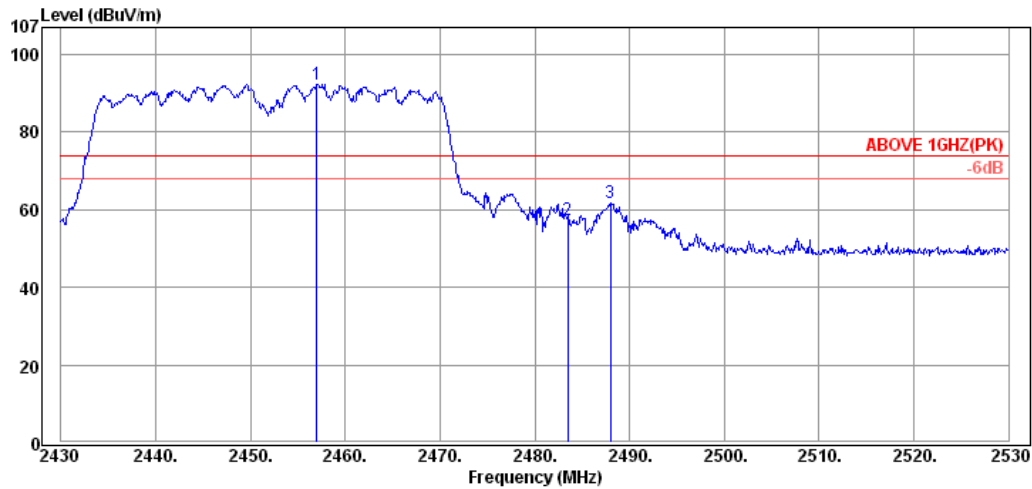
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.42	32.16	6.08	31.62	69.86	74.00	4.14	Peak
2389.94	32.16	6.08	25.47	63.71	74.00	10.29	Peak
2434.32	32.20	6.13	60.43	98.76	---	---	Peak



Antenna at Vertical Polarization

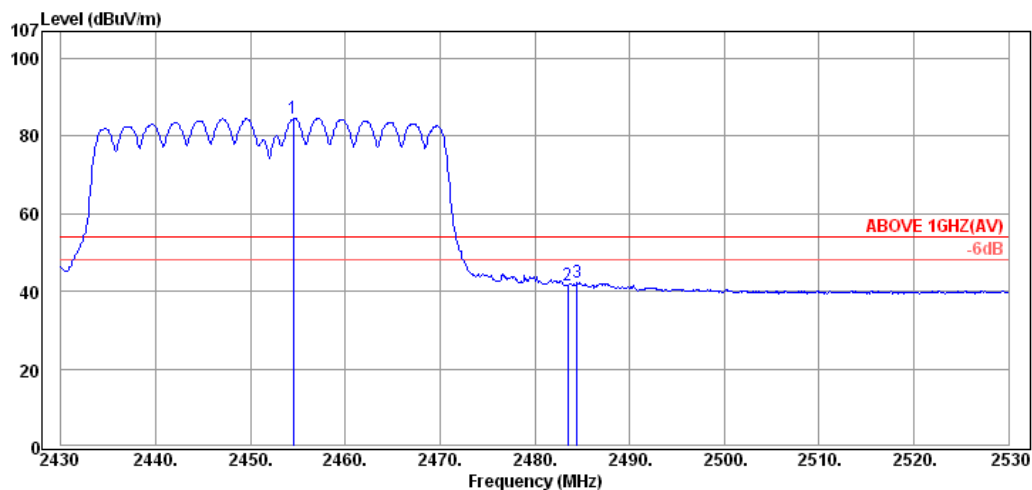
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.24	32.16	6.08	14.49	52.73	54.00	1.27	Average
2389.94	32.16	6.08	12.99	51.23	54.00	2.77	Average
2436.70	32.23	6.13	52.99	91.35	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

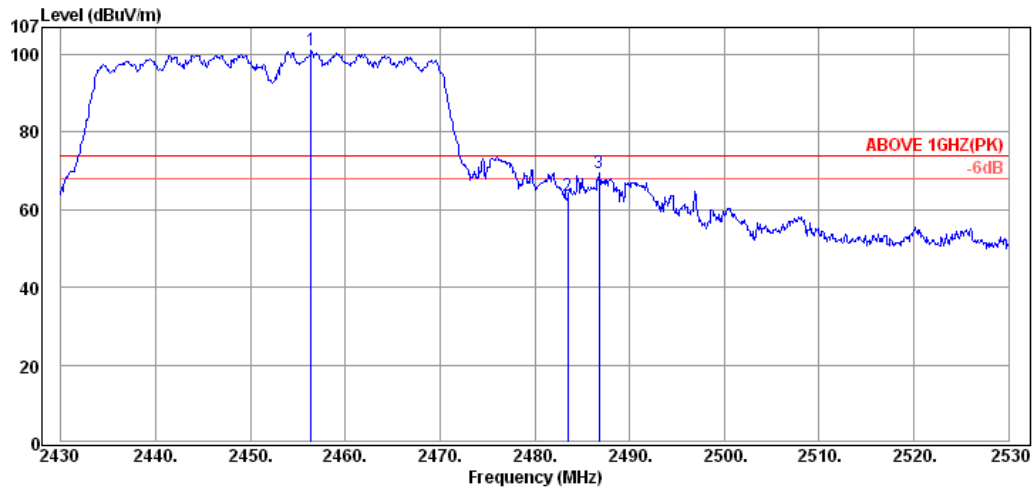
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2457.00	32.25	6.15	53.87	92.27	---	---	Peak
2483.50	32.28	6.19	18.79	57.26	74.00	16.74	Peak
2488.00	32.30	6.19	23.38	61.87	74.00	12.13	Peak



Antenna at Horizontal Polarization

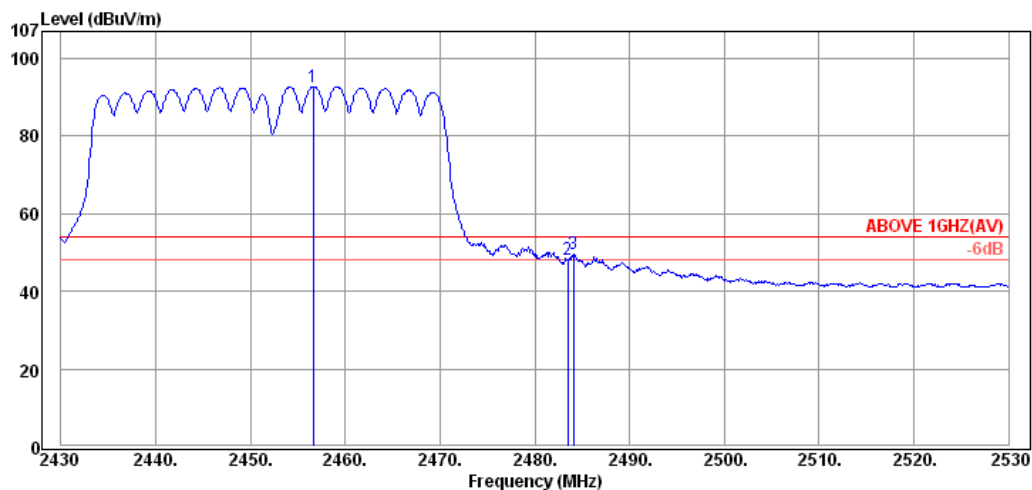
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2454.50	32.25	6.15	46.12	84.52	---	---	Average
2483.50	32.28	6.19	3.02	41.49	54.00	12.51	Average
2484.50	32.28	6.19	3.90	42.37	54.00	11.63	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

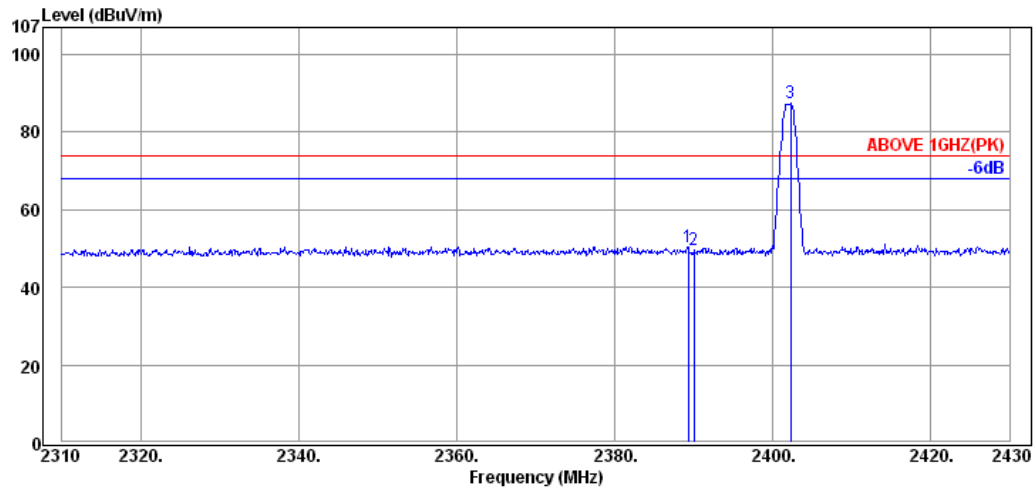
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.40	32.25	6.15	62.55	100.95	---	---	Peak
2483.50	32.28	6.19	25.31	63.78	74.00	10.22	Peak
2486.80	32.28	6.19	31.07	69.54	74.00	4.46	Peak



Antenna at Vertical Polarization

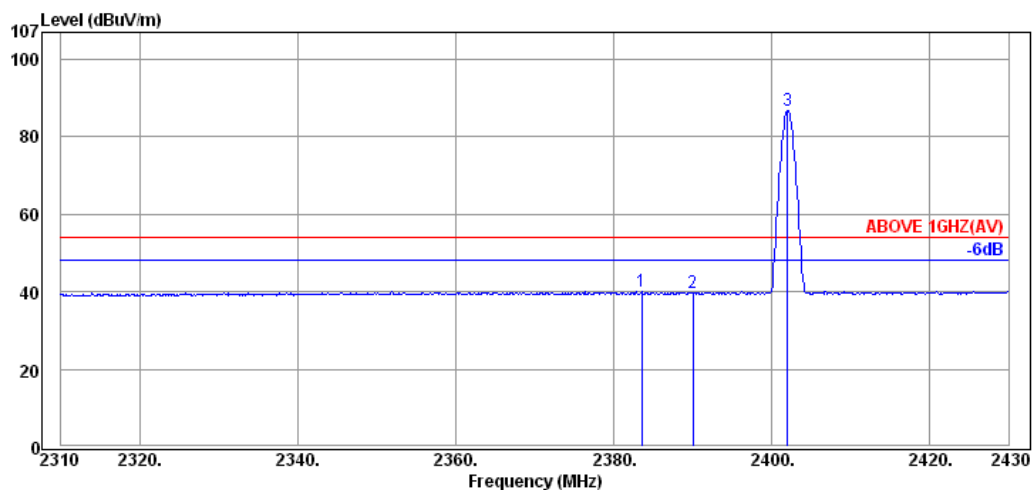
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.60	32.25	6.15	54.42	92.82	---	---	Average
2483.50	32.28	6.19	9.68	48.15	54.00	5.85	Average
2484.10	32.28	6.19	11.09	49.56	54.00	4.44	Average

Mode	BLE	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

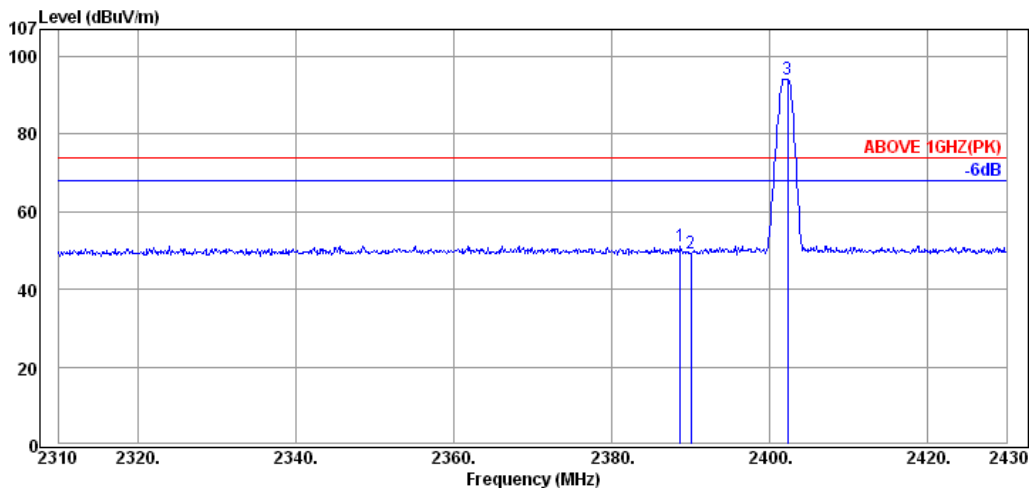
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	6.08	12.31	50.55	74.00	23.45	Peak
2390.04	32.16	6.08	11.26	49.50	74.00	24.50	Peak
2402.28	32.16	6.09	49.09	87.34	---	---	Peak



Antenna at Horizontal Polarization

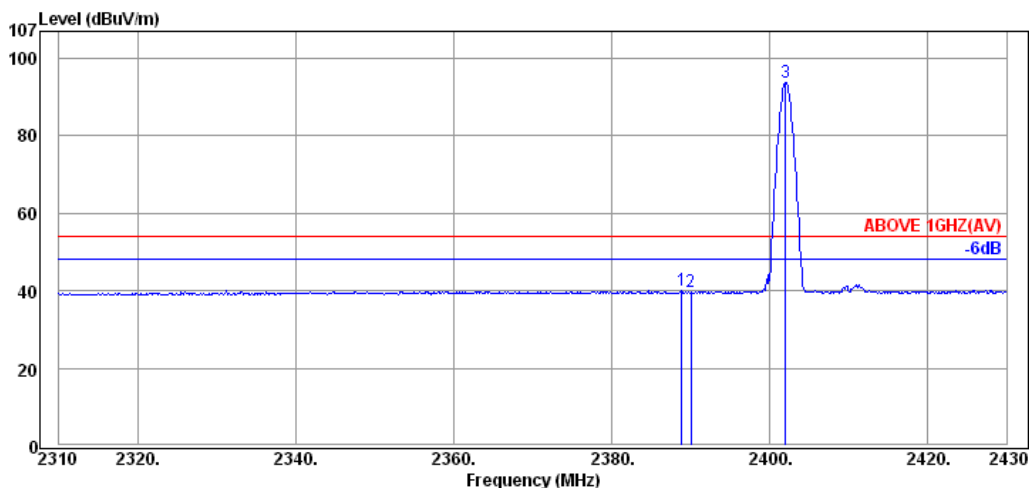
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2383.56	32.13	6.07	1.90	40.10	54.00	13.90	Average
2390.04	32.16	6.08	1.39	39.63	54.00	14.37	Average
2402.04	32.16	6.09	48.53	86.78	---	---	Average

Mode	BLE	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

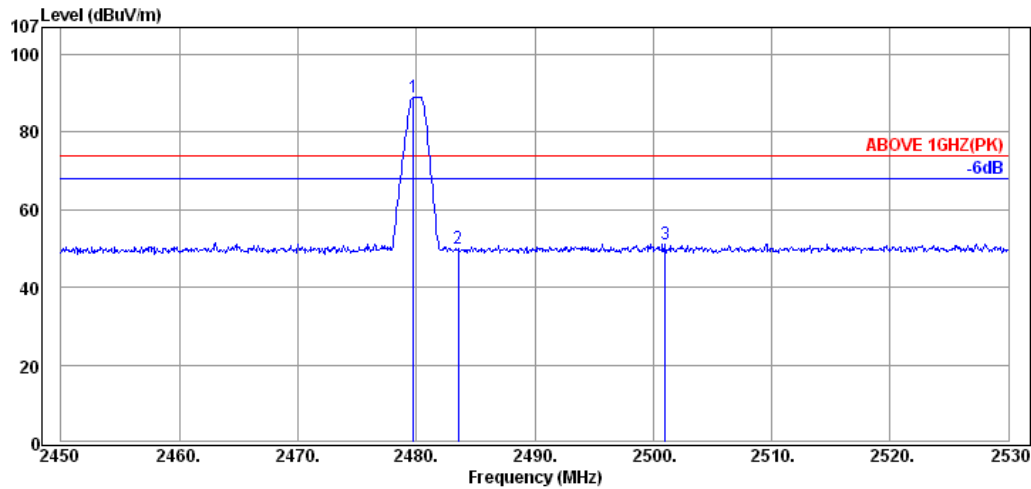
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.72	32.16	6.08	12.95	51.19	74.00	22.81	Peak
2390.04	32.16	6.08	10.99	49.23	74.00	24.77	Peak
2402.28	32.16	6.09	55.98	94.23	---	---	Peak



Antenna at Vertical Polarization

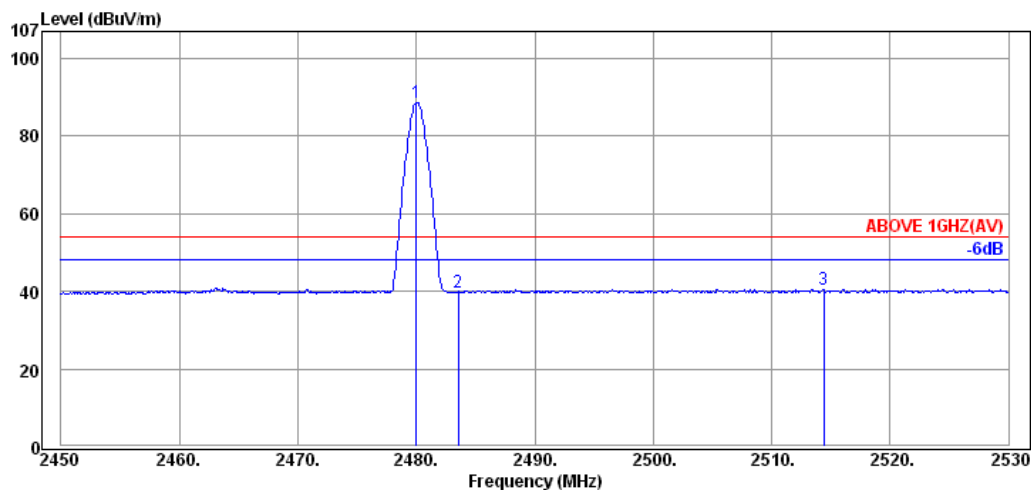
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.84	32.16	6.08	1.77	40.01	54.00	13.99	Average
2390.04	32.16	6.08	1.33	39.57	54.00	14.43	Average
2402.04	32.16	6.09	55.54	93.79	---	---	Average

Mode	BLE	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

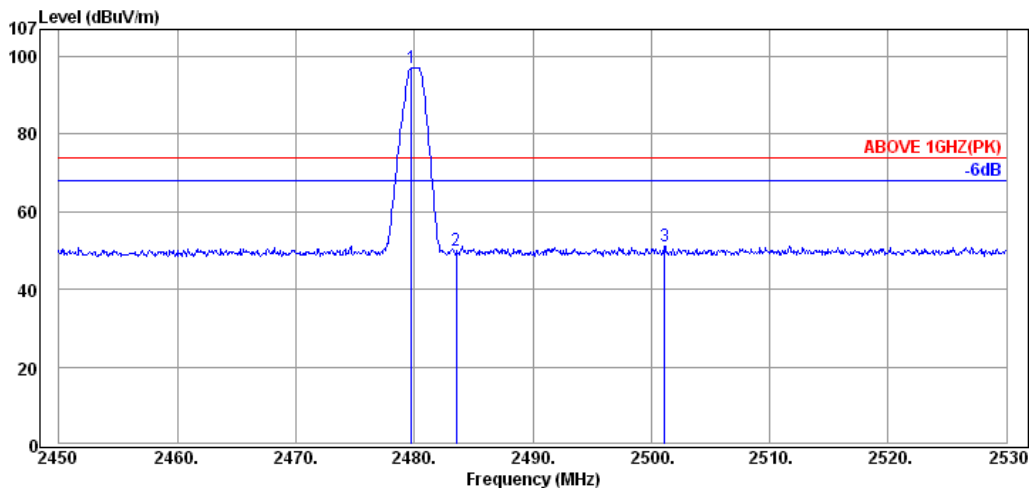
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2479.76	32.28	6.18	50.68	89.14	---	---	Peak
2483.52	32.28	6.19	11.44	49.91	74.00	24.09	Peak
2501.04	32.30	6.21	12.75	51.26	74.00	22.74	Peak



Antenna at Horizontal Polarization

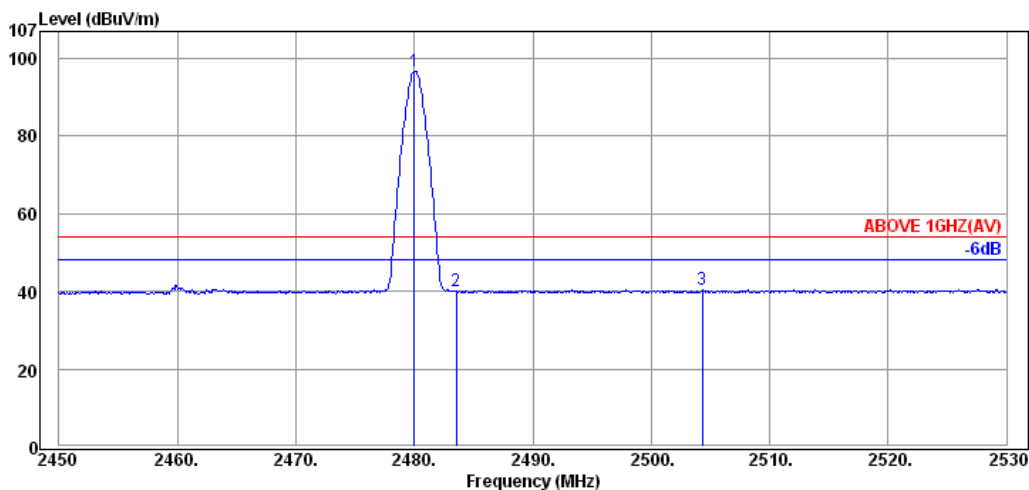
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2480.00	32.28	6.18	50.16	88.62	---	---	Average
2483.52	32.28	6.19	1.35	39.82	54.00	14.18	Average
2514.40	32.32	6.22	2.01	40.55	54.00	13.45	Average

Mode	BLE	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2479.76	32.28	6.18	58.79	97.25	---	---	Peak
2483.52	32.28	6.19	11.43	49.90	74.00	24.10	Peak
2501.12	32.30	6.21	12.72	51.23	74.00	22.77	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2480.00	32.28	6.18	58.31	96.77	---	---	Average
2483.52	32.28	6.19	1.56	40.03	54.00	13.97	Average
2504.32	32.30	6.21	1.89	40.40	54.00	13.60	Average

6.5.3. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4925.00	34.27	9.24	10.12	53.63	54.00	0.37	Peak
7385.00	35.80	12.26	-2.71	45.35	54.00	8.65	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4925.00	34.27	9.24	3.64	47.15	54.00	6.85	Peak
7385.00	35.80	12.26	-0.92	47.14	54.00	6.86	Peak

Mode	802.11g	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.00	34.25	9.14	7.13	50.52	54.00	3.48	Peak
7310.00	35.80	11.80	-1.92	45.68	54.00	8.32	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4875.00	34.25	9.09	1.52	44.86	54.00	9.14	Peak
7310.00	35.80	11.80	-0.61	46.99	54.00	7.01	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4875.00	34.25	9.09	7.54	50.88	54.00	3.12	Peak
7310.00	35.80	11.80	-1.19	46.41	54.00	7.59	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4875.00	34.25	9.09	1.68	45.02	54.00	8.98	Peak
7310.00	35.80	11.80	-2.53	45.07	54.00	8.93	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4875.00	34.25	9.09	7.71	51.05	54.00	2.95	Peak
7310.00	35.80	11.80	-1.08	46.52	54.00	7.48	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.00	34.25	9.14	2.72	46.11	54.00	7.89	Peak
7310.00	35.80	11.80	-2.53	45.07	54.00	8.93	Peak

Mode	BLE	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4805.00	34.22	8.87	0.50	43.59	54.00	10.41	Peak
7205.00	35.80	11.27	-1.82	45.25	54.00	8.75	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4805.00	34.22	8.87	1.59	44.68	54.00	9.32	Peak
7205.00	35.80	11.27	-0.42	46.65	54.00	7.35	Peak

Mode	BLE	Frequency	TX 2440MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.00	34.25	9.14	2.11	45.50	54.00	8.50	Peak
7320.00	35.80	11.80	-1.45	46.15	54.00	7.85	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.00	34.25	9.14	1.69	45.08	54.00	8.92	Peak
7320.00	35.80	11.80	-2.20	45.40	54.00	8.60	Peak

Mode	BLE	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4955.00	34.29	9.35	2.40	46.04	54.00	7.96	Peak
7440.00	35.80	12.56	-2.65	45.71	54.00	8.29	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.00	34.29	9.40	1.93	45.62	54.00	8.38	Peak
7440.00	35.80	12.56	-2.60	45.76	54.00	8.24	Peak

6.5.4. Emissions in Non-restricted Frequency Bands

Pursuant to KDB 558074 D01 v03r05 that emission levels below the 15.209 Section 8.9 table 4 general radiated emissions limits is not required.

7. DEVIATION TO TEST SPECIFICATIONS

【NONE】



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New Taipei City 244, Taiwan

APPENDIX B

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Fax: +886 2 26099303

APPDNDIX A

TEST PHOTOGRAPHS

(Model: AA55WW)

A.1 Conducted Emission Measurement



FRONT VIEW



BACK VIEW

Partner System: 5G AP Server



A.2 Radiated Measurement at Chamber

Frequency Below 1GHz



Frequency Above 1GHz

