



TEST REPORT

Reference No...... : WTF25F09236724W
FCC ID : 2BRMV-DE28DV
Applicant..... : AQUAGEM TECHNOLOGY LIMITED
Address..... : FLAT/RM H 19/F, MAXGRAND PLAZA, 3 TAI YAU STREET, SAN PO KONG KL. HONG KONG
Manufacturer : Aquagem Manufacturing Limited
Address..... : NO.15, 101, 16, 401, 501, No.193, Jinlong Road, Dalong Street, Panyu District, Guangzhou
Product Name..... : Inverter Pool Pump
Model No...... : Refer to section 3.2
Test specification..... : FCC CFR47 Part 15 Subpart C (Section 15.247)
Date of Receipt sample : 2025-09-04
Date of Test : 2025-09-06 to 2025-09-09
Date of Issue..... : 2025-09-12
Test Report Form No. : WEW-15247A-01B
Test Result..... **Pass**

Remarks:

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

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: 1/F., Building 19, Sunlink Machinery City, Xingye 4 Road,
Guanglong Industrial Park, Chihua Neighborhood Committee, Chencun,
Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398

Fax:+86-757-23811381

E-mail:info@waltek.com.cn

Tested by:

Jess chen

Jess Chen

Approved by:

Danny Zhou

Danny Zhou



1 Revision History

Test Report No.	Date of Issue	Description	Status
WTF25F09236724W	2025-09-12	Original	Valid

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3 General Information

3.1 General Description of E.U.T

Product Name : Inverter Pool Pump

Model No. : Refer to section 3.2

Model Description : All models have same electric circuit and PCB layout except for the appearance, rated power and model name.
Therefore the full tests were performed on model DE28 DV.

Rating : Refer to section 3.2

3.2 Model List

Series	Factory Model	Customer Model	Rating
Inver Master	IM20DV	/	AC 115-230V, 50/60Hz, 800W
	IM25DV	/	AC 115-230V, 50/60Hz, 950W-1100W
	IM30DV	/	AC 115-230V, 50/60Hz, 1100W-1400W
Inver Victor	IT20DV	X08	AC 115-230V, 50/60Hz, 800W
	IT24DV	X10	AC 115-230V, 50/60Hz, 950W-1000W
	IT31DV	X15	AC 115-230V, 50/60Hz, 1100W-1500W
Inver Pro	IP20	/	AC 115-230V, 50/60Hz, 800W
	IP25	/	AC 115-230V, 50/60Hz, 1050W
	IP30	/	AC 115-230V, 50/60Hz, 1400W
	IP40	/	AC 115-230V, 50/60Hz, 1100W-1500W
Inver Captain	DC40	MP2AI	AC 115-230V, 50/60Hz, 1100W-1500W
	DCP08DV	MP10AIDV	AC 115-230V, 50/60Hz, 800W
	DCP12DV	MP15AIDV	AC 115-230V, 50/60Hz, 950W-1200W
	DCP15DV	MP165AIDV	AC 115-230V, 50/60Hz, 1100W-1500W
	DCP18DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DCX20	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DCX25	MP3AI	AC 115-230V, 50/60Hz, 1100W-1500W
Inver Gem	IBP08DV	/	AC 115-230V, 50/60Hz, 800W
	IBP12DV	/	AC 115-230V, 50/60Hz, 950W-1200W
	IBP15DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
Inver Hero	IHP08DV	/	AC 115-230V, 50/60Hz, 800W
	IHP12DV	/	AC 115-230V, 50/60Hz, 950W-1200W
	IHP15DV	/	AC 115-230V, 50/60Hz, 1100W-1500W



Series	Factory Model	Customer Model	Rating
Inver Smart	DM14 DV	/	AC 115-230V, 50/60Hz, 600W
	DM19 DV	MP10VSP DQ19DV	AC 115-230V, 50/60Hz, 800W
	DM23 DV	MP15VSP DQ23DV	AC 115-230V, 50/60Hz, 950W-1100W
	DM28 DV	MP165VSP DQ28DV	AC 115-230V, 50/60Hz, 1100W-1500W
	DM36DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
Inver Eco	DE18 DV	21100	AC 115-230V, 50/60Hz, 750W
	DE22 DV	21101	AC 115-230V, 50/60Hz, 900W-1000W
	DE27 DV	21102	AC 115-230V, 50/60Hz, 1000W-1350W
	DE28 DV	21103	AC 115-230V, 50/60Hz, 1100W-1500W
	DE36 DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DEX20	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DEX25	/	AC 115-230V, 50/60Hz, 1100W-1500W
Inver S	DS14DV	/	AC 115-230V, 50/60Hz, 600W
	DS19DV	/	AC 115-230V, 50/60Hz, 800W
	DS23DV	/	AC 115-230V, 50/60Hz, 950W-1100W
	DS28DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DS36 DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
Inver PiLot	DB14DV	P08DV PP08DV	AC 115-230V, 50/60Hz, 600W
	DB19DV	P11DV PP11DV	AC 115-230V, 50/60Hz, 800W
	DB23DV	P15DV PP15DV	AC 115-230V, 50/60Hz, 950W-1100W
	DB28DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
	DB36 DV	/	AC 115-230V, 50/60Hz, 1100W-1500W
Silence X	DF14DV	/	AC 115-230V, 50/60Hz, 600W
	DF19DV	T10 PRO	AC 115-230V, 50/60Hz, 800W
	DF23DV	T15 PRO	AC 115-230V, 50/60Hz, 950W-1100W
	DF28DV	T20 PRO	AC 115-230V, 50/60Hz, 1100W-1500W
	DF36DV	/	AC 115-230V, 50/60Hz, 1100W-1500W



3.3 Technical Characteristics of EUT

Support Standards	: 802.11b, 802.11g, 802.11n
Frequency Range	: 2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power	: 15.61dBm (Conducted)
Modulation	: 802.11b: DSSS(DBPSK/DQPSK/CCK) 802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
Quantity of Channels	: 11 for 802.11b/g/n(HT20); 8 for 802.11n(HT40)
Channel Separation	: 5MHz
Type of Antenna	: FPC Antenna
Antenna Gain	: -4.15dBi

3.4 Standards Applicable for Testing

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
558074 D01 15.247 Meas Guidance v05r02	Guidance For Compliance Measurements On Digital Transmission System, Frequency Hopping Spread Spectrum System, And Hybrid System Devices Operating Under Section 15.247 Of The FCC Rules
662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices



3.5 Test Facility

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

- **ISED – Registration No.: 21895**

Waltek Testing Group (Foshan) Co., Ltd. has been registered and fully described in a report filed with the Innovation, Science and Economic Development Canada (ISED). The acceptance letter from the ISED is maintained in our files. Registration ISED number: 21895.

- **FCC – Registration No.: 820106**

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 820106.

- **FCC – Designation No.: CN5034**

Waltek Testing Group (Foshan) 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. Designation No. CN5034.

- **NVLAP – Lab Code: 600191-0**

Waltek Testing Group (Foshan) Co., Ltd. EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 600191-0.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

3.6 Subcontracted

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

☐ Yes ☒ No

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

Test items: ---

Lab information: ---

3.7 Abnormalities from Standard Conditions

None.

3.8 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.



4 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List

Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz, High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz, High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz, High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz, High:2452MHz

Test Conditions

Temperature:	22~25°C
Relative Humidity:	50~55%
Atmospheric pressure:	101.8kPa



5 Equipment Used during Test

☐ Conducted Emissions 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESR3	102423	2025-01-06	2026-01-05
2.	LISN	R&S	ENV216	101343	2025-01-06	2026-01-05
3.	Cable	HUBER+SUHNER	CBL2-NN-6M	223NN624	2025-01-06	2026-01-05
4.	Switch	CD	RSU-A4	RSUA4008	2025-01-06	2026-01-05
☒ Conducted Emissions 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESCI	101178	2025-01-06	2026-01-05
2.	LISN	R&S	ENV216	101215	2025-01-07	2026-01-06
3.	Cable	LMR195UF-BMNM-5.00M	Times Microwave Systems	---	2025-01-08	2026-01-07
4.	Switch	ESE	RSU/M2	---	2025-01-06	2026-01-05
☐ Conducted Emissions 3#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	EMI Test Receiver	R&S	ESR3	102842	2025-01-06	2026-01-05
2.	LISN	R&S	ENV216	101542	2025-01-06	2026-01-05
3.	Cable	YIHENG	LMR195UF-NMNM-2.5	---	2025-01-06	2026-01-05
4.	Manual RF Switch	YIHENG	SW-2	RSU0402	2025-01-06	2026-01-05
☒ Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	3m Semi-anechoic Chamber	CHANGCHUANG	9m×6m×6m	-	2024-01-05	2027-01-04
2.	EMI Test Receiver	R&S	ESR7	102454	2025-01-06	2026-01-05
3.	Spectrum Analyzer	Agilent	N9020A	MY48011796	2025-01-06	2026-01-05
4.	Active Loop Antenna	SCHWARZBECK	FMZB1519B	00004	2025-01-06	2026-01-05
5.	Trilog Broadband Antenna	SCHWARZBECK	VULB9162	9162-117	2025-01-12	2026-01-11
6.	Coaxial Cable (below 1GHz)	Times Microwave Systems	RG223-NMNM-10M	-	2025-01-07	2026-01-06
7.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	01561	2025-01-13	2026-01-12
9.	Coaxial Cable (above 1GHz)	Times-Microwave	CBL5-NN	-	2025-01-06	2026-01-05
10.	Broadband Preamplifier (Above 1GHz)	Lunar E M	LNA1G18-40	20160501002	2025-01-06	2026-01-05



☒ RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal Date	Cal Due Date
1.	Spectrum Analyzer	Agilent	N9020A	MY48011796	2025-01-06	2026-01-05
2.	EXG Analog Signal Generator	Agilent	N5181A	MY48180720	2025-01-06	2026-01-05
3.	RF Control Unit	CHANGCHUANG	JS0806-2	-	2025-01-08	2026-01-07

5.1 Equipment List

☐: Not Used

☒: Used

5.2 Test Software

Description	Manufacturer	Model	Version
EMI Test Software (Conducted Emission 1#)	FARATRONIC	EZ-EMC	EMEC-3A1
EMI Test Software (Conducted Emission 2#)	FARATRONIC	EZ-CON	FARAD-3A1.1+
EMI Test Software (Conducted Emission 3#)	FARATRONIC	EZ-EMC	EMC-CON 3A1.1+
EMI Test Software (Radiated Emission)	FARATRONIC	EZ-EMC	RA-03A1-2
RF Conducted Test Software	TONSCEND	JS1120-2	V2.6

5.3 Special Accessories and Auxiliary Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.
1.	/	/	/	/

5.4 Measurement Uncertainty

Parameter	Uncertainty
RF Output Power	±2.2dB
Occupied Bandwidth	±1.5%
Conducted Emission	±2.6dB
Transmitter Spurious Emission	±3.8dB (for 25MHz-1GHz)
	±5.0dB (for 1GHz-18GHz)

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



6 Summary of Test Result

Test Items	FCC Rules	Result
Antenna Requirement	§15.203; §15.247(b)(4)(i)	Compliant
Restricted Band of Operation	§15.205	Compliant
Conducted Emissions	§15.207(a)	Compliant
Radiated Spurious Emissions	§15.209(a)	Compliant
Power Spectral Density	§15.247(e)	Compliant
DTS Bandwidth	§ 15.247(a)(2)	Compliant
RF Output Power	§15.247(b)(3)	Compliant
Band edge (Out of Band Emissions)	§15.247(d)	Compliant

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

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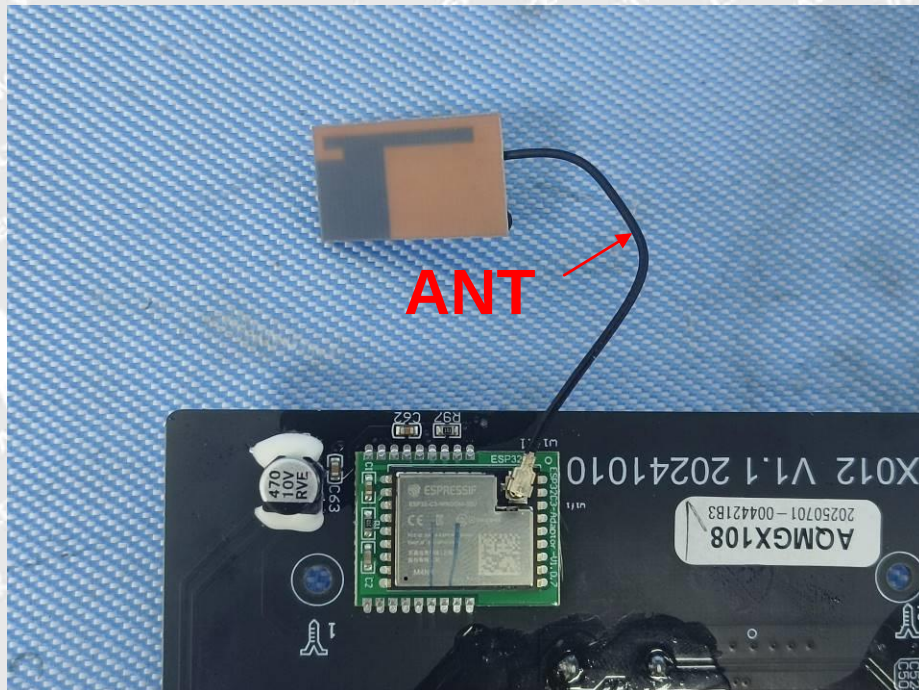
6.1 Antenna Requirement

6.1.1 Standard Applicable

According to FCC Part 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 shall be considered sufficient to comply with the provisions of this section.

6.1.2 Evaluation Information

The EUT has a FPC Antenna, the gain is -4.15dBi, fulfil the requirement of this section.





6.2 Radiated Spurious Emissions

6.2.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

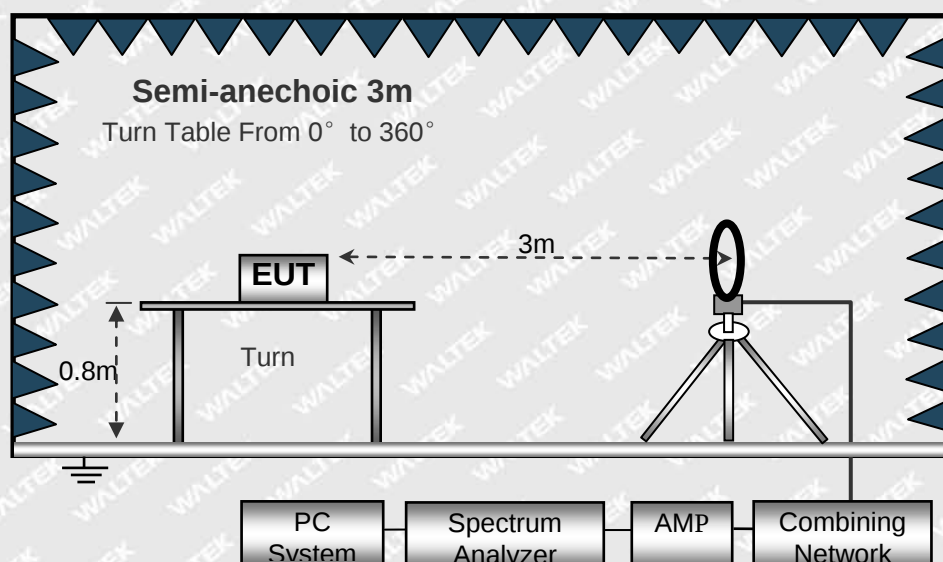
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

6.2.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

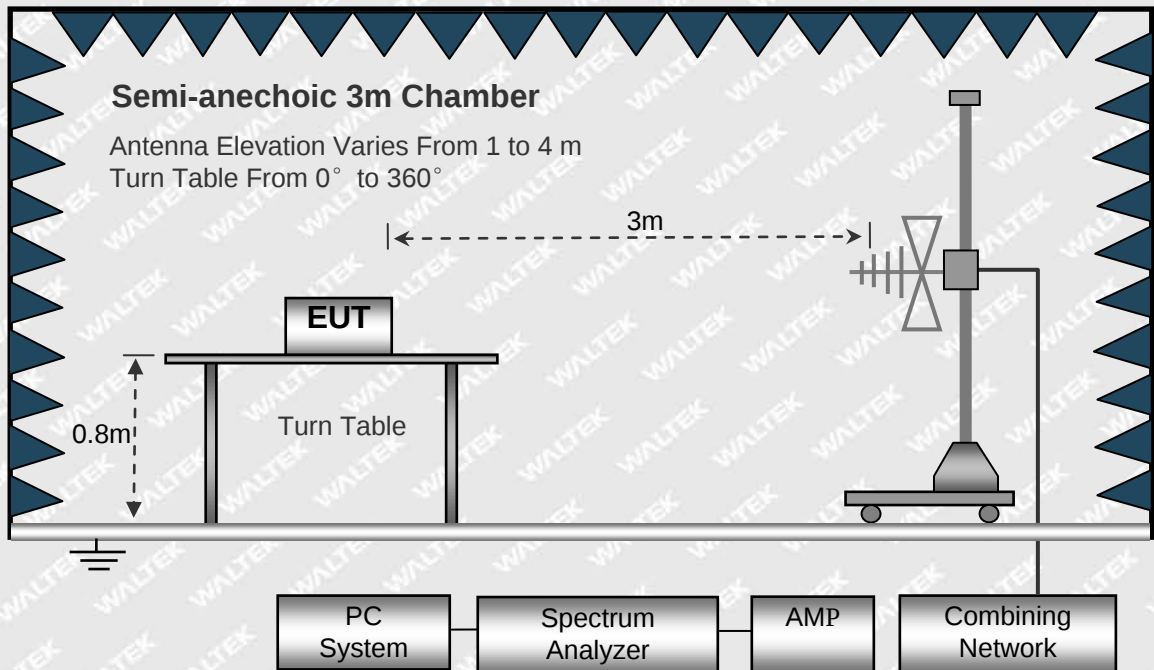
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

The test setup for emission measurement below 30MHz.

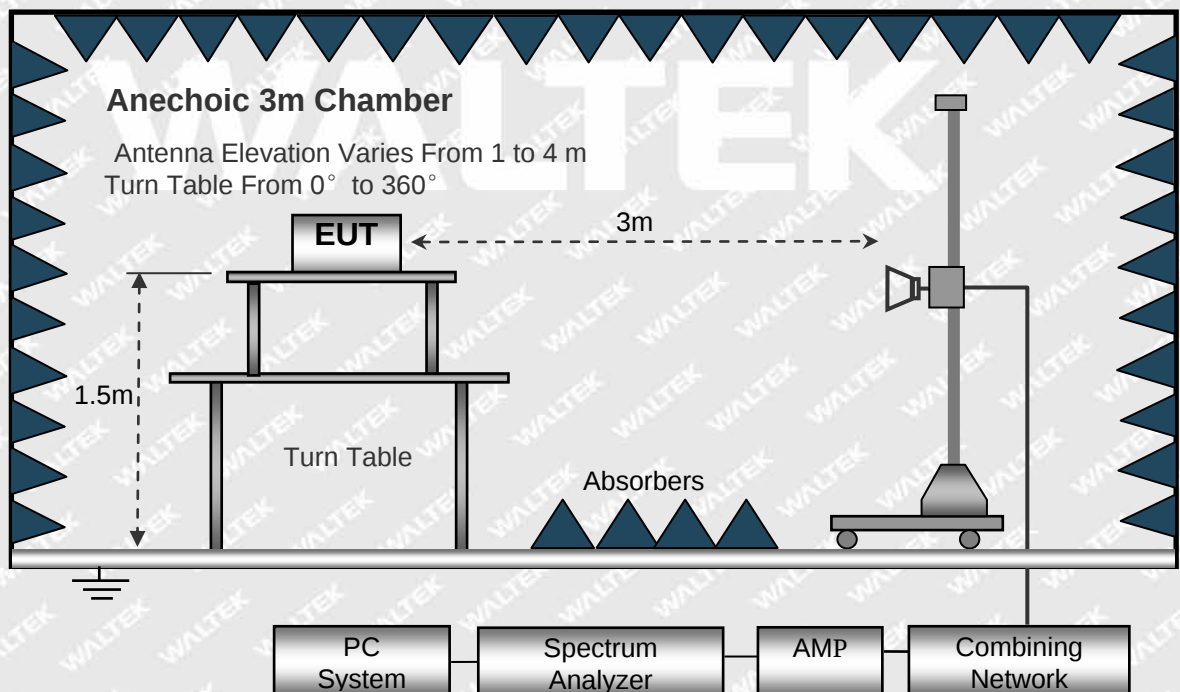




The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.





6.2.3 Spectrum Analyzer Setup

9KHz-30MHz

RBW=10kHz

VBW=30kHz

Sweep time=Auto

Trace=Max hold

Detector function=peak

30MHz-1GHz

RBW=120kHz

VBW=300kHz

Sweep time=Auto

Trace=Max hold

Detector function=peak, QP

Above 1GHz

RBW=1MHz

VBW=3MHz(Peak), 10MHz(AV)

Sweep time=Auto

Trace=Max hold

Detector function=peak, AV

6.2.4 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Corr. Factor}$$

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

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

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



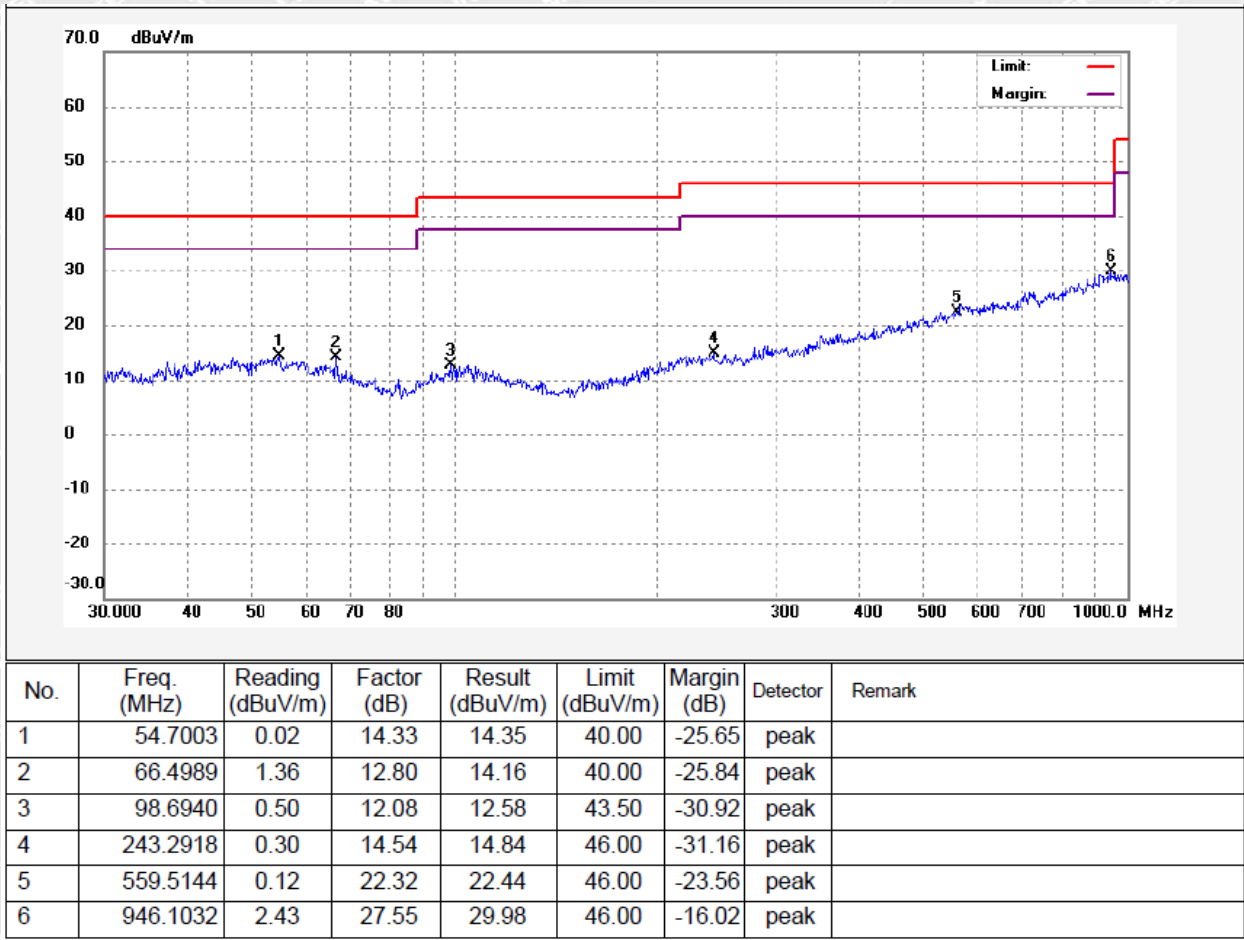
6.2.5 Test Results

Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

Test Frequency: Below 1GHz

Test Mode: 802.11b (worst case)

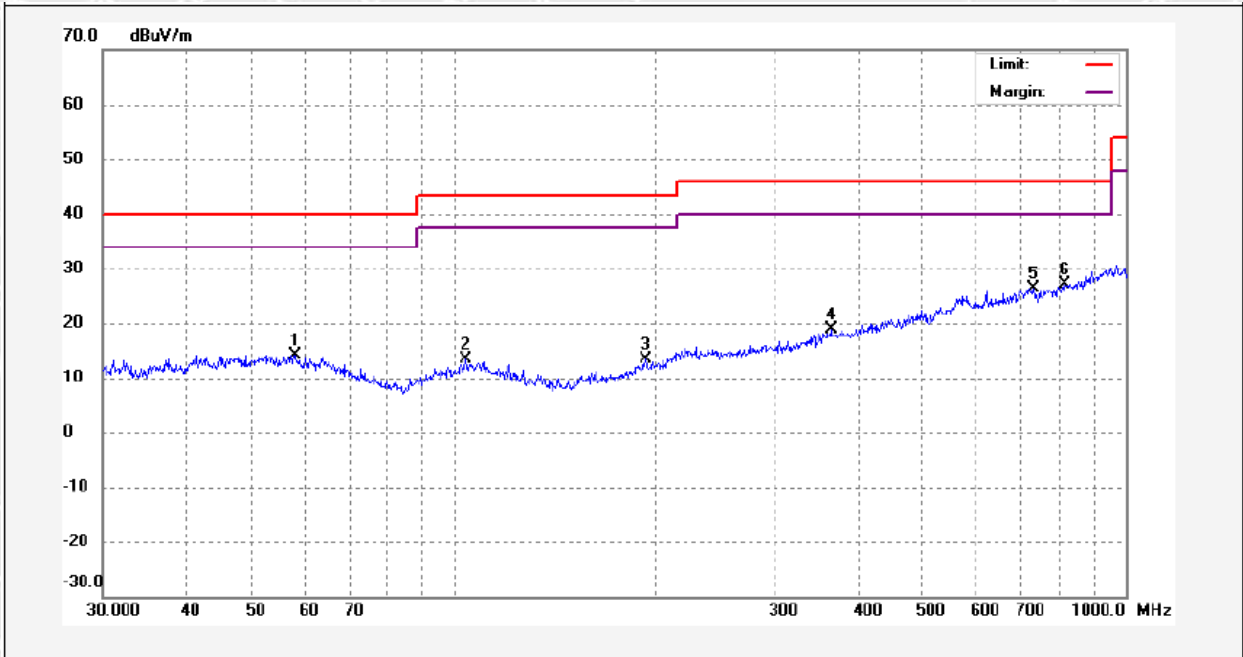
Test Channel Low Channel Polarization Vertical





Test Channel Low Channel

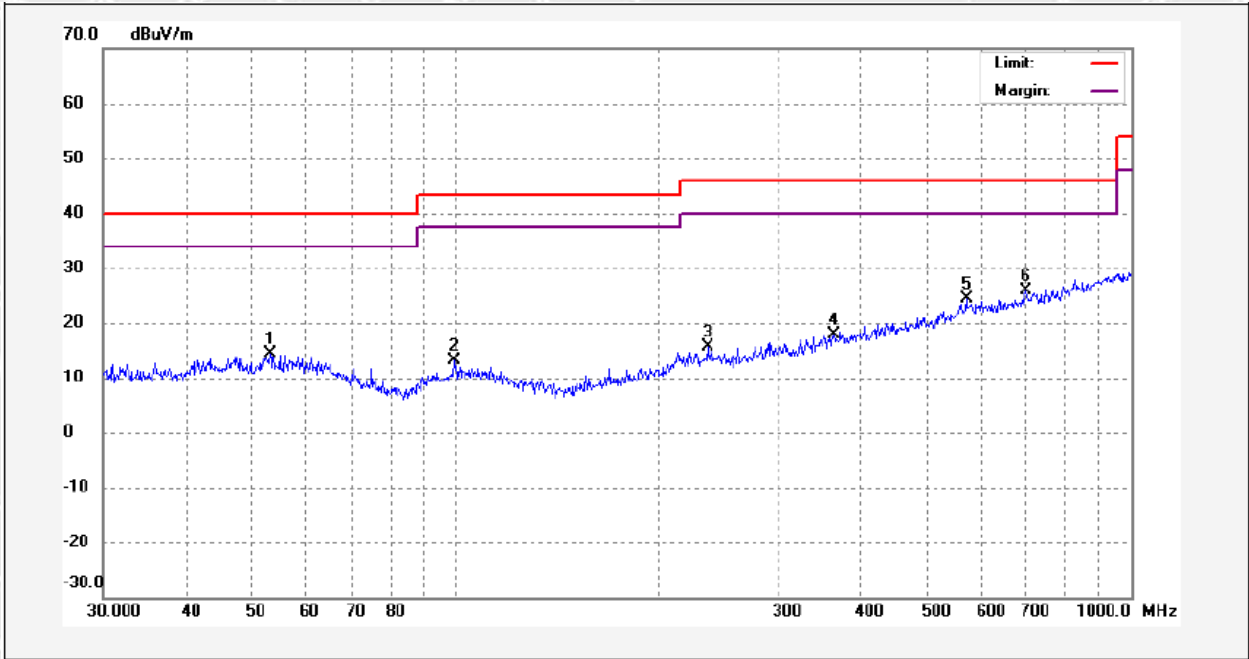
Polarization Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	58.1418	-0.07	14.29	14.22	40.00	-25.78	peak	
2	104.4993	0.33	13.01	13.34	43.50	-30.16	peak	
3	193.2977	1.06	12.29	13.35	43.50	-30.15	peak	
4	364.5150	0.96	17.88	18.84	46.00	-27.16	peak	
5	729.6140	2.12	24.27	26.39	46.00	-19.61	peak	
6	815.3957	1.37	25.87	27.24	46.00	-18.76	peak	



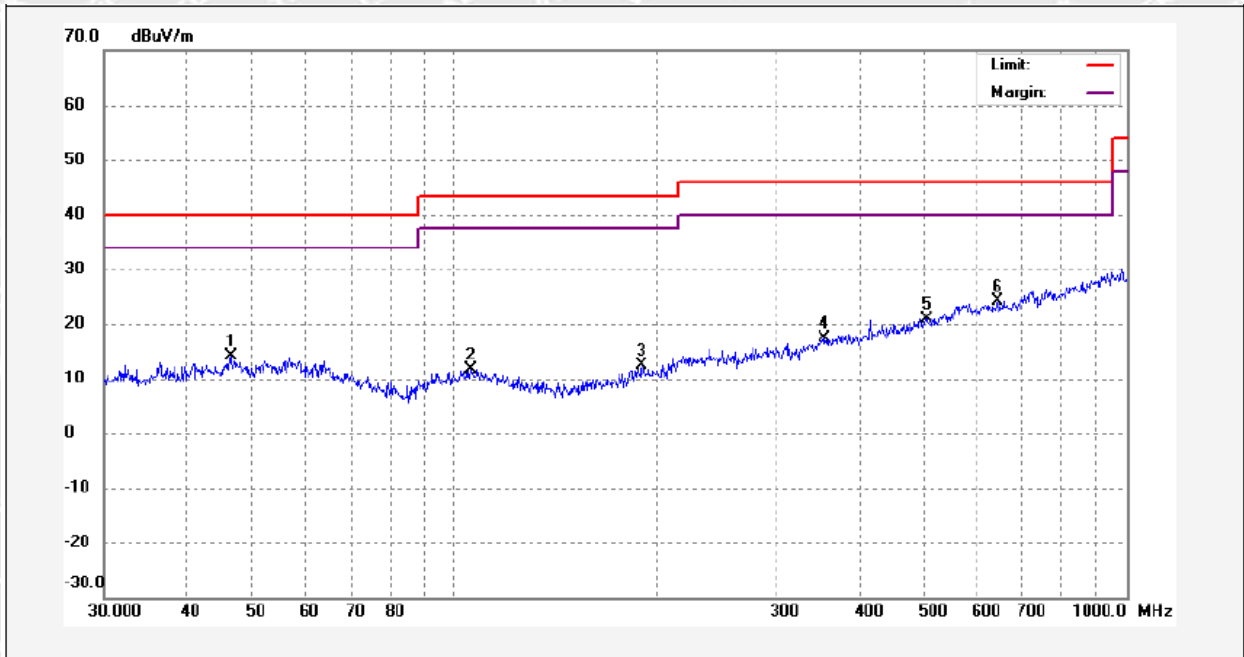
Test Channel Middle Channel Polarization Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	53.2058	0.02	14.31	14.33	40.00	-25.67	peak	
2	99.5979	0.94	12.21	13.15	43.50	-30.35	peak	
3	236.3130	1.09	14.42	15.51	46.00	-30.49	peak	
4	364.1318	0.02	17.86	17.88	46.00	-28.12	peak	
5	570.8101	1.63	22.80	24.43	46.00	-21.57	peak	
6	701.2690	1.51	24.32	25.83	46.00	-20.17	peak	



Test Channel Middle Channel Polarization Horizontal

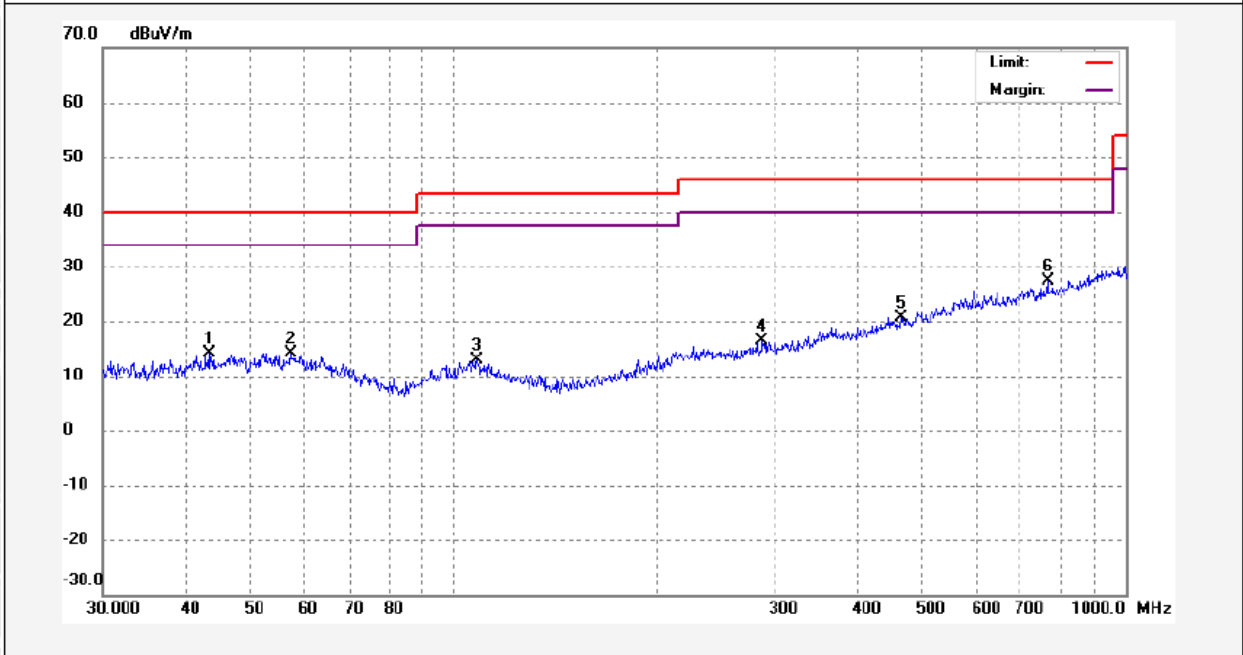


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	46.4216	-0.01	14.11	14.10	40.00	-25.90	peak	
2	105.9383	-1.31	13.02	11.71	43.50	-31.79	peak	
3	190.2715	0.11	12.16	12.27	43.50	-31.23	peak	
4	356.5508	-0.27	17.58	17.31	46.00	-28.69	peak	
5	502.9395	0.61	20.36	20.97	46.00	-25.03	peak	
6	643.0868	1.10	22.95	24.05	46.00	-21.95	peak	



Test Channel High Channel

Polarization Vertical

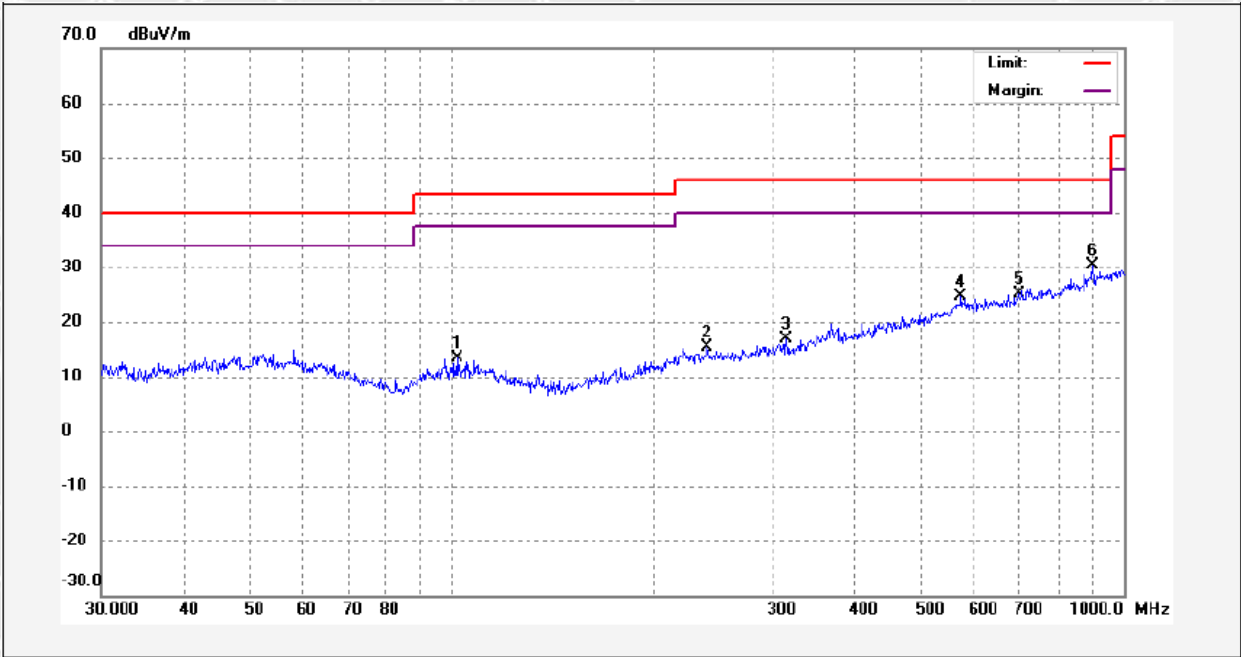


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	43.2168	0.21	14.01	14.22	40.00	-25.78	peak	
2	57.3520	-0.15	14.36	14.21	40.00	-25.79	peak	
3	108.2666	0.09	12.86	12.95	43.50	-30.55	peak	
4	288.5968	0.97	15.48	16.45	46.00	-29.55	peak	
5	463.1568	1.39	19.34	20.73	46.00	-25.27	peak	
6	766.5946	2.25	25.19	27.44	46.00	-18.56	peak	



Test Channel High Channel

Polarization Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	101.8584	0.73	12.58	13.31	43.50	-30.19	peak	
2	239.6510	0.83	14.64	15.47	46.00	-30.53	peak	
3	314.7073	1.11	15.80	16.91	46.00	-29.09	peak	
4	573.0161	1.80	22.80	24.60	46.00	-21.40	peak	
5	700.2861	0.74	24.37	25.11	46.00	-20.89	peak	
6	902.0433	3.55	26.72	30.27	46.00	-15.73	peak	

**Test Frequency: Above 1GHz****Test Mode: 802.11b (worst case)**

Frequency (MHz)	Reading (dBμV/m)	Detector	Polar (H/V)	Corrected Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel							
4824.00	47.03	Peak	H	-3.59	43.44	74	-30.56
4824.00	37.27	AVG	H	-3.59	33.68	54	-20.32
7236.00	47.05	Peak	H	3.07	50.12	74	-23.88
7236.00	37.46	AVG	H	3.07	40.53	54	-13.47
4824.00	49.61	Peak	V	-3.46	46.15	74	-27.85
4824.00	39.85	AVG	V	-3.46	36.39	54	-17.61
7236.00	46.48	Peak	V	2.97	49.45	74	-24.55
7236.00	35.62	AVG	V	2.97	38.59	54	-15.41
Middle Channel							
4874.00	41.32	Peak	H	-3.41	37.91	74	-36.09
4874.00	31.14	AVG	H	-3.41	27.73	54	-26.27
7311.00	35.15	Peak	H	3.23	38.38	74	-35.62
7311.00	24.59	AVG	H	3.23	27.82	54	-26.18
4874.00	54.92	Peak	V	-3.26	51.66	74	-22.34
4874.00	44.54	AVG	V	-3.26	41.28	54	-12.72
7311.00	49.33	Peak	V	3.13	52.46	74	-21.54
7311.00	39.56	AVG	V	3.13	42.69	54	-11.31
High Channel							
4924.00	56.66	Peak	H	-3.24	53.42	74	-20.58
4924.00	46.81	AVG	H	-3.24	43.57	54	-10.43
7386.00	48.26	Peak	H	3.38	51.64	74	-22.36
7386.00	37.98	AVG	H	3.38	41.36	54	-12.64
4924.00	57.03	Peak	V	-3.06	53.97	74	-20.03
4924.00	45.64	AVG	V	-3.06	42.58	54	-11.42
7386.00	49.08	Peak	V	3.28	52.36	74	-21.64
7386.00	36.85	AVG	V	3.28	40.13	54	-13.87

Note: Testing is carried out with frequency range 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



6.3 Power Spectral Density

6.3.1 Standard Applicable

According to 15.247(a)(1)(iii), 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.

6.3.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

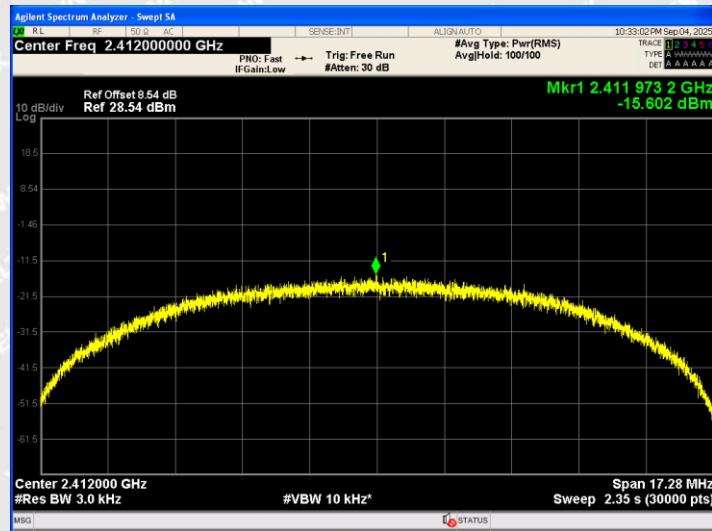
6.3.3 Test Result

Test Mode	Test Channel(MHz)	Test Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-15.602	8
	2437	-15.209	8
	2462	-14.960	8
802.11g	2412	-16.637	8
	2437	-16.331	8
	2462	-16.339	8
802.11n (HT20)	2412	-17.610	8
	2437	-17.377	8
	2462	-16.852	8
802.11n (HT40)	2422	-20.048	8
	2437	-18.287	8
	2452	-19.087	8

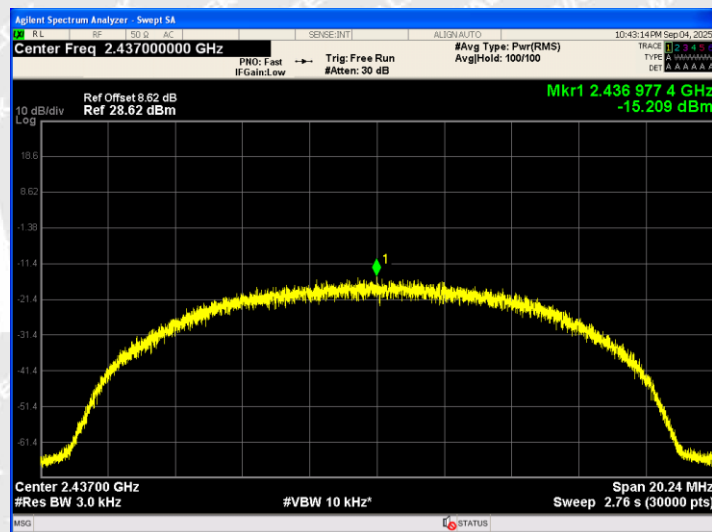


Test plots:

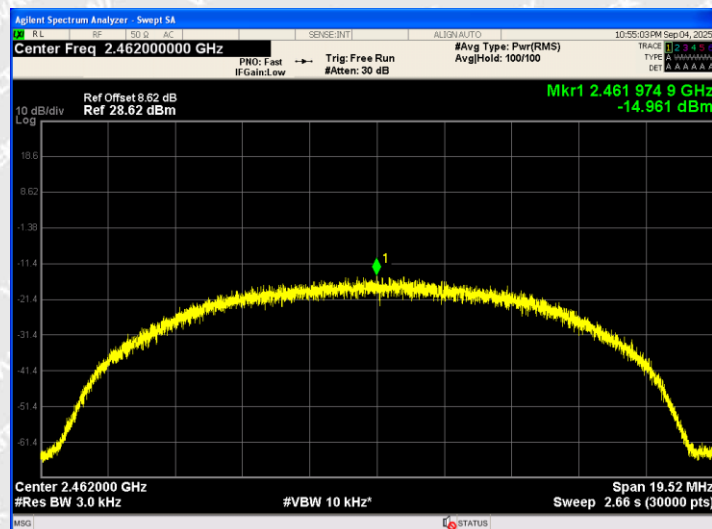
802.11b_Low Channel



802.11b_Middle Channel

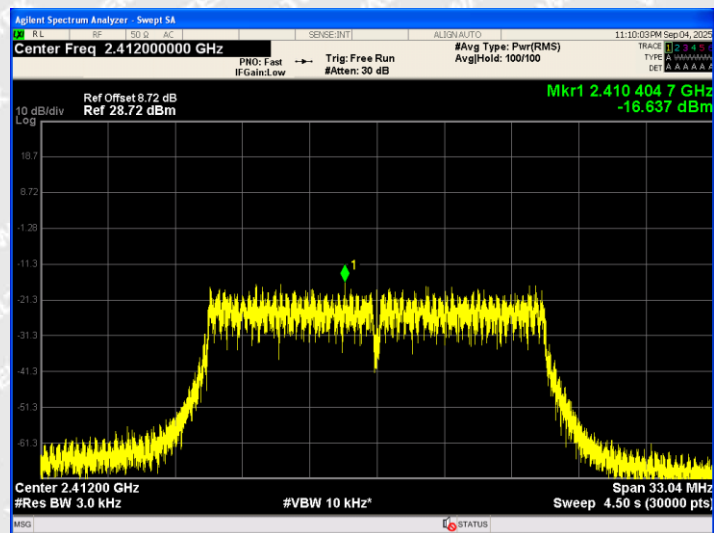


802.11b_High Channel

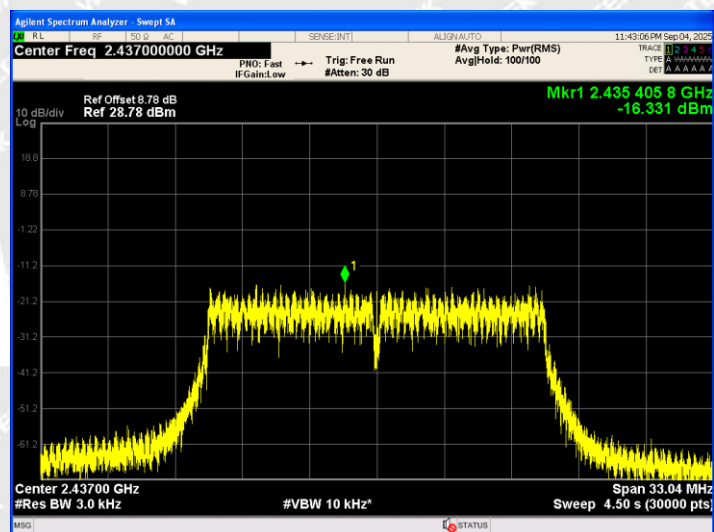




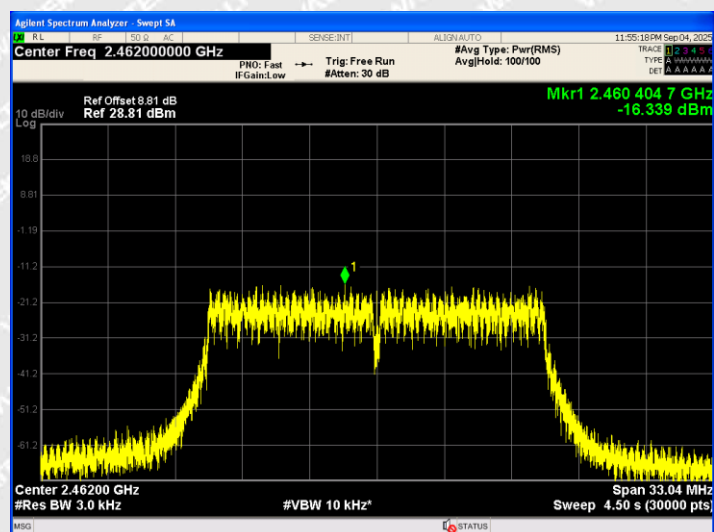
802.11g_Low Channel



802.11g_Middle Channel

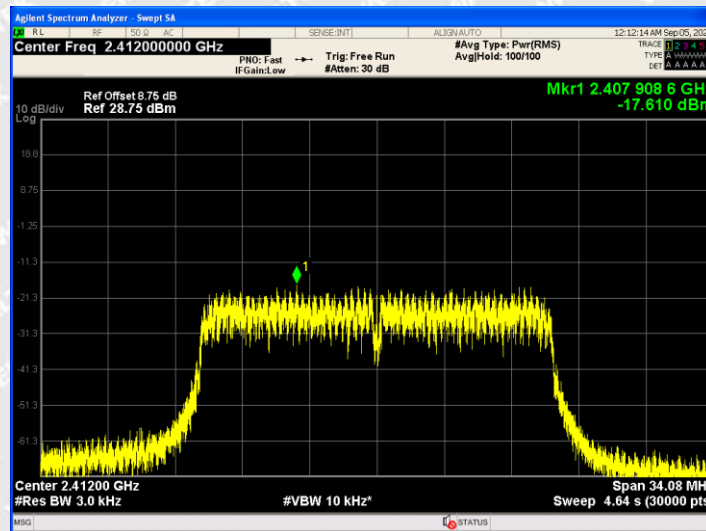


802.11g_High Channel

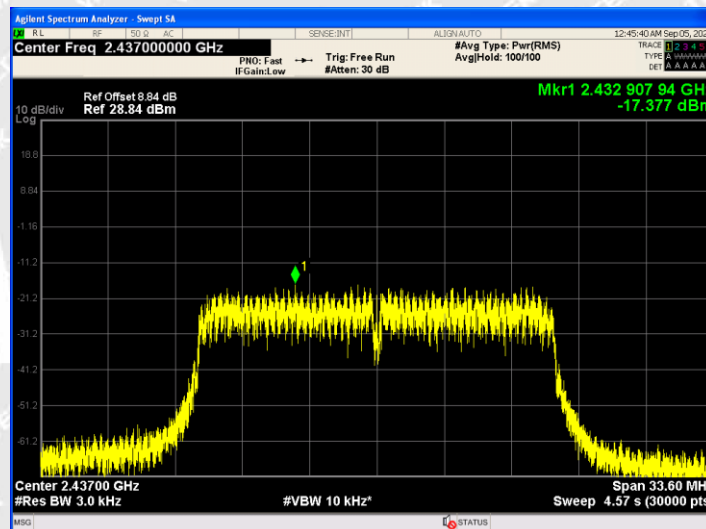




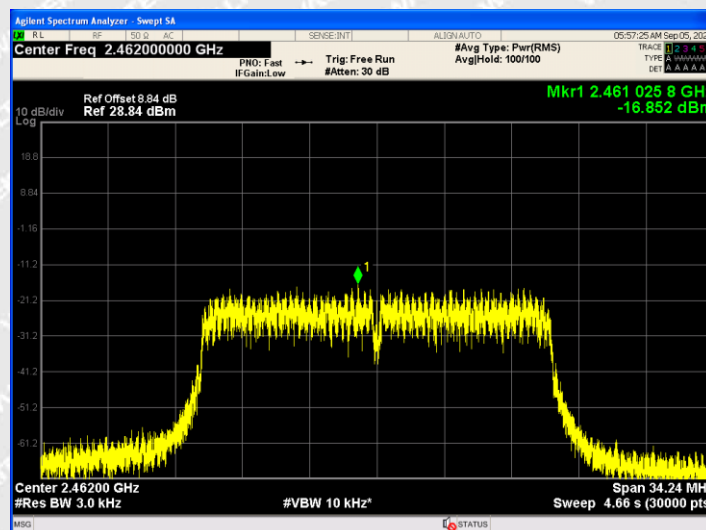
802.11n(HT20)_Low Channel



802.11n(HT20)_Middle Channel

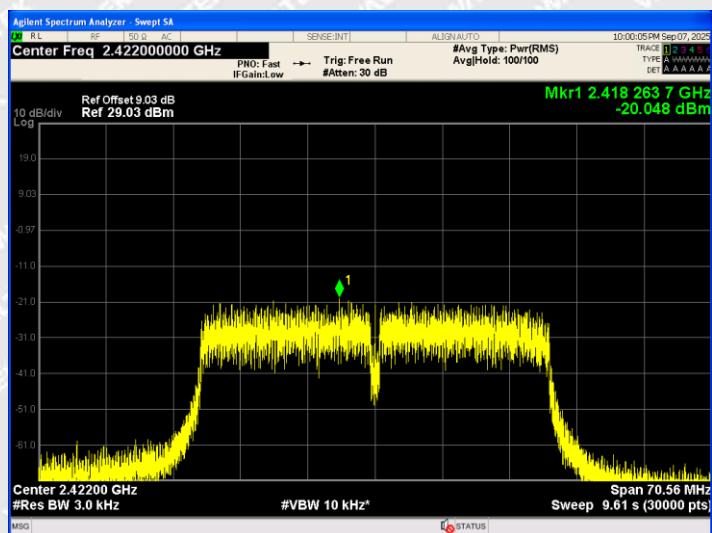


802.11n(HT20)_High Channel

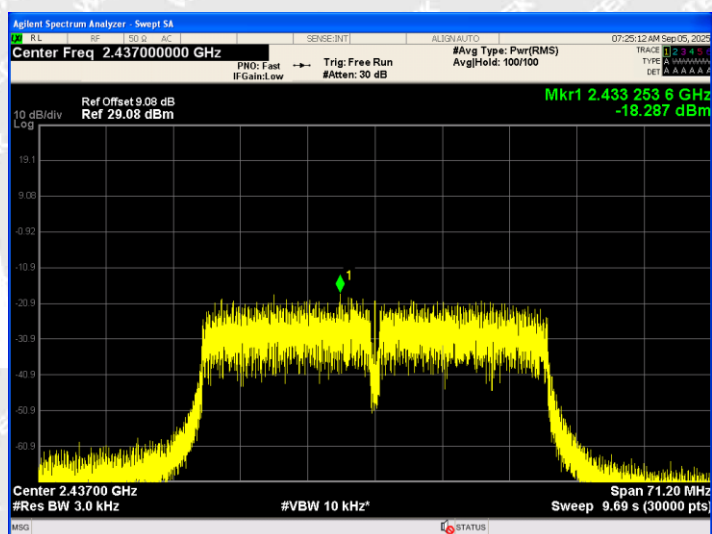




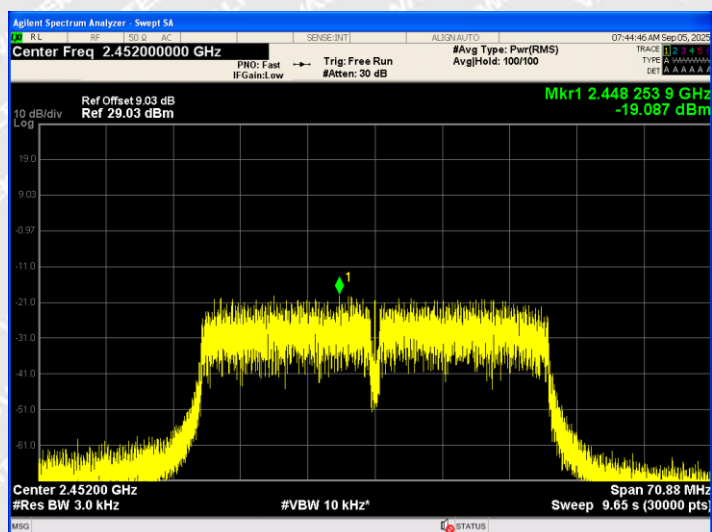
802.11n(HT40)_Low Channel



802.11n(HT40)_Middle Channel



802.11n(HT40)_High Channel





6.4 DTS Bandwidth

6.4.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.4.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020 Subclause 11.8.1, the test method of DTS Bandwidth as below:

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

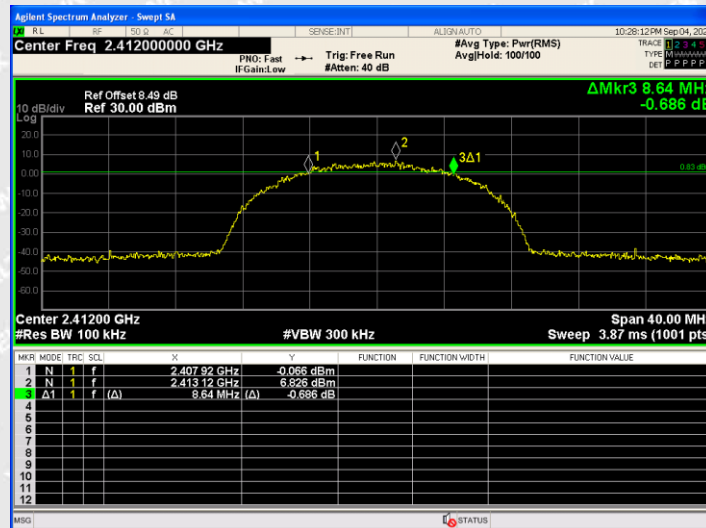
6.4.3 Test Result

Test Mode	Test Channel (MHz)	Test Result (MHz)	Limit (kHz)
802.11b	2412	8.64	≥ 500
	2437	10.12	≥ 500
	2462	9.76	≥ 500
802.11g	2412	16.52	≥ 500
	2437	16.52	≥ 500
	2462	16.52	≥ 500
802.11n (HT20)	2412	17.04	≥ 500
	2437	16.80	≥ 500
	2462	17.12	≥ 500
802.11n (HT40)	2422	35.28	≥ 500
	2437	35.60	≥ 500
	2452	35.44	≥ 500



Test plots:

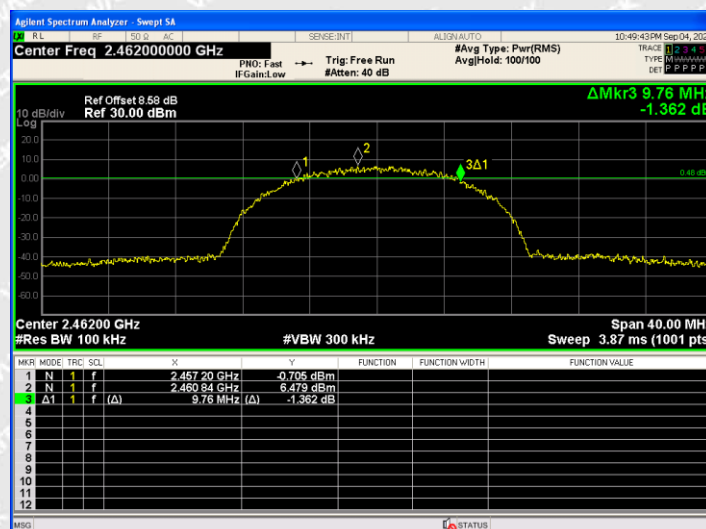
802.11b_Low Channel



802.11b_Middle Channel

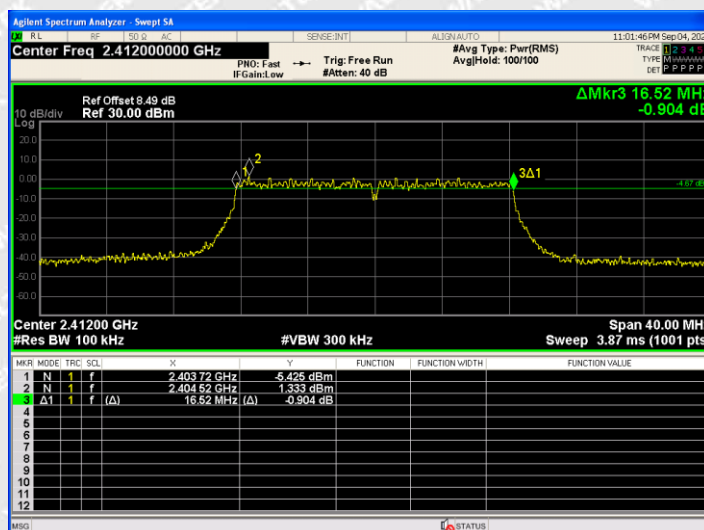


802.11b_High Channel

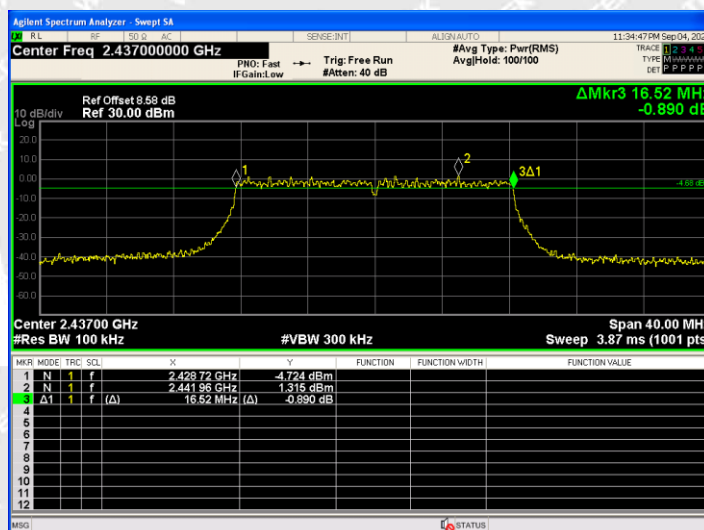




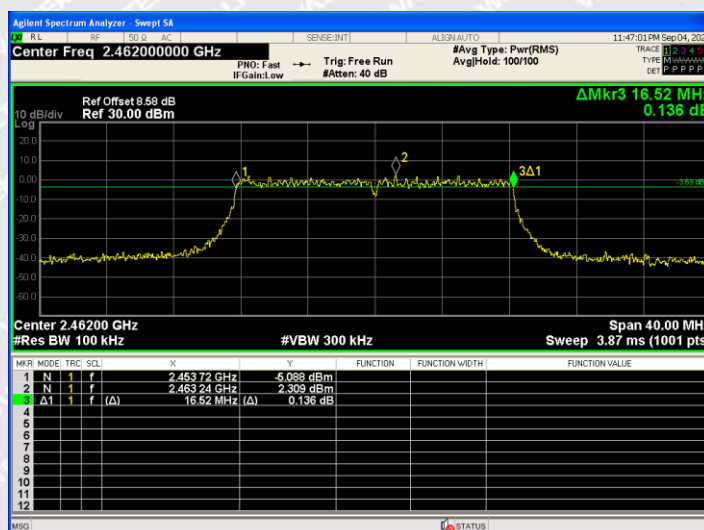
802.11g_Low Channel



802.11g_Middle Channel

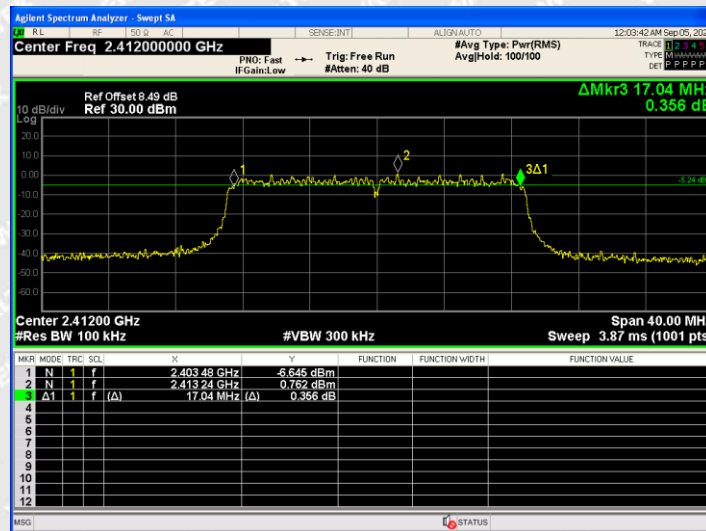


802.11g_High Channel

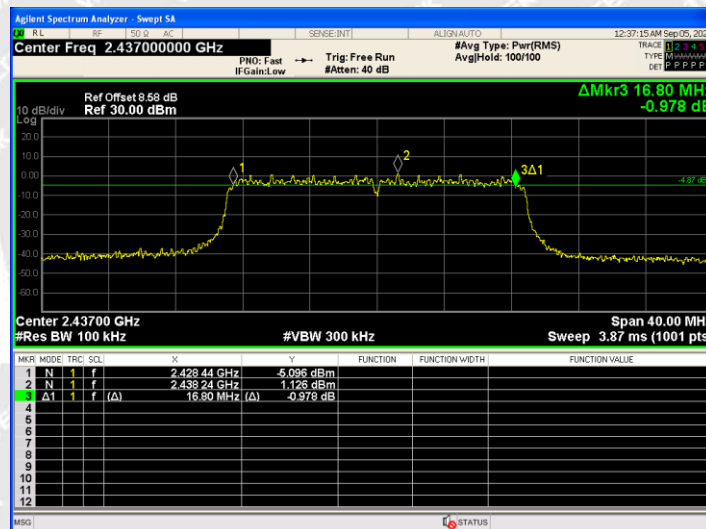




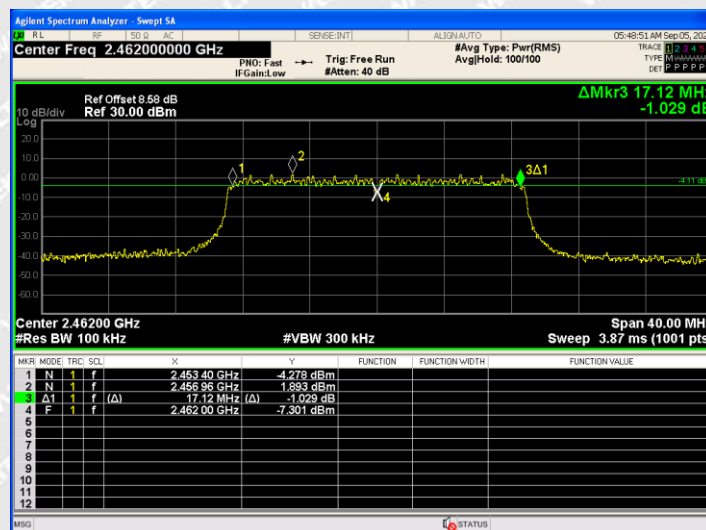
802.11n(HT20)_Low Channel



802.11n(HT20)_Middle Channel

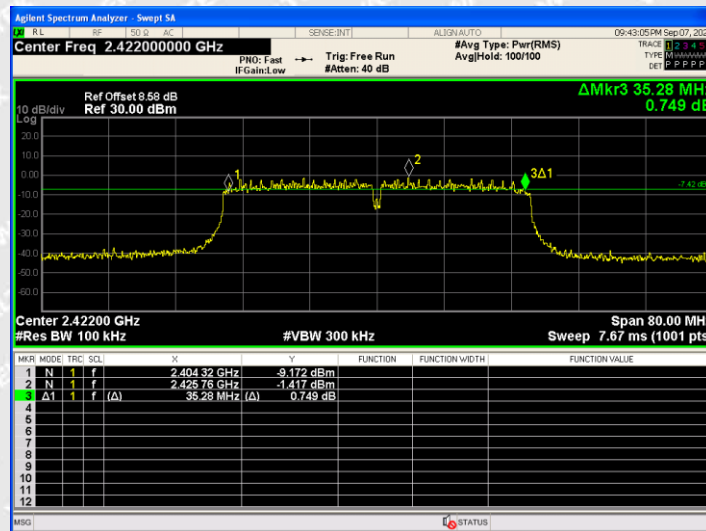


802.11n(HT20)_High Channel

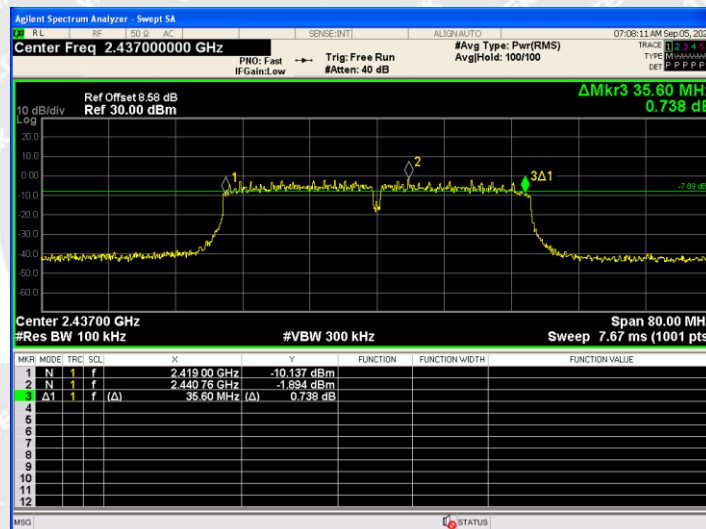




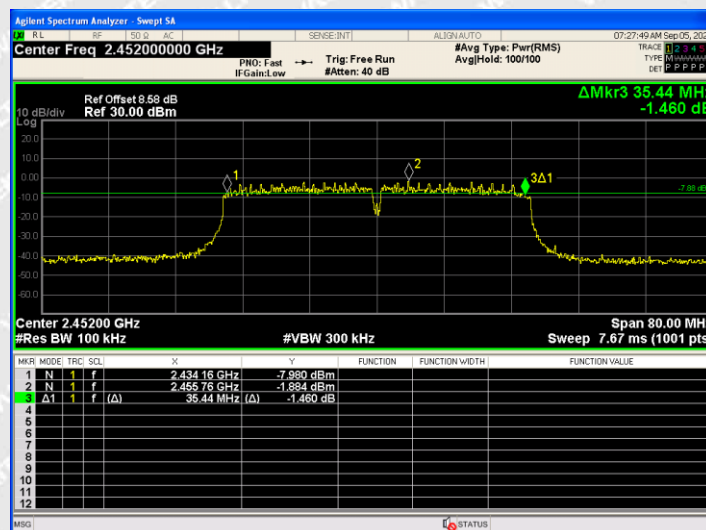
802.11n(HT40)_Low Channel



802.11n(HT40)_Middle Channel



802.11n(HT40)_High Channel





6.5 RF Output Power

6.5.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.5.2 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2020 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\geq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.



6.5.3 Test Result

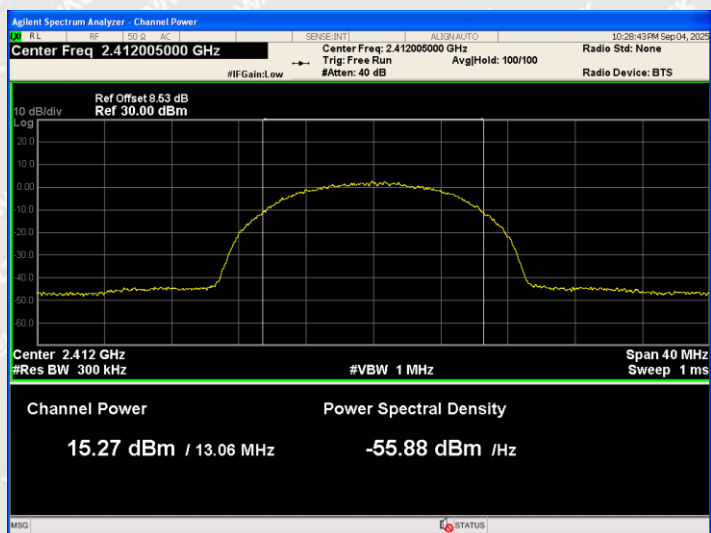
Modulation	Test Channel (MHz)	Reading (dBm)	Output Power (mW)	Limit (mW)
802.11b	2412	15.27	33.65	1000
	2437	15.21	33.19	1000
	2462	15.61	36.39	1000
802.11g	2412	12.6	18.20	1000
	2437	13.24	21.09	1000
	2462	13.46	22.18	1000
802.11n (HT20)	2412	12.08	16.14	1000
	2437	12.26	16.83	1000
	2462	13.15	20.65	1000
802.11n (HT40)	2422	12.02	15.92	1000
	2437	12.28	16.90	1000
	2452	12.29	16.94	1000

WALTEK

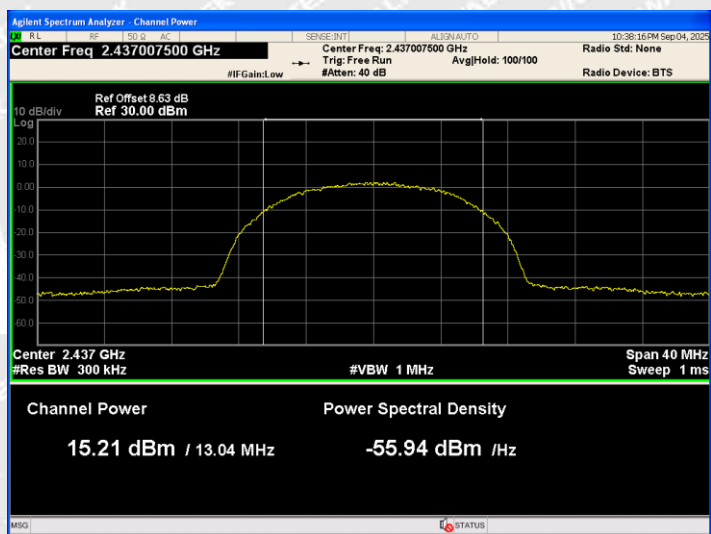


Test plots:

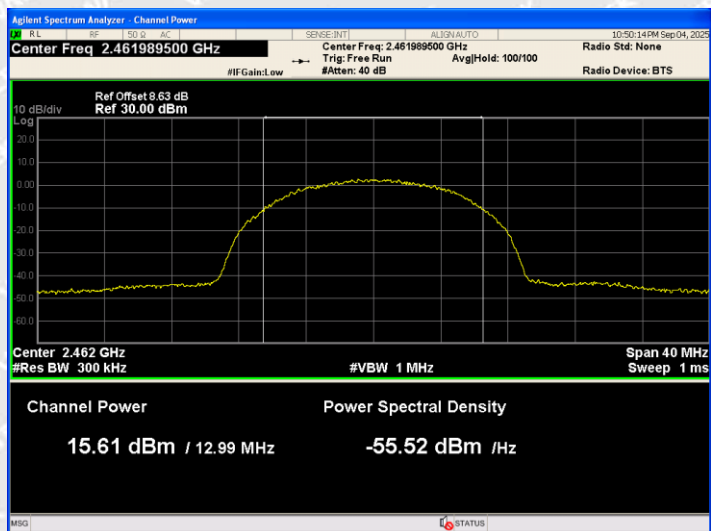
802.11b_Low Channel

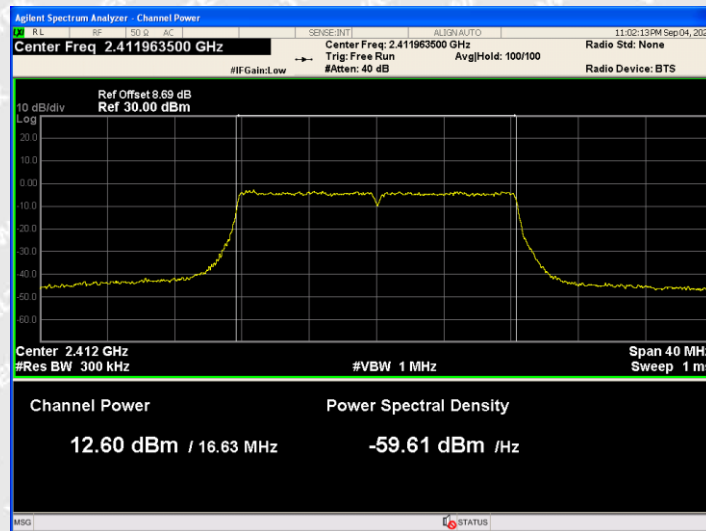
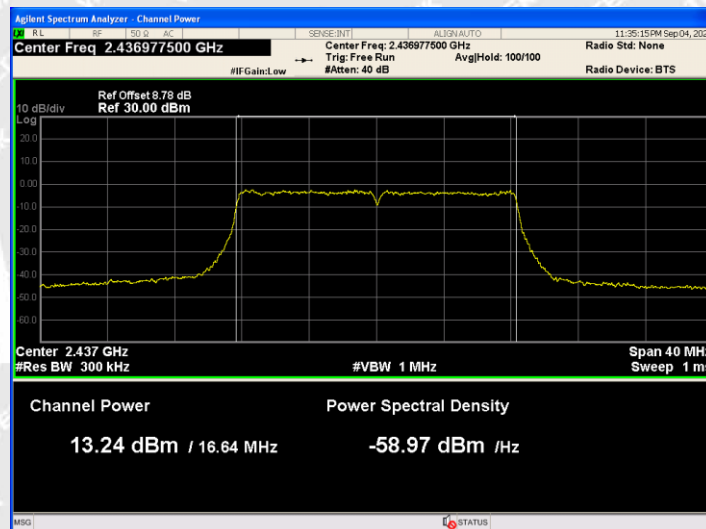
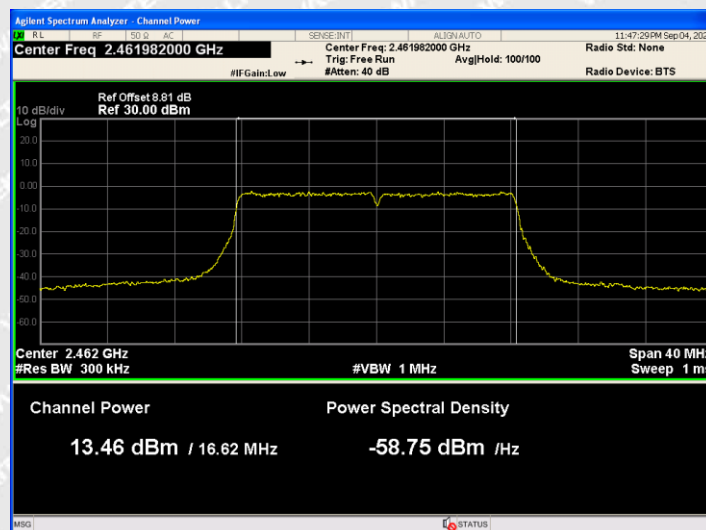


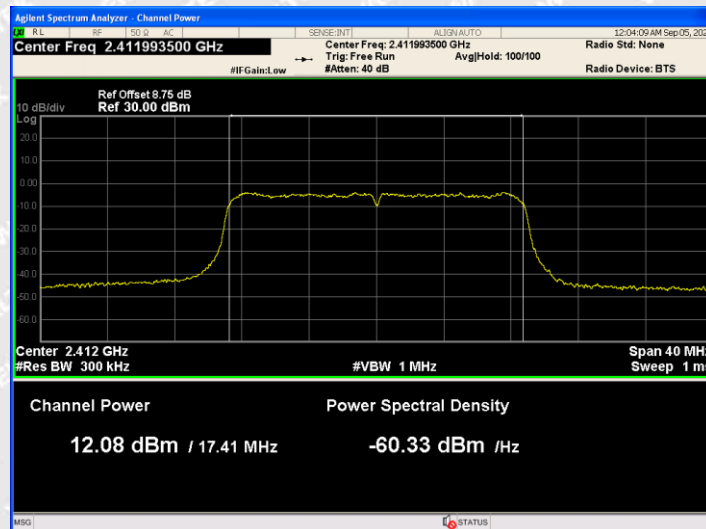
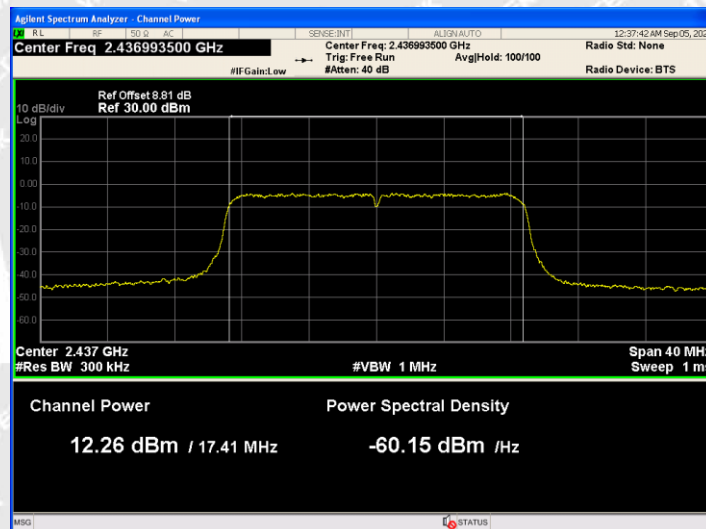
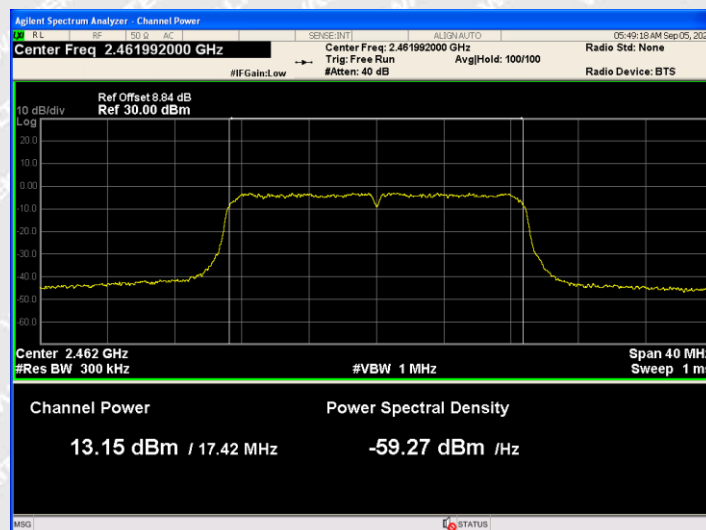
802.11b_Middle Channel

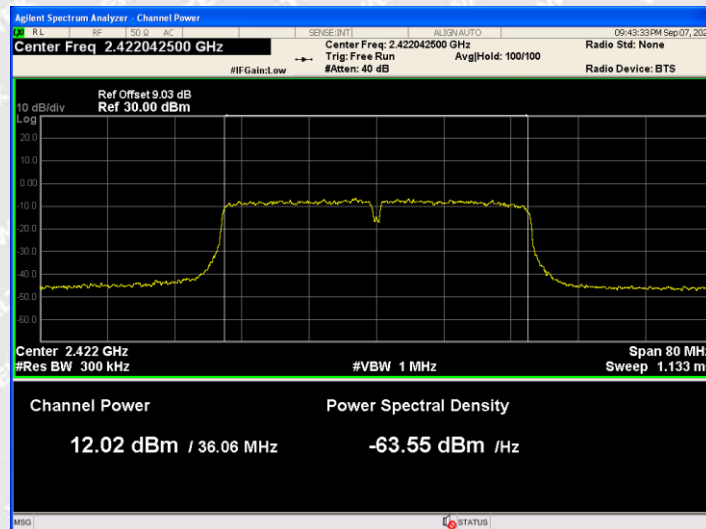
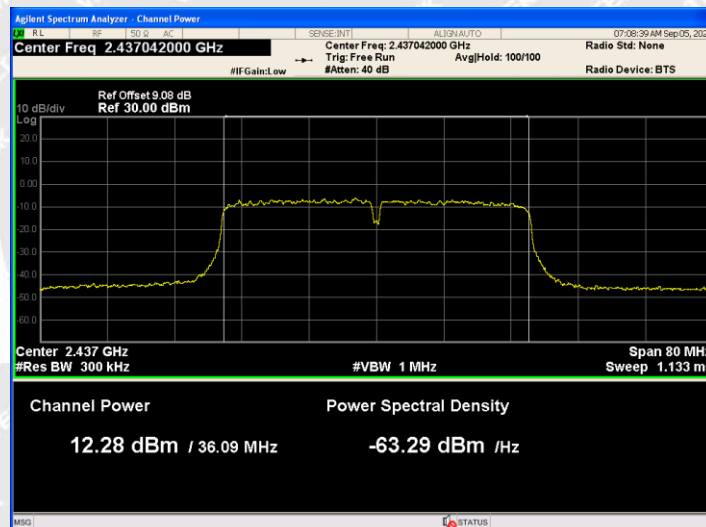
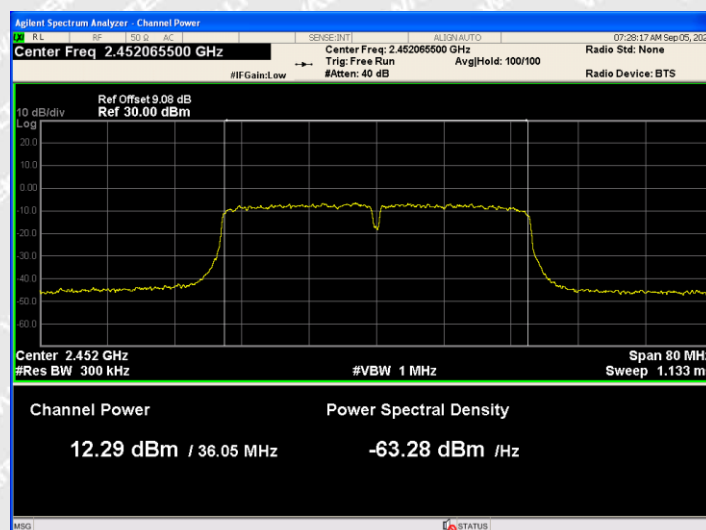


802.11b_High Channel



**802.11g_Low Channel****802.11g_Middle Channel****802.11g_High Channel**

**802.11n(HT20)_Low Channel****802.11n(HT20)_Middle Channel****802.11n(HT20)_High Channel**

**802.11n(HT40)_Low Channel****802.11n(HT40)_Middle Channel****802.11n(HT40)_High Channel**



6.6 Out of Band Emissions

6.6.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

6.6.2 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge,

as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz

for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emissions must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205.



Note that the method of measurement KDB publication number: 913591 may be used for the radiated band edge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9/
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1.



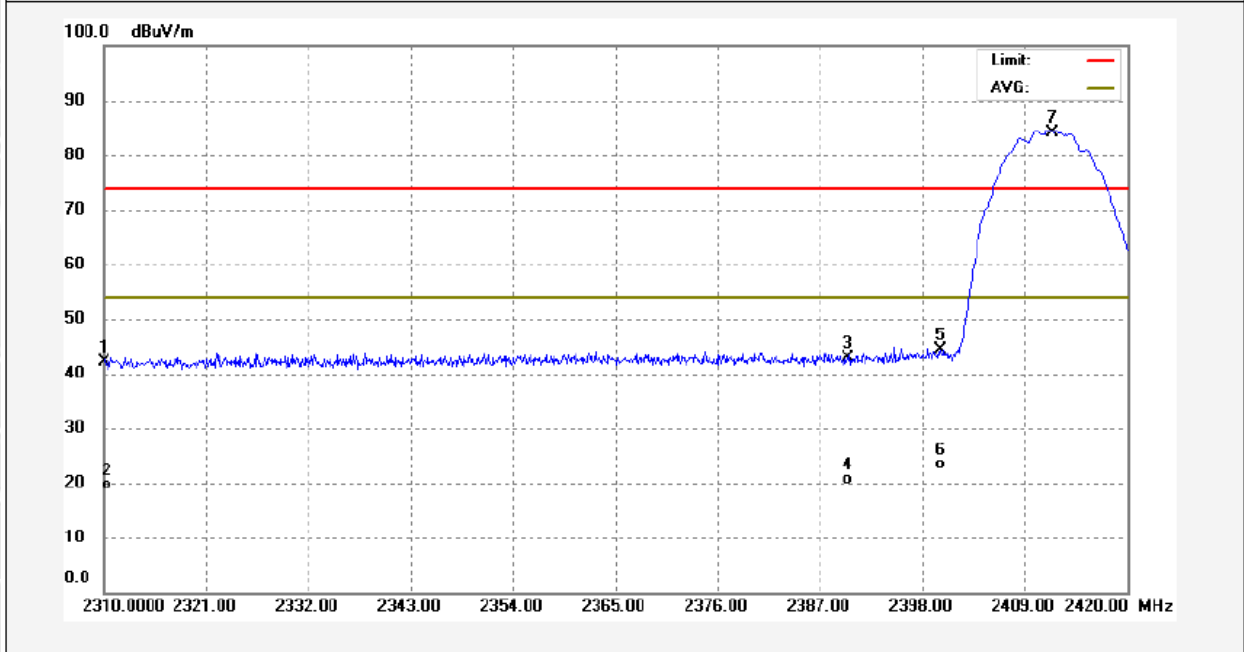
6.6.3 Test Result

Radiated Test

802.11b

Test Channel Low Channel

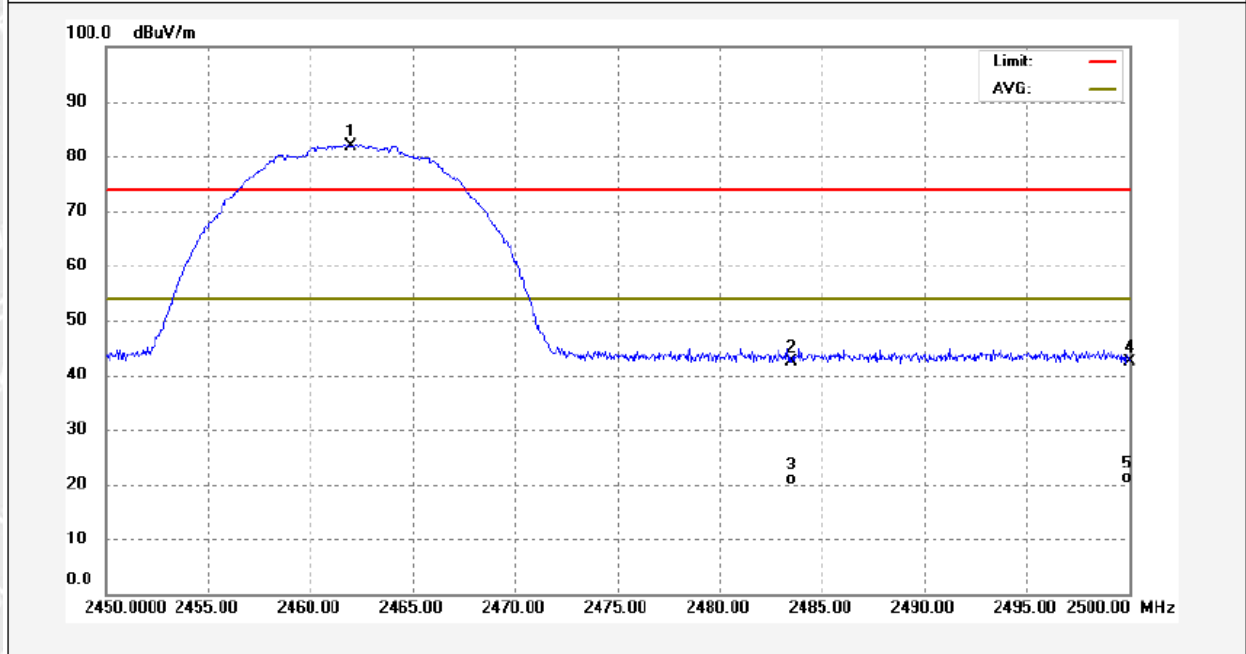
Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	10.18	31.90	42.08	74.00	-31.92	peak	
2	2310.000	-12.16	31.90	19.74	54.00	-34.26	AVG	
3	2390.000	10.52	32.24	42.76	74.00	-31.24	peak	
4	2390.000	-11.73	32.24	20.51	54.00	-33.49	AVG	
5	2400.000	12.15	32.28	44.43	74.00	-29.57	peak	
6	2400.000	-8.85	32.28	23.43	54.00	-30.57	AVG	
7	2412.000	51.70	32.33	84.03	74.00	10.03	peak	



Test Channel High Channel Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	49.35	32.54	81.89	74.00	7.89	peak	
2	2483.500	9.84	32.63	42.47	74.00	-31.53	peak	
3	2483.500	-11.65	32.63	20.98	54.00	-33.02	AVG	
4	2500.000	9.80	32.70	42.50	74.00	-31.50	peak	
5	2500.000	-11.53	32.70	21.17	54.00	-32.83	AVG	



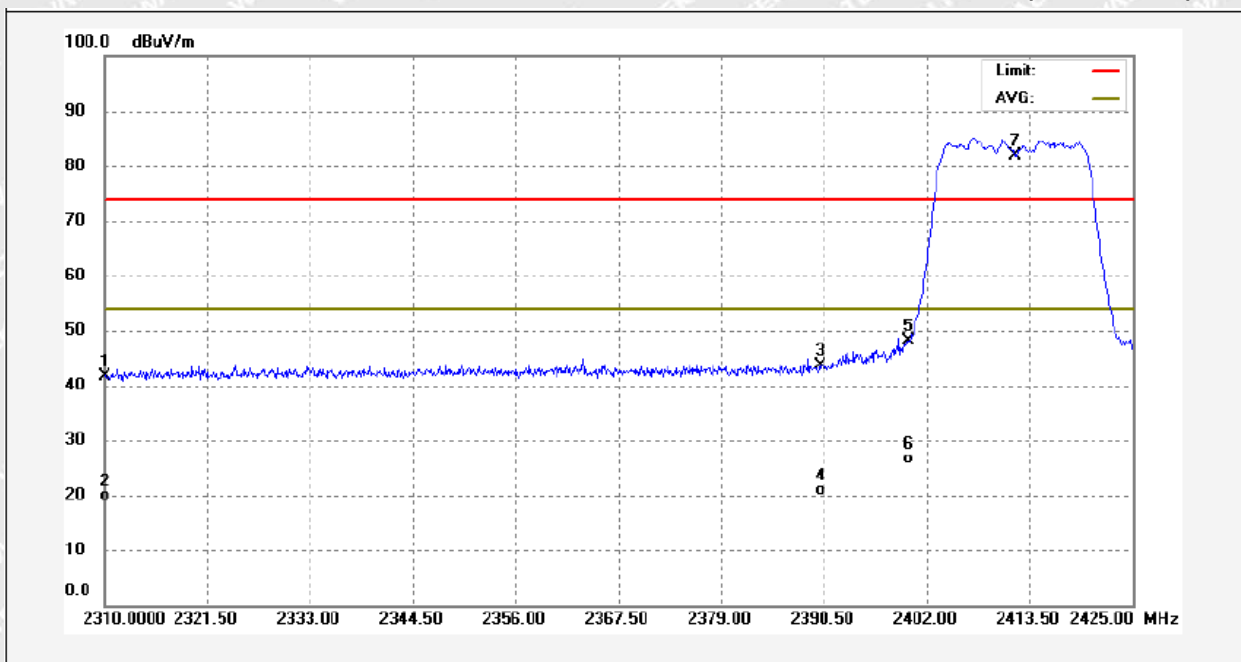
802.11g

Test Channel

Low Channel

Polarization

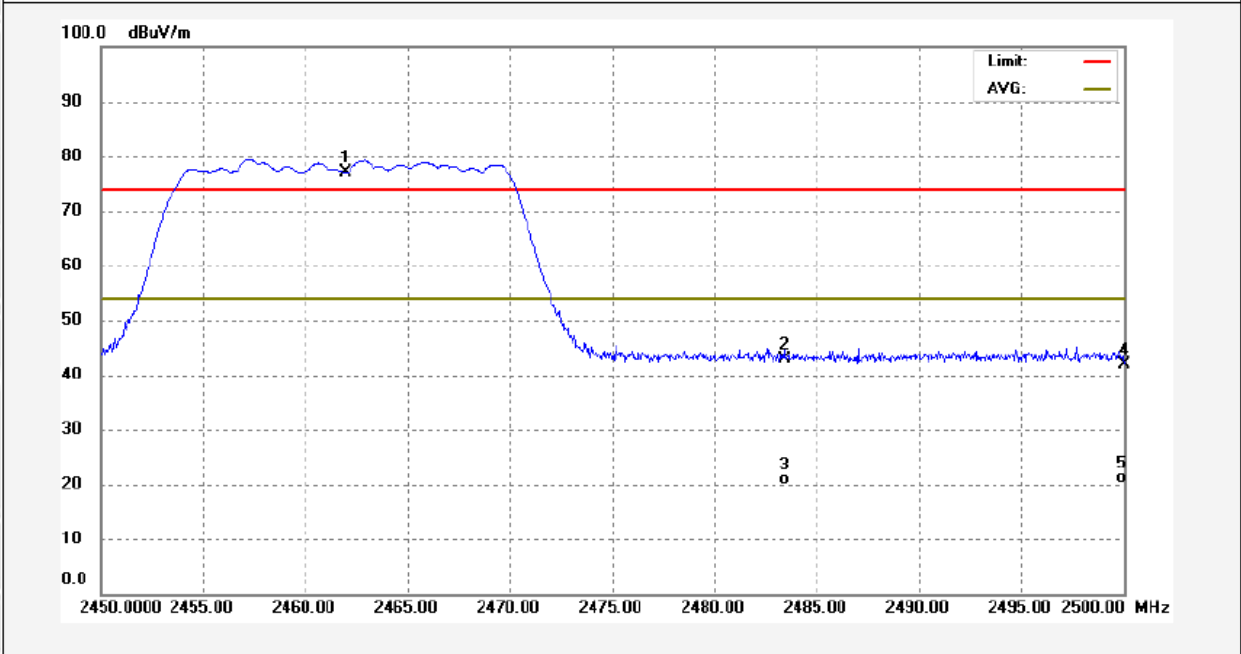
Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	9.72	31.90	41.62	74.00	-32.38	peak	
2	2310.000	-12.14	31.90	19.76	54.00	-34.24	AVG	
3	2390.000	11.27	32.24	43.51	74.00	-30.49	peak	
4	2390.000	-11.37	32.24	20.87	54.00	-33.13	AVG	
5	2400.000	15.77	32.28	48.05	74.00	-25.95	peak	
6	2400.000	-5.54	32.28	26.74	54.00	-27.26	AVG	
7	2412.000	49.60	32.33	81.93	74.00	7.93	peak	



Test Channel High Channel Polarization Horizontal (worst case)



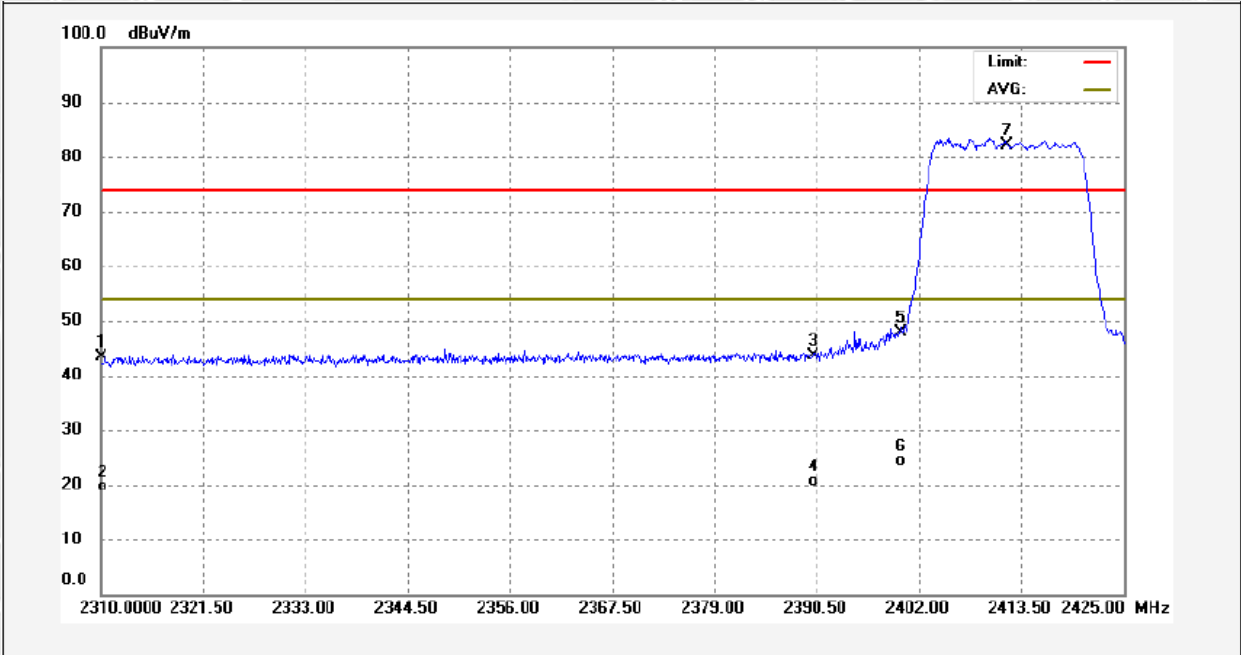
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	44.57	32.54	77.11	74.00	3.11	peak	
2	2483.500	10.34	32.63	42.97	74.00	-31.03	peak	
3	2483.500	-11.73	32.63	20.90	54.00	-33.10	AVG	
4	2500.000	9.17	32.70	41.87	74.00	-32.13	peak	
5	2500.000	-11.65	32.70	21.05	54.00	-32.95	AVG	



802.11n(HT20)

Test Channel Low Channel

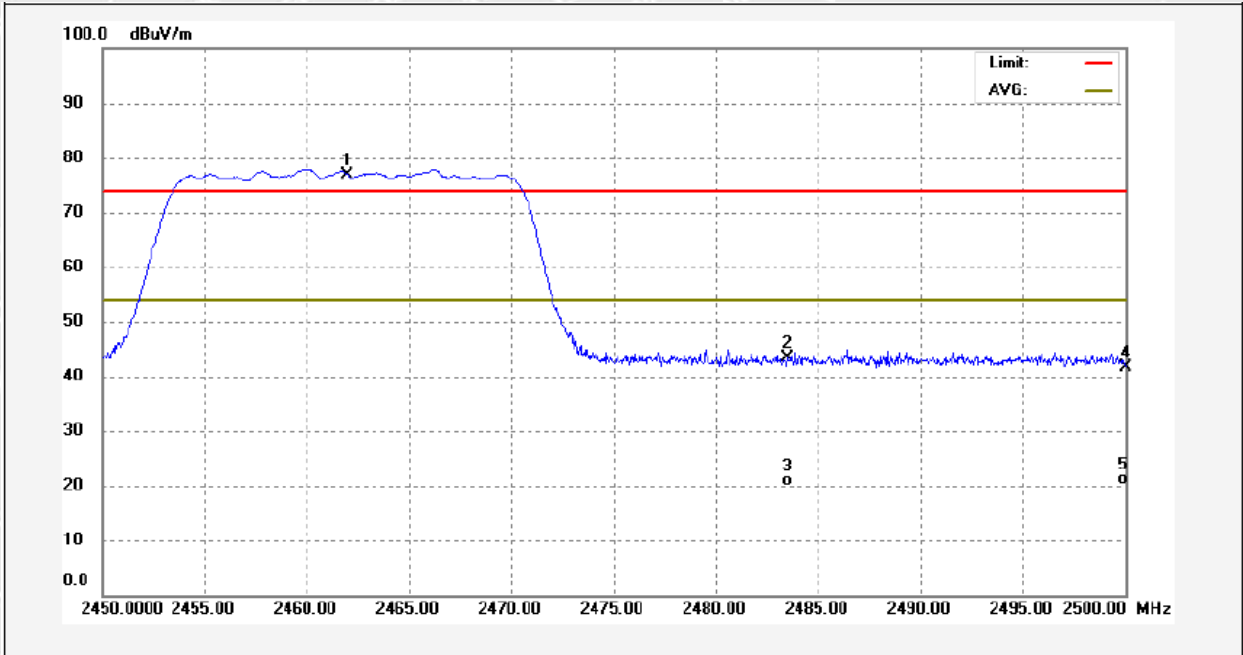
Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	11.39	31.90	43.29	74.00	-30.71	peak	
2	2310.000	-12.15	31.90	19.75	54.00	-34.25	AVG	
3	2390.000	11.32	32.24	43.56	74.00	-30.44	peak	
4	2390.000	-11.58	32.24	20.66	54.00	-33.34	AVG	
5	2400.000	15.70	32.28	47.98	74.00	-26.02	peak	
6	2400.000	-7.90	32.28	24.38	54.00	-29.62	AVG	
7	2412.000	49.89	32.33	82.22	74.00	8.22	peak	



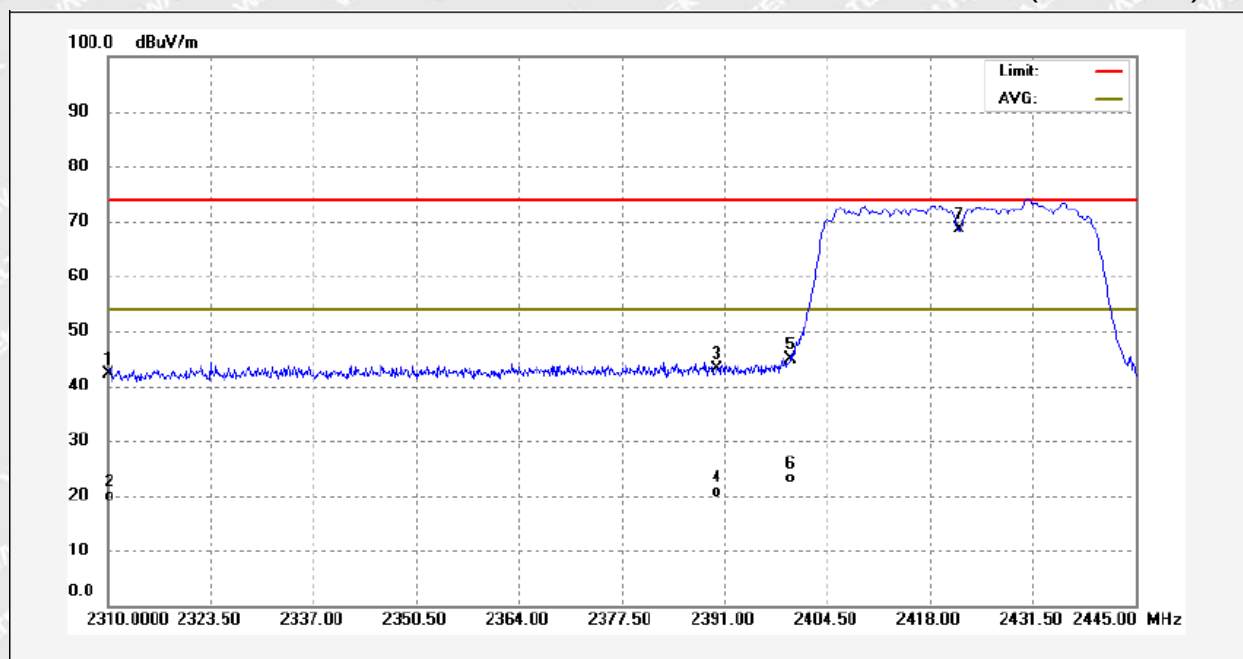
Test Channel High Channel Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	44.34	32.54	76.88	74.00	2.88	peak	
2	2483.500	10.74	32.63	43.37	74.00	-30.63	peak	
3	2483.500	-11.73	32.63	20.90	54.00	-33.10	AVG	
4	2500.000	8.86	32.70	41.56	74.00	-32.44	peak	
5	2500.000	-11.68	32.70	21.02	54.00	-32.98	AVG	

**802.11n(HT40)****Test Channel** Low Channel**Polarization**

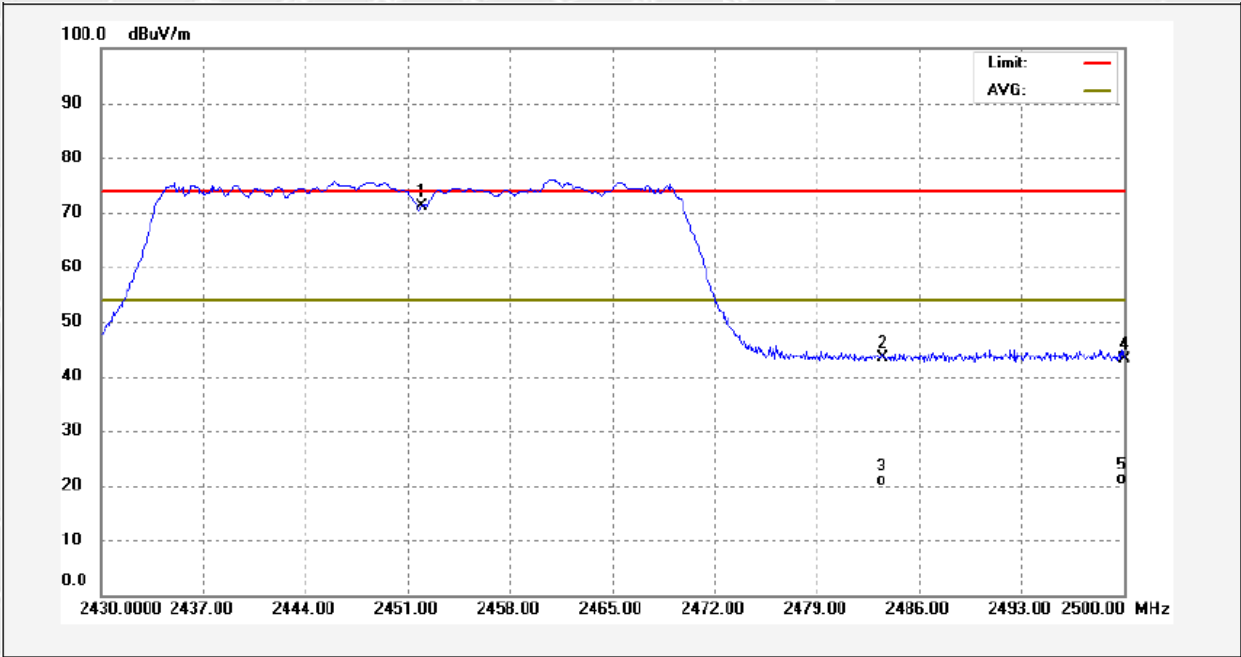
Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2310.000	10.33	31.90	42.23	74.00	-31.77	peak	
2	2310.000	-12.14	31.90	19.76	54.00	-34.24	AVG	
3	2390.000	10.93	32.24	43.17	74.00	-30.83	peak	
4	2390.000	-11.68	32.24	20.56	54.00	-33.44	AVG	
5	2400.000	12.70	32.28	44.98	74.00	-29.02	peak	
6	2400.000	-9.21	32.28	23.07	54.00	-30.93	AVG	
7	2422.000	36.31	32.38	68.69	74.00	-5.31	peak	



Test Channel High Channel Polarization Horizontal (worst case)



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2452.000	38.56	32.50	71.06	74.00	-2.94	peak	
2	2483.500	10.65	32.63	43.28	74.00	-30.72	peak	
3	2483.500	-11.67	32.63	20.96	54.00	-33.04	AVG	
4	2500.000	10.38	32.70	43.08	74.00	-30.92	peak	
5	2500.000	-11.66	32.70	21.04	54.00	-32.96	AVG	

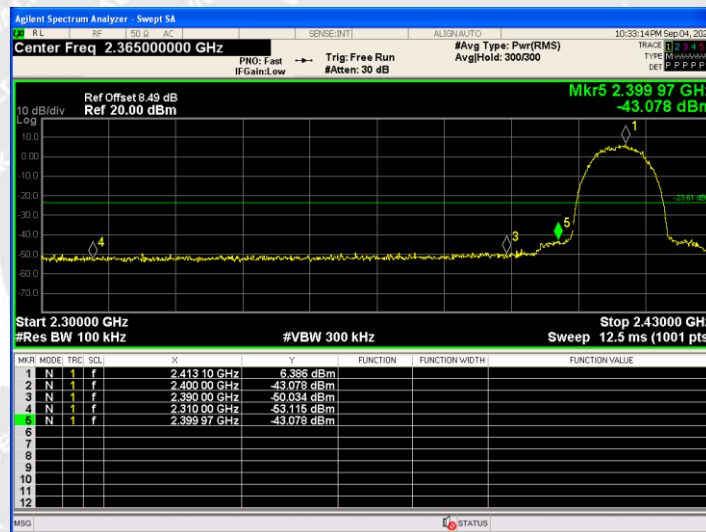


Conducted Test

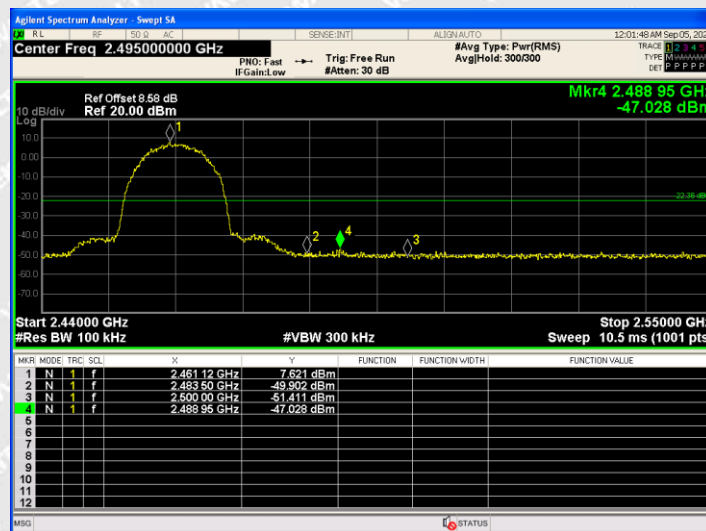
Test Mode	Channel (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
802.11b	2412	6.39	-43.08	<=-23.61	Pass
	2462	7.62	-47.03	<=-22.38	Pass
802.11g	2412	1.71	-37.27	<=-28.29	Pass
	2462	2.42	-44.05	<=-27.58	Pass
802.11n (HT20)	2412	1.33	-38.12	<=-28.67	Pass
	2462	1.74	-45.25	<=-28.26	Pass
802.11n (HT40)	2422	-2.56	-40.47	<=-32.56	Pass
	2452	-1.97	-45.83	<=-31.97	Pass

Test Plots:

802.11b_Low Channel

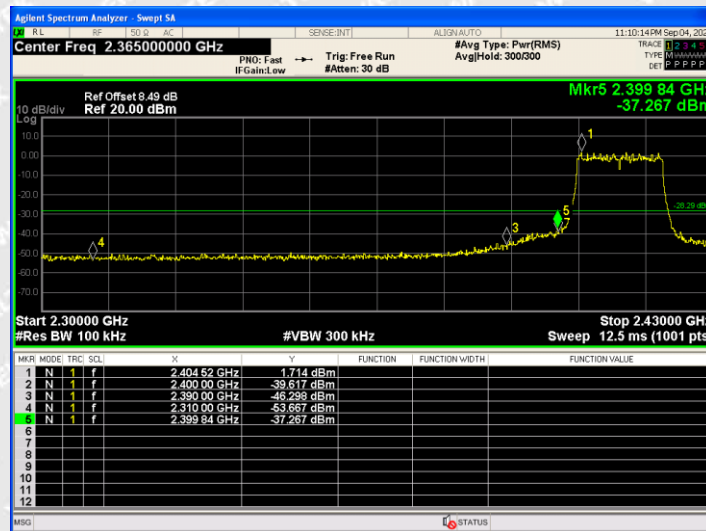


802.11b_High Channel

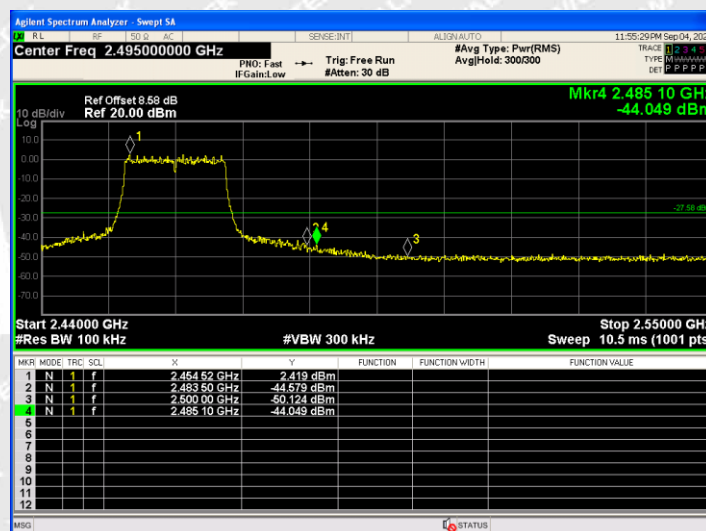




802.11g_Low Channel

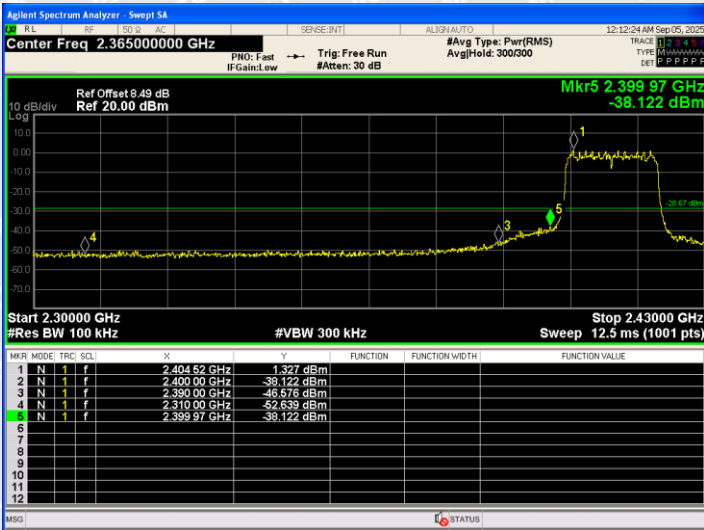


802.11g_High Channel

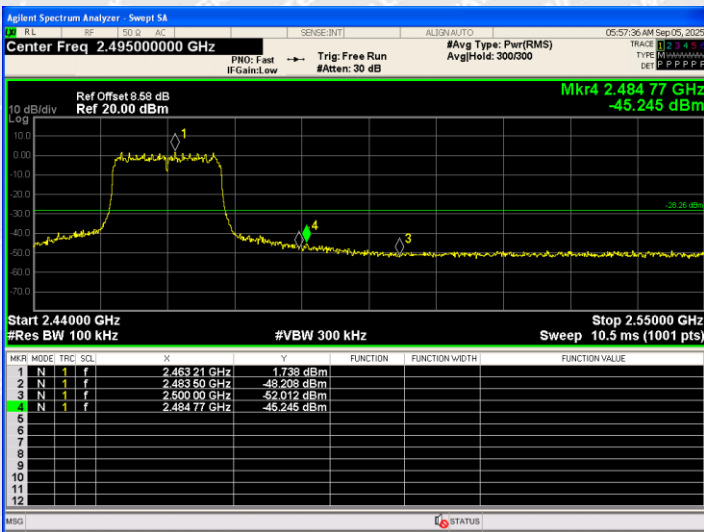




802.11n (HT20)_Low Channel

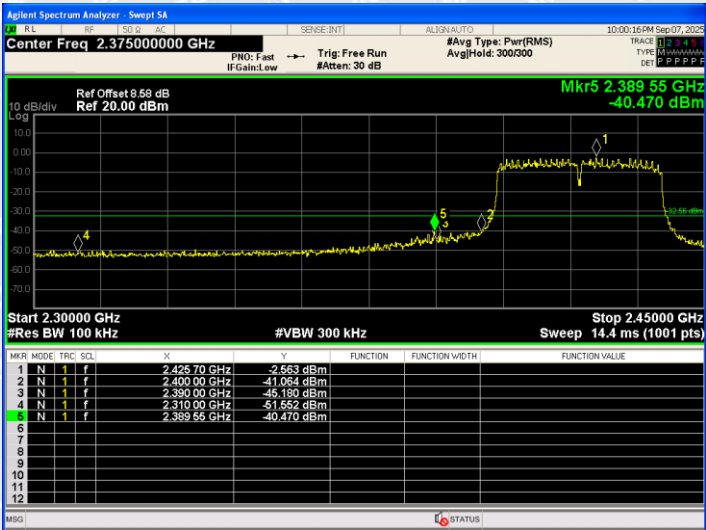


802.11n (HT20)_High Channel

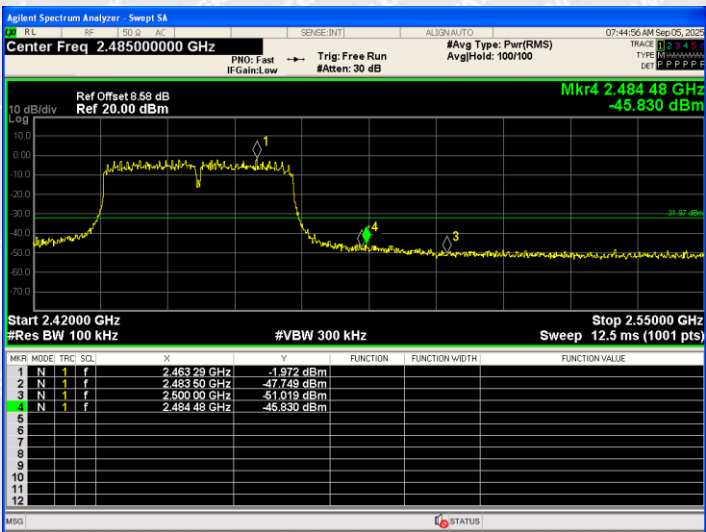




802.11n (HT40)_Low Channel



802.11n (HT40)_High Channel





6.7 Conducted Emissions

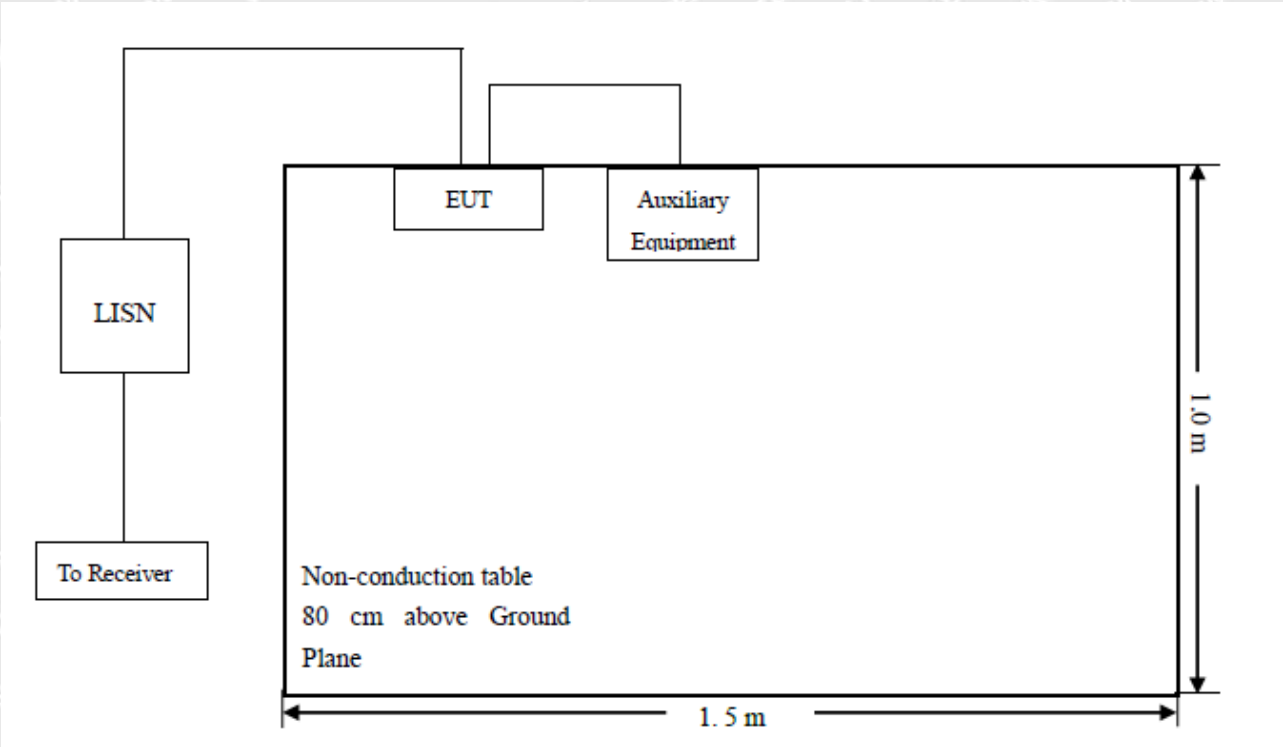
6.7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

6.7.2 Basic Test Setup Block Diagram



6.7.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150 kHz
Stop Frequency.....	30 MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth.....	9 kHz
Quasi-Peak Adapter Mode.....	Normal



6.7.4 Measurement Description

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

6.7.5 Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF(Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Measurement} = \text{Reading Level} + \text{Correct Factor}$$

$$\text{Correct Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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

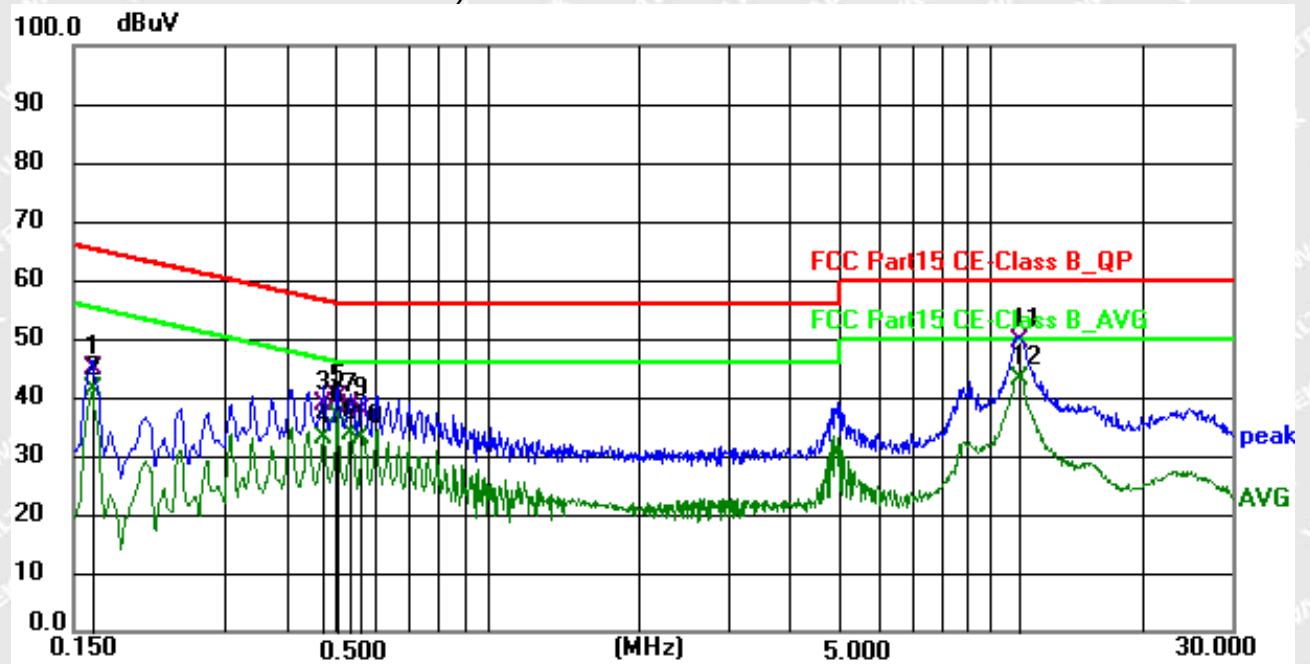
$$\text{Margin} = \text{Measurement} - \text{Limit}$$

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6.7.6 Test Result

Test Mode Communication mode(AC Polarity Line
120V/50/60Hz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1635	35.29	9.67	44.96	65.28	-20.32	QP	
2		0.1635	31.42	9.67	41.09	55.28	-14.19	AVG	
3		0.4695	29.12	9.69	38.81	56.52	-17.71	QP	
4		0.4695	23.37	9.69	33.06	46.52	-13.46	AVG	
5		0.5010	29.96	9.69	39.65	56.00	-16.35	QP	
6		0.5010	26.86	9.69	36.55	46.00	-9.45	AVG	
7		0.5325	28.58	9.69	38.27	56.00	-17.73	QP	
8		0.5325	24.07	9.69	33.76	46.00	-12.24	AVG	
9		0.5639	28.07	9.69	37.76	56.00	-18.24	QP	
10		0.5639	23.39	9.69	33.08	46.00	-12.92	AVG	
11		11.3640	39.45	10.02	49.47	60.00	-10.53	QP	
12	*	11.3640	33.08	10.02	43.10	50.00	-6.90	AVG	



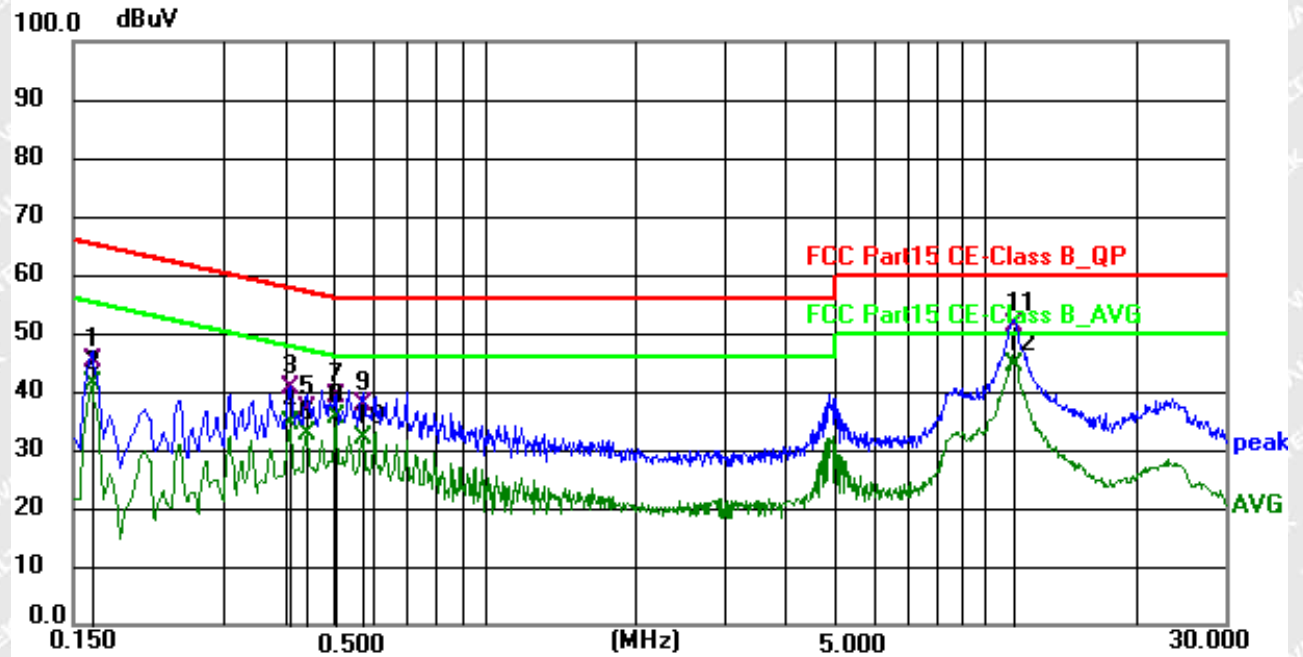
Test Mode

Communication
120V/50/60Hz)

mode(AC

Polarity

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1635	35.63	9.69	45.32	65.28	-19.96	QP	
2		0.1635	31.60	9.69	41.29	55.28	-13.99	AVG	
3		0.4065	30.86	9.71	40.57	57.72	-17.15	QP	
4		0.4065	24.90	9.71	34.61	47.72	-13.11	AVG	
5		0.4380	27.08	9.71	36.79	57.10	-20.31	QP	
6		0.4380	23.05	9.71	32.76	47.10	-14.34	AVG	
7		0.5010	29.30	9.71	39.01	56.00	-16.99	QP	
8		0.5010	25.68	9.71	35.39	46.00	-10.61	AVG	
9		0.5685	27.97	9.71	37.68	56.00	-18.32	QP	
10		0.5685	22.29	9.71	32.00	46.00	-14.00	AVG	
11		11.3460	41.26	10.05	51.31	60.00	-8.69	QP	
12	*	11.3460	34.42	10.05	44.47	50.00	-5.53	AVG	



7 Photographs Test Setup

7.1 Photographs - Radiated Emission Test Setup

30MHz-1GHz



Above 1GHz





7.2 Photographs – Conducted Emission Test Setup



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8 Photographs – EUT Constructional Details

Please refer to “ANNEX” (Reference No. WTF25F09236724W).

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

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