

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No..... : MTEB24120139-R2

FCC ID..... : 2AB2Q1340WRGB

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo



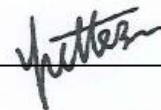
Supervised by

(position+printed name+signature)..: Test Engineer Sunny Deng



Approved by

(position+printed name+signature)..: Manager Yvette Zhou



Date of issue..... : Dec.12,2024

Representative Laboratory Name. : Shenzhen Most Technology Service Co., Ltd.

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : LEEDARSON LIGHTING CO., LTD.

Address..... : Xingda Road, Xingtai Industrial Zone,
Changtai County, Zhangzhou, Fujian, China

Test specification..... :

Standard..... : **FCC Part 15.247**

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : Smart LED Lamp

Trade Mark..... : N/A

Model/Type reference..... : 14cFS-T350SG-C1G-01

Listed Models : 14yFS-T350SG-C1G-xx, 13T6E1240WRGBxx, 14yFS-C350SG-C1G-xx,
13B111240WRGBxx
Where "y" may be "a" to "z", which designates for different enclosure
pattern design;
"xx" may be "0" to "99", which designates for different package of
style.

Modulation Type..... : b: DSSS

g/n: OFDM

Operation Frequency..... : From 2412MHz~2462MHz

Rating..... : AC 120V/60Hz

Hardware version..... : V2.0

Software version : 1.0.2

Result..... : **PASS**

TEST REPORT

Equipment under Test	:	Smart LED Lamp
Model /Type	:	14cFS-T350SG-C1G-01
Listed Models	:	14yFS-T350SG-C1G-xx, 13T6E1240WRGBxx, 14yFS-C350SG-C1G-xx, 13B111240WRGBxx Where “y” may be “a” to “z”, which designates for different enclosure pattern design; “xx” may be “0” to “99”, which designates for different package of style.
Remark		Only model number and enclosure pattern design is different for these model.
Applicant	:	LEEDARSON LIGHTING CO., LTD.
Address	:	Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China
Manufacturer 1	:	LEEDARSON LIGHTING CO., LTD.
Address 1	:	Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou city, Fujian Province, P.R.China
Manufacturer 2	:	LEEDARSON IOT TECHNOLOGY (THAILAND) CO., LTD.
Address 2	:	71, Moo5, Wellgrow Industrial Estate. Bang Samak, Bang Pakong District, Chachoengsao 24130

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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APPENDIX I. Conducted Output Power	错误！未定义书签。
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APPENDIX III. 6dB Bandwidth	错误！未定义书签。
APPENDIX IV. Conducted Out Of Band Emission	错误！未定义书签。
APPENDIX V. Duty Cycle	错误！未定义书签。
APPENDIX VI. Power Spectral Density	错误！未定义书签。

1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.12.12	Initial Issue	Alisa Luo

2 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 v05r02](#): Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2024.12.09
Testing commenced on	:	2024.12.10
Testing concluded on	:	2024.12.12

3.2 Product Description

Product Name:	Smart LED Lamp
Model/Type reference:	14cFS-T350SG-C1G-01
Power Supply:	AC 120V/60Hz
Testing sample ID:	MTYP07769
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	b: DSSS g/n: OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	Internal monopole antenna
Antenna gain:	-2.39 dBi

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☒ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☐ Other (specified in blank below)	

3.4 Short description of the Equipment under Test (EUT)

This is a Smart LED Lamp For more details, refer to the user's manual of the EUT.

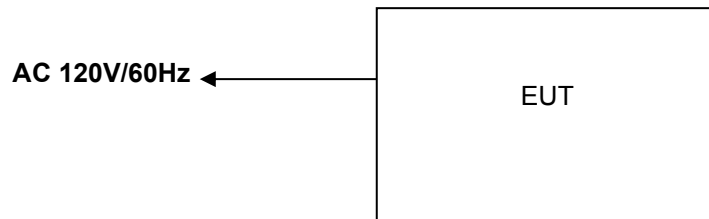
3.5 EUT operation mode

The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	/	/	/	/
AE 2	/	/	/	/

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	Internal monopole antenna	2.4–2.5 GHz	---	-2.39 dBi
Antenna 2					

*: declared by the applicant.

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AB2Q1340WRGB** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3.11 Modifications

No modifications were implemented to meet testing criteria.

3.12 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - Supplied by the lab

●	ADAPTER	M/N:	/
		Manufacturer:	/

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	24 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	6.5Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	6.5Mbps	3/9

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)
6dB Bandwidth	/	5%	(1)
Maximum Conducted Output Power	/	0.80dB	(1)
Spurious RF Conducted Emission	/	1.6dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Equipments Used during the Test

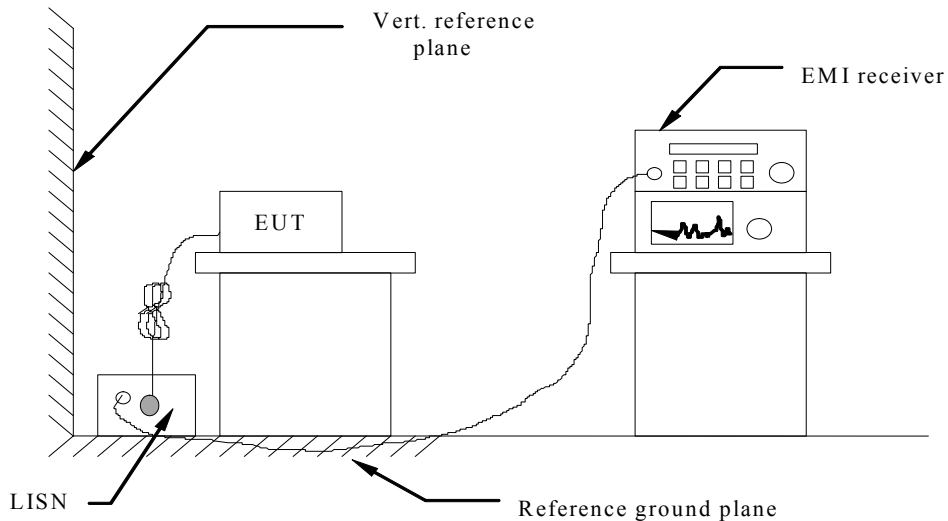
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2024/03/15
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2024/03/15
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2024/03/15
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2024/03/15
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2024/03/15
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2024/08/14
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2024/03/15
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2024/03/15
9	Horn antenna	R&S	OBH100400	26999002	/	2024/03/15
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2024/03/15
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2024/03/15
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2024/03/15
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2024/03/15
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2024/03/15
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2024/03/15
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2024/03/15
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2024/03/15
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2024/03/15
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2024/03/15
20	Power meter	R&S	NRVS	100444	/	2024/03/15

Note: The Cal.Interval was one year.

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

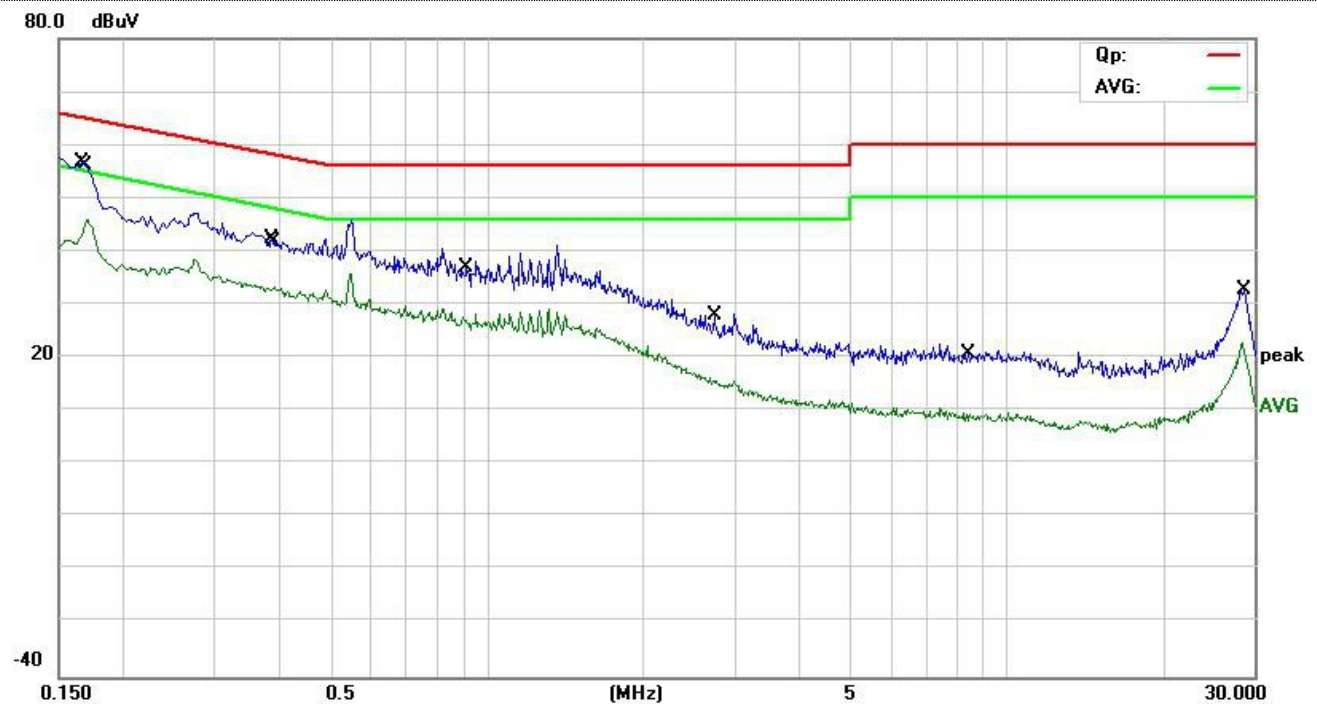
Remark:

1. WIFI modes were test at 802.11b/802.11g/802.11n (H20) /802.11n (H40) (Low, Middle, and High channel); only the worst result of 802.11b Middle Channel was reported as below:

Power supply: AC 120/60Hz

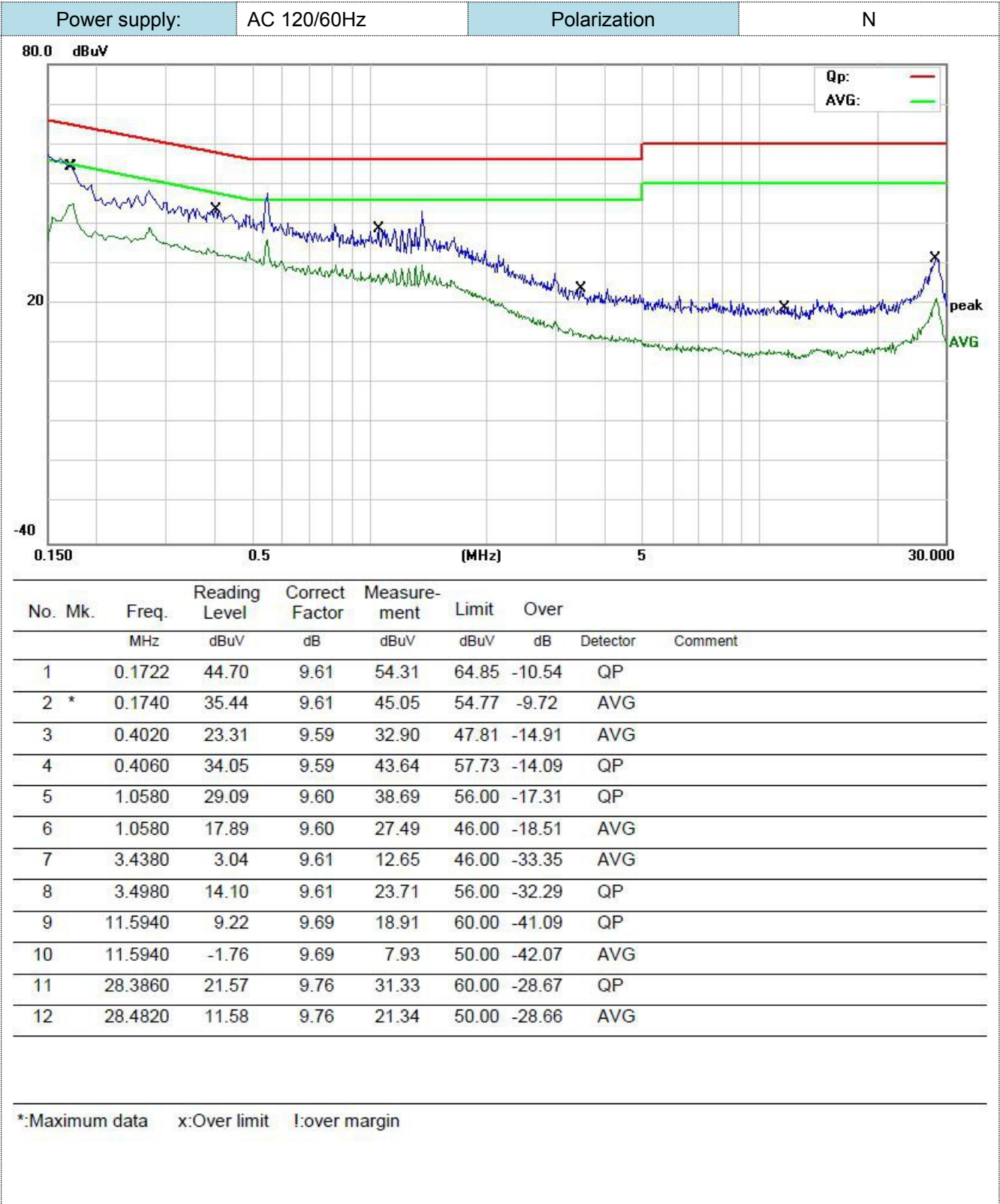
Polarization

L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1677	46.83	9.61	56.44	65.07	-8.63	QP	
2		0.1700	36.30	9.61	45.91	54.96	-9.05	AVG	
3		0.3860	32.86	9.59	42.45	58.15	-15.70	QP	
4		0.3900	23.76	9.59	33.35	48.06	-14.71	AVG	
5		0.9020	18.00	9.60	27.60	46.00	-18.40	AVG	
6		0.9180	27.43	9.60	37.03	56.00	-18.97	QP	
7		2.7500	18.36	9.61	27.97	56.00	-28.03	QP	
8		2.7500	6.11	9.61	15.72	46.00	-30.28	AVG	
9		8.4900	11.15	9.67	20.82	60.00	-39.18	QP	
10		8.5460	-0.42	9.67	9.25	50.00	-40.75	AVG	
11		28.4820	13.04	9.76	22.80	50.00	-27.20	AVG	
12		28.6700	23.10	9.76	32.86	60.00	-27.14	QP	

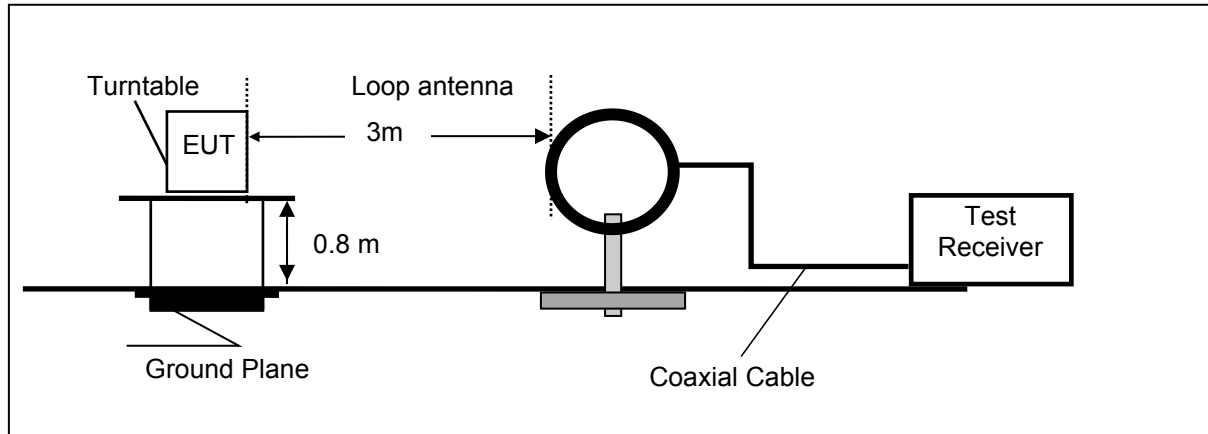
*:Maximum data x:Over limit !:over margin



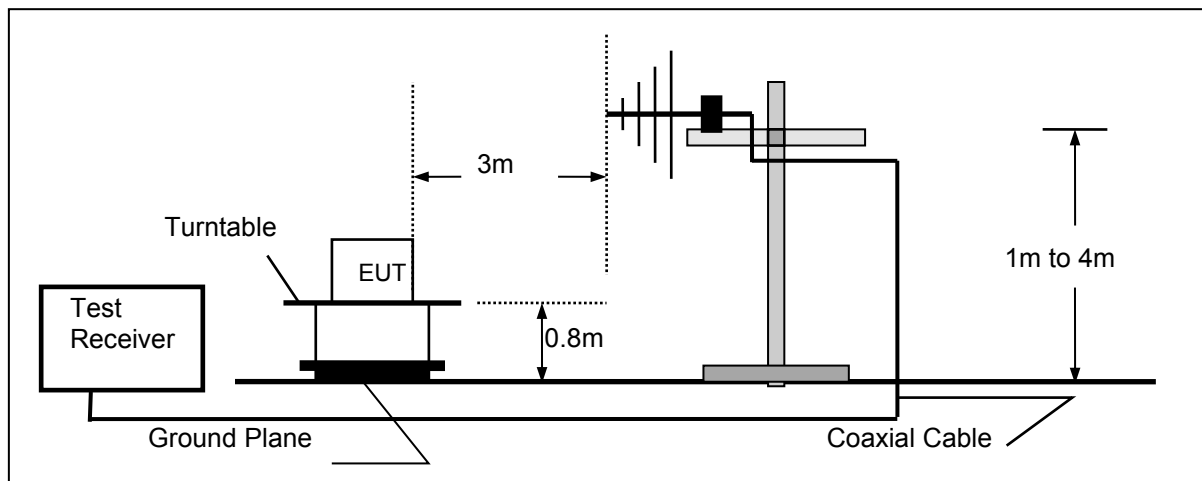
5.2 Radiated Emission

TEST CONFIGURATION

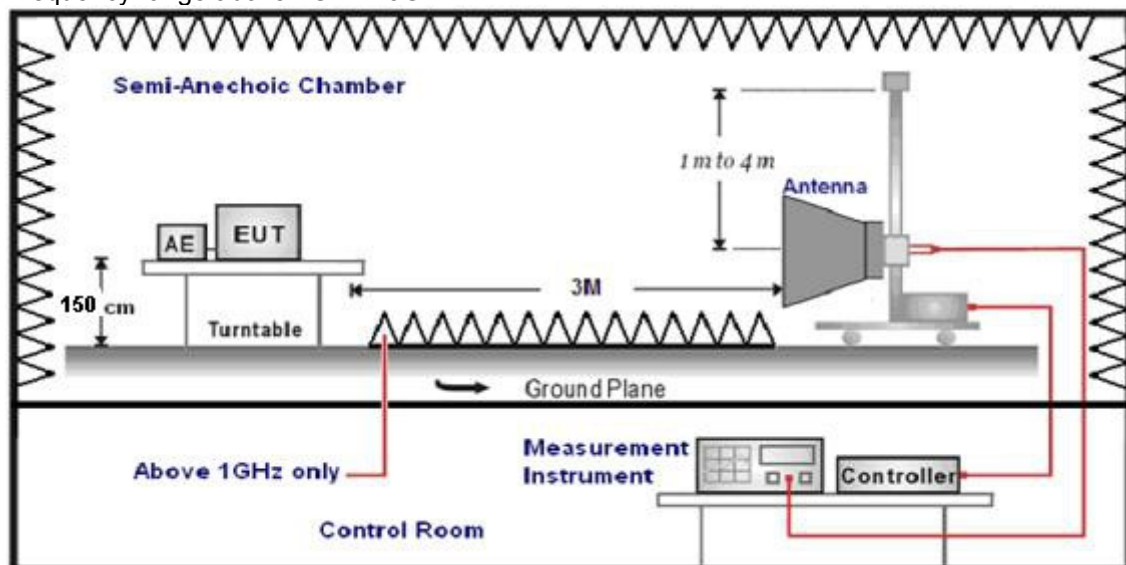
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd}=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT 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 desired power.

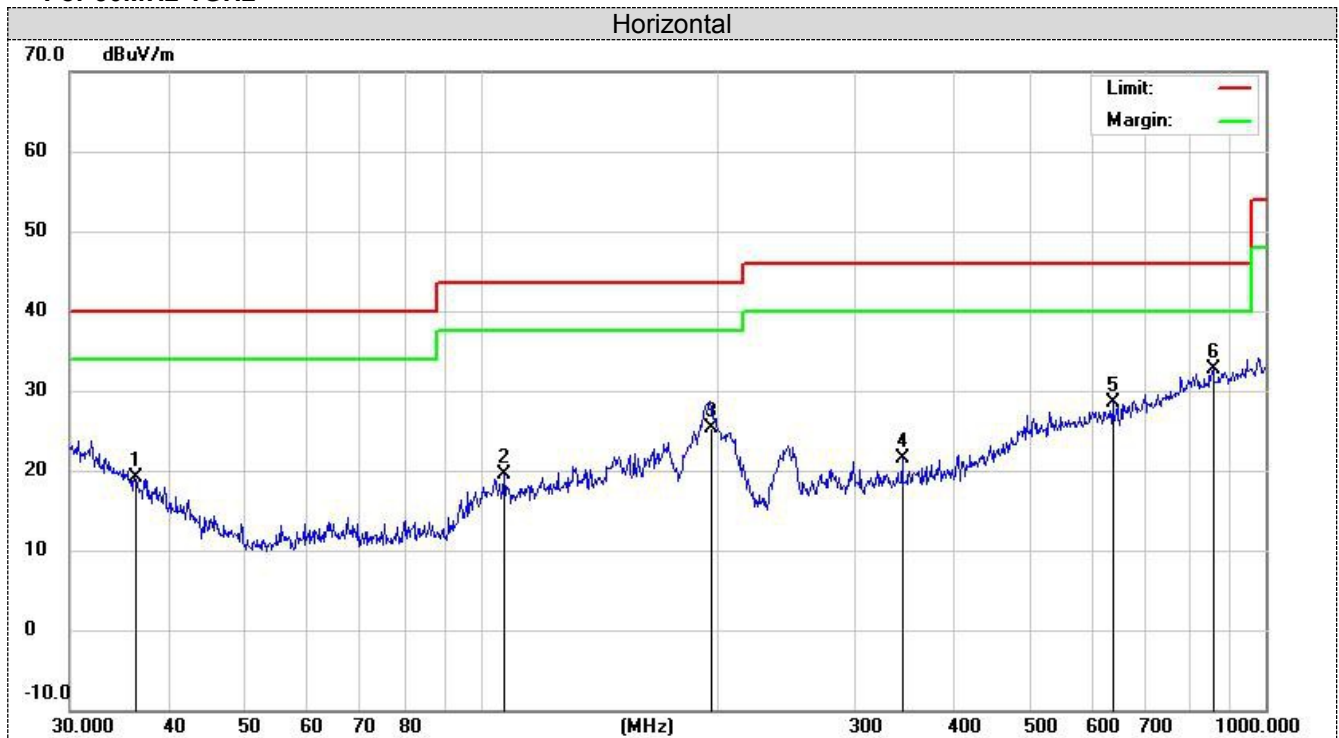
The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	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

TEST RESULTS

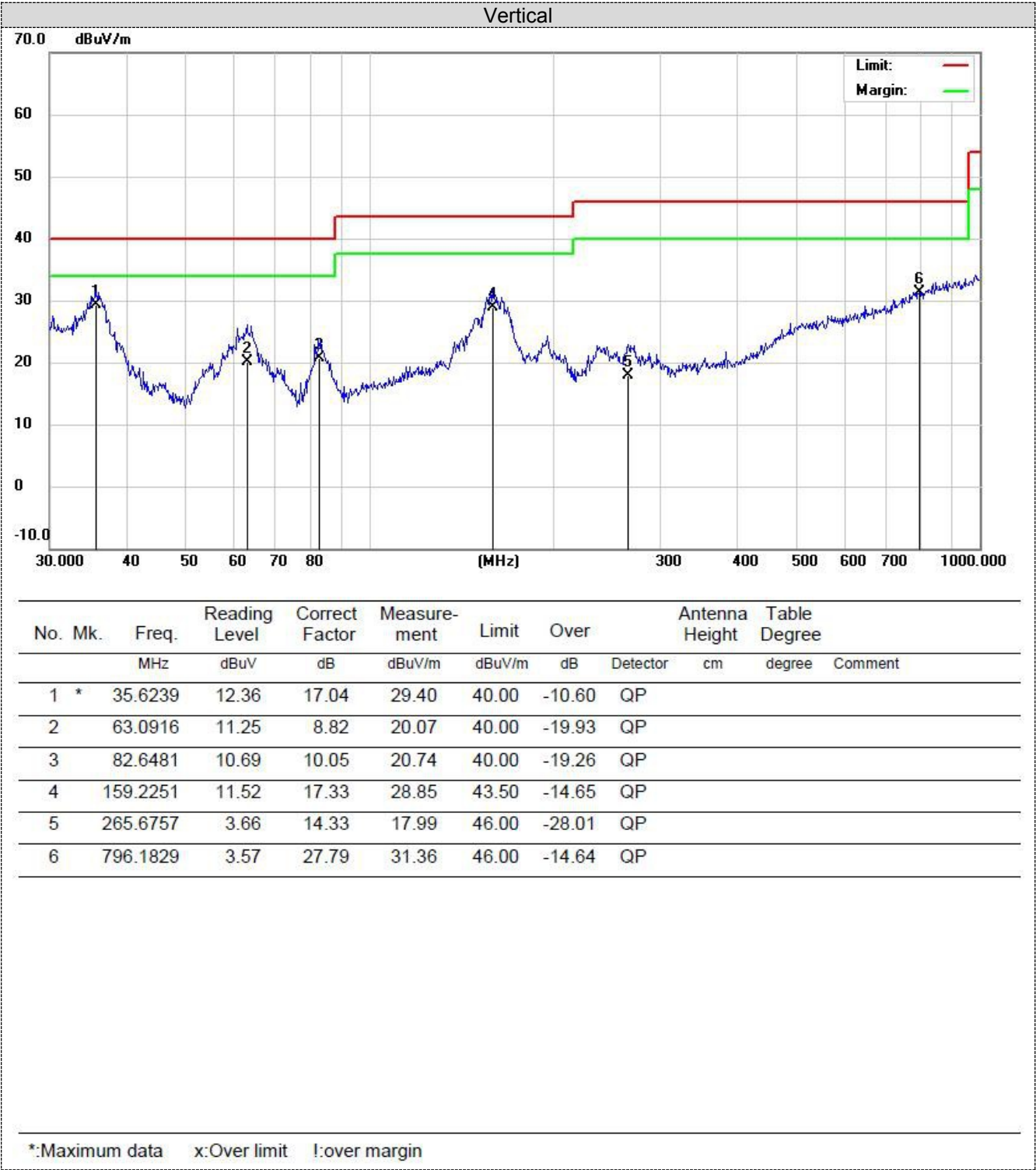
Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
4. Remark: Result=Reading value+Factor

For 30MHz-1GHz

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		36.2541	2.46	16.57	19.03	40.00	-20.97	QP		
2		107.1337	5.03	14.38	19.41	43.50	-24.09	QP		
3		195.8220	10.32	15.07	25.39	43.50	-18.11	QP		
4		344.3855	5.15	16.34	21.49	46.00	-24.51	QP		
5		638.3686	4.17	24.30	28.47	46.00	-17.53	QP		
6	*	857.0247	4.26	28.53	32.79	46.00	-13.21	QP		

*:Maximum data x:Over limit !:over margin



For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20) /802.11n (H40) all have been tested, only worse case 802.11b mode is reported

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11b-2412MHz									
V	4824	56.76	30.28	7.01	36.5	57.55	74	16.45	PK
V	4824	41.36	30.28	7.01	36.5	42.15	54	11.85	AV
H	4824	53.24	30.28	7.01	36.5	54.03	74	19.97	PK
H	4824	43.05	30.28	7.01	36.5	43.84	54	10.16	AV
V	7236	42.92	36.59	8.91	35.3	53.12	74	20.88	PK
V	7236	31.81	36.59	8.91	35.3	42.01	54	11.99	AV
H	7236	41.17	36.59	8.91	35.3	51.37	74	22.63	PK
H	7236	31.56	36.59	8.91	35.3	41.76	54	12.24	AV
802.11b -2437MHz									
V	4874	53.33	30.36	7.62	36.5	54.81	74	19.19	PK
V	4874	40.53	30.36	7.62	36.5	42.01	54	11.99	AV
H	4874	57.48	30.36	7.62	36.5	58.96	74	15.04	PK
H	4874	41.64	30.36	7.62	36.5	43.12	54	10.88	AV
V	7311	41.88	36.61	8.84	35.3	52.03	74	21.97	PK
V	7311	29.96	36.61	8.84	35.3	40.11	54	13.89	AV
H	7311	41.43	36.61	8.84	35.3	51.58	74	22.42	PK
H	7311	31.3	36.61	8.84	35.3	41.45	54	12.55	AV
802.11b -2462MHz									
V	4924	56.05	30.43	7.94	36.2	58.22	74	15.78	PK
V	4924	41.64	30.43	7.94	36.2	43.81	54	10.19	AV
H	4924	56.21	30.43	7.94	36.2	58.38	74	15.62	PK
H	4924	42.6	30.43	7.94	36.2	44.77	54	9.23	AV
V	7386	44	36.78	8.45	35.3	53.93	74	20.07	PK
V	7386	30.62	36.78	8.45	35.3	40.55	54	13.45	AV
H	7386	39.67	36.78	8.45	35.3	49.6	74	24.4	PK
H	7386	31.62	36.78	8.45	35.3	41.55	54	12.45	AV

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11b -2412MHz									
V	2390	58.64	27.49	3.32	36.22	53.23	74	20.77	PK
V	2390	44.7	27.49	3.32	36.22	39.29	54	14.71	AV
H	2390	58.09	27.49	3.32	36.22	52.68	74	21.32	PK
H	2390	45.39	27.49	3.32	36.22	39.98	54	14.02	AV
V	2400	59.39	27.55	3.41	36.22	54.13	74	19.87	PK
V	2400	47.17	27.55	3.41	36.22	41.91	54	12.09	AV
H	2400	59.53	27.55	3.41	36.22	54.27	74	19.73	PK
H	2400	43.75	27.55	3.41	36.22	38.49	54	15.51	AV
802.11b -2462MHz									
V	2483.5	58.64	27.45	3.38	36.34	53.13	74	20.87	PK
V	2483.5	45.36	27.45	3.38	36.34	39.85	54	14.15	AV
H	2483.5	56.6	27.45	3.38	36.34	51.09	74	22.91	PK
H	2483.5	47.28	27.45	3.38	36.34	41.77	54	12.23	AV
V	2500	57.12	27.41	3.47	36.35	51.65	74	22.35	PK
V	2500	44.87	27.41	3.47	36.35	39.4	54	14.6	AV
H	2500	58.38	27.41	3.47	36.35	52.91	74	21.09	PK
H	2500	44.32	27.41	3.47	36.35	38.85	54	15.15	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11g -2412MHz									
V	2390	57.11	27.49	3.32	36.22	51.7	74	22.3	PK
V	2390	43.22	27.49	3.32	36.22	37.81	54	16.19	AV
H	2390	59.86	27.49	3.32	36.22	54.45	74	19.55	PK
H	2390	45.89	27.49	3.32	36.22	40.48	54	13.52	AV
V	2400	57.85	27.55	3.41	36.22	52.59	74	21.41	PK
V	2400	47.76	27.55	3.41	36.22	42.5	54	11.5	AV
H	2400	59.1	27.55	3.41	36.22	53.84	74	20.16	PK
H	2400	44.1	27.55	3.41	36.22	38.84	54	15.16	AV
802.11g -2462MHz									
V	2483.5	57.1	27.45	3.38	36.34	51.59	74	22.41	PK
V	2483.5	44.61	27.45	3.38	36.34	39.1	54	14.9	AV
H	2483.5	58.27	27.45	3.38	36.34	52.76	74	21.24	PK
H	2483.5	46.77	27.45	3.38	36.34	41.26	54	12.74	AV
V	2500	55.66	27.41	3.47	36.35	50.19	74	23.81	PK
V	2500	47.88	27.41	3.47	36.35	42.41	54	11.59	AV
H	2500	56.35	27.41	3.47	36.35	50.88	74	23.12	PK
H	2500	46.33	27.41	3.47	36.35	40.86	54	13.14	AV

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT20) -2412MHz									
V	2390	57.13	27.49	3.32	36.22	51.72	74	22.28	PK
V	2390	44.56	27.49	3.32	36.22	39.15	54	14.85	AV
H	2390	56	27.49	3.32	36.22	50.59	74	23.41	PK
H	2390	46.59	27.49	3.32	36.22	41.18	54	12.82	AV
V	2400	56.06	27.55	3.41	36.22	50.8	74	23.2	PK
V	2400	46.95	27.55	3.41	36.22	41.69	54	12.31	AV
H	2400	55.1	27.55	3.41	36.22	49.84	74	24.16	PK
H	2400	46.77	27.55	3.41	36.22	41.51	54	12.49	AV
802.11n(HT20) -2462MHz									
V	2483.5	55.17	27.45	3.38	36.34	49.66	74	24.34	PK
V	2483.5	47.49	27.45	3.38	36.34	41.98	54	12.02	AV
H	2483.5	58.58	27.45	3.38	36.34	53.07	74	20.93	PK
H	2483.5	46.41	27.45	3.38	36.34	40.9	54	13.1	AV
V	2500	59.64	27.41	3.47	36.35	54.17	74	19.83	PK
V	2500	47.36	27.41	3.47	36.35	41.89	54	12.11	AV
H	2500	59.19	27.41	3.47	36.35	53.72	74	20.28	PK
H	2500	45.95	27.41	3.47	36.35	40.48	54	13.52	AV

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT40) -2422MHz									
V	2390	59.53	27.49	3.32	36.22	54.12	74	19.88	PK
V	2390	43.85	27.49	3.32	36.22	38.44	54	15.56	AV
H	2390	55.67	27.49	3.32	36.22	50.26	74	23.74	PK
H	2390	43.29	27.49	3.32	36.22	37.88	54	16.12	AV
V	2400	57.44	27.55	3.41	36.22	52.18	74	21.82	PK
V	2400	46.97	27.55	3.41	36.22	41.71	54	12.29	AV
H	2400	56.62	27.55	3.41	36.22	51.36	74	22.64	PK
H	2400	44.47	27.55	3.41	36.22	39.21	54	14.79	AV
802.11n(HT40) -2452MHz									
V	2483.5	59.5	27.45	3.38	36.34	53.99	74	20.01	PK
V	2483.5	45.15	27.45	3.38	36.34	39.64	54	14.36	AV
H	2483.5	57.11	27.45	3.38	36.34	51.6	74	22.4	PK
H	2483.5	46.86	27.45	3.38	36.34	41.35	54	12.65	AV
V	2500	55.13	27.41	3.47	36.35	49.66	74	24.34	PK
V	2500	44.88	27.41	3.47	36.35	39.41	54	14.59	AV
H	2500	58.2	27.41	3.47	36.35	52.73	74	21.27	PK
H	2500	45.38	27.41	3.47	36.35	39.91	54	14.09	AV

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

5.3 Maximum Conducted Output Power

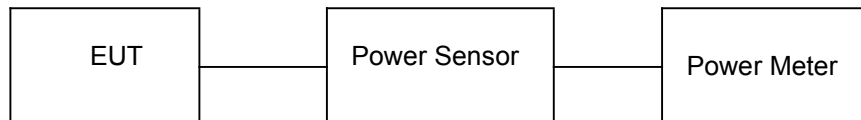
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

See Appendix I

5.4 Power Spectral Density

Limit

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

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
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 power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

See Appendix VI

5.5 6dB Bandwidth

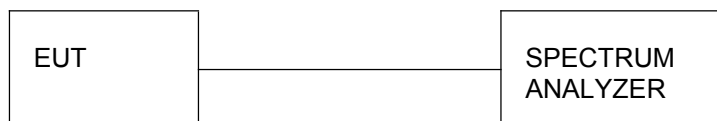
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

See Appendix III

5.6 Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



Test Results

See Appendix IV

5.7 Duty Cycle Information

See Appendix V

5.8 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

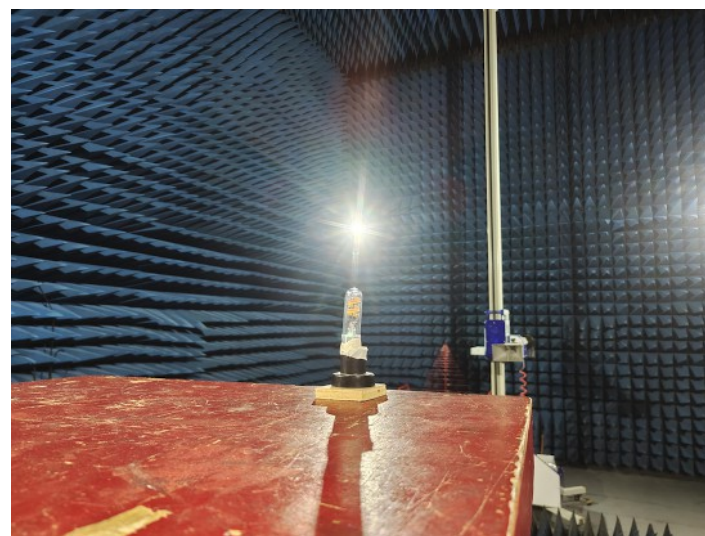
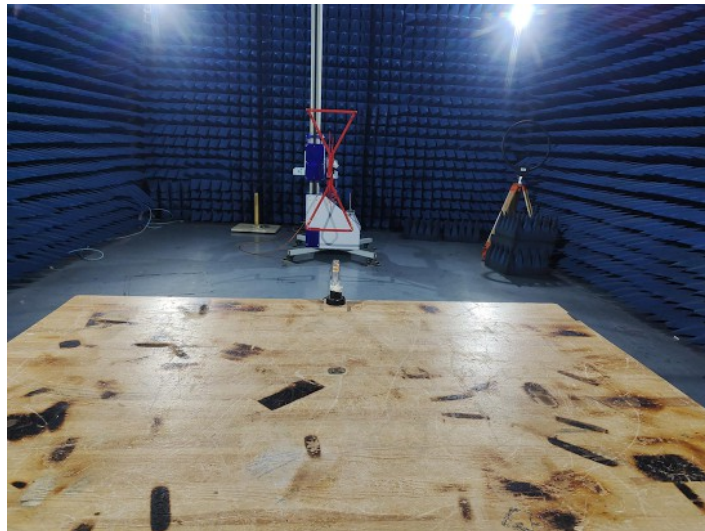
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The directional gains of antenna used for transmitting is -2.39 dBi, and the antenna is an Internal monopole antenna and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT



7 Photos of the EUT

See related photo report.

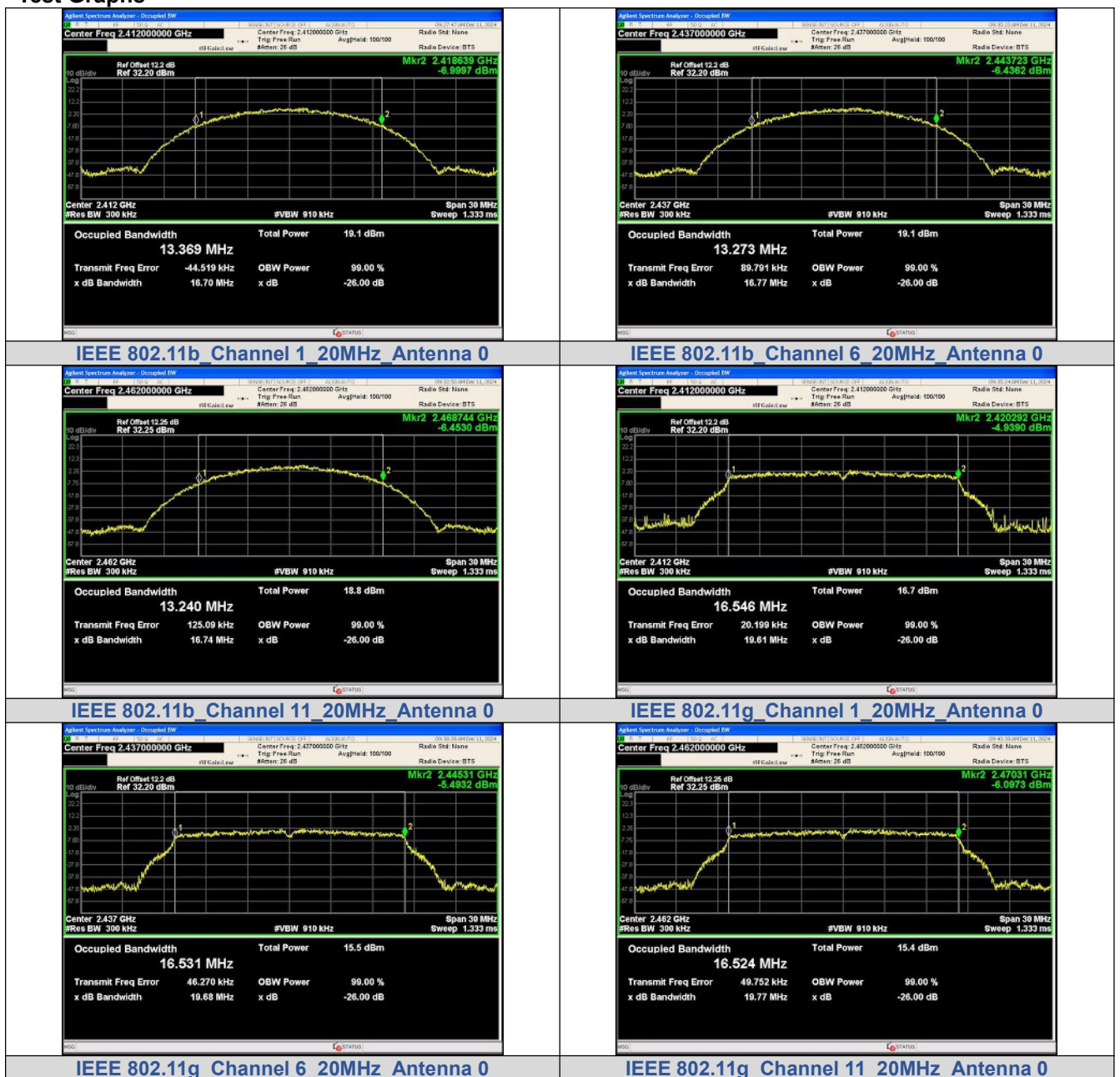
APPENDIX I. Conducted Output Power**Test Result****Conducted Output Power**

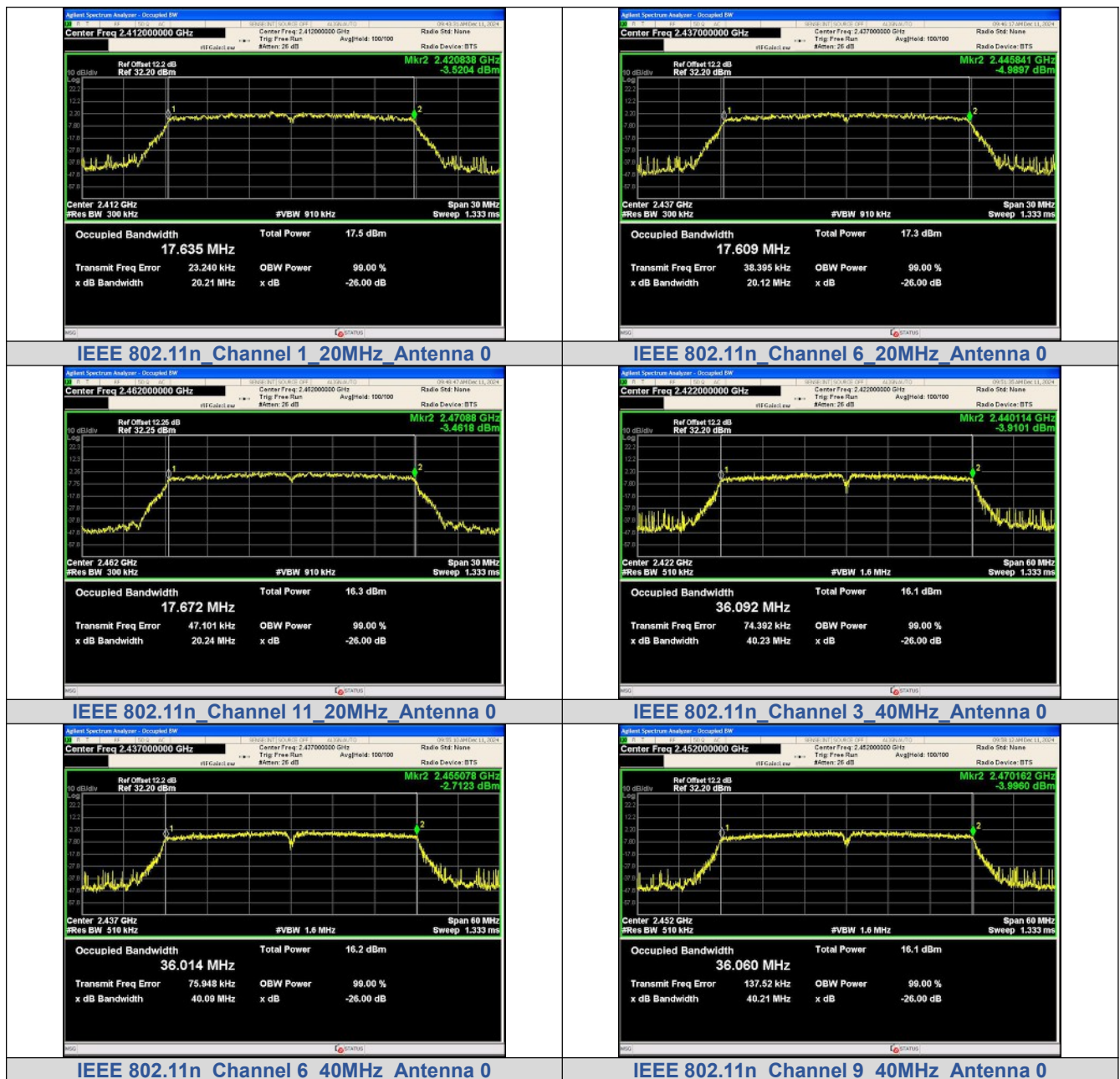
Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.92	N/A	N/A	N/A	N/A	≤30	PASS
	6	17.90	N/A	N/A	N/A	N/A	≤30	PASS
	11	17.59	N/A	N/A	N/A	N/A	≤30	PASS
IEEE 802.11g	1	18.12	N/A	N/A	N/A	N/A	≤30	PASS
	6	17.02	N/A	N/A	N/A	N/A	≤30	PASS
	11	16.88	N/A	N/A	N/A	N/A	≤30	PASS
IEEE 802.11n_20	1	18.50	N/A	N/A	N/A	N/A	≤30	PASS
	6	18.35	N/A	N/A	N/A	N/A	≤30	PASS
	11	17.29	N/A	N/A	N/A	N/A	≤30	PASS
IEEE 802.11n_40	3	17.36	N/A	N/A	N/A	N/A	≤30	PASS
	6	17.34	N/A	N/A	N/A	N/A	≤30	PASS
	9	17.19	N/A	N/A	N/A	N/A	≤30	PASS

APPENDIX II. 99% Bandwidth Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	13.369
	6		2437	13.273
	11		2462	13.240
IEEE 802.11g	1		2412	16.546
	6		2437	16.531
	11		2462	16.524
IEEE 802.11n_20	1		2412	17.635
	6		2437	17.609
	11		2462	17.672
IEEE 802.11n_40	3		2422	36.092
	6		2437	36.014
	9		2452	36.060

Test Graphs



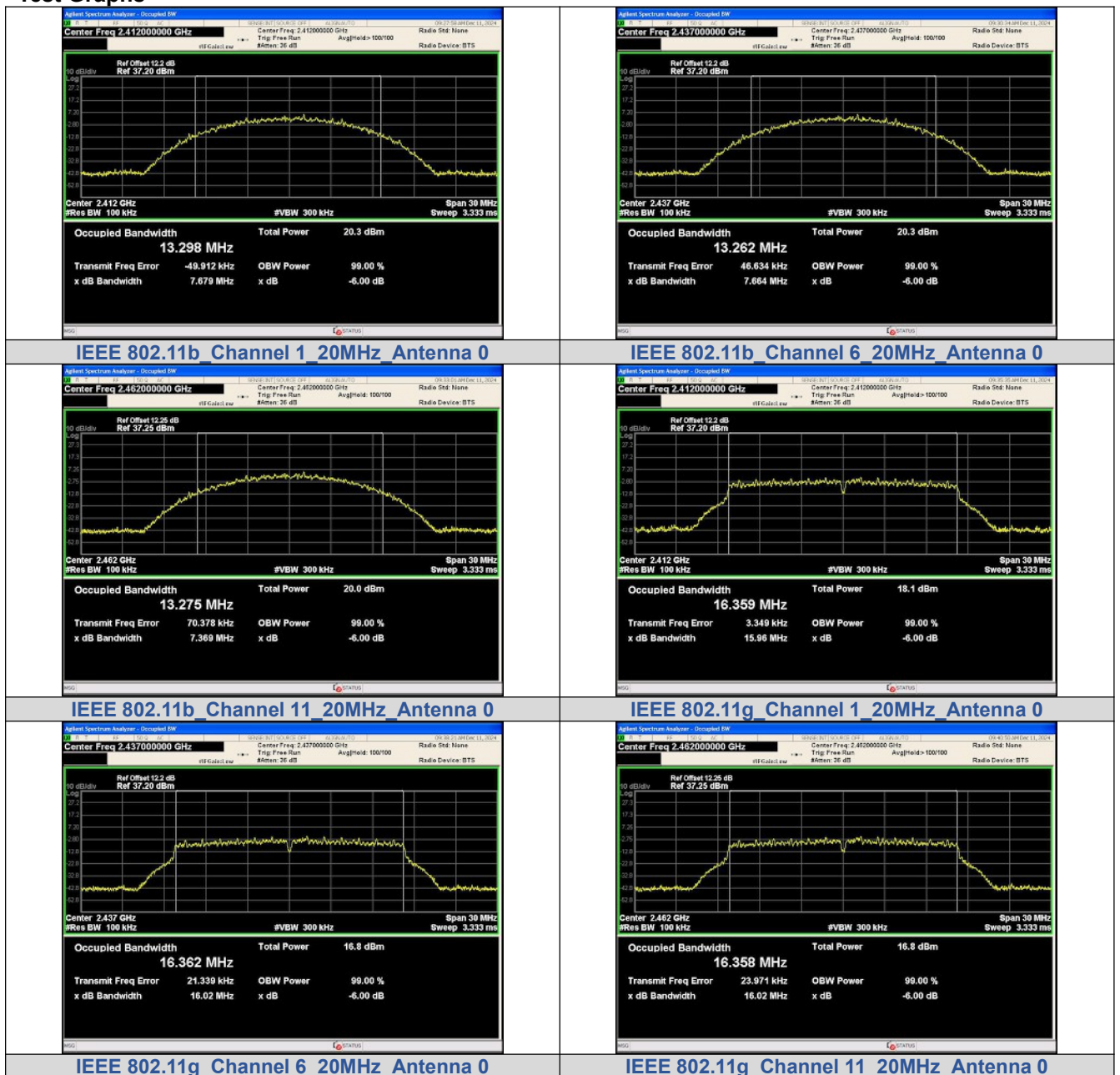


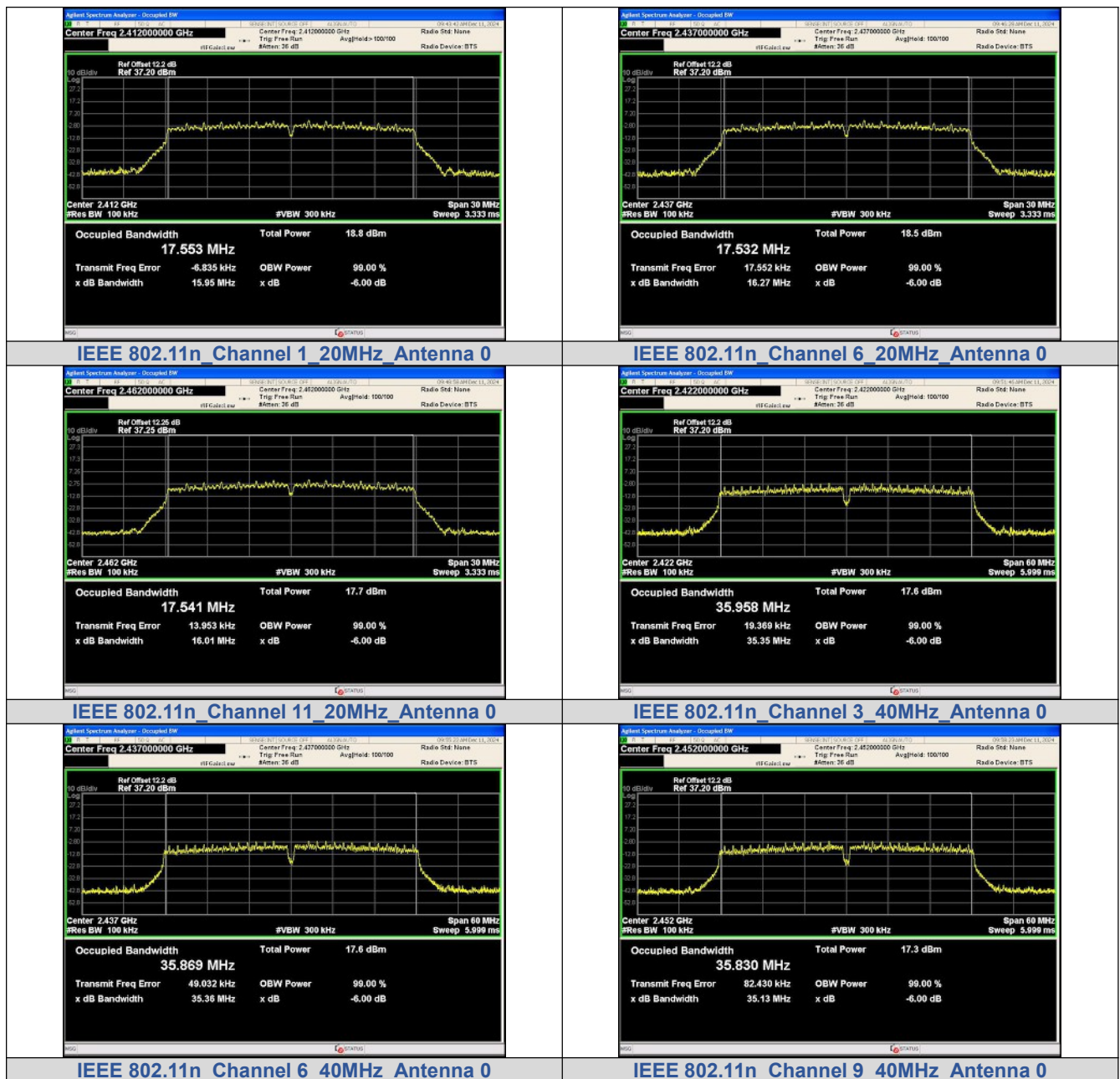
APPENDIX III. 6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.679	≥0.5	PASS
	6		2437	7.664		PASS
	11		2462	7.369		PASS
IEEE 802.11g	1		2412	15.96		PASS
	6		2437	16.02		PASS
	11		2462	16.02		PASS
IEEE 802.11n_20	1		2412	15.95		PASS
	6		2437	16.27		PASS
	11		2462	16.01		PASS
IEEE 802.11n_40	3		2422	35.35		PASS
	6		2437	35.36		PASS
	9		2452	35.13		PASS

Test Graphs





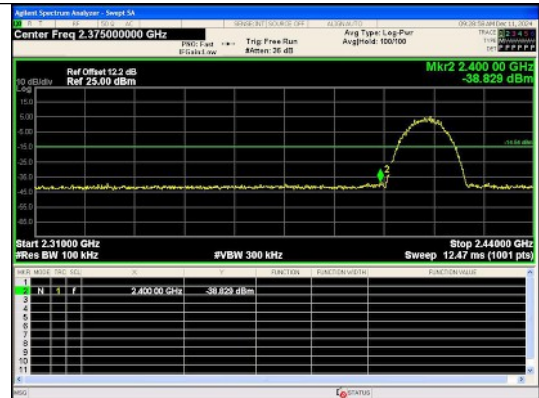
APPENDIX IV. Conducted Out Of Band Emission**Test Result**

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-38.829	-14.54	-24.289	PASS
			4828.61	-52.268	-14.54	-37.728	PASS
			7240.09	-50.384	-14.54	-35.844	PASS
			9649.69	-51.933	-14.54	-37.393	PASS
			24910.1	-36.011	-14.54	-21.471	PASS
	6		4856.70	-51.781	-14.4	-37.381	PASS
			7308.76	-51.087	-14.4	-36.687	PASS
			9739.58	-51.843	-14.4	-37.444	PASS
			24908.2	-35.839	-14.4	-21.439	PASS
			2483.50	-40.158	-14.69	-25.468	PASS
	11		4941.60	-51.623	-14.69	-36.934	PASS
			7399.27	-50.801	-14.69	-36.111	PASS
			9866.93	-51.904	-14.69	-37.214	PASS
			24927.0	-35.247	-14.69	-20.557	PASS
2394.89			-36.204	-18.99	-17.214	PASS	
IEEE 802.11g	1		2400.00	-37.482	-18.99	-18.492	PASS
			4810.50	-52.718	-18.99	-33.728	PASS
			7255.70	-51.235	-18.99	-32.245	PASS
			9650.30	-51.412	-18.99	-32.422	PASS
			24891.4	-35.507	-18.99	-16.517	PASS
	6		4870.43	-51.959	-20.1	-31.859	PASS
			7296.27	-50.946	-20.1	-30.846	PASS
			9761.43	-50.901	-20.1	-30.801	PASS
			24907.0	-35.600	-20.1	-15.500	PASS
			2483.50	-41.442	-20.2	-21.242	PASS
	11		4920.37	-52.080	-20.2	-31.880	PASS
			7374.93	-51.714	-20.2	-31.514	PASS
			9848.83	-50.446	-20.2	-30.246	PASS
			24968.8	-35.769	-20.2	-15.569	PASS
2400.00			-36.407	-18.15	-18.257	PASS	
IEEE 802.11n_20	1		4836.73	-52.648	-18.15	-34.498	PASS
			7233.85	-51.370	-18.15	-33.220	PASS
			9647.20	-50.517	-18.15	-32.367	PASS
			24991.3	-35.681	-18.15	-17.531	PASS
			4887.29	-51.490	-18.23	-33.260	PASS
	6		7318.12	-50.260	-18.23	-32.030	PASS
			9733.97	-51.459	-18.23	-33.229	PASS
			24917.0	-36.048	-18.23	-17.818	PASS
			2483.50	-40.268	-19.08	-21.188	PASS
			4943.47	-52.297	-19.08	-33.217	PASS
	11		7399.90	-50.888	-19.08	-31.808	PASS
			9859.44	-51.616	-19.08	-32.536	PASS
			24967.5	-36.147	-19.08	-17.067	PASS
			2396.97	-38.371	-22.21	-16.161	PASS
2400.00			-41.764	-22.21	-19.554	PASS	
IEEE 802.11n_40	3		4824.20	-52.027	-22.21	-29.817	PASS
			7258.80	-50.062	-22.21	-27.852	PASS
			9652.80	-51.807	-22.21	-29.597	PASS
			24912.0	-35.883	-22.21	-13.673	PASS
			4894.16	-52.299	-22.0	-30.299	PASS
	6		7274.42	-51.510	-22.0	-29.510	PASS
			9775.79	-51.086	-22.0	-29.086	PASS
			24978.2	-35.599	-22.0	-13.599	PASS
			2483.50	-40.621	-22.18	-18.441	PASS
			4899.77	-51.922	-22.18	-29.742	PASS
	9		7370.56	-51.075	-22.18	-28.895	PASS
			9820.11	-50.433	-22.18	-28.253	PASS
			24930.1	-36.296	-22.18	-14.116	PASS

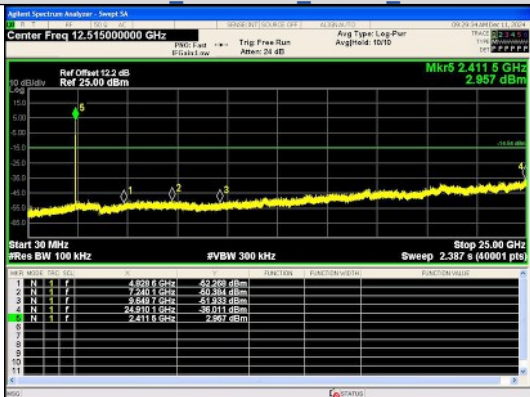
Test Graphs



In-Band Reference Level
IEEE 802.11b Channel 1 20MHz Antenna 0



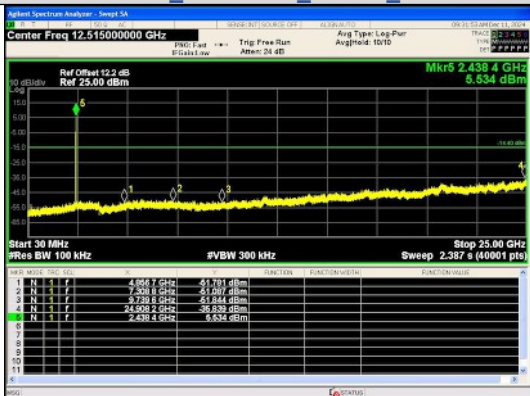
Out Of Band Emission
IEEE 802.11b Channel 1 20MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 1 20MHz Antenna 0



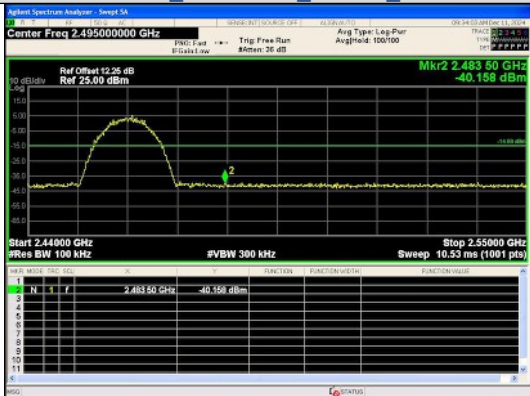
In-Band Reference Level
IEEE 802.11b Channel 6 20MHz Antenna 0



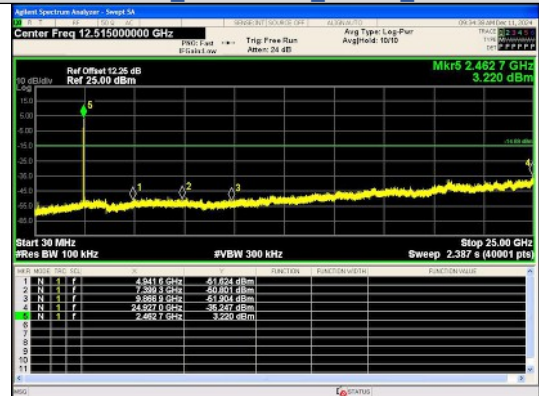
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 6 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11b Channel 11 20MHz Antenna 0



Out Of Band Emission
IEEE 802.11b Channel 11 20MHz Antenna 0



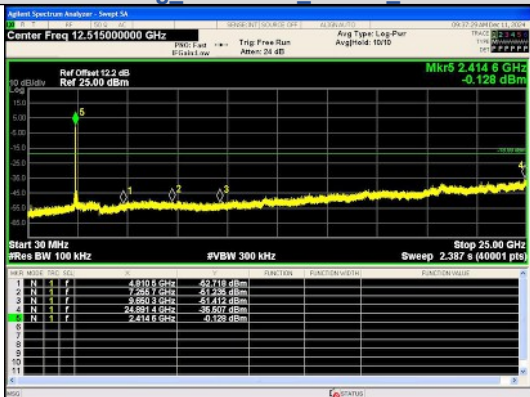
30.0 MHz - 25000.0 MHz
IEEE 802.11b Channel 11 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11g Channel 1 20MHz Antenna 0



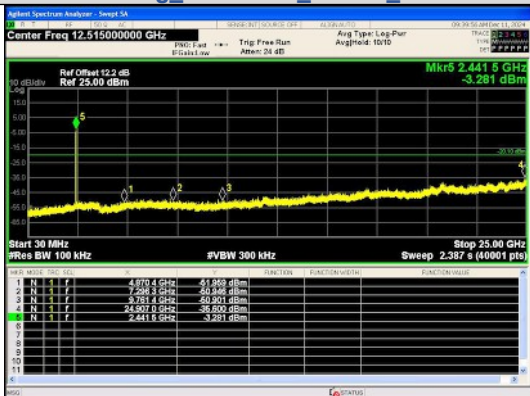
Out Of Band Emission
IEEE 802.11g Channel 1 20MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 1 20MHz Antenna 0



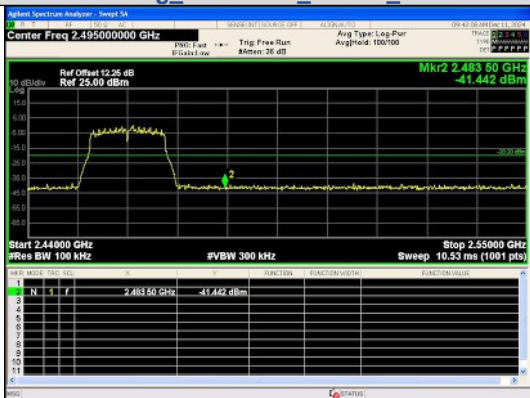
In-Band Reference Level
IEEE 802.11g Channel 6 20MHz Antenna 0



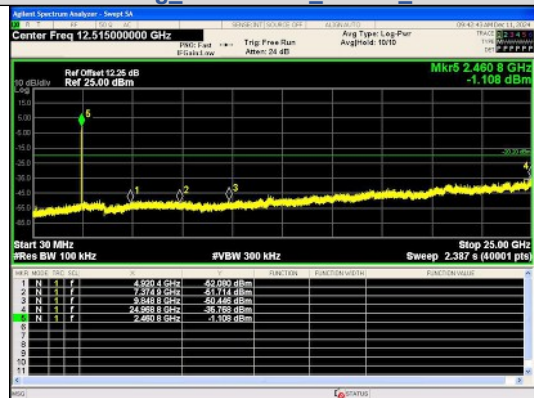
30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 6 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11g Channel 11 20MHz Antenna 0



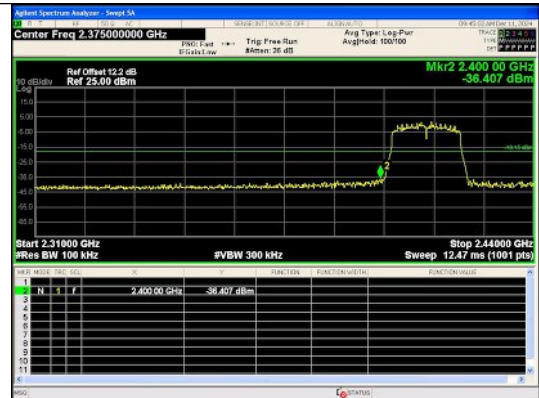
Out Of Band Emission
IEEE 802.11g Channel 11 20MHz Antenna 0



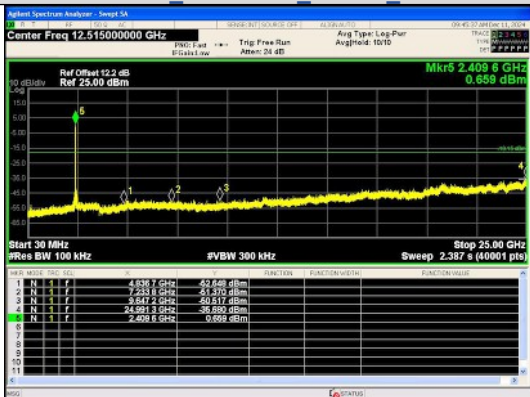
30.0 MHz - 25000.0 MHz
IEEE 802.11g Channel 11 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 1 20MHz Antenna 0



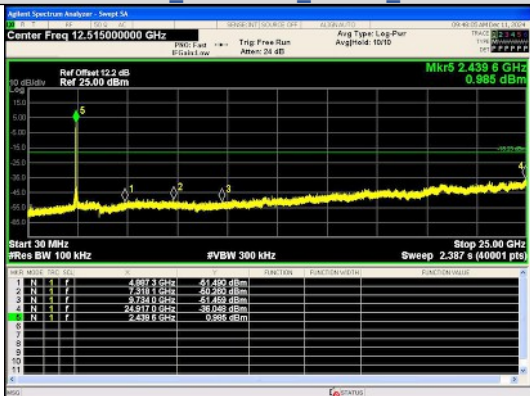
Out Of Band Emission
IEEE 802.11n Channel 1 20MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 1 20MHz Antenna 0



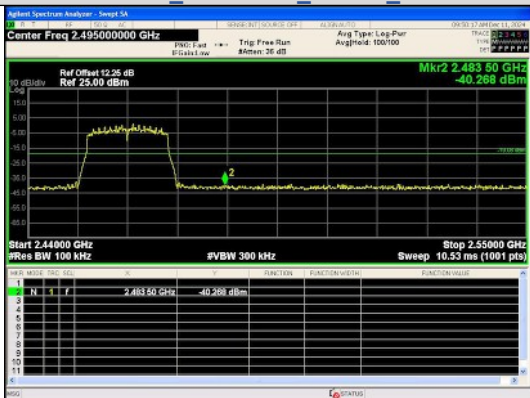
In-Band Reference Level
IEEE 802.11n Channel 6 20MHz Antenna 0



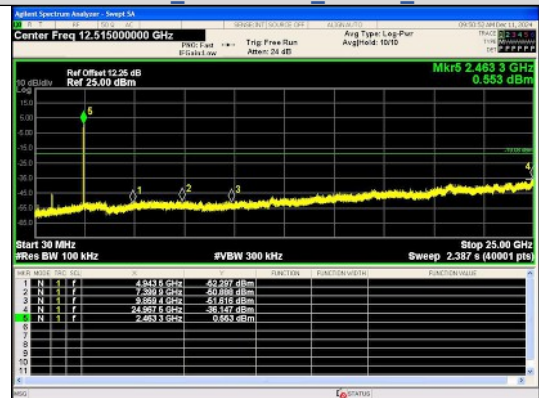
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 11 20MHz Antenna 0



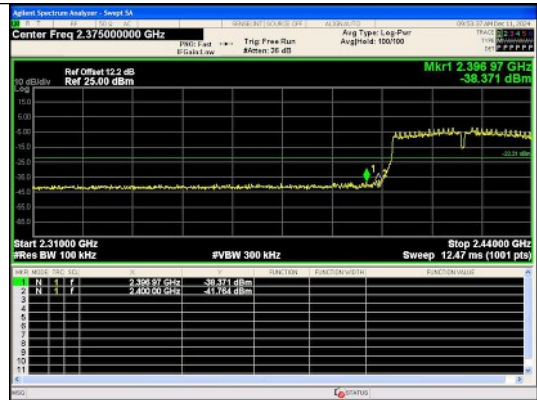
Out Of Band Emission
IEEE 802.11n Channel 11 20MHz Antenna 0



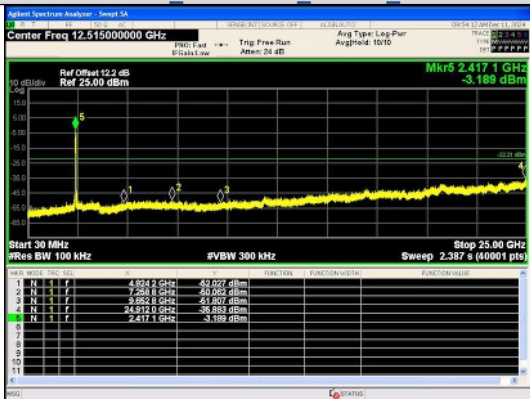
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 11 20MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 3 40MHz Antenna 0



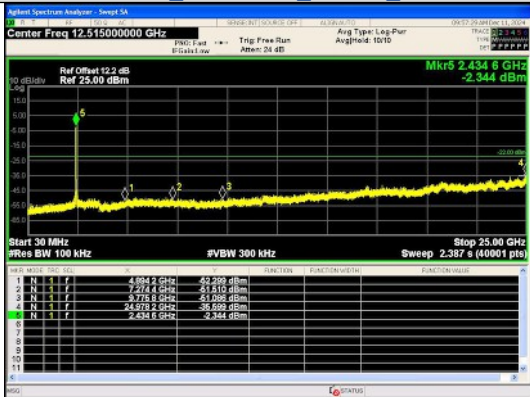
Out Of Band Emission
IEEE 802.11n Channel 3 40MHz Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 3 40MHz Antenna 0



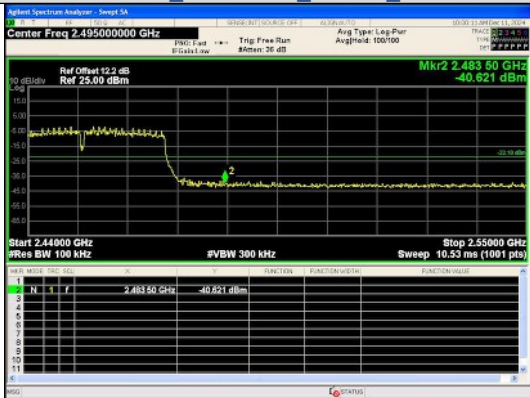
In-Band Reference Level
IEEE 802.11n Channel 6 40MHz Antenna 0



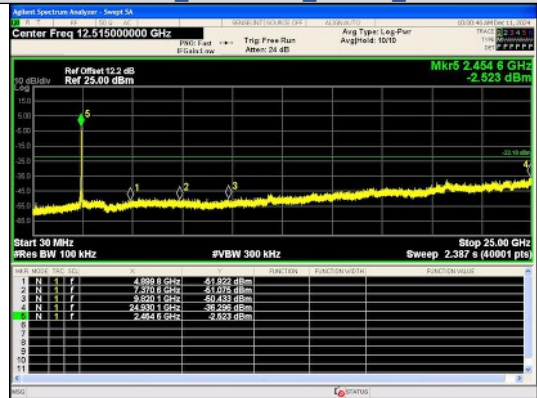
30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 6 40MHz Antenna 0



In-Band Reference Level
IEEE 802.11n Channel 9 40MHz Antenna 0



Out Of Band Emission
IEEE 802.11n Channel 9 40MHz Antenna 0

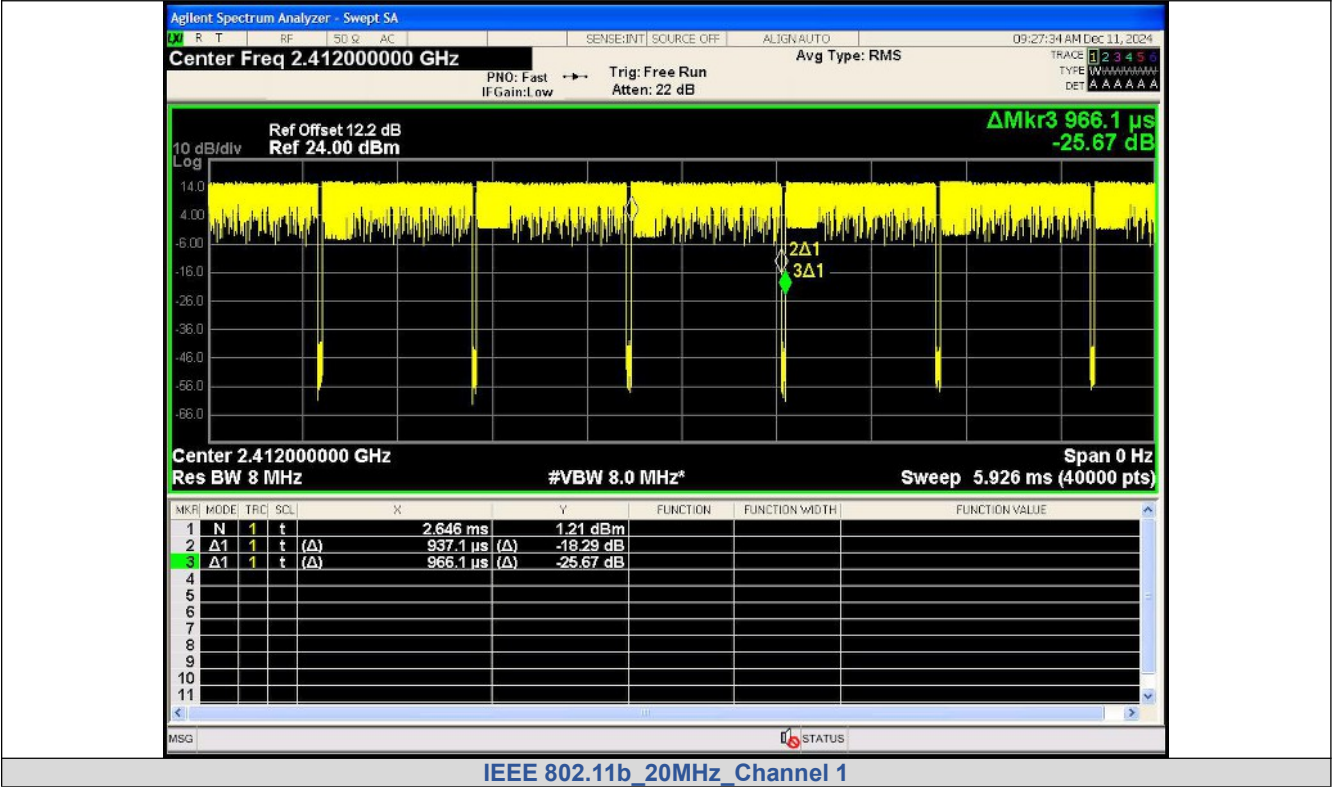


30.0 MHz - 25000.0 MHz
IEEE 802.11n Channel 9 40MHz Antenna 0

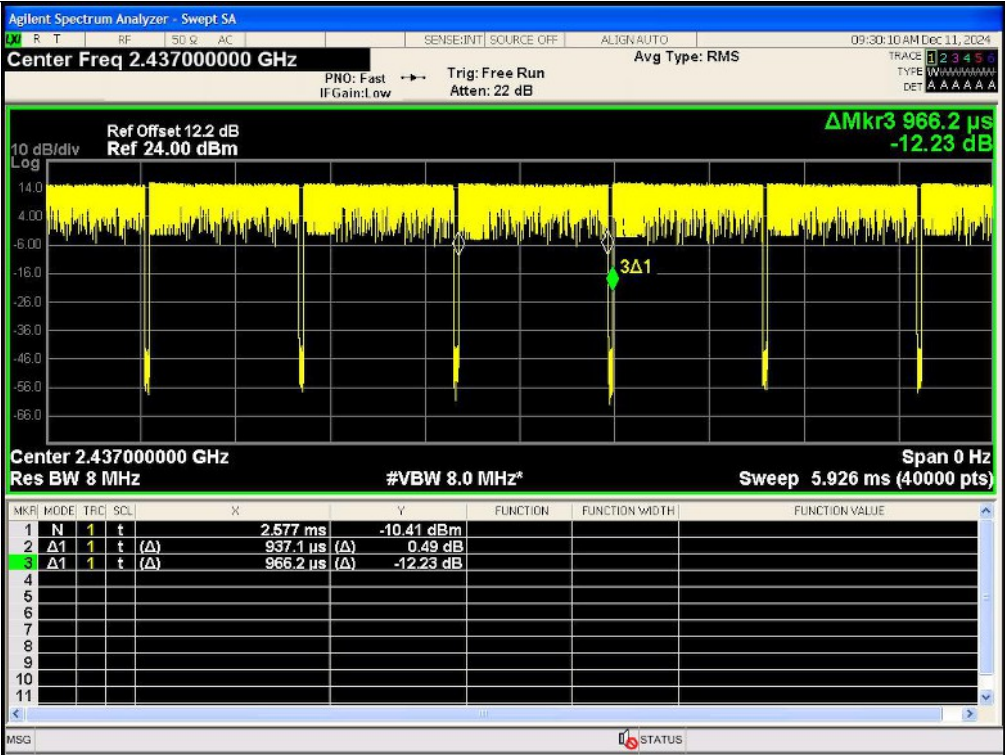
APPENDIX V. Duty Cycle
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	11	1	1	0.937	0.966	96.99	0.9699	0.1327
		6		0.937	0.966	96.98	0.9698	0.1332
		11		0.937	0.966	96.98	0.9698	0.1332
IEEE 802.11g	54	1		0.177	0.302	58.64	0.5864	2.3181
		6		0.177	0.302	58.67	0.5867	2.3158
		11		0.177	0.302	58.70	0.5870	2.3136
IEEE 802.11n_20	MCS 7	1		0.165	0.299	55.19	0.5519	2.5814
		6		0.165	0.299	55.15	0.5515	2.5845
		11		0.165	0.299	55.22	0.5522	2.579
IEEE 802.11n_40		3		0.101	0.307	32.93	0.3293	4.8241
		6		0.101	0.298	33.89	0.3389	4.6993
		9		0.101	0.298	33.97	0.3397	4.689

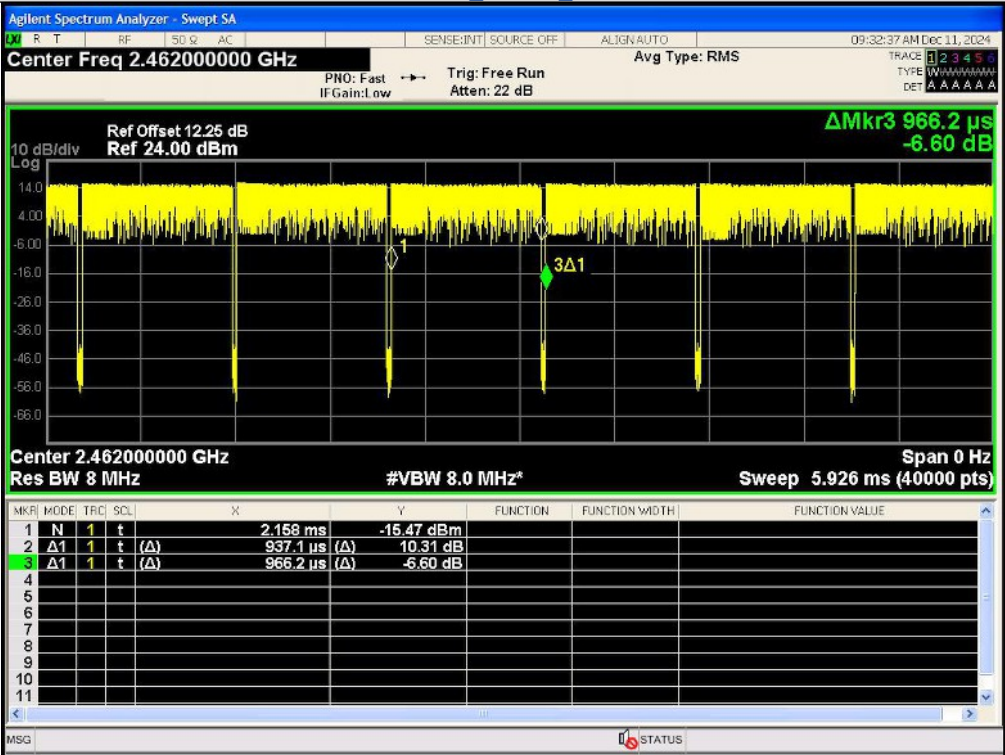
Test Graphs



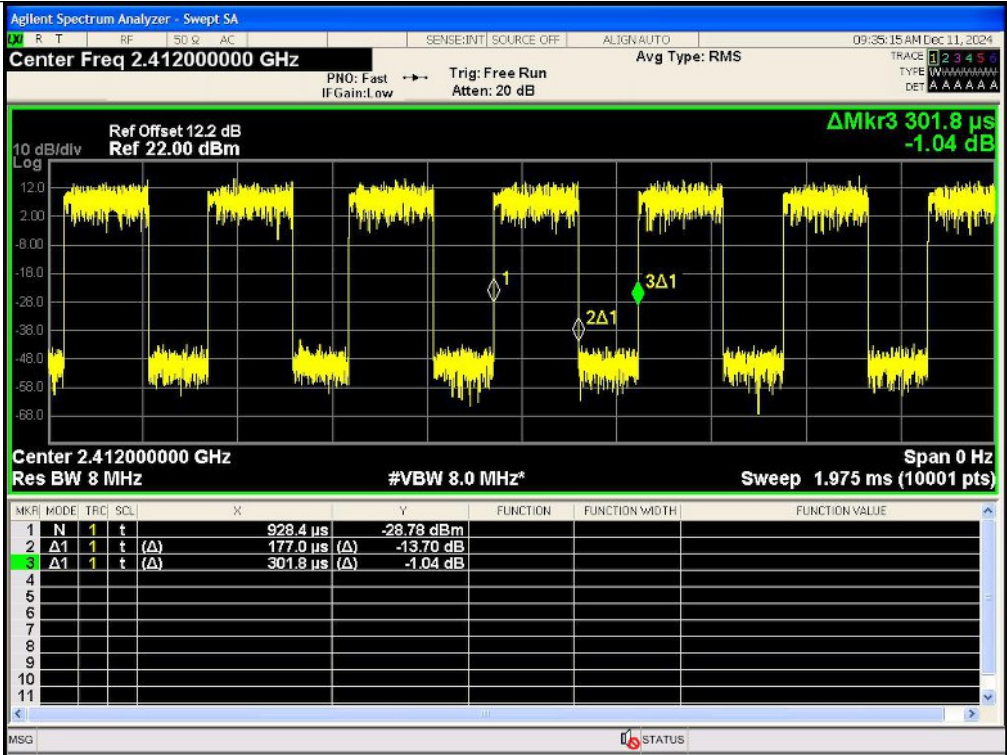
IEEE 802.11b_20MHz_Channel 1



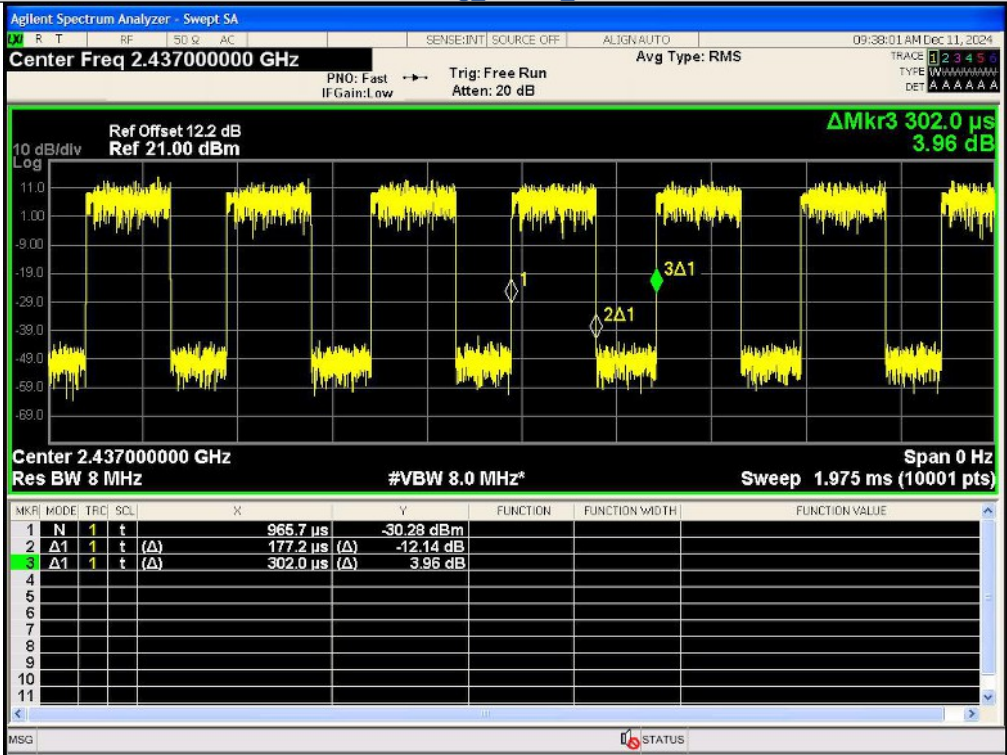
IEEE 802.11b_20MHz_Channel 6



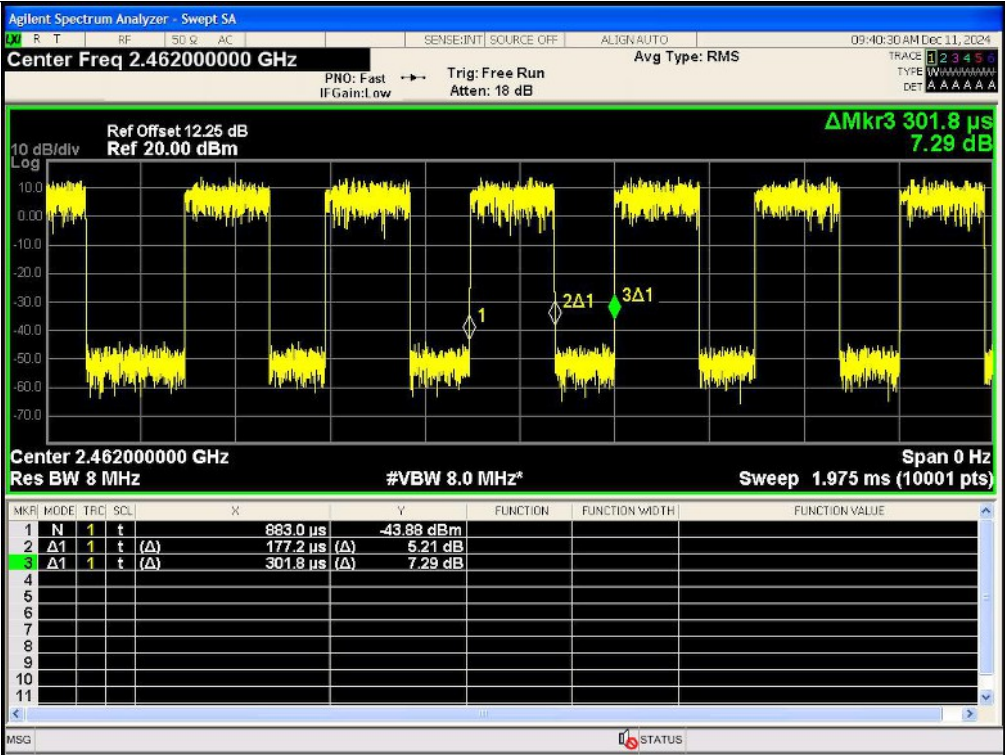
IEEE 802.11b_20MHz_Channel 11



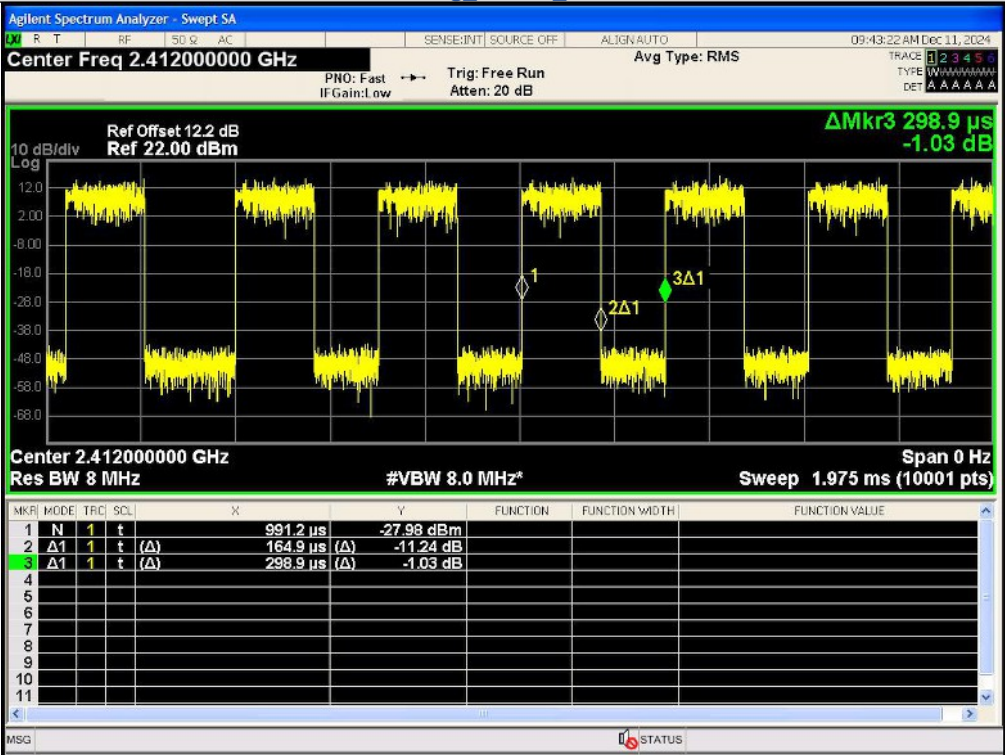
IEEE 802.11g_20MHz_Channel 1



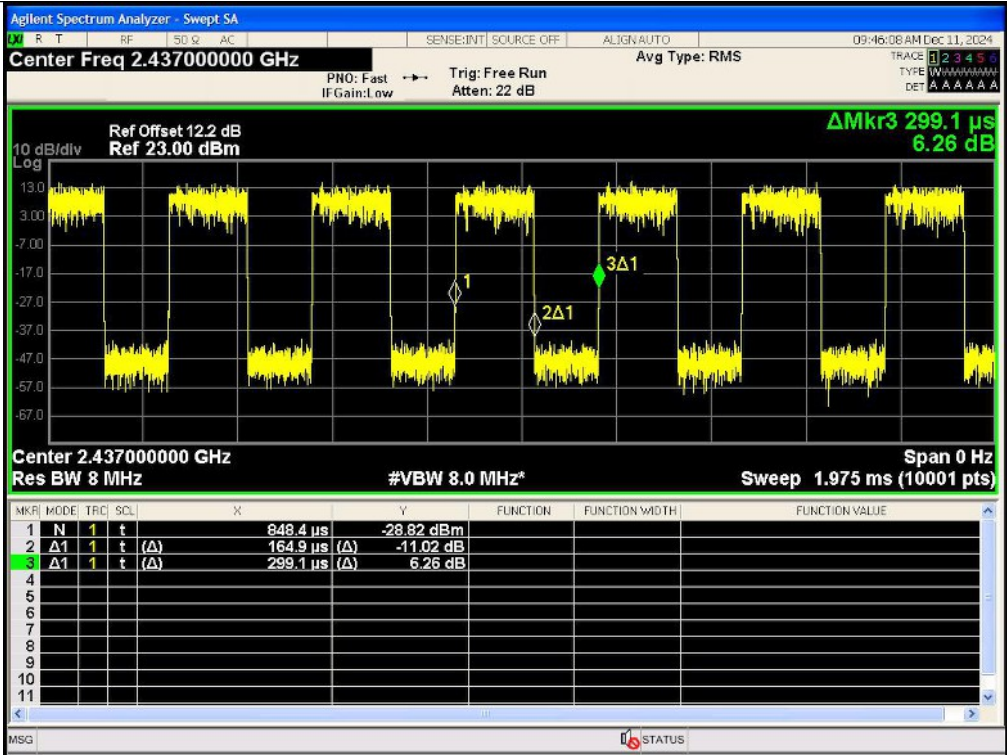
IEEE 802.11g_20MHz_Channel 6



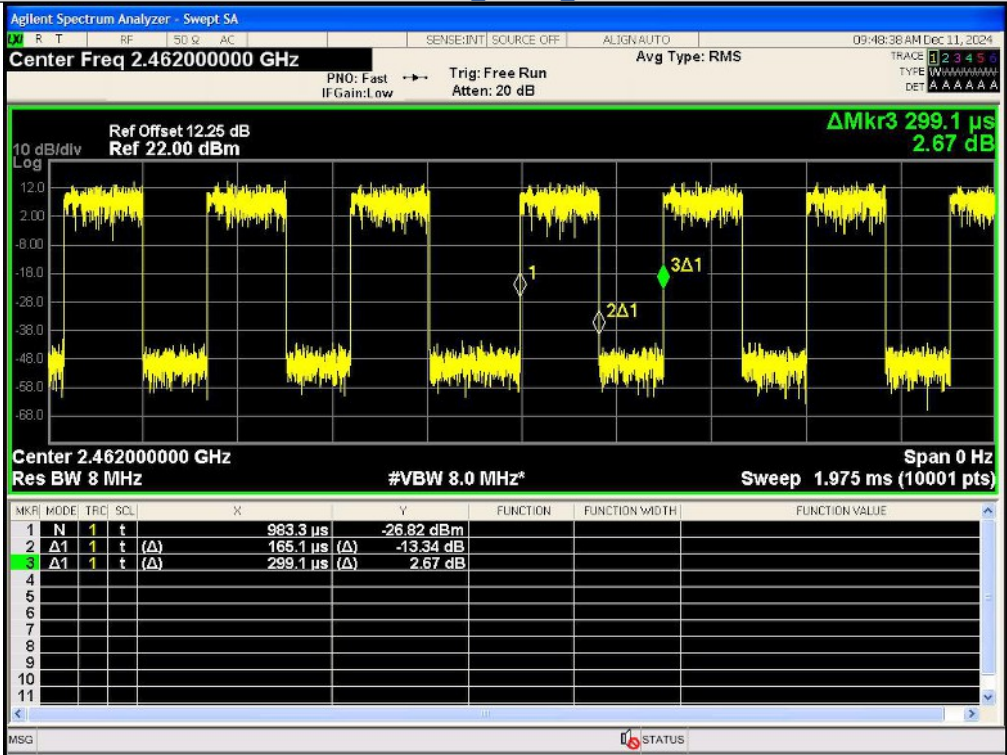
IEEE 802.11g_20MHz_Channel 11



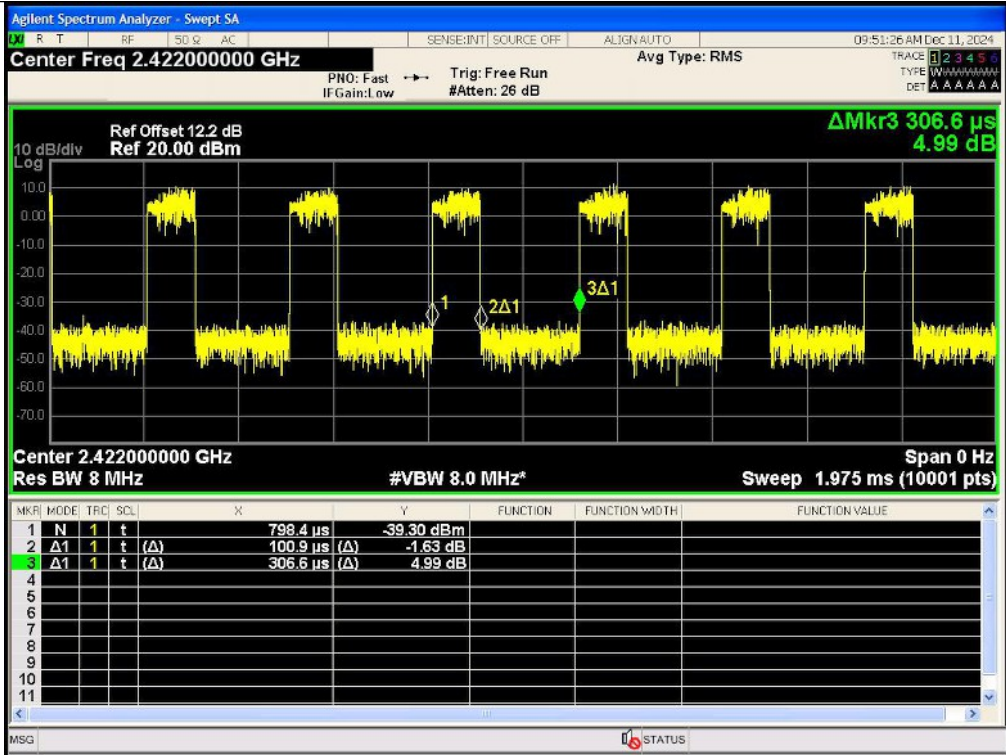
IEEE 802.11n_20MHz_Channel 1



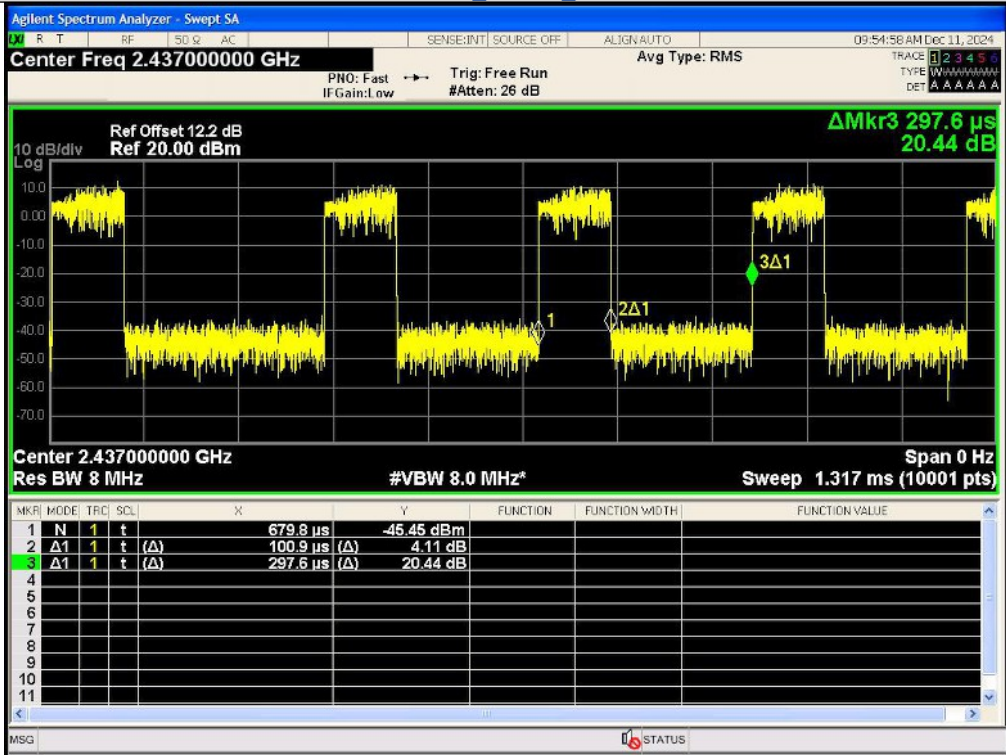
IEEE 802.11n_20MHz_Channel 6



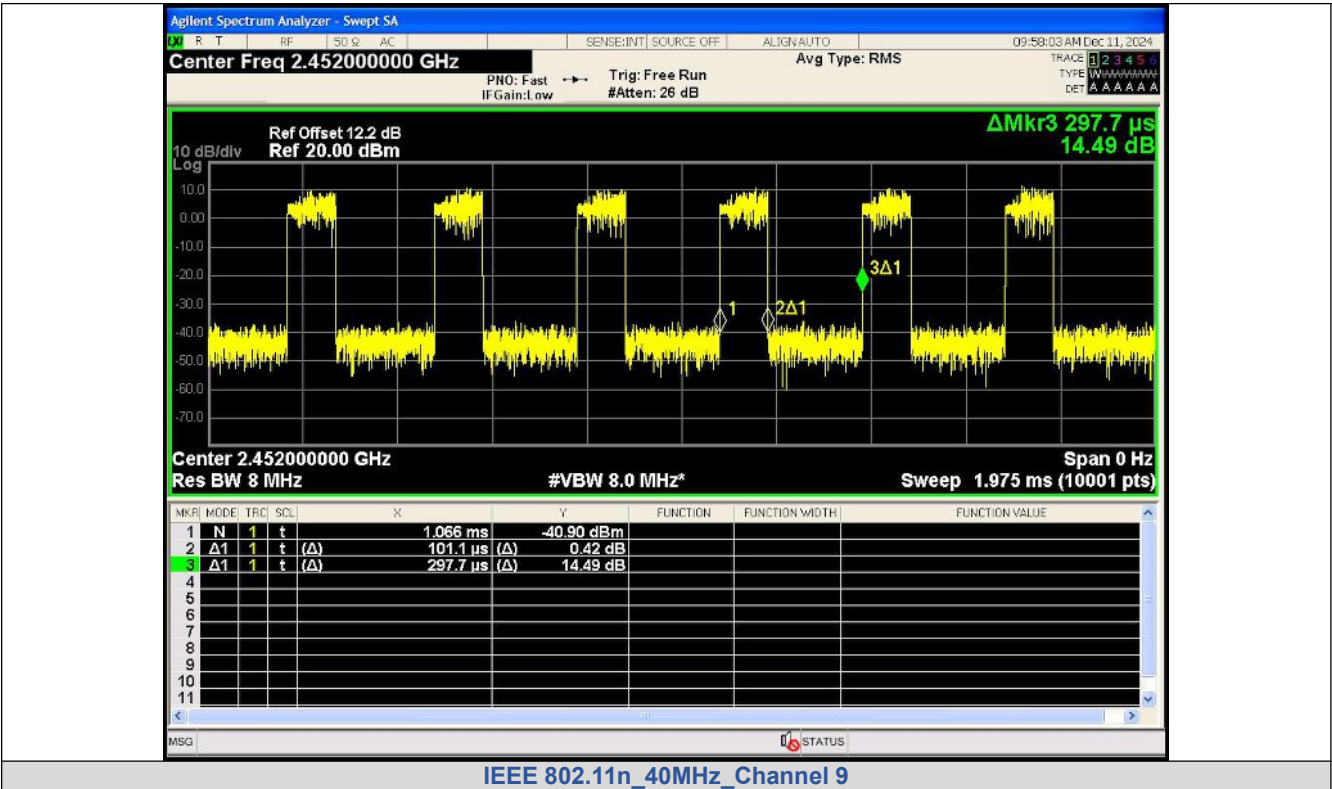
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6

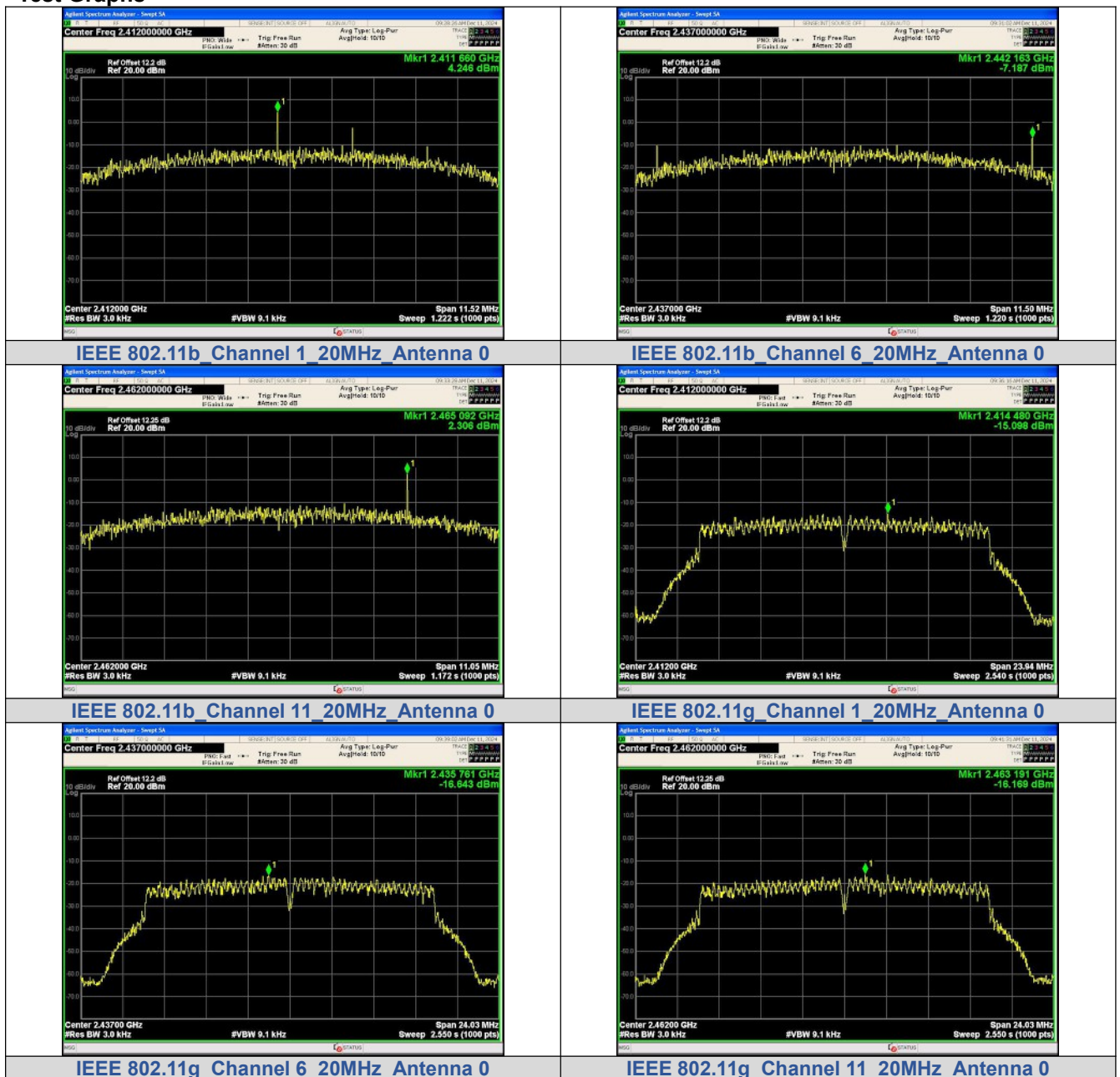


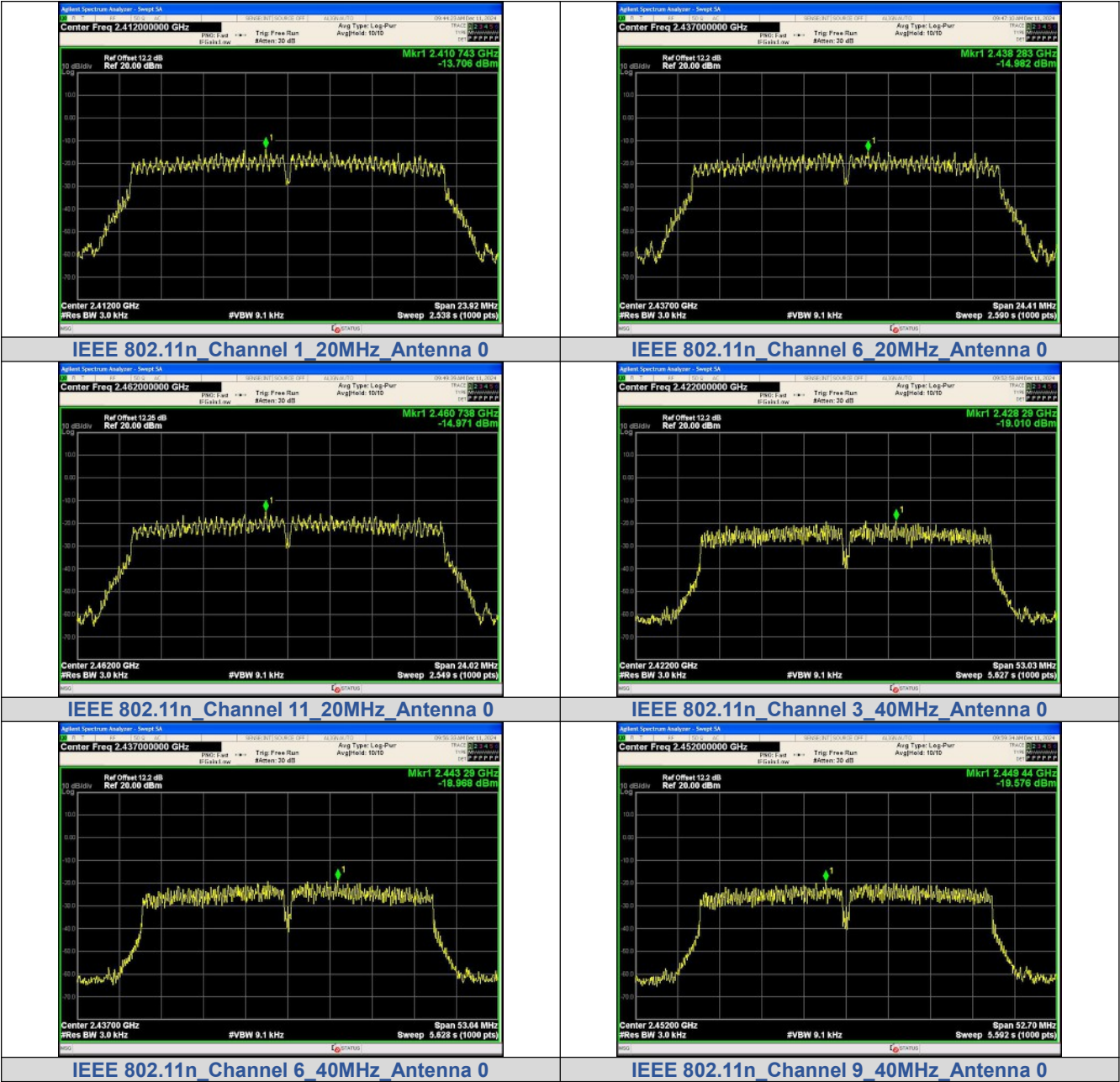
APPENDIX VI. Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	4.246	≤8	PASS
	6	-7.187		PASS
	11	2.306		PASS
IEEE 802.11g	1	-15.098		PASS
	6	-16.643		PASS
	11	-16.169		PASS
IEEE 802.11n_20	1	-13.706		PASS
	6	-14.982		PASS
	11	-14.971		PASS
IEEE 802.11n_40	3	-19.010		PASS
	6	-18.968		PASS
	9	-19.576		PASS

Test Graphs





***** End of Report *****