

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

IAdea Corporation

Room Booking Panel

Model No.: IAD-18010H

FCC ID: Y9E-IAD18010H

Prepared for : IAdea Corporation
3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114
Taiwan

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Date of Test : Dec.04~19,2020
Date of Report : Jan.14,2021

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Appendix A. Photograph of Test

Appendix B. Photo of the EUT

TEST REPORT CERTIFICATION

Applicant : IAdea Corporation
 Manufacturer : IAdea Corporation
 Product : Room Booking Panel
 FCC ID : Y9E-IAD18010H
 (A) Model No. : IAD-18010H
 (B) Test Voltage : AC 120V/60Hz

Tested for comply with:
 FCC CFR 47 Part 15 Subpart C

Test procedure used:
 ANSI C63.10: 2013
 KDB 558074 D01v05

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The 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.

Date of Test : Dec.04~19,2020 Report of date: Jan.14,2021

Prepared by : Brave Zhang / Assistant Reviewed by : Sunny Lu / Deputy Manager



Approved & Authorized Signer :

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

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

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

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	IAdea Corporation
Applicant Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Manufacturer	IAdea Corporation
Manufacturer Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Product	Room Booking Panel
Model No.	IAD-18010H
FCC ID	Y9E-IAD18010H
AC Adapter	Manufacturer: Asian Power Devices Inc. Model No.: WB-24J12R Input: 100-240V~50-60Hz, 0.7A Max Output: DC 12V, 2.0A, 24W DC Cable: Unshielded, Undetachable, 1.8m.
Sample Type	Prototype production
Date of Receipt	Nov.23,2020
Date of Test	Dec.04~19,2020
Remark: This report only for WIFI 2.4GHz.	

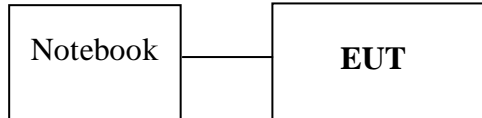
2.2.Feature of Equipment Under Test

Product Feature & Specification	
Product	Room Booking Panel
Model No.	IAD-18010H
Radio	IEEE802.11 a/b/g/n/ac
Power Source	<input checked="" type="checkbox"/> Commercial Power AC 100 ~ 240V, 50/60Hz, 0.7A
	<input checked="" type="checkbox"/> External Power Source DC 12V, 2.0A, 24W
	<input type="checkbox"/> Lithium battery DC V, mAh
	<input type="checkbox"/> UM battery DC V
2.4GHz Wi-Fi	
Support Modes	802.11b/g/n20
Frequency Range	2412-2462MHz
Type of Modulation	802.11b(DSSS): CCK, QPSK, BPSK; 802.11g/n(OFDM): 64QAM,16QAM, QPSK, BPSK
Data Rate	802.11b: 1/2/5.5/11 Mbps; 802.11g: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 150Mbps
Channel Separation	5MHz
5GHz Wi-Fi	
Support Modes	802.11a/n20/n40/ac20/ac40/ac80
Frequency Range	5180-5240MHz, 5745-5825MHz
Type of Modulation	802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM 802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps; 802.11n/ac: up to 433Mbps
Channel Separation	5MHz
Antenna System	
Type of Antenna	FPC Antenna
Antenna Peak Gain	DTS Band (2400-2483.5MHz) Peak Gain: 2.3dBi. U-NII-1 Band (5150-5250MHz) Peak Gain: 3.5dBi. U-NII-3 Band (5725-5850MHz) Peak Gain: 5.1dBi.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
USB Cable: Shielded, Detachable, 1.0m					

2.4. Block diagram of connection between the EUT and simulators



(EUT: Room Booking Panel)

2.5. Test Information

A special test software (Ampak RFTTestTool) was used to control EUT work in Continuous TX mode(The duty cycle of the test signal is 100%), and select tested mode, channel, power setting and data rate information as below:

---	Channel	Frequency (MHz)	Power setting	Channel	Frequency (MHz)	Power setting
Mode	IEEE 802.11b			IEEE 802.11g		
Info.	CH1	2412	60	CH1	2412	55
	CH2	2417	60	CH2	2417	55
	CH3	2422	60	CH3	2422	55
	CH4	2427	60	CH4	2427	55
	CH5	2432	60	CH5	2432	55
	CH6	2437	60	CH6	2437	55
	CH7	2442	60	CH7	2442	55
	CH8	2447	60	CH8	2447	55
	CH9	2452	60	CH9	2452	55
	CH10	2457	60	CH10	2457	55
	CH11	2462	60	CH11	2462	55
Data Rate (Mbps) (see Note)	1			6		
Mode	IEEE 802.11n HT20			IEEE 802.11n HT40		
Info.	CH1	2412	50	---	---	---
	CH2	2417	50	---	---	---
	CH3	2422	50	---	---	---
	CH4	2427	50	---	---	---
	CH5	2432	50	---	---	---
	CH6	2437	50	---	---	---
	CH7	2442	50	---	---	---
	CH8	2447	50	---	---	---
	CH9	2452	50	---	---	---
	CH10	2457	50	---	---	---
	CH11	2462	50	---	---	---
Data Rate (Mbps) (see Note)	MCS0			MCS0		

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.6. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
: No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Accredited by Industry Canada
: Registration Number: IC 5183A-1
Valid Date: Mar.31, 2021

: Accredited by DAkkS, Germany
: Registration No: D-PL-12151-01-00
Valid Date: Dec.07, 2021

: Accredited by NVLAP, USA
: NVLAP Code: 200372-0
Valid Date: Mar.31, 2021

: Certificated by FCC USA.
: Designation No.: CN5022
Valid Date: Mar.31, 2021

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6dB(30~200MHz, Polarization: H)
	4.0dB(30~200MHz, Polarization: V)
	3.6dB(200M~1GHz, Polarization: H)
	3.8dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	4.6dB(1~6GHz, Distance: 3m)
	4.6dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.7dB(30MHz~1000MHz)
	3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	1.9%
Uncertainty for test site temperature and humidity	0.6°C
	3%

Note: EMI uncertainty is evaluated by CISPR16-4-2.

The value of measurement uncertainty of EMI is less than U_{CISPR} .

The value is not calculated in the test results.

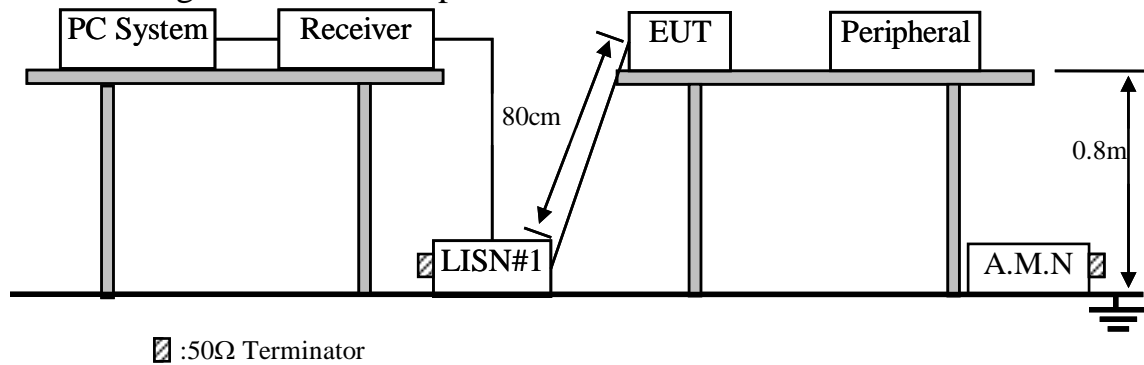
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.12,20	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.11,20	1 Year
4.	A.M.N	Kyoritsu	KNW-403D	8-1750-2	Apr.12,20	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.12,20	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.12,20	1 Year
7.	RF Cable	EMCI	EMCCFD300-BM-NM-2000	190422	Apr.12,20	1 Year
8.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

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

- Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Room Booking Panel (EUT)

Model No. : IAD-18010H
Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown as Section 3.2.
- 3.5.2. Turn on the power of EUT.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

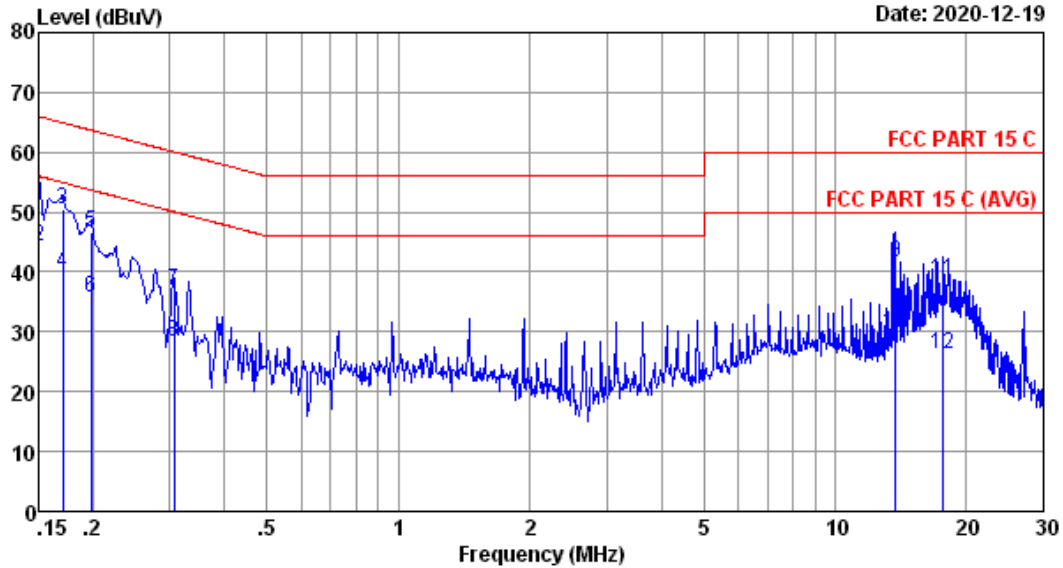
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

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

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

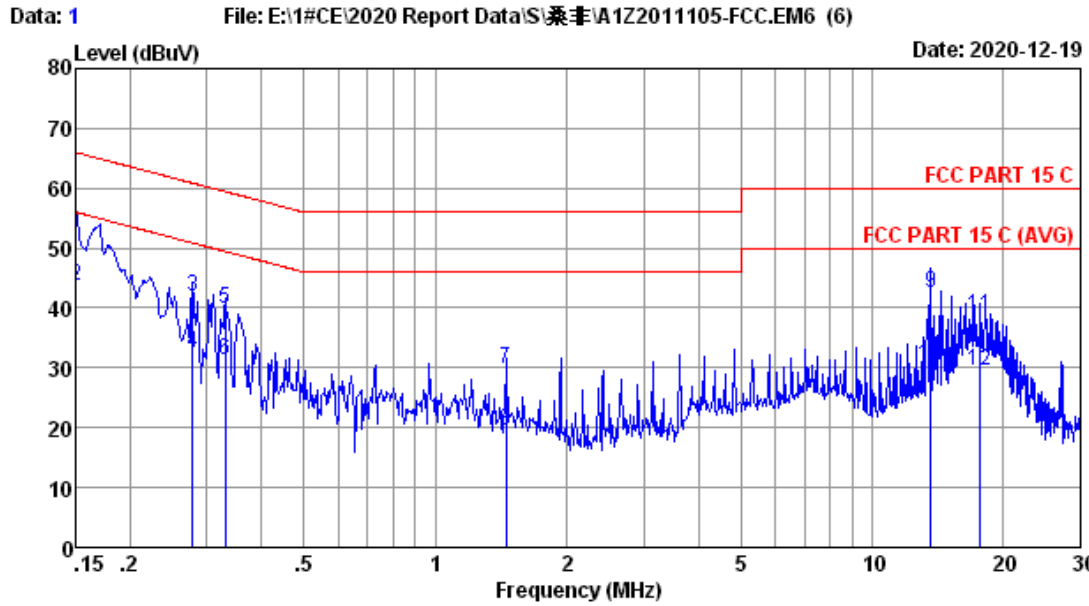
Data: 2 File: E:\1#CE\2020 Report Data\桑非\A1Z2011105-FCC.EM6 (6) Date: 2020-12-19



Site no :1# Conduction Data No :2
 Dis./Lisn :2020 ENV216-L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power Rating : AC 120V/60Hz
 Test Mode :WIFI 2.4G TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.70	0.01	44.01	53.72	66.00	12.28	QP
2	0.150	9.70	0.01	34.50	44.21	56.00	11.79	Average
3	0.170	9.70	0.01	40.87	50.58	64.94	14.36	QP
4	0.170	9.70	0.01	30.20	39.91	54.94	15.03	Average
5	0.198	9.70	0.01	37.05	46.76	63.71	16.95	QP
6	0.198	9.70	0.01	25.90	35.61	53.71	18.10	Average
7	0.307	9.70	0.01	27.33	37.04	60.06	23.02	QP
8	0.307	9.70	0.01	18.50	28.21	50.06	21.85	Average
9	13.768	9.80	0.08	31.85	41.73	60.00	18.27	QP
10	13.768	9.80	0.08	19.90	29.78	50.00	20.22	Average
11	17.661	9.85	0.09	28.62	38.56	60.00	21.44	QP
12	17.661	9.85	0.09	16.40	26.34	50.00	23.66	Average

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



Site no :1# Conduction Data No :1
 Dis./Lisn :2020 ENV216-N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power Rating : AC 120V/60Hz
 Test Mode :WIFI 2.4G TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.70	0.01	43.61	53.32	66.00	12.68	QP
2	0.150	9.70	0.01	33.90	43.61	56.00	12.39	Average
3	0.277	9.70	0.01	32.16	41.87	60.90	19.03	QP
4	0.277	9.70	0.01	22.80	32.51	50.90	18.39	Average
5	0.330	9.70	0.01	30.04	39.75	59.44	19.69	QP
6	0.330	9.70	0.01	21.50	31.21	49.44	18.23	Average
7	1.449	9.70	0.02	19.97	29.69	56.00	26.31	QP
8	1.449	9.70	0.02	9.80	19.52	46.00	26.48	Average
9	13.623	9.80	0.07	32.76	42.63	60.00	17.37	QP
10	13.623	9.80	0.07	20.50	30.37	50.00	19.63	Average
11	17.661	9.85	0.09	28.81	38.75	60.00	21.25	QP
12	17.661	9.85	0.09	19.50	29.44	50.00	20.56	Average

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

4. RADIATED EMISSION TEST

4.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(NSA)	AUDIX	N/A	N/A	May.03,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.12,20	1 Year
5.	Amplifier	HP	8447D	2648A04738	Apr.11,20	1 Year
6.	Bi log Antenna	TESEQ	CBL6112D	25237	Dec.22,20	1 Year
7.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.11,20	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.11,20	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

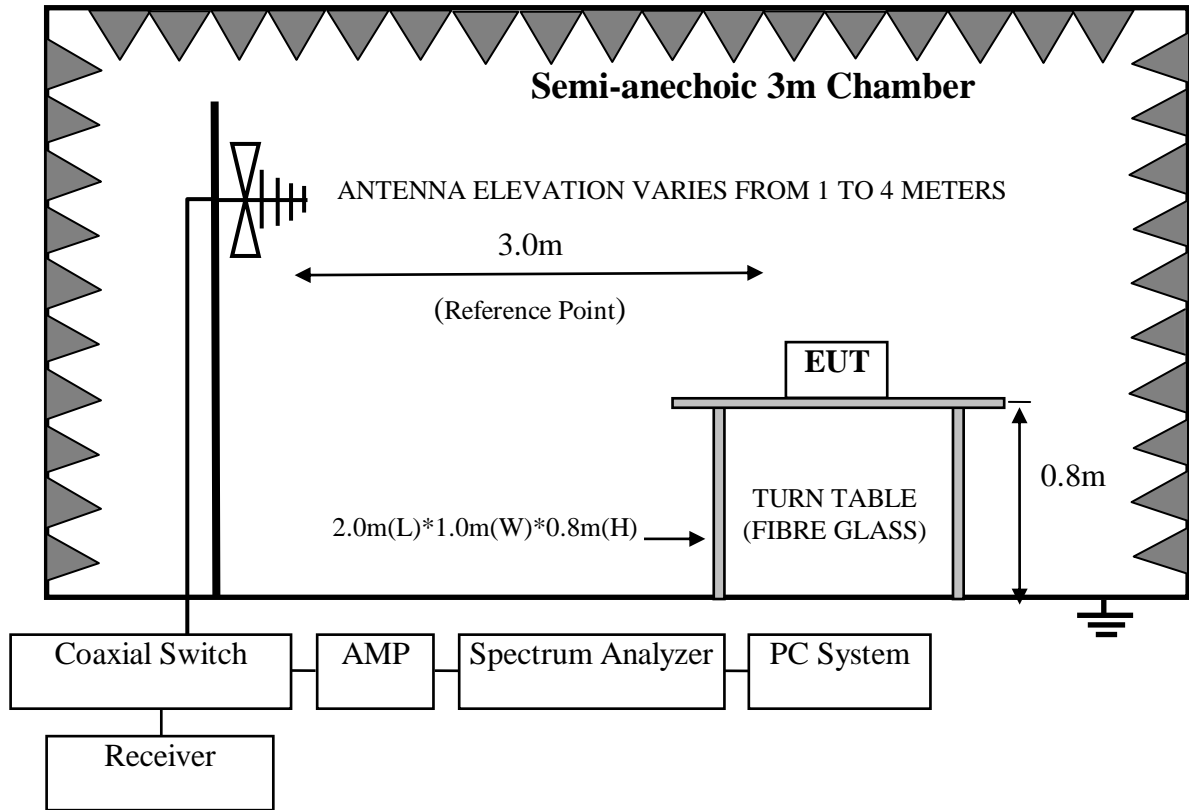
4.1.2. For frequency range 1GHz~25GHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(Svswr)	AUDIX	N/A	N/A	Apr.15,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jul.30,20	1 Year
5.	Horn Antenna	ETS	3116	00060089	Dec.09,20	1 Year
6.	Amplifier	Agilent	83017A	MY53270084	Oct.11,20	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.11,20	1 Year
8.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

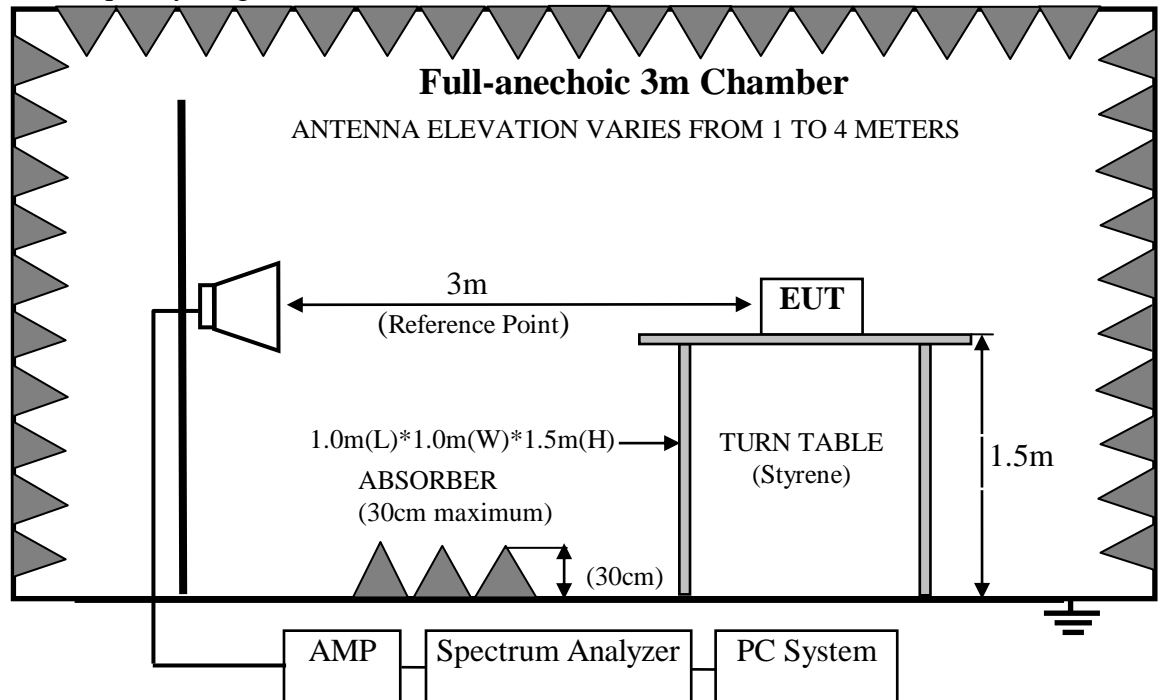
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3. Radiated Emission Limit

4.3.1. 15.247&209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark : (1) Emission level dBμV = 20 log Emission level μV/m

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

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

4.3.2. 15.205 Restricted bands of operation

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

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

4.4. EUT Configuration on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.4.1. Room Booking Panel (EUT)

Model No. : IAD-18010H

Serial No. : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let EUT work in Tx(WiFi 2.4GHz) mode

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

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

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

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

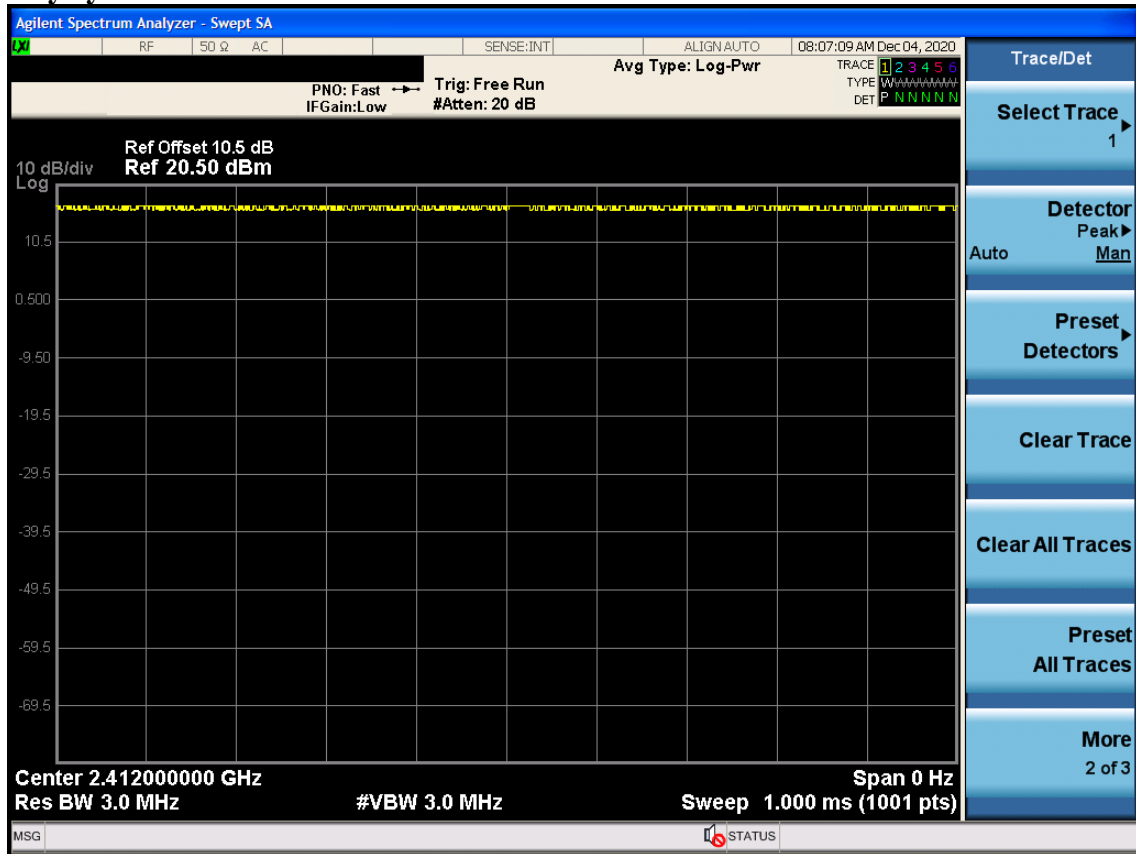
PASS.

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

Note 1: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

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

Duty cycle



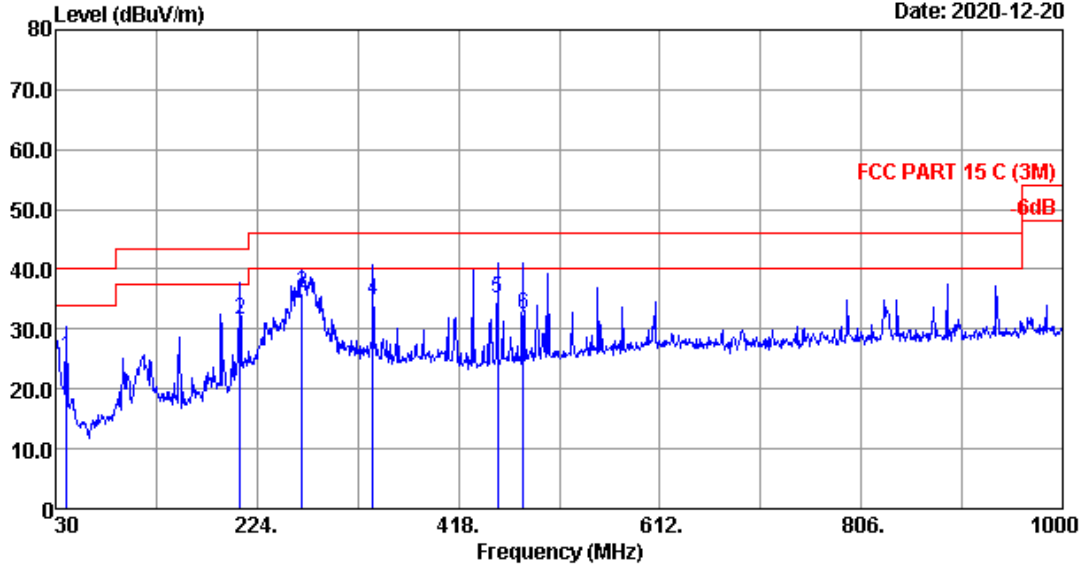
Note: The duty cycle of the test signal is 100%.

Frequency: 30MHz~1GHz

Data: 2

File: E:\2020 Report Data\R\RF\20201219.EM6 (6)

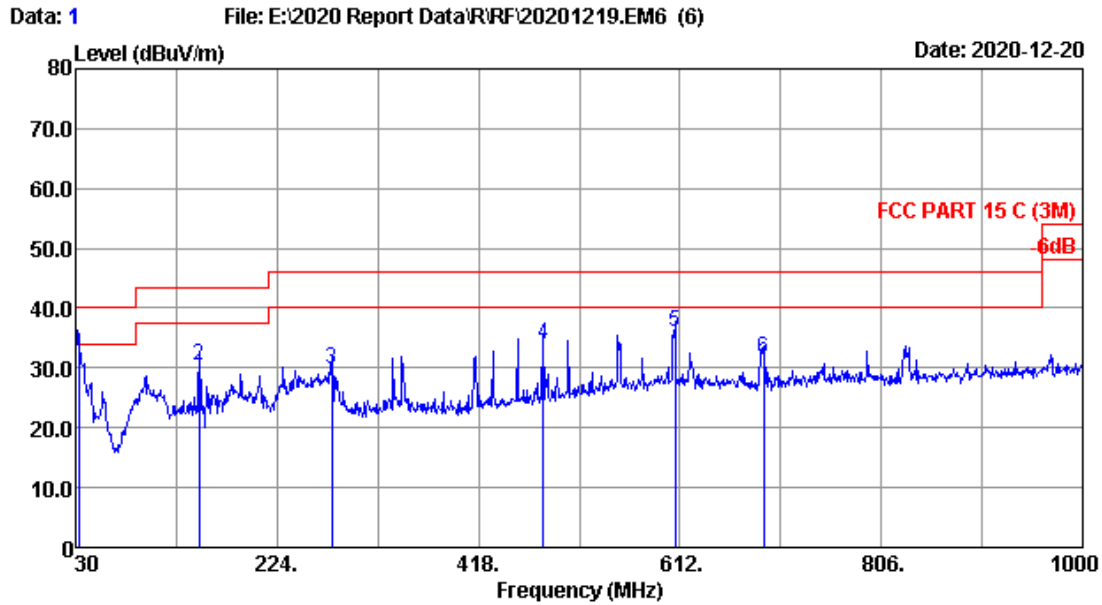
Date: 2020-12-20



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 2.4G TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	40.670	18.65	0.70	6.00	25.35	40.00	14.65	QP
2	207.510	14.94	1.50	15.28	31.72	43.50	11.78	QP
3	267.650	19.10	1.63	15.23	35.96	46.00	10.04	QP
4	335.550	19.70	1.84	13.34	34.88	46.00	11.12	QP
5	455.830	22.53	2.20	10.39	35.12	46.00	10.88	QP
6	480.080	23.06	2.28	6.99	32.33	46.00	13.67	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



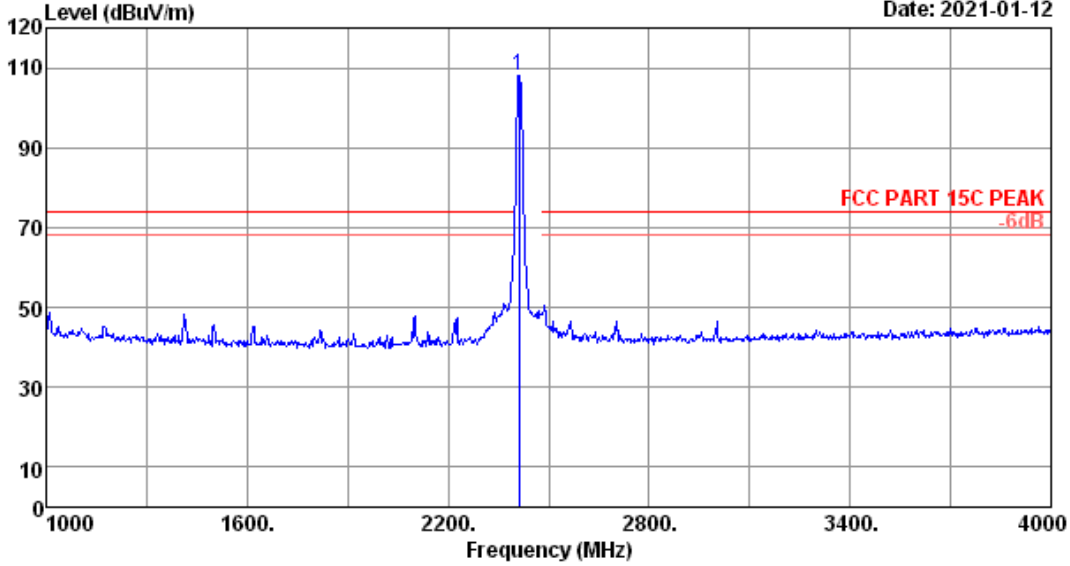
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 2.4G TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.910	22.67	0.65	9.50	32.82	40.00	7.18	QP
2	149.310	16.39	1.23	12.92	30.54	43.50	12.96	QP
3	276.380	18.75	1.66	9.45	29.86	46.00	16.14	QP
4	480.080	23.06	2.28	8.49	33.83	46.00	12.17	QP
5	607.150	24.91	2.59	8.39	35.89	46.00	10.11	QP
6	692.510	24.99	2.78	3.77	31.54	46.00	14.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

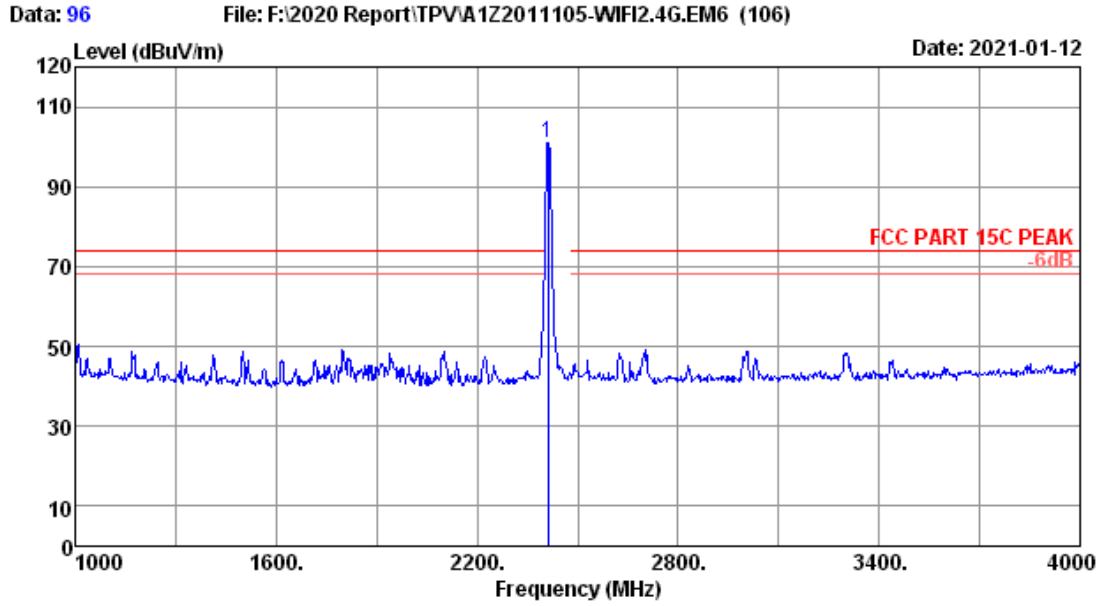
Data: 95 File: F:\2020 Report\TPVA1Z2011105-WIFI2.4G.EM6 (106) Date: 2021-01-12



Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	112.93	33.48	108.20	-----	-----	Peak

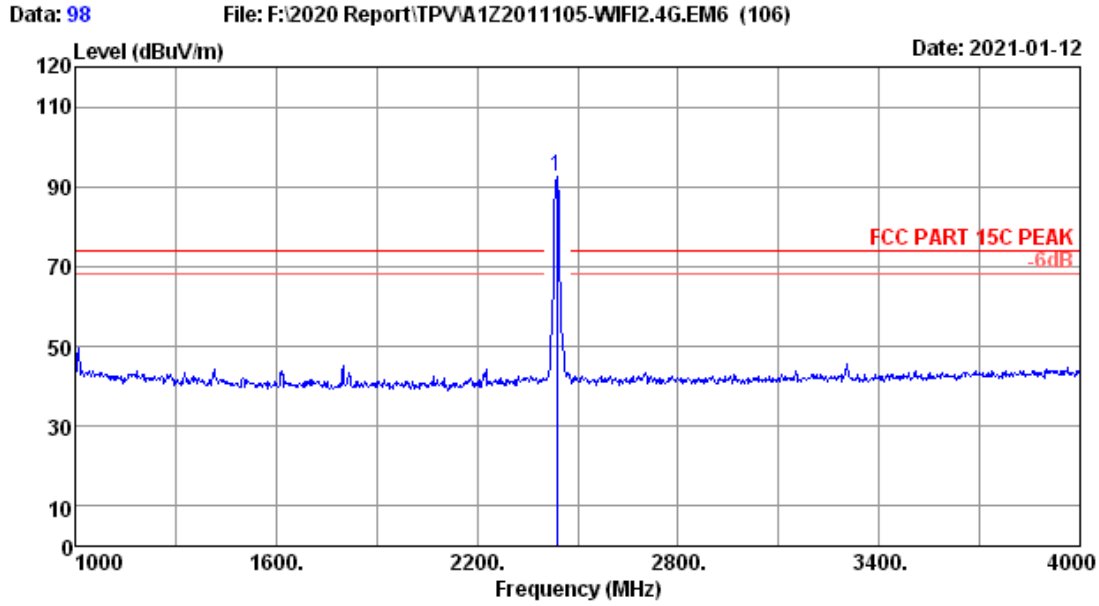
- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	105.70	33.48	100.97	-----	-----	Peak

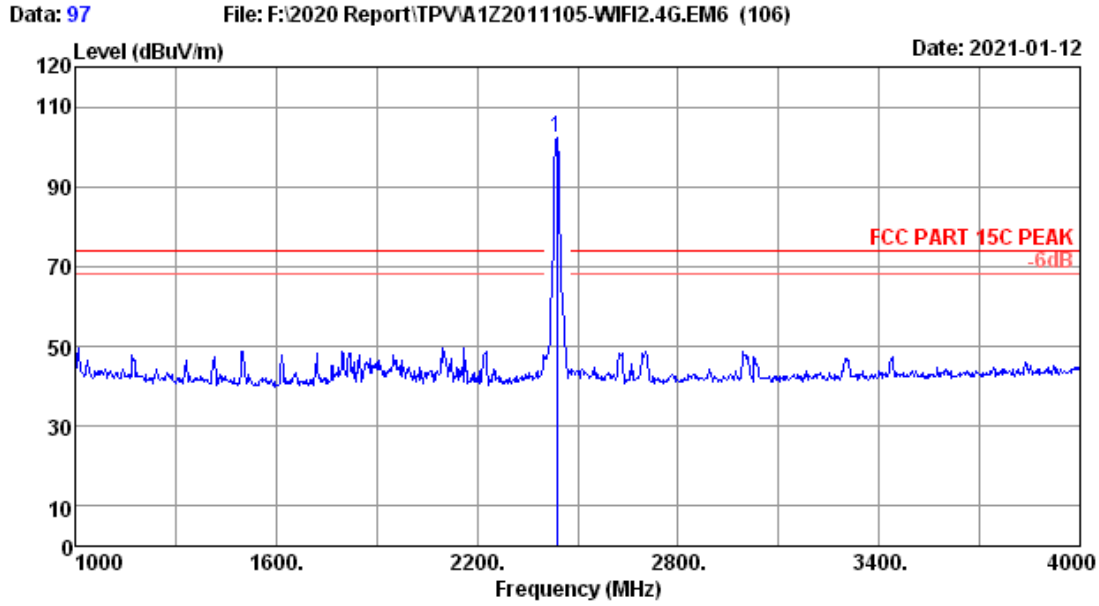
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	97.13	33.47	92.49	-----	-----	Peak

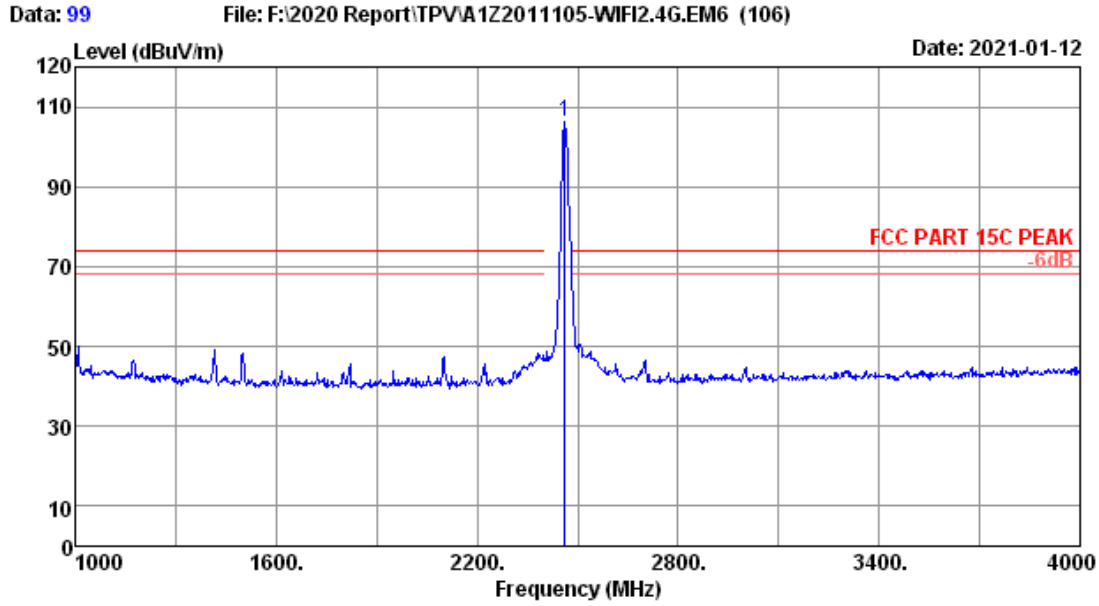
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	106.88	33.47	102.24	-----	-----	Peak

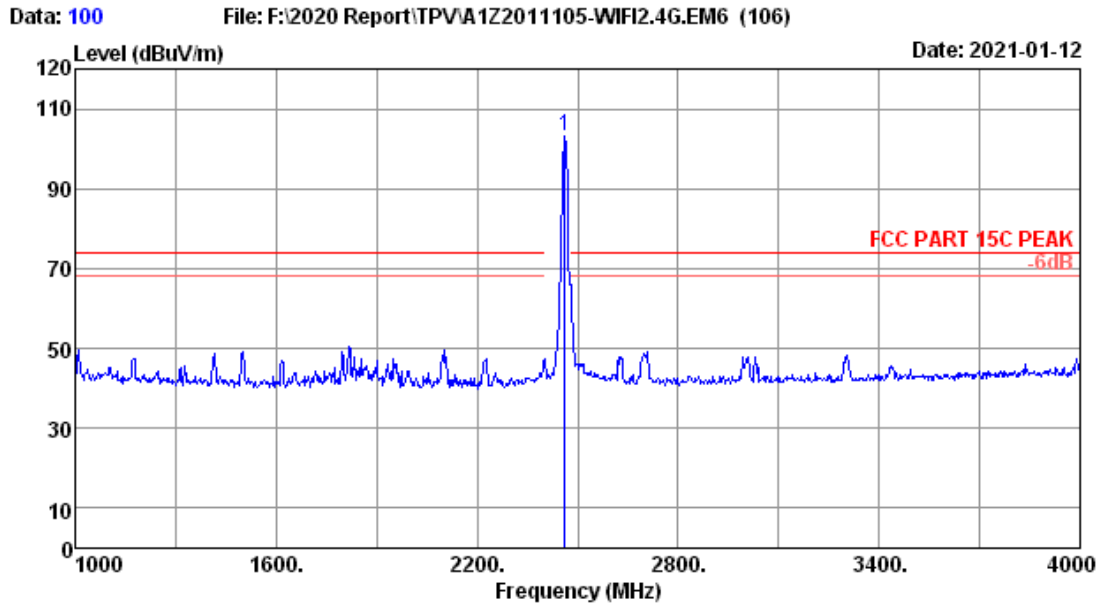
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	110.77	33.46	106.18	-----	-----	Peak

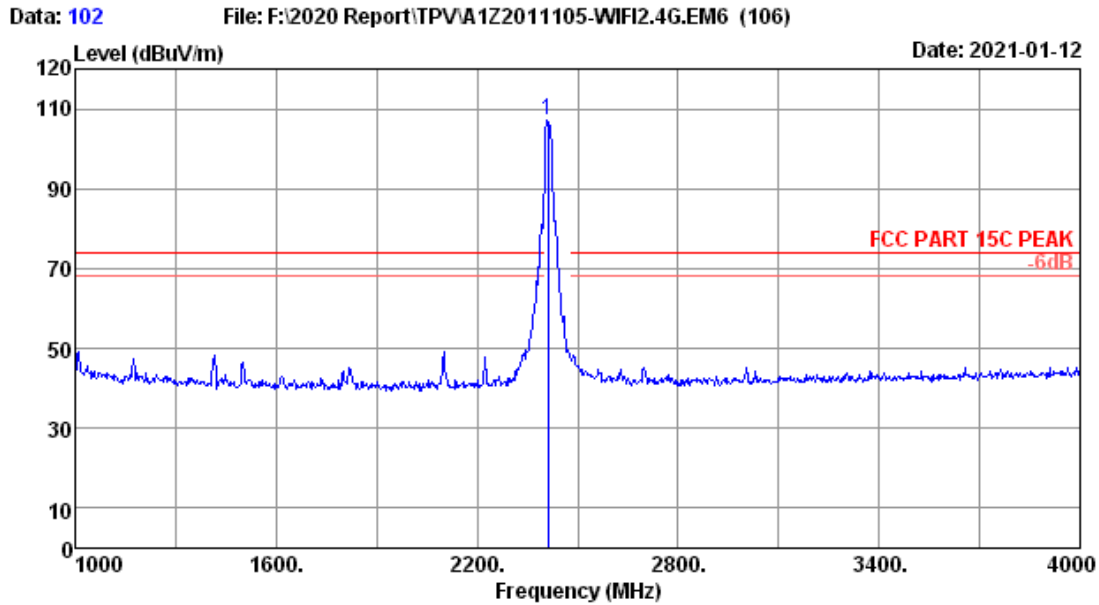
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	107.85	33.46	103.26	-----	-----	Peak

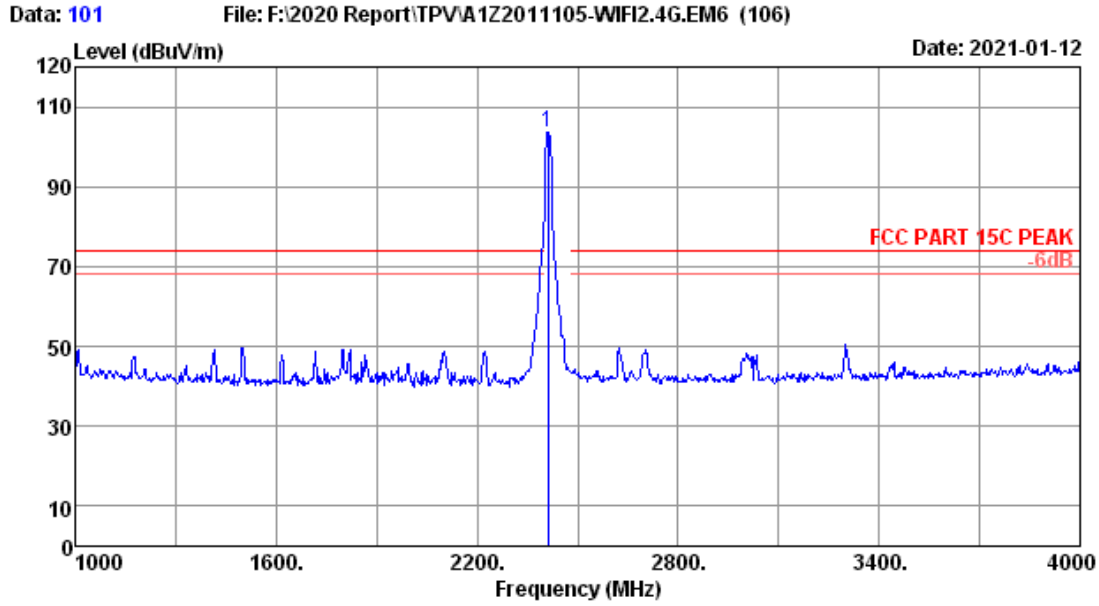
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	111.76	33.48	107.03	-----	-----	Peak

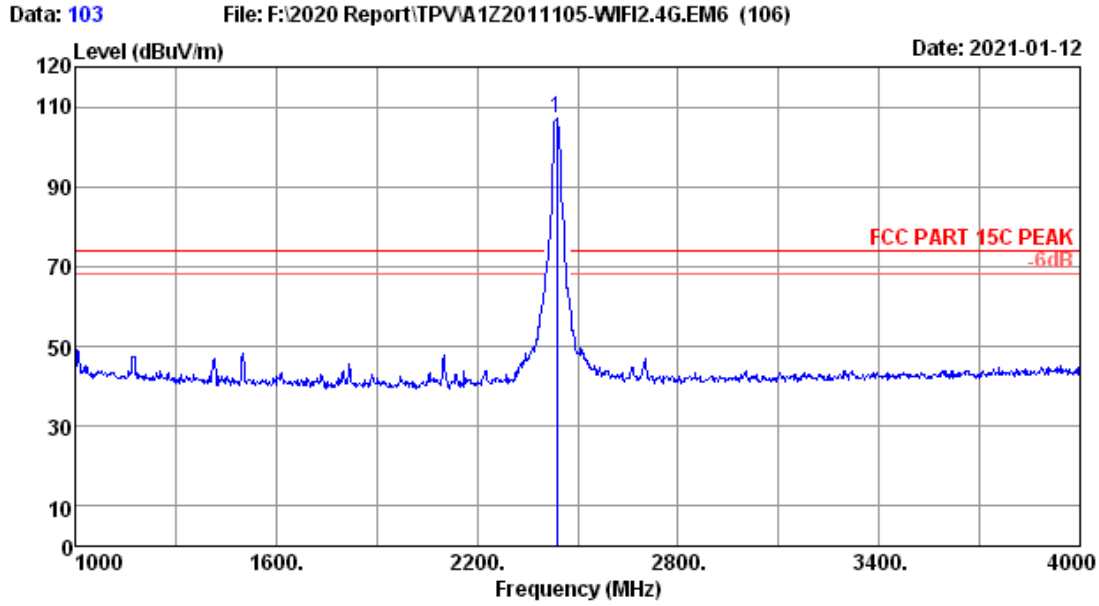
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	108.45	33.48	103.72	-----	-----	Peak

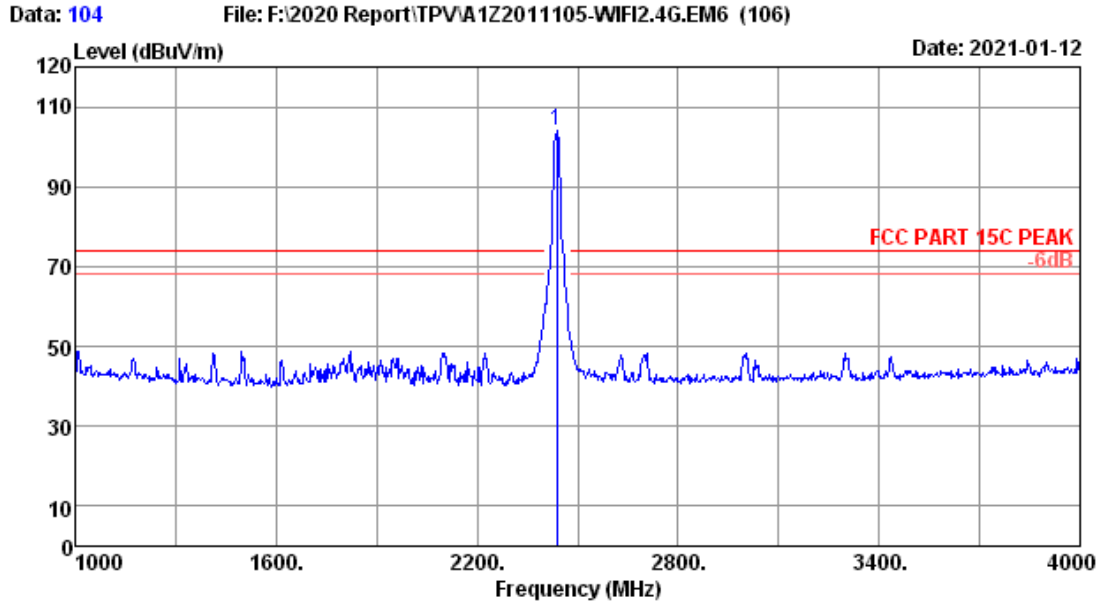
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	111.66	33.47	107.02	-----	-----	Peak

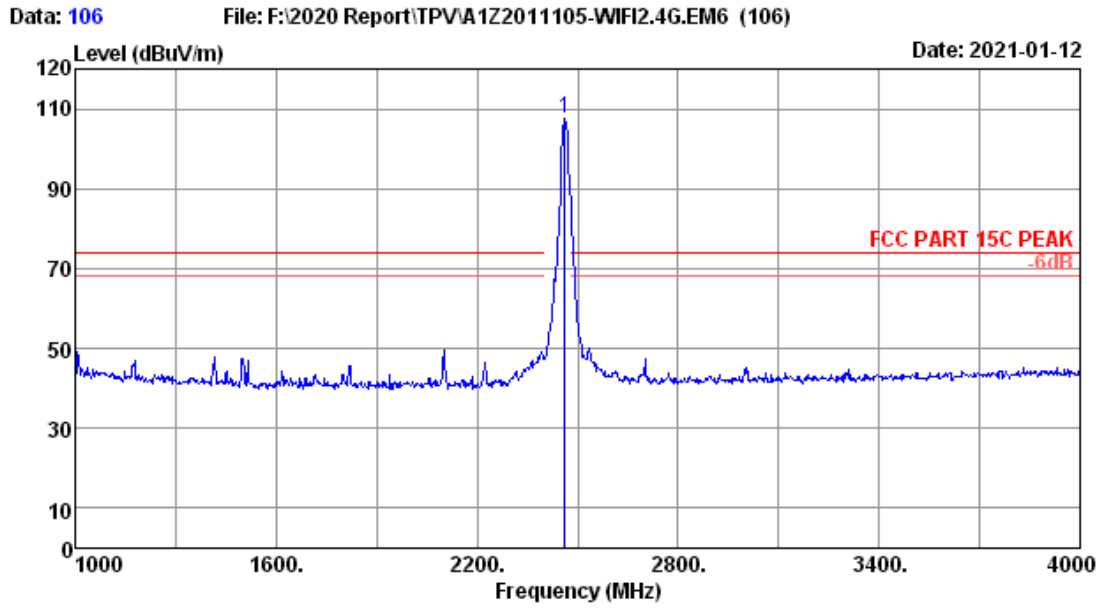
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	108.73	33.47	104.09	-----	-----	Peak

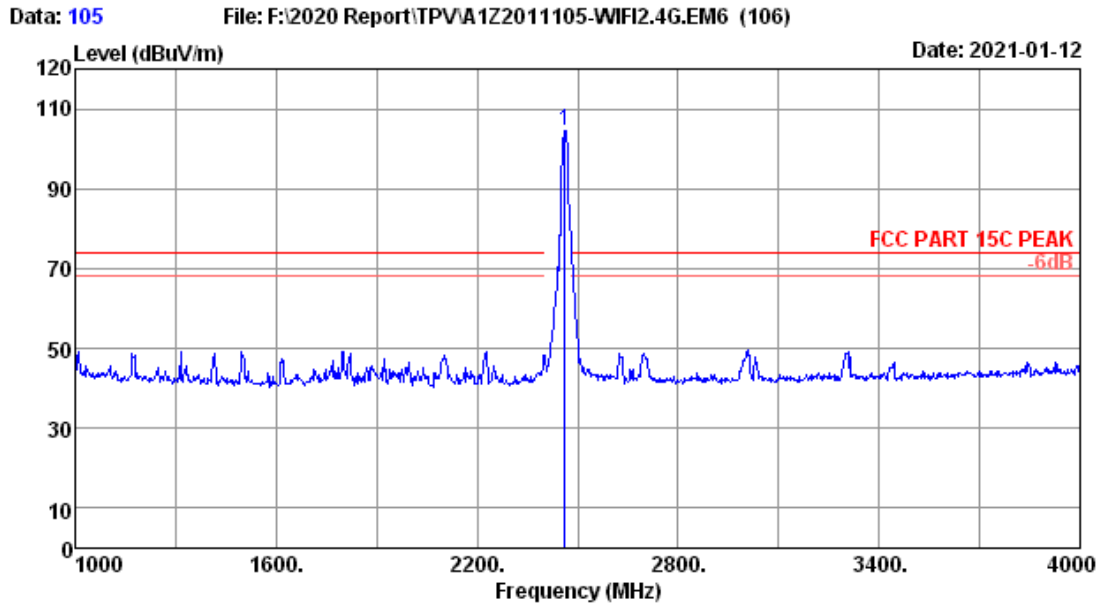
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 106
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	111.98	33.46	107.39	-----	-----	Peak

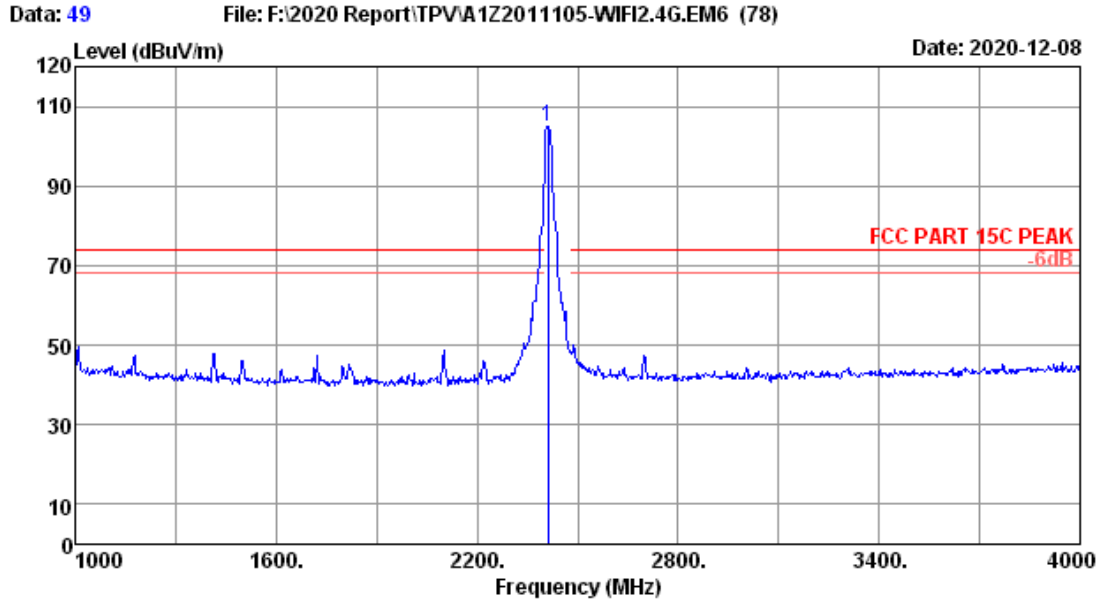
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 105
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	109.22	33.46	104.63	-----	-----	Peak

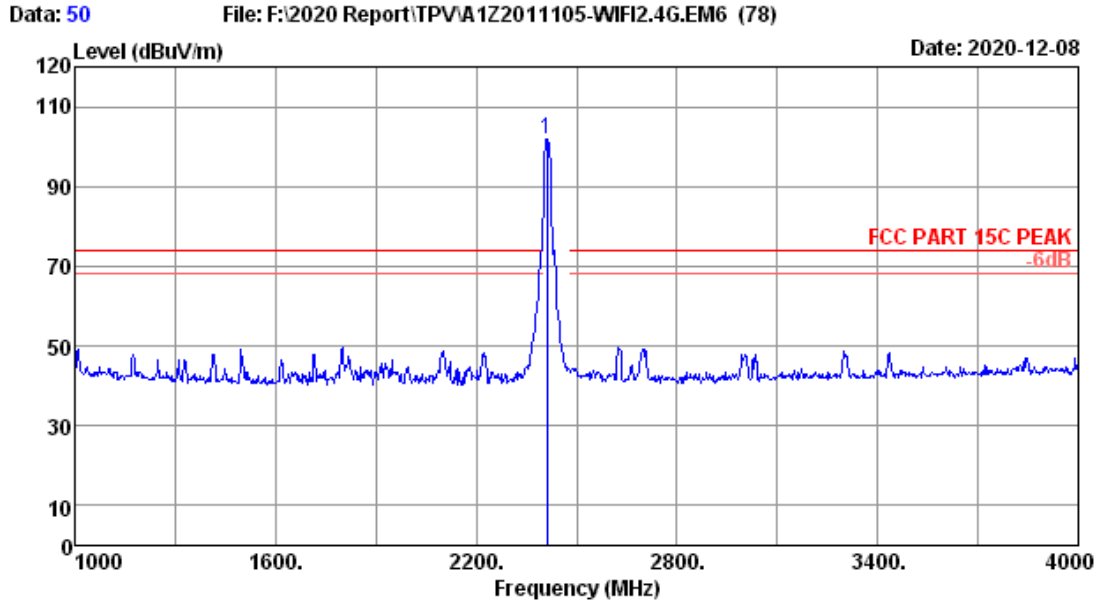
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	109.78	33.48	105.05	-----	-----	Peak

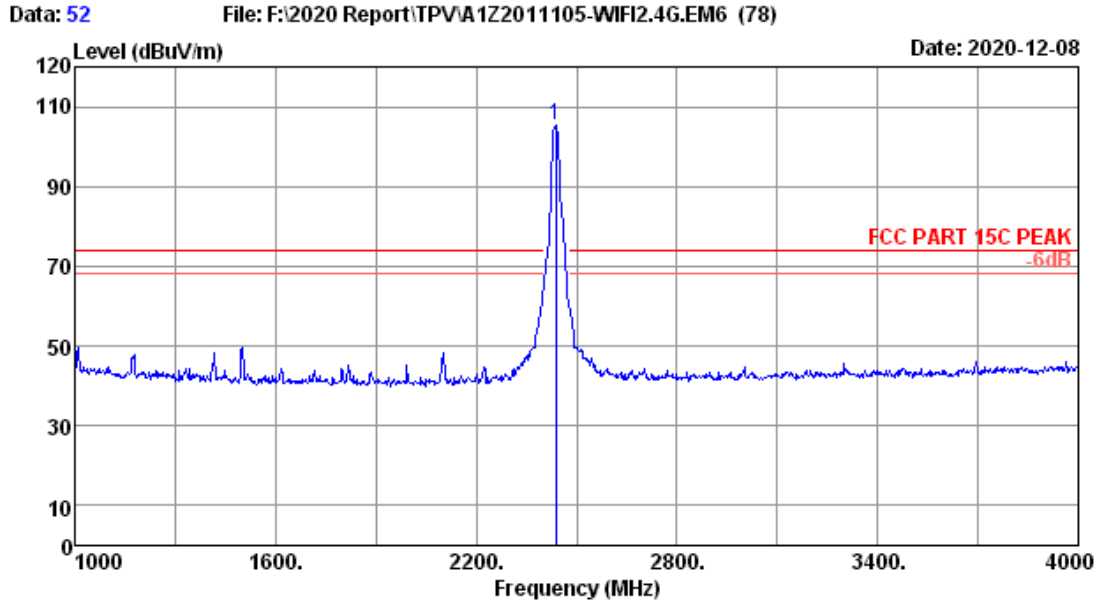
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.83	0.92	106.56	33.48	101.83	-----	-----	Peak

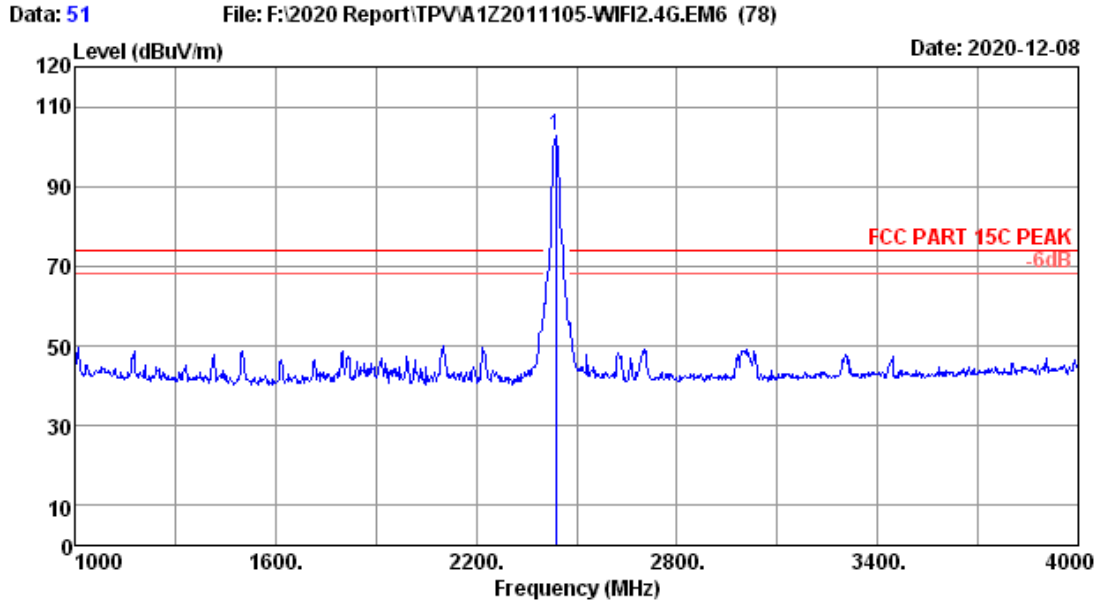
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	109.83	33.47	105.19	-----	-----	Peak

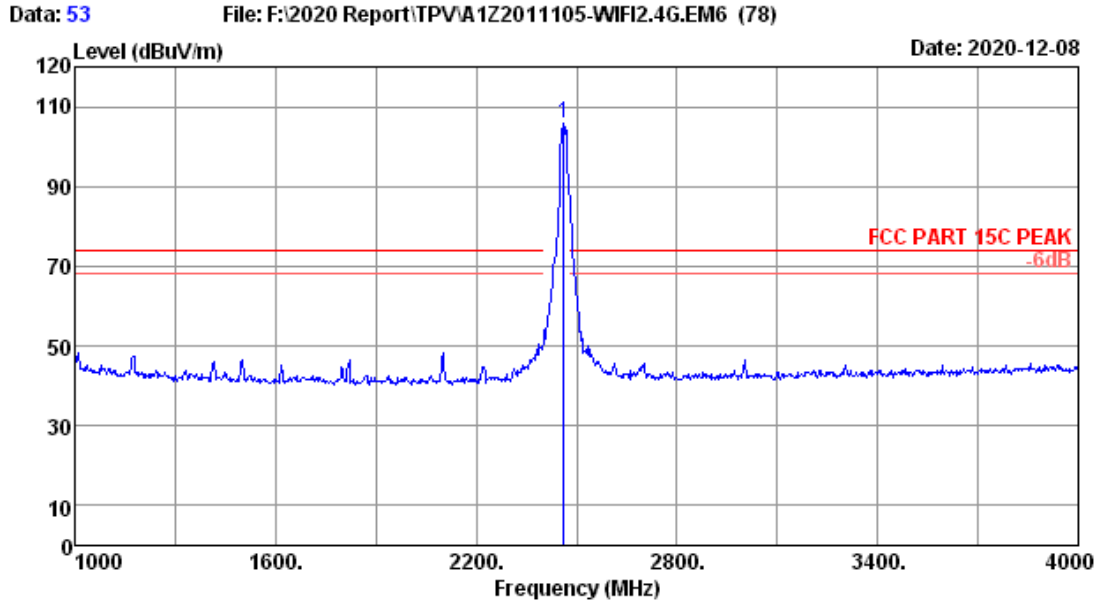
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.90	0.93	107.56	33.47	102.92	-----	-----	Peak

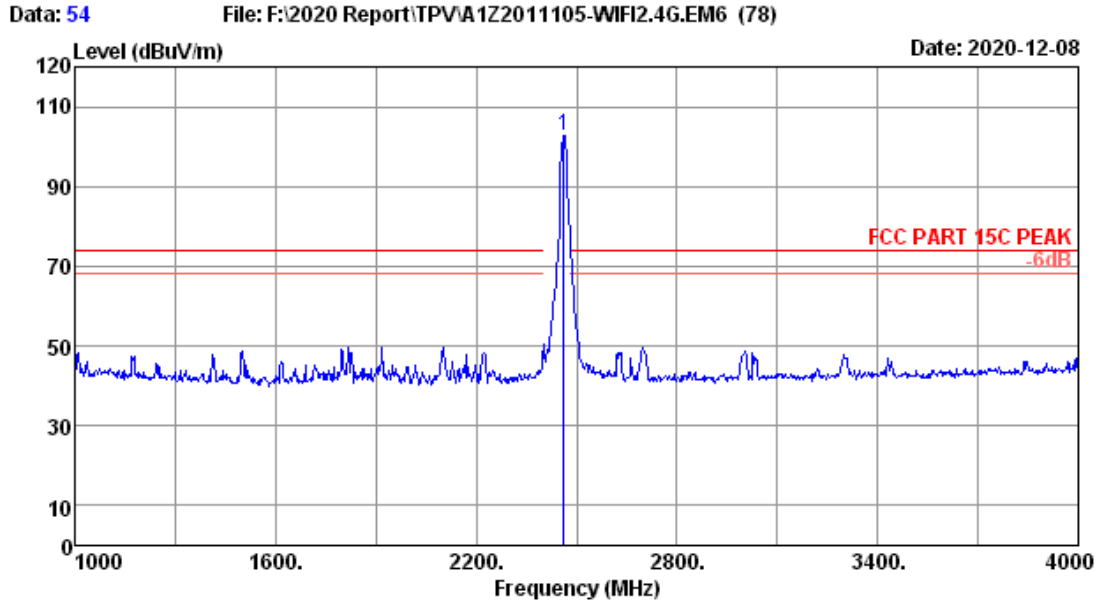
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	110.24	33.46	105.65	-----	-----	Peak

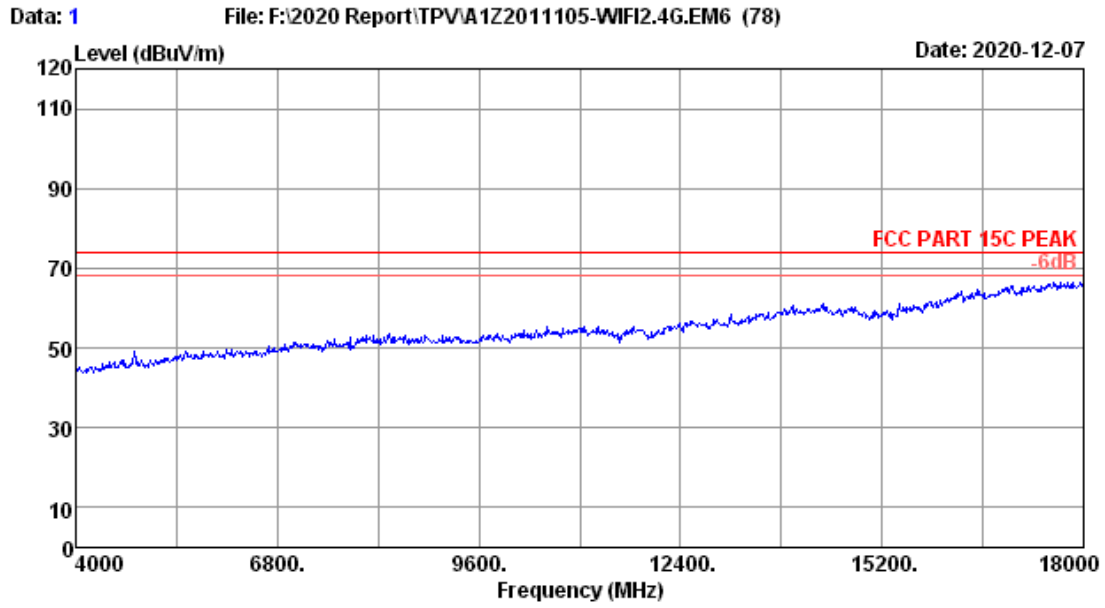
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



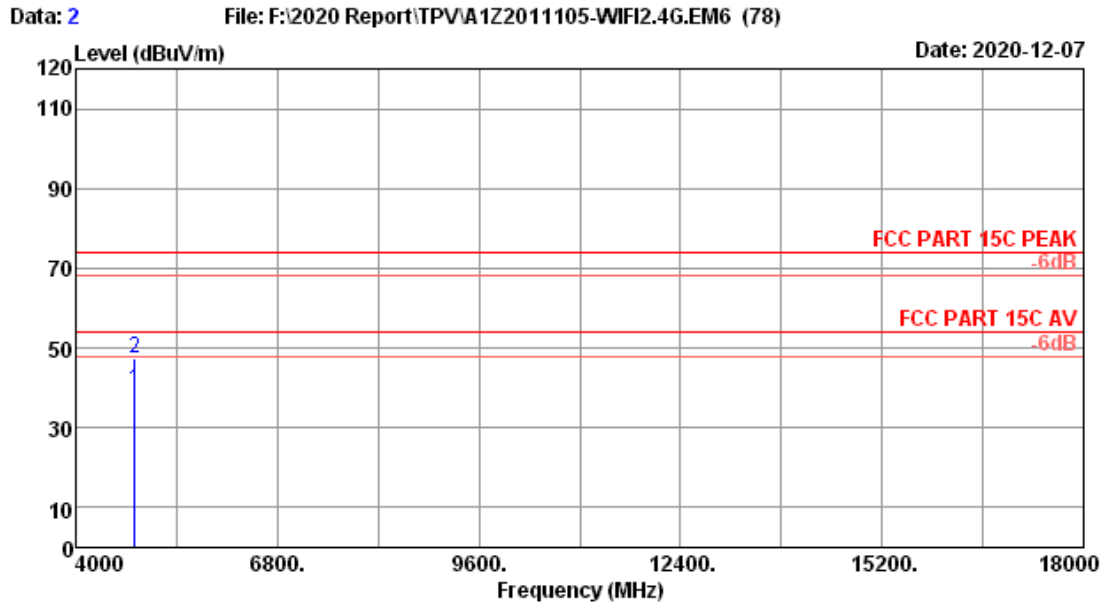
Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.93	0.94	107.35	33.46	102.76	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



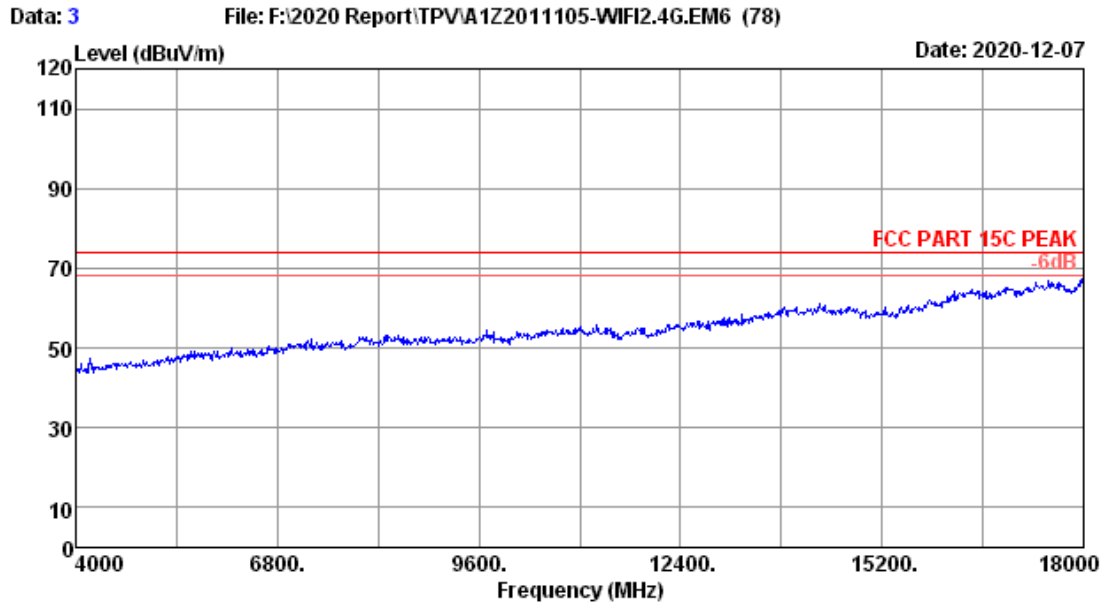
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11b 2412MHz Tx Mode



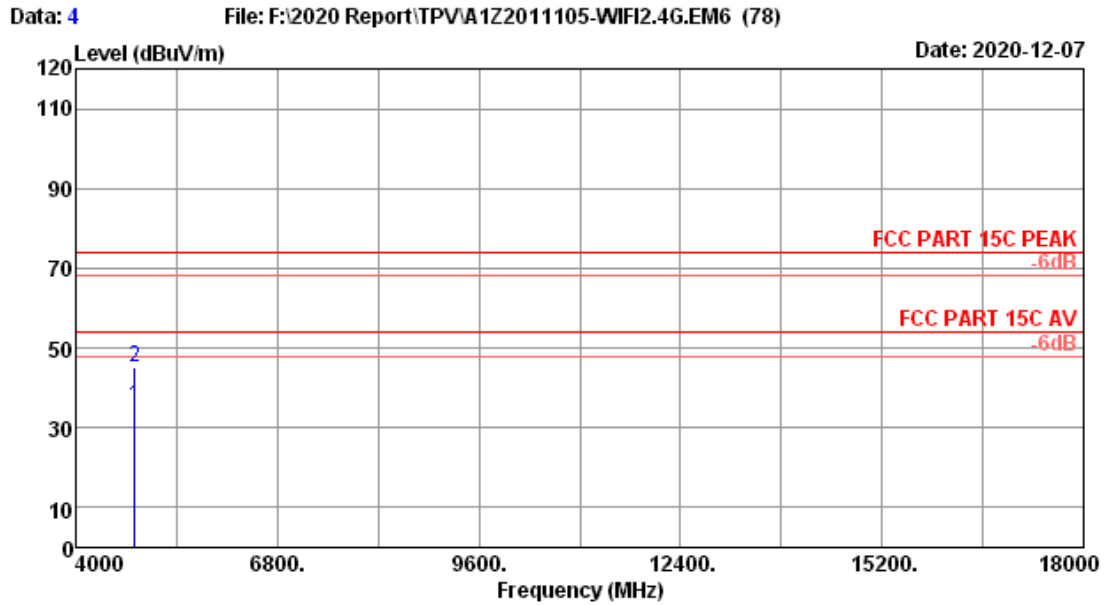
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	38.50	33.18	39.23	54.00	14.77	Average
2	4824.00	32.53	1.38	46.50	33.18	47.23	74.00	26.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



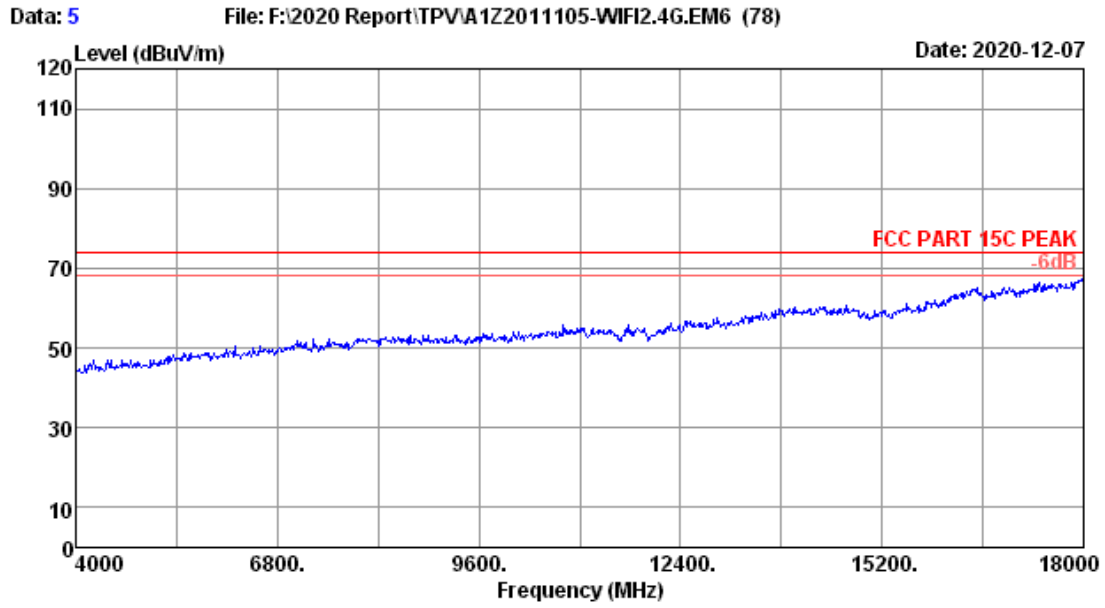
Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11b 2412MHz Tx Mode



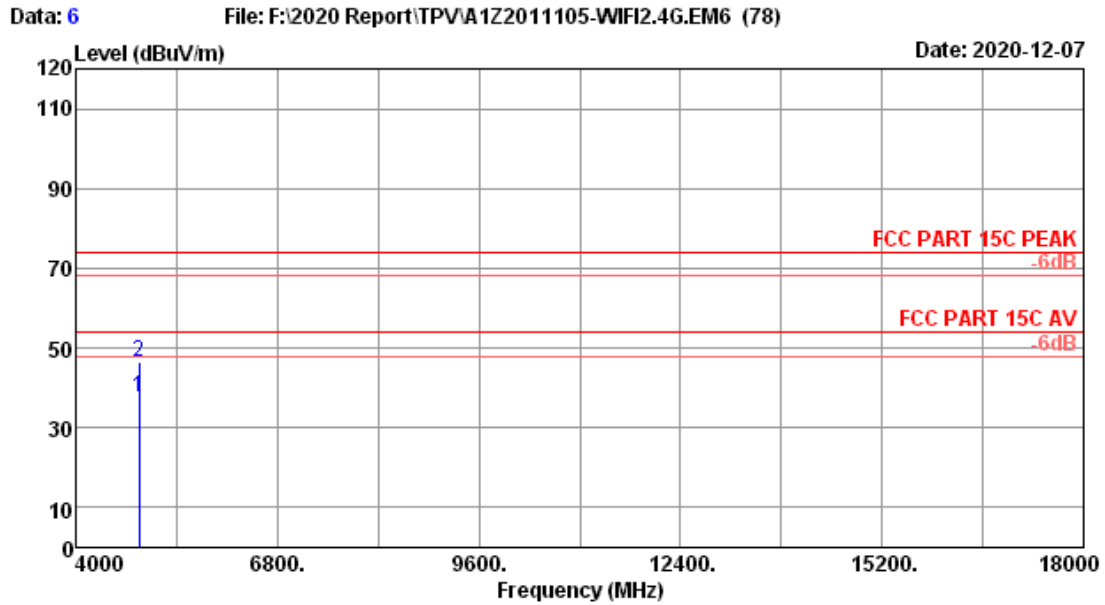
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	34.90	33.18	35.63	54.00	18.37	Average
2	4824.00	32.53	1.38	44.59	33.18	45.32	74.00	28.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



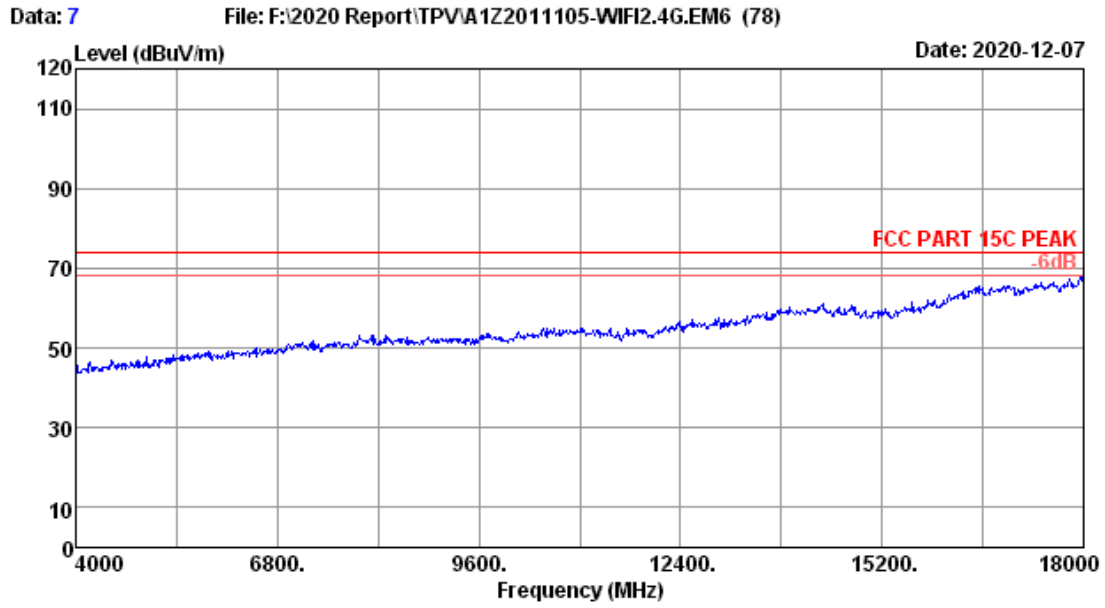
Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11b 2437MHz Tx Mode



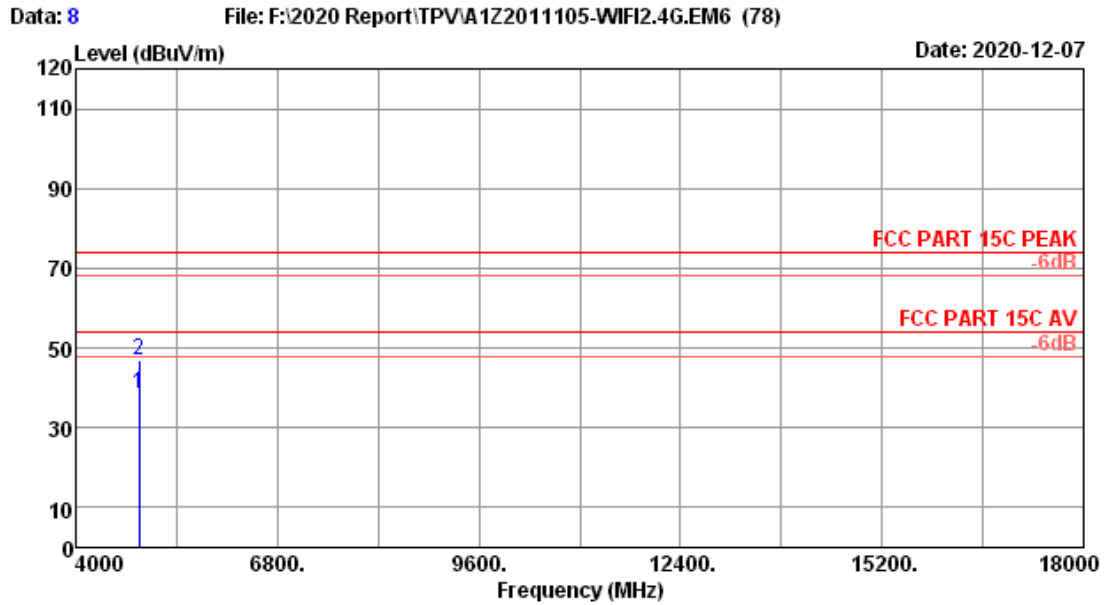
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	36.90	33.19	37.65	54.00	16.35	Average
2	4874.00	32.55	1.39	45.65	33.19	46.40	74.00	27.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



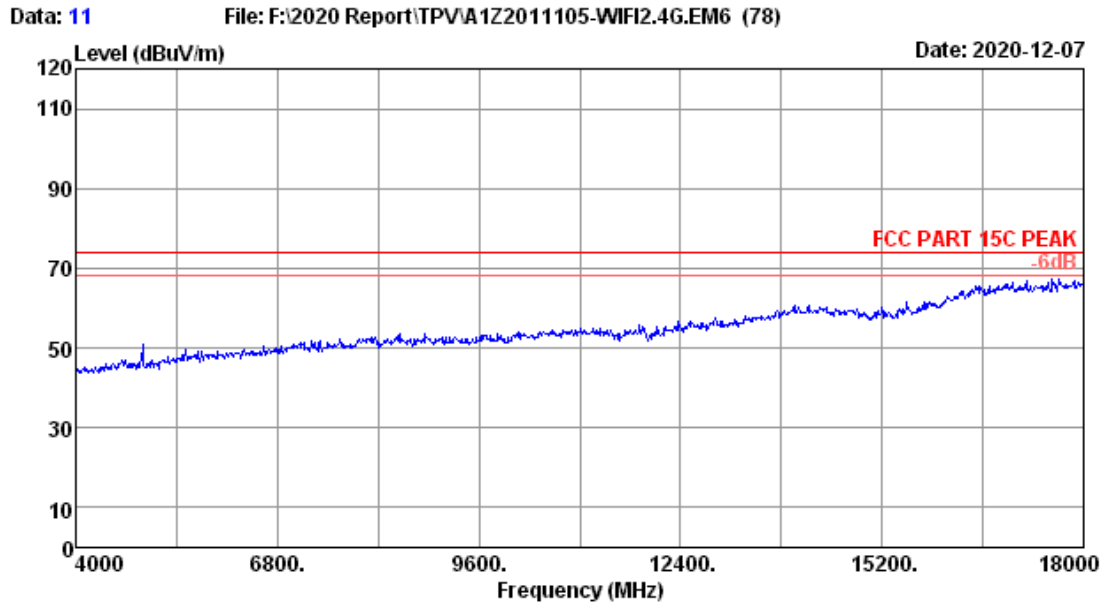
Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11b 2437MHz Tx Mode



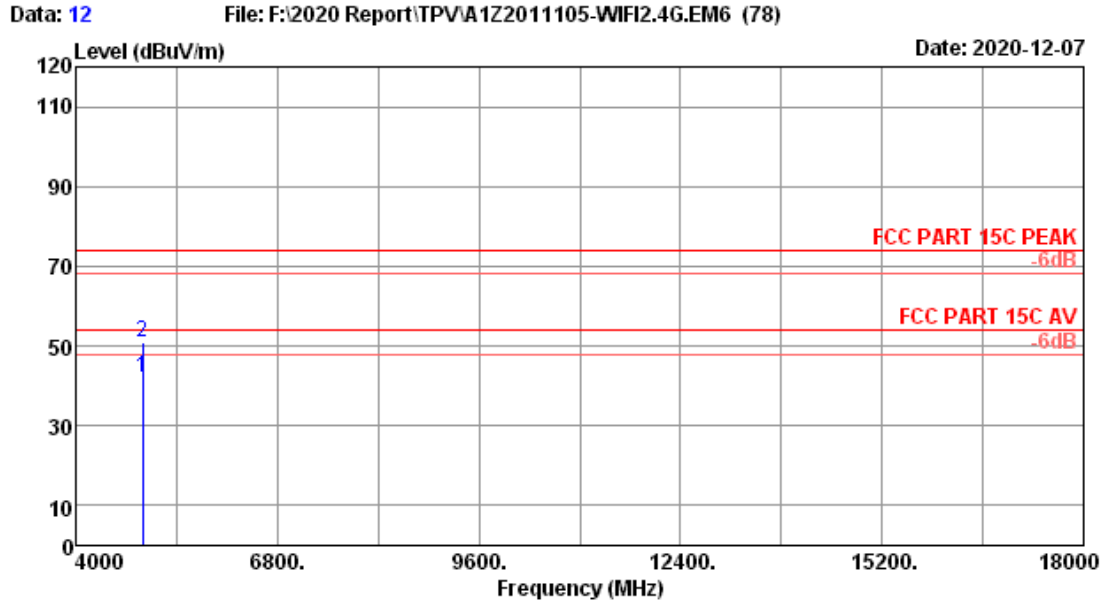
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	37.90	33.19	38.65	54.00	15.35	Average
2	4874.00	32.55	1.39	46.25	33.19	47.00	74.00	27.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



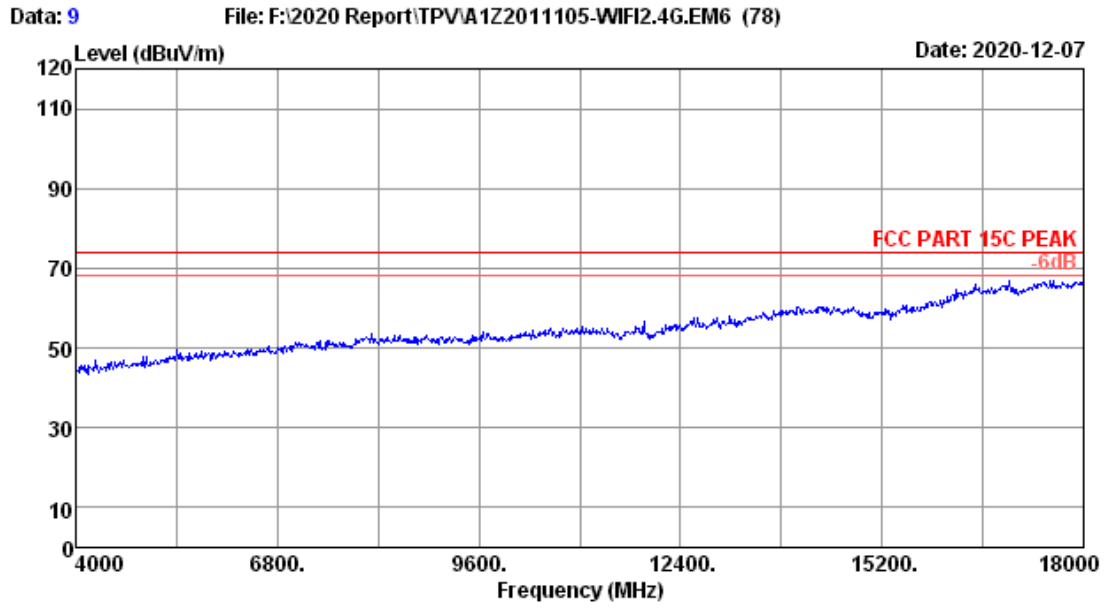
Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11b 2462MHz Tx Mode		



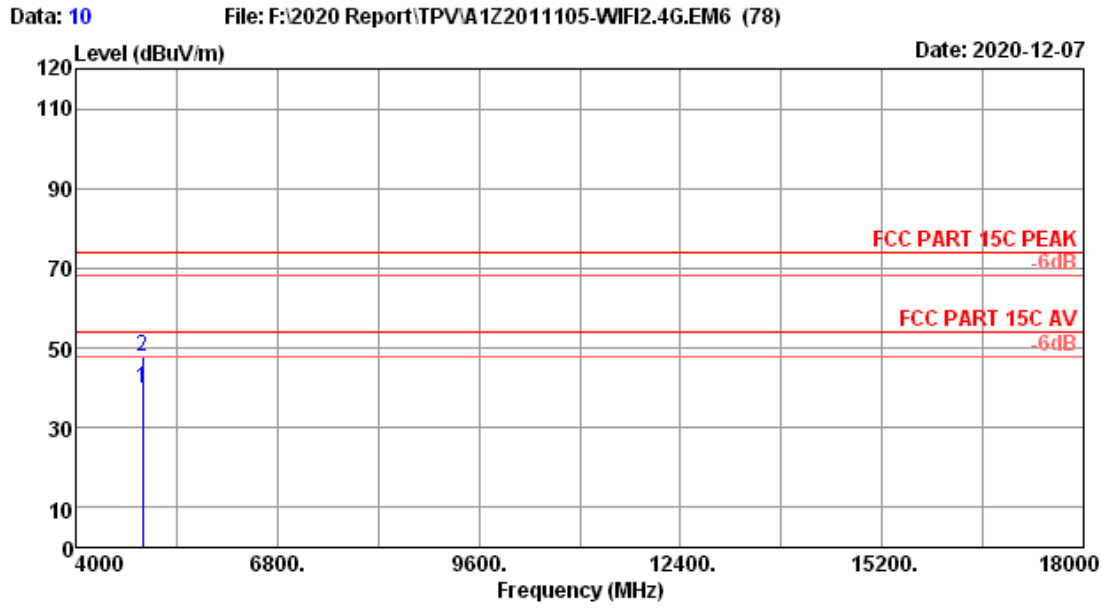
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	41.10	33.19	41.87	54.00	12.13	Average
2	4924.00	32.57	1.39	50.03	33.19	50.80	74.00	23.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



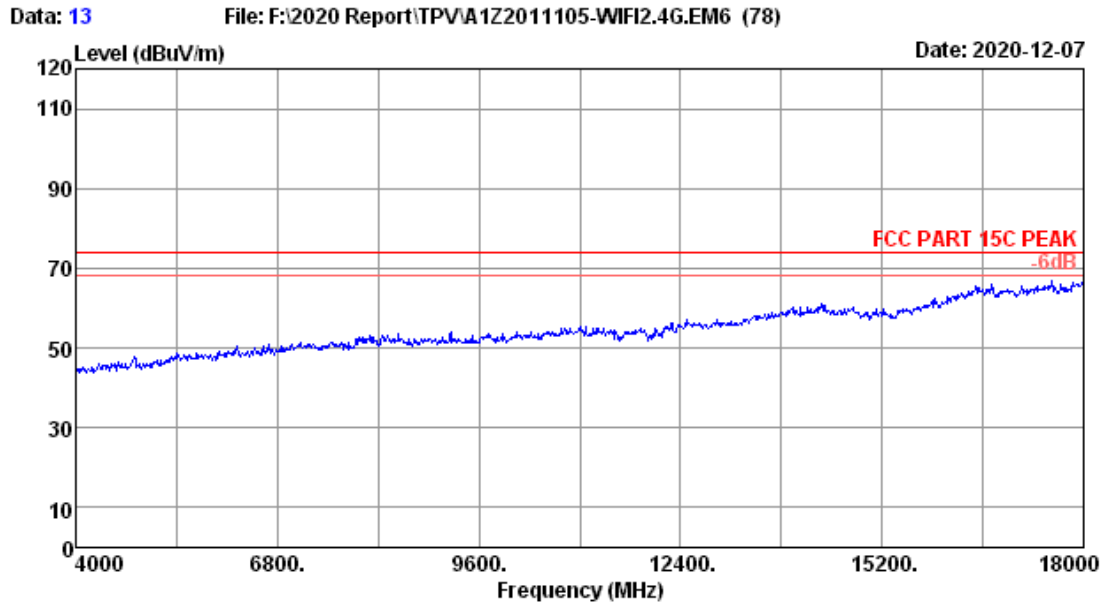
Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11b 2462MHz Tx Mode



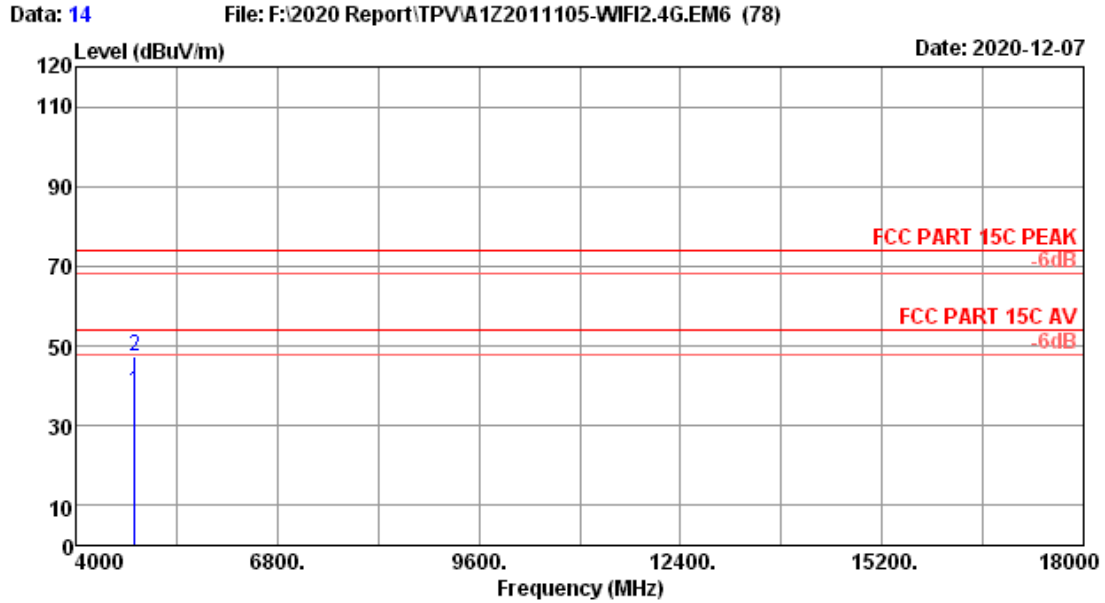
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	38.90	33.19	39.67	54.00	14.33	Average
2	4924.00	32.57	1.39	47.17	33.19	47.94	74.00	26.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



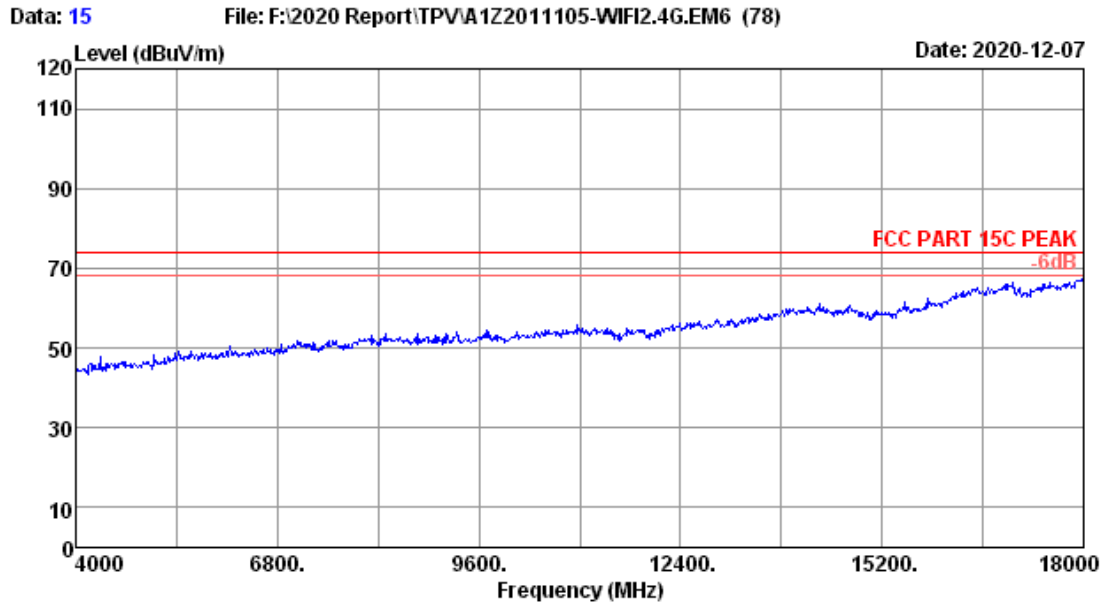
Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11g 2412MHz Tx Mode



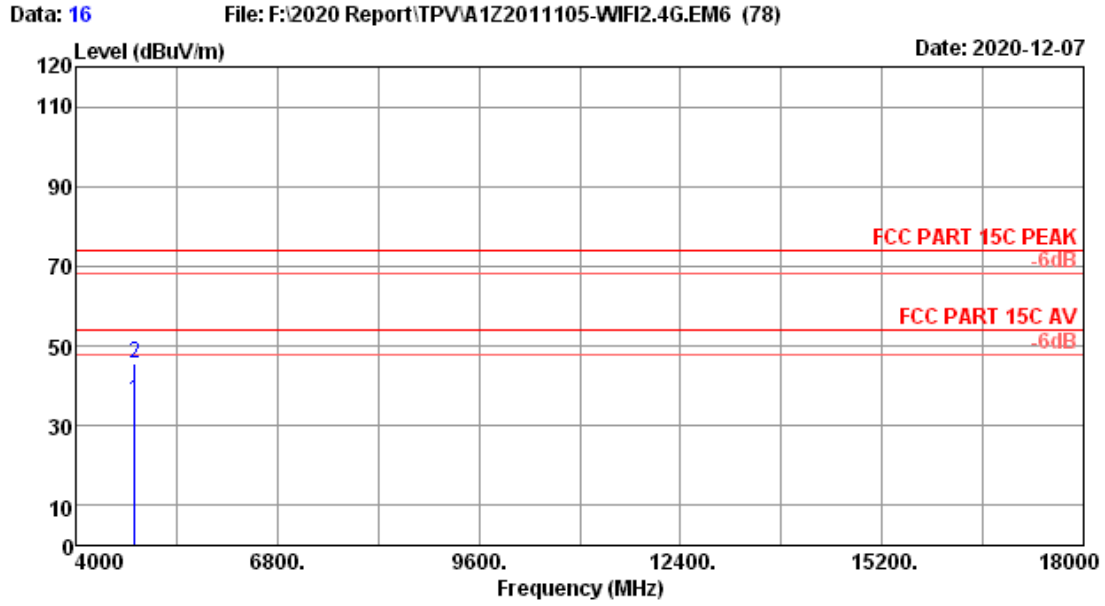
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	37.70	33.18	38.43	54.00	15.57	Average
2	4824.00	32.53	1.38	46.48	33.18	47.21	74.00	26.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



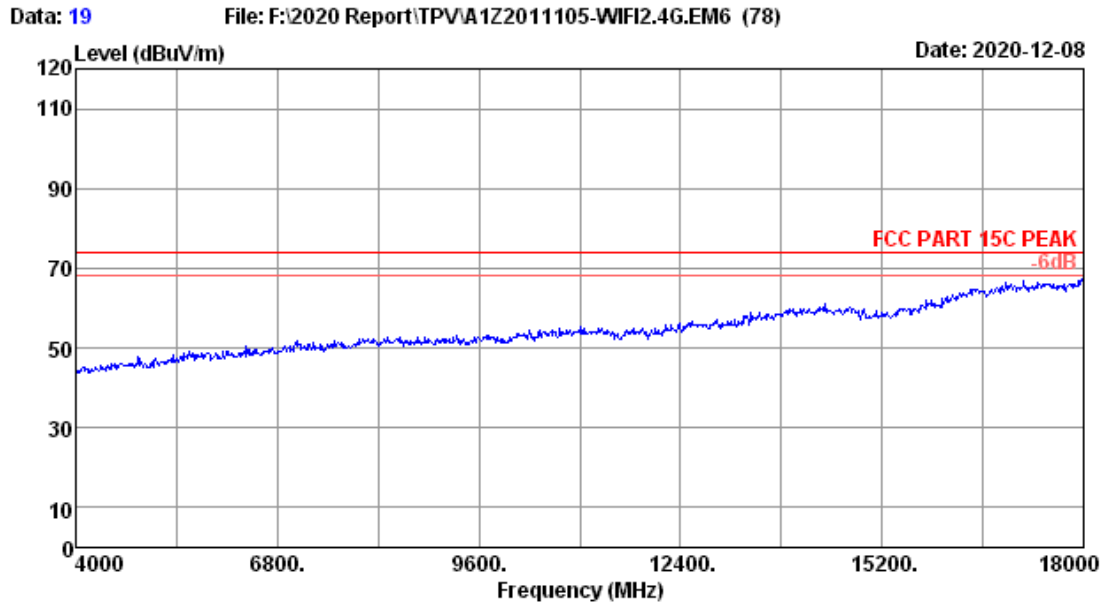
Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11g 2412MHz Tx Mode		



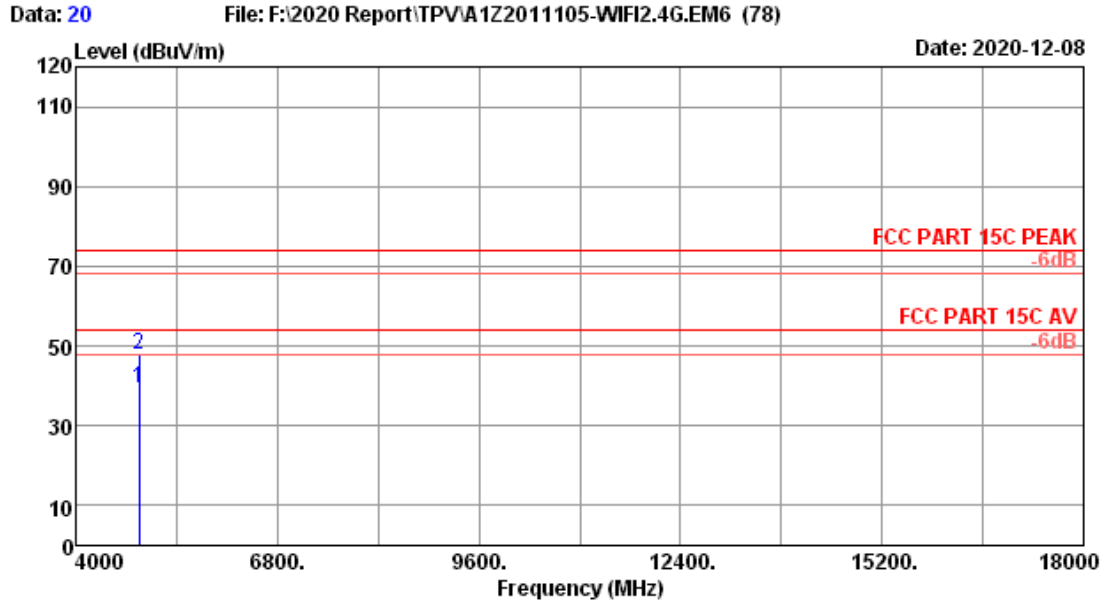
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	35.80	33.18	36.53	54.00	17.47	Average
2	4824.00	32.53	1.38	44.82	33.18	45.55	74.00	28.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



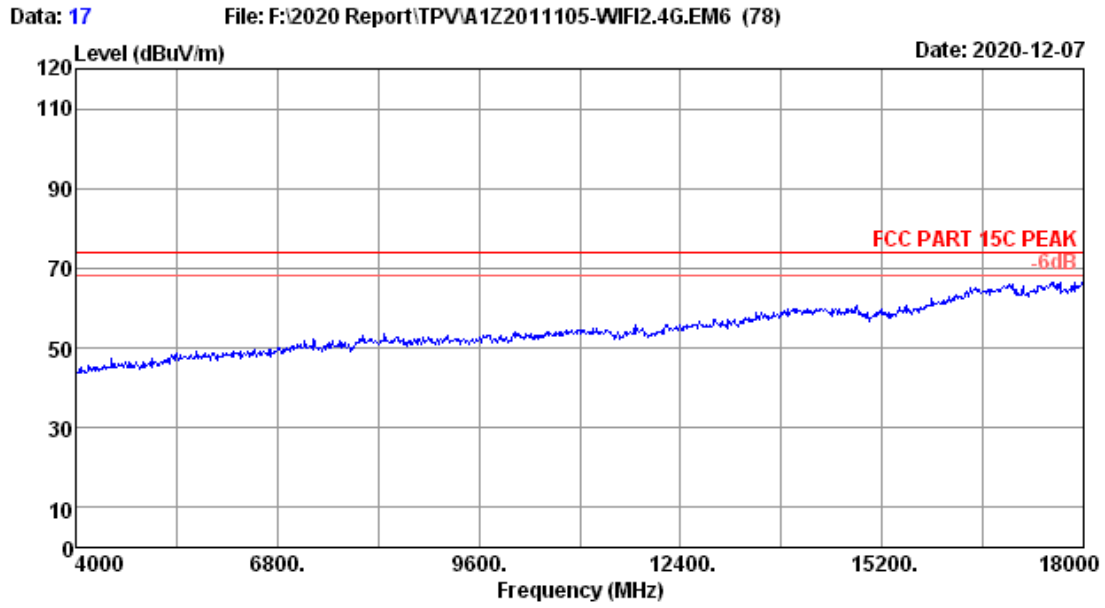
Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11g 2437MHz Tx Mode



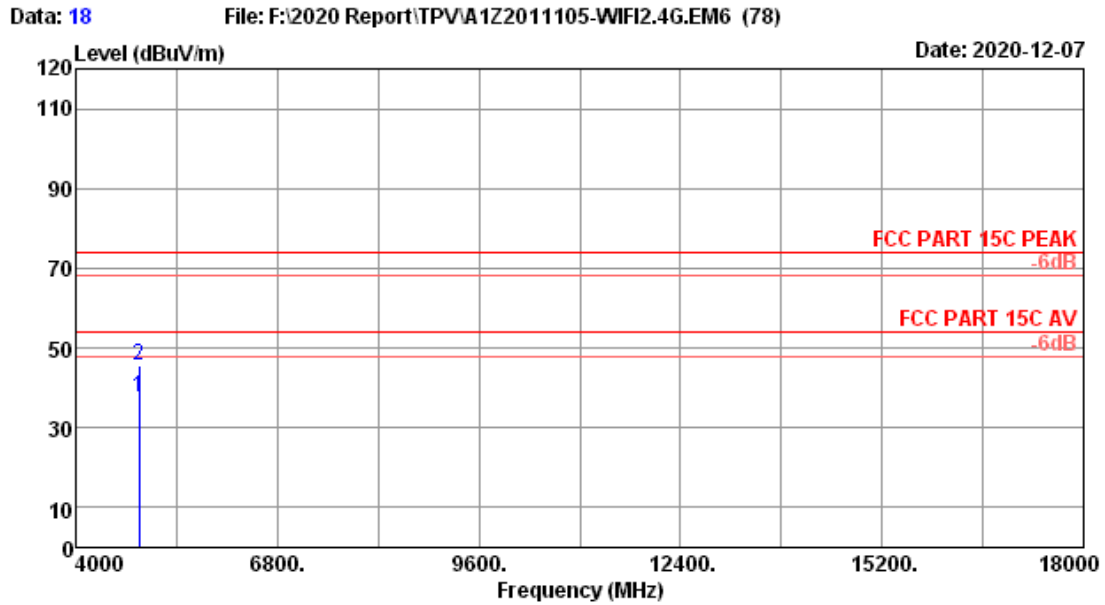
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	38.50	33.19	39.25	54.00	14.75	Average
2	4874.00	32.55	1.39	47.10	33.19	47.85	74.00	26.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



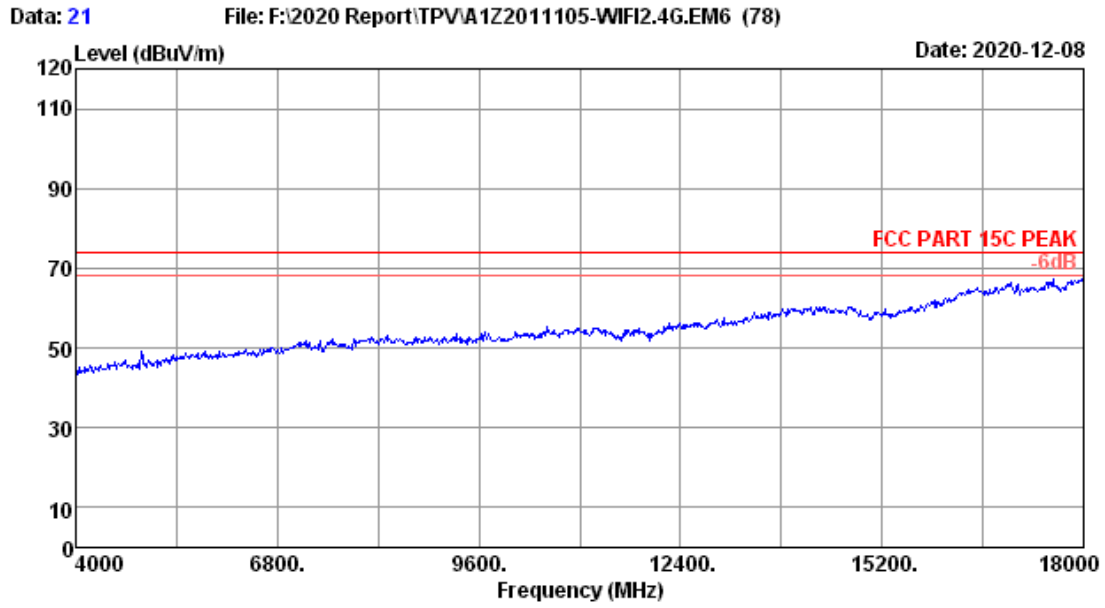
Site no.	: 3m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11g 2437MHz Tx Mode		



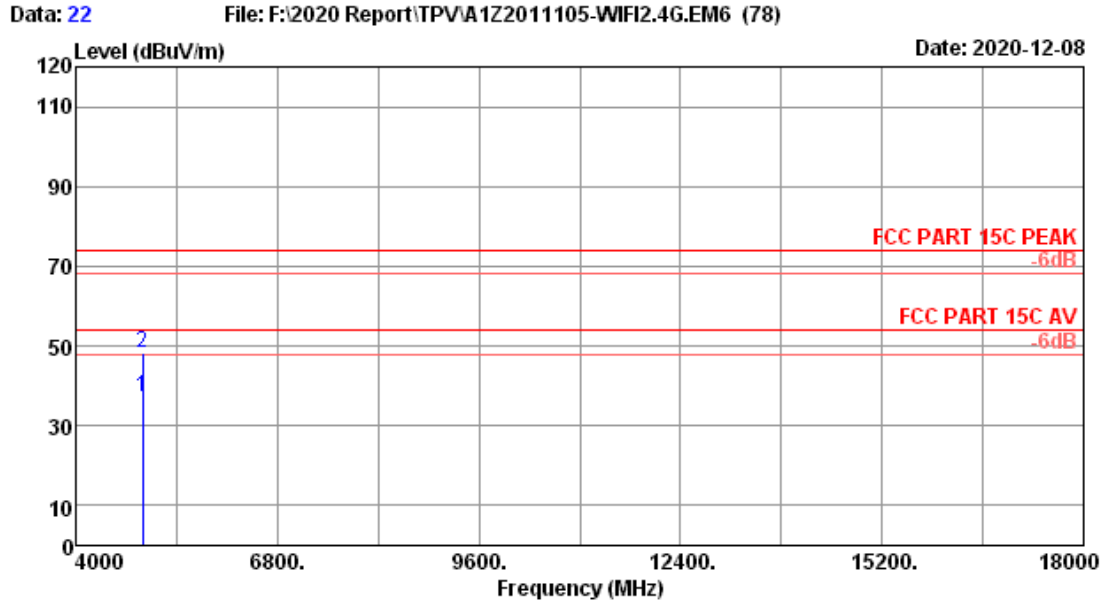
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	36.90	33.19	37.65	54.00	16.35	Average
2	4874.00	32.55	1.39	45.02	33.19	45.77	74.00	28.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



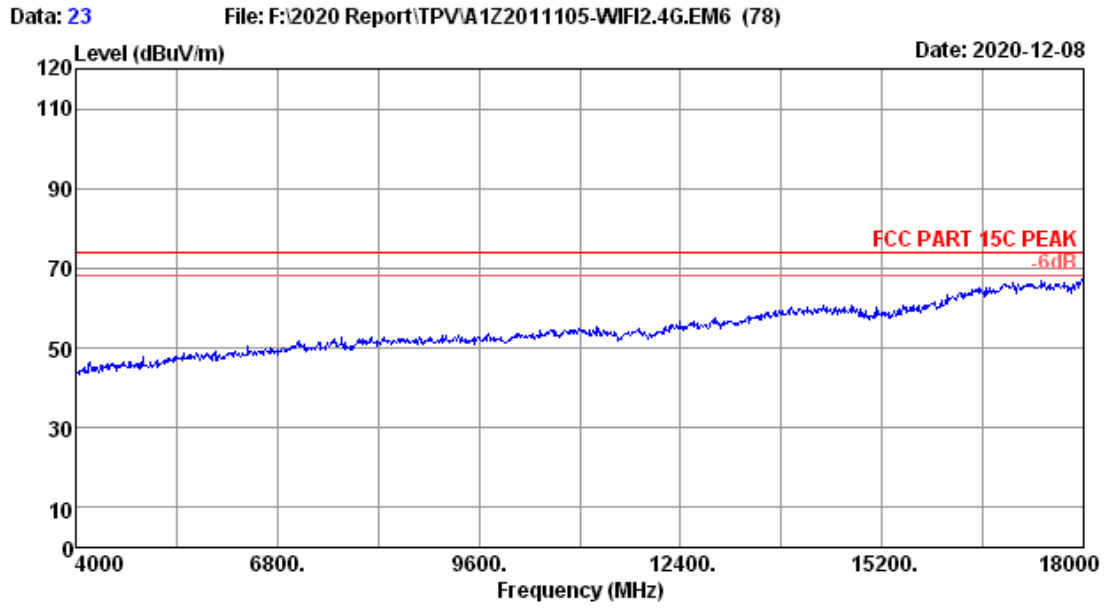
Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11g 2462MHz Tx Mode



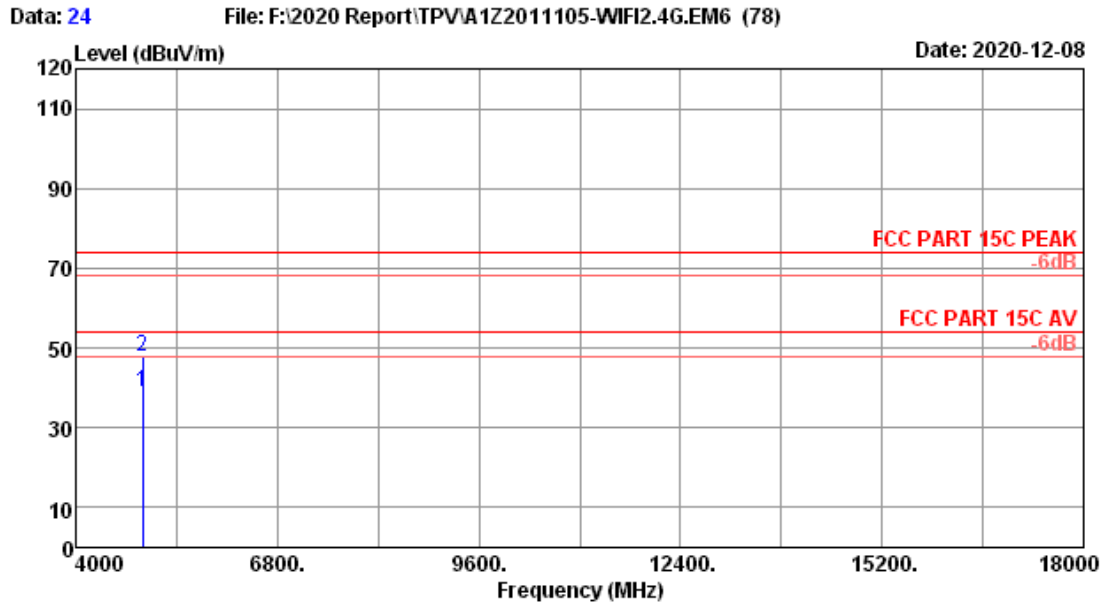
Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	36.60	33.19	37.37	54.00	16.63	Average
2	4924.00	32.57	1.39	47.63	33.19	48.40	74.00	25.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



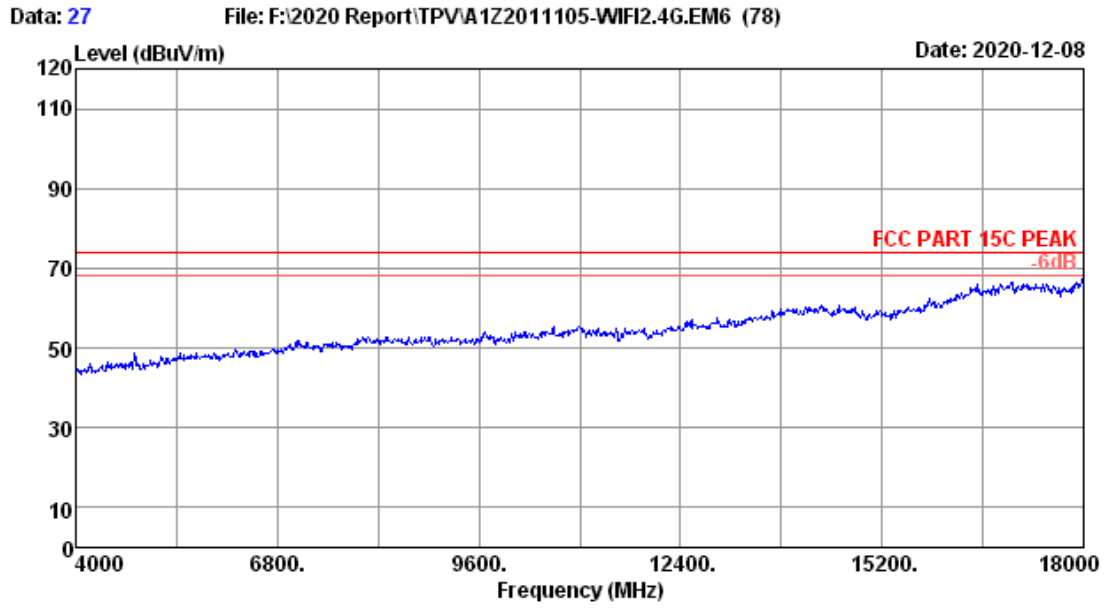
Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11g 2462MHz Tx Mode



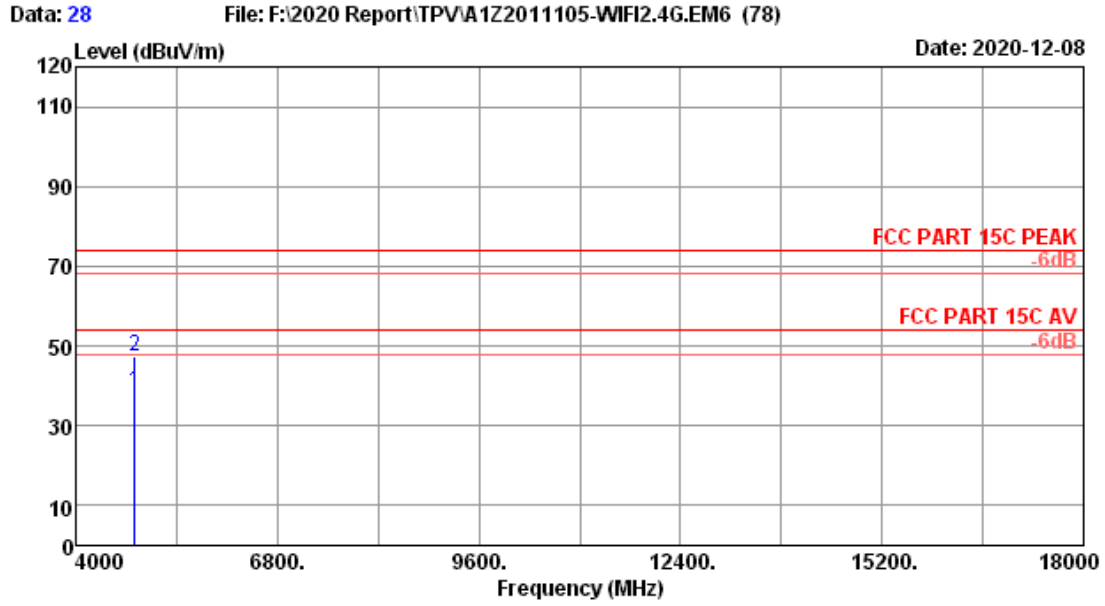
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	38.20	33.19	38.97	54.00	15.03	Average
2	4924.00	32.57	1.39	47.07	33.19	47.84	74.00	26.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



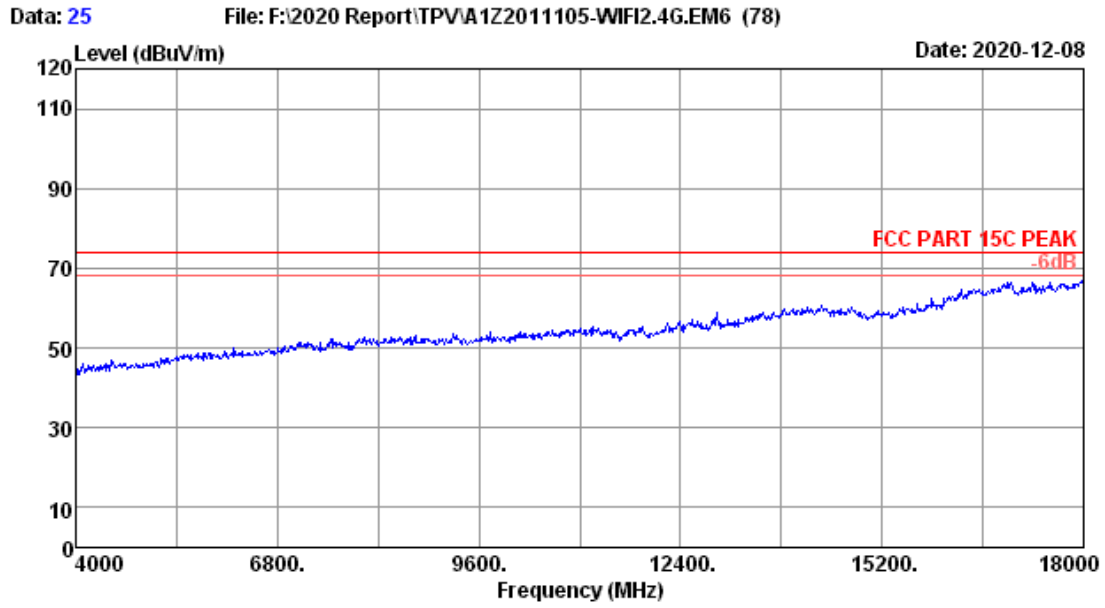
Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11nHT20 2412MHz Tx Mode



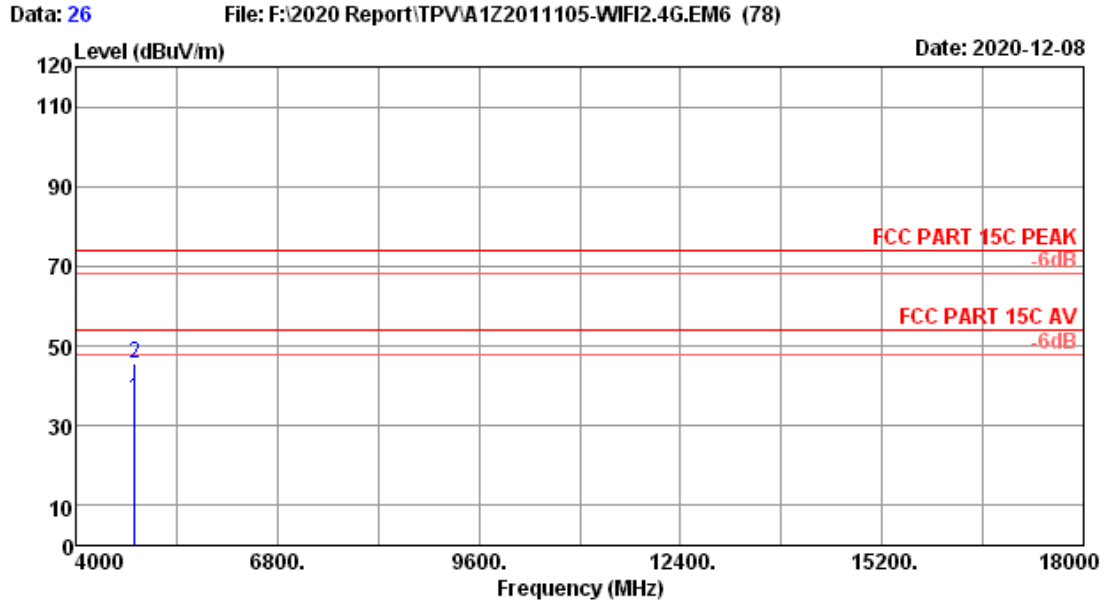
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	37.80	33.18	38.53	54.00	15.47	Average
2	4824.00	32.53	1.38	46.54	33.18	47.27	74.00	26.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



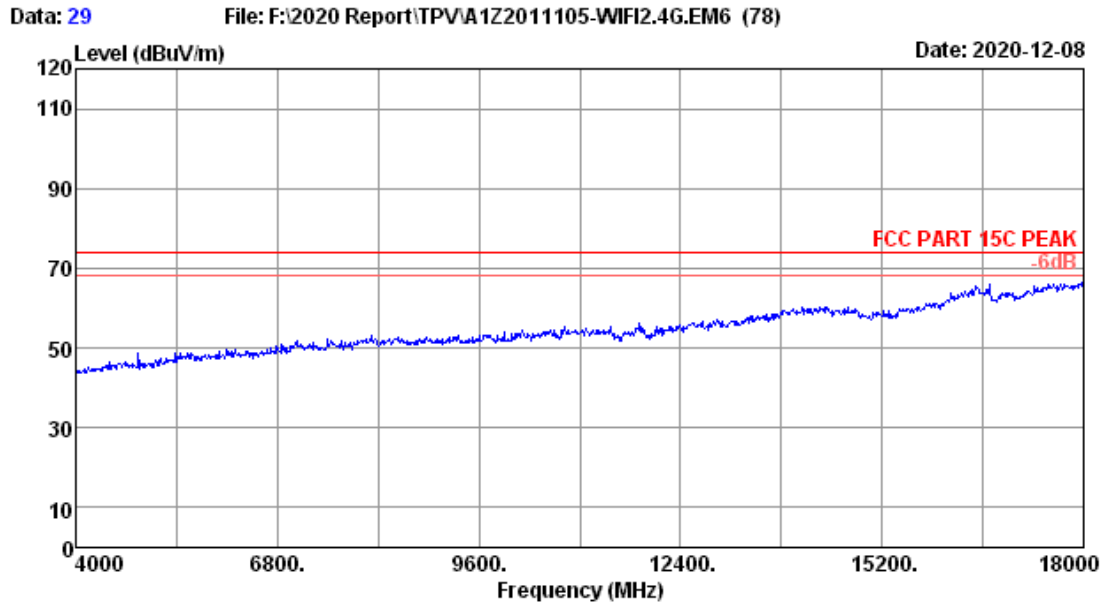
Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4*C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11nHT20 2412MHz Tx Mode		



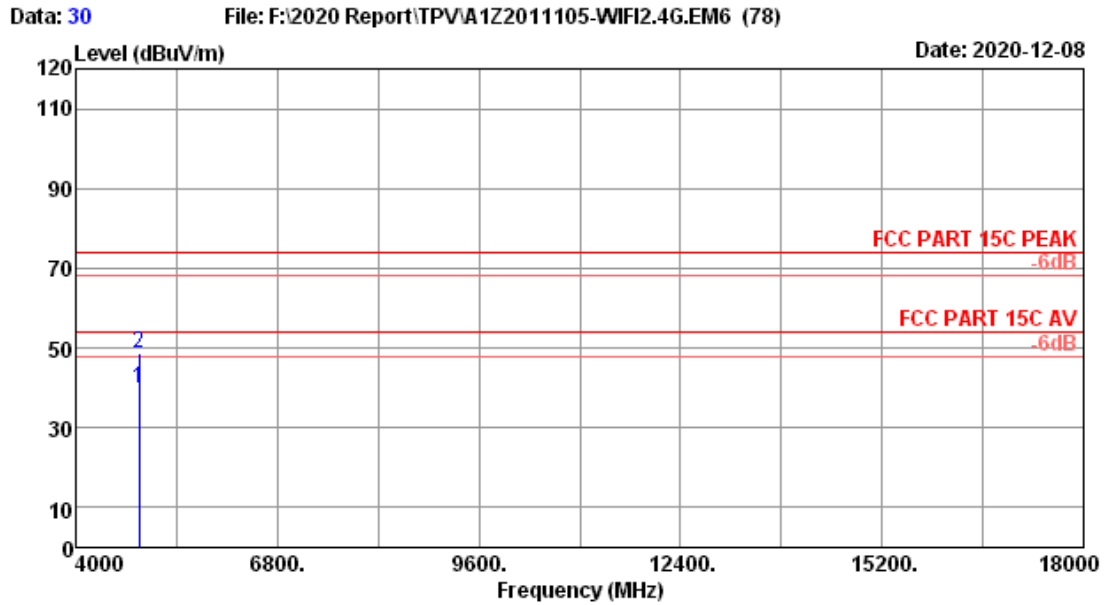
Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	32.53	1.38	35.90	33.18	36.63	54.00	17.37	Average
2	4824.00	32.53	1.38	44.99	33.18	45.72	74.00	28.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



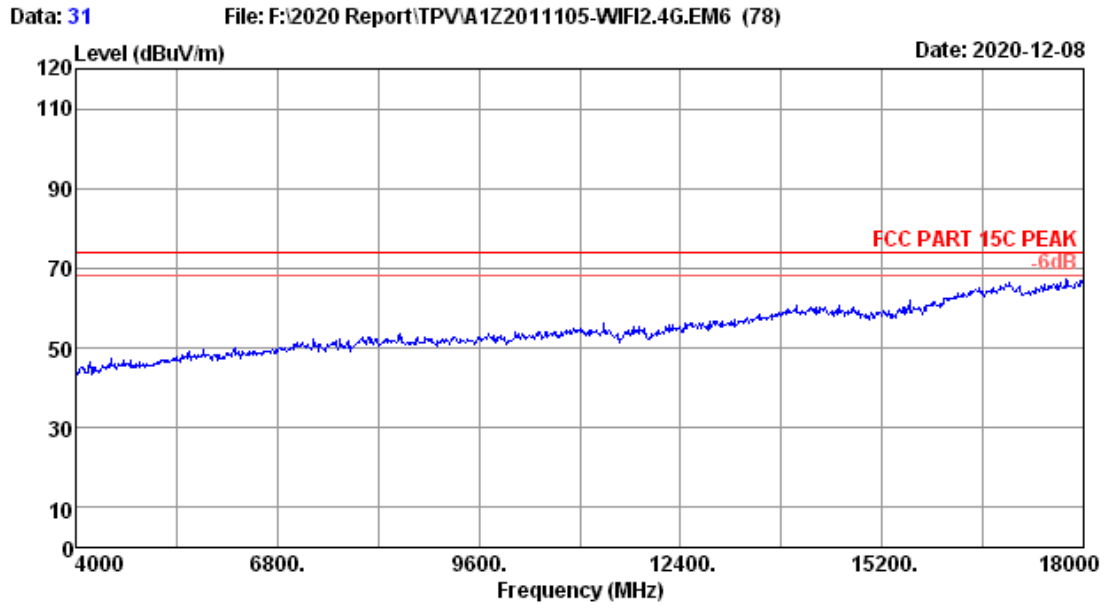
Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11nHT20 2437MHz Tx Mode



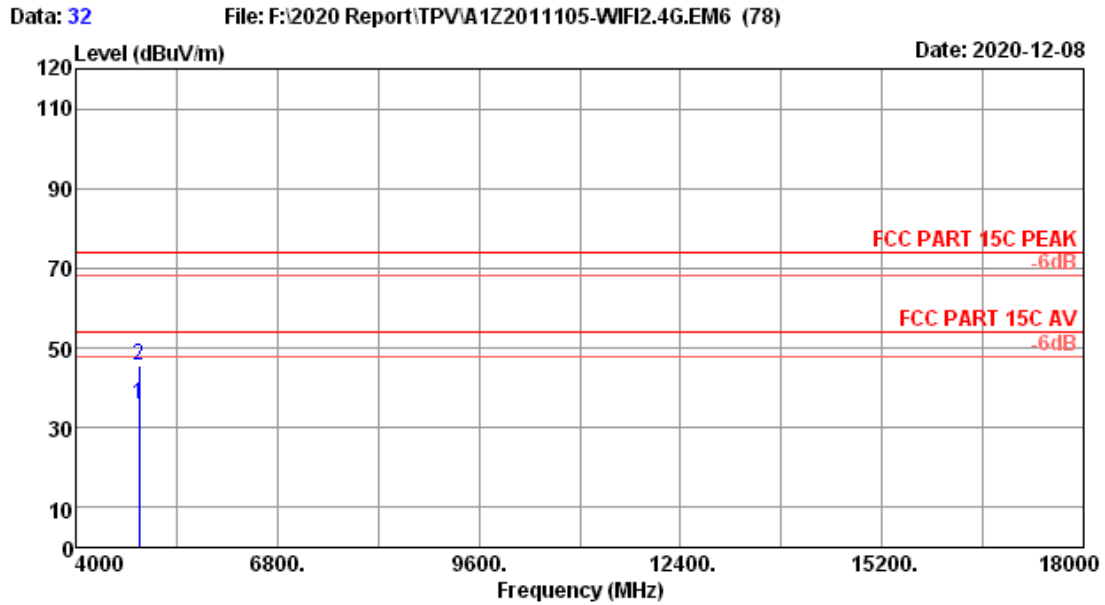
Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	39.20	33.19	39.95	54.00	14.05	Average
2	4874.00	32.55	1.39	48.14	33.19	48.89	74.00	25.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



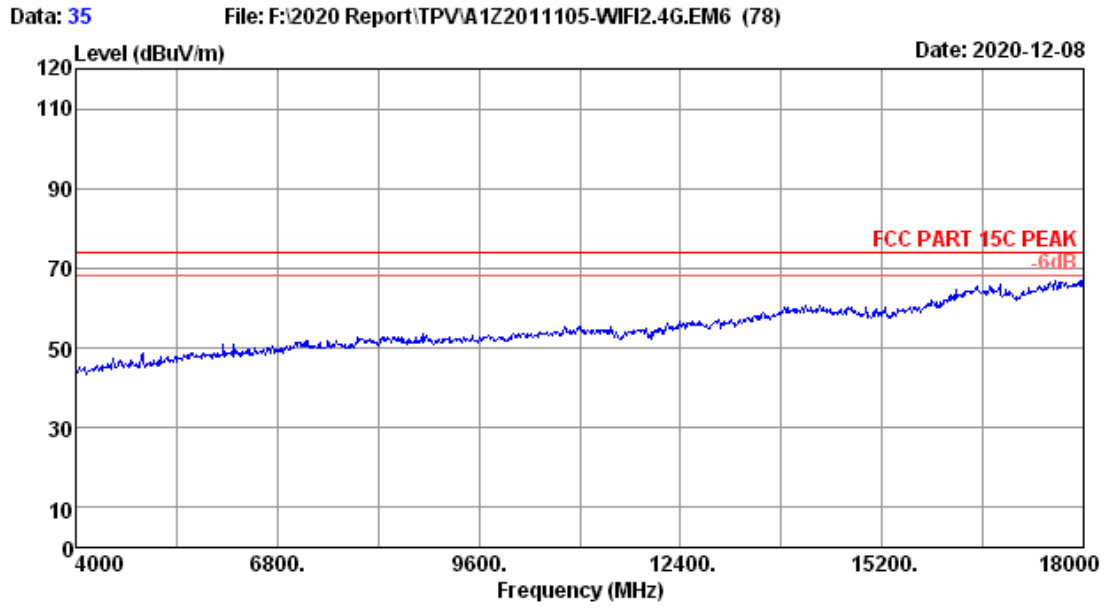
Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Allen
Power rating : AC 120V/60Hz
Test Mode : 11nHT20 2437MHz Tx Mode



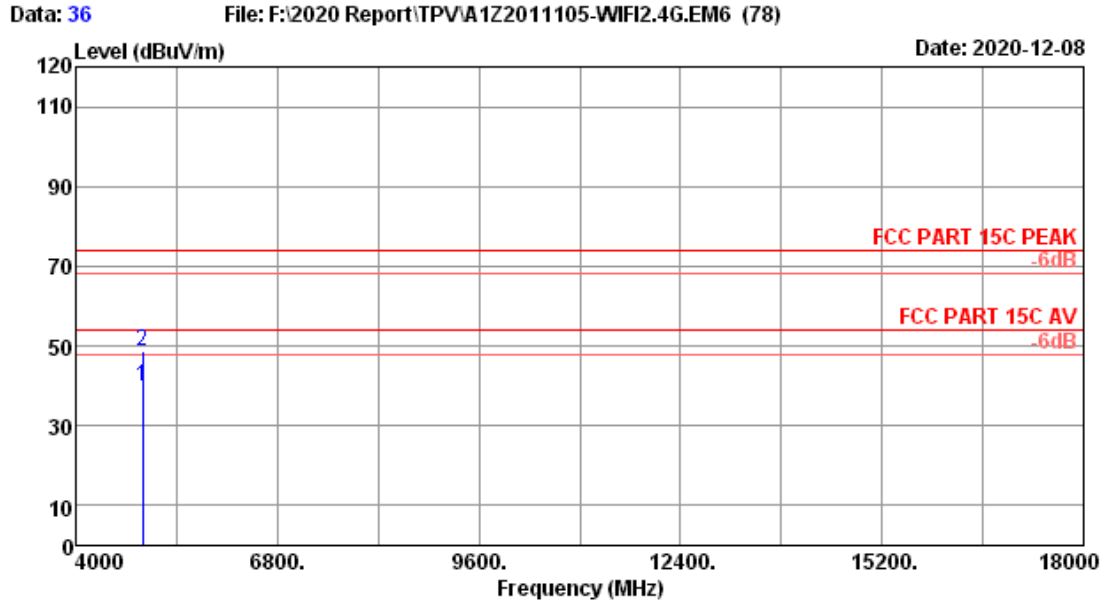
Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2437MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.00	32.55	1.39	35.20	33.19	35.95	54.00	18.05	Average
2	4874.00	32.55	1.39	44.74	33.19	45.49	74.00	28.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



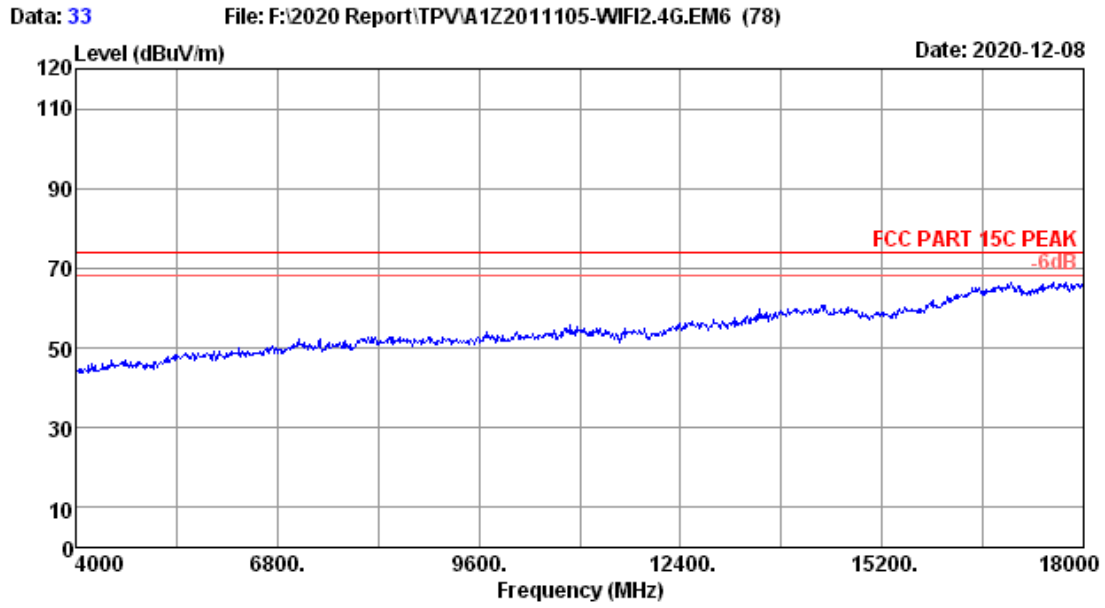
Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11nHT20 2462MHz Tx Mode		



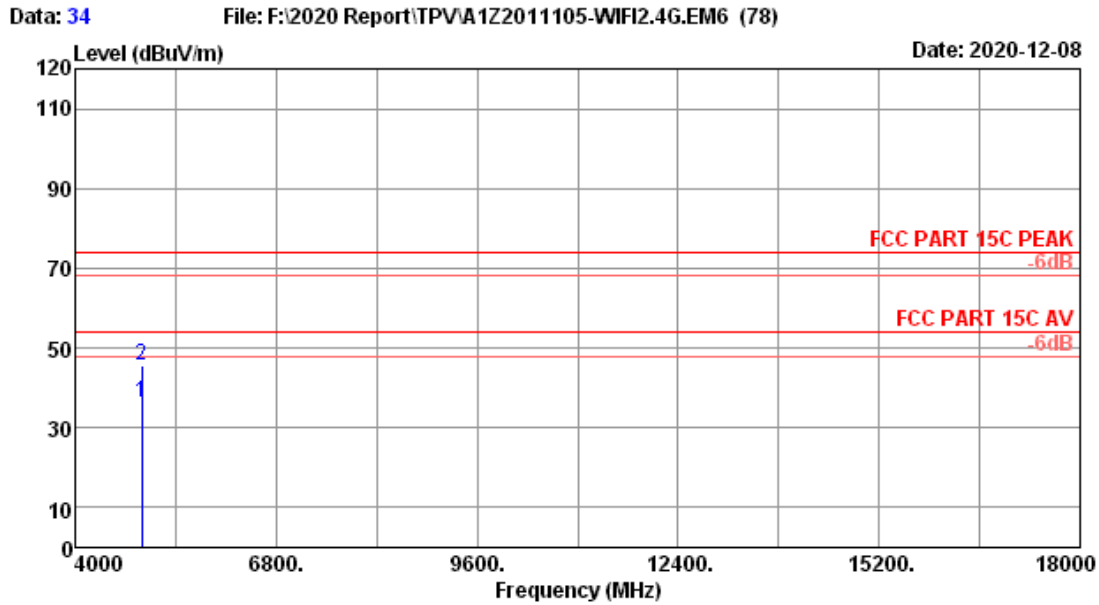
Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4*C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	38.90	33.19	39.67	54.00	14.33	Average
2	4924.00	32.57	1.39	47.84	33.19	48.61	74.00	25.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 2020 MCTD1209-3007	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.4°C/52.9%	Engineer	: Allen
Power rating	: AC 120V/60Hz		
Test Mode	: 11nHT20 2462MHz Tx Mode		



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.00	32.57	1.39	35.50	33.19	36.27	54.00	17.73	Average
2	4924.00	32.57	1.39	44.77	33.19	45.54	74.00	28.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

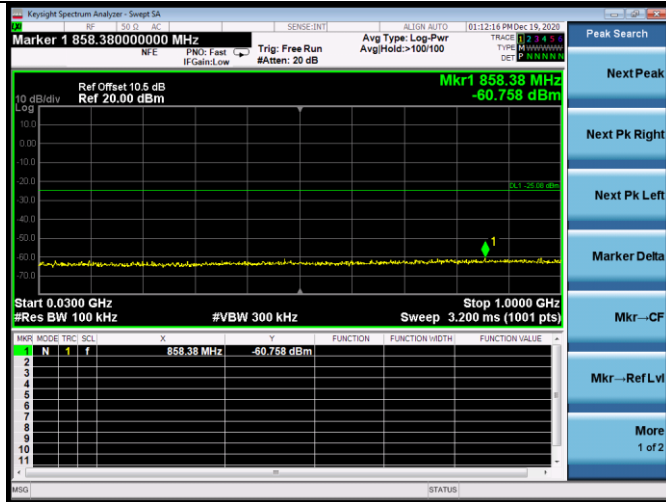
5.3. Test Procedure

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

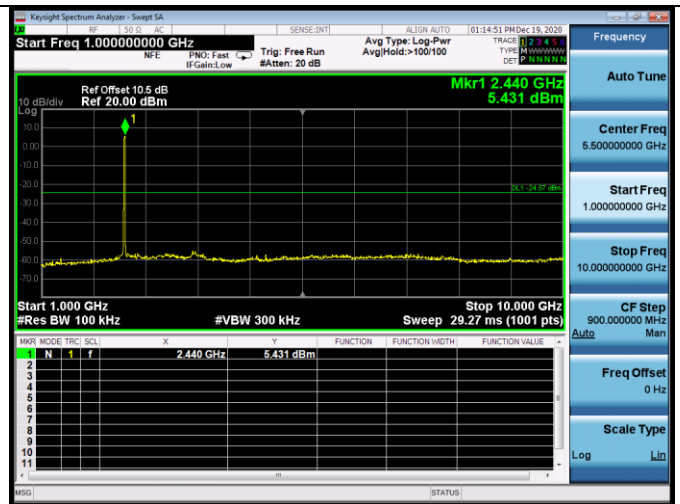
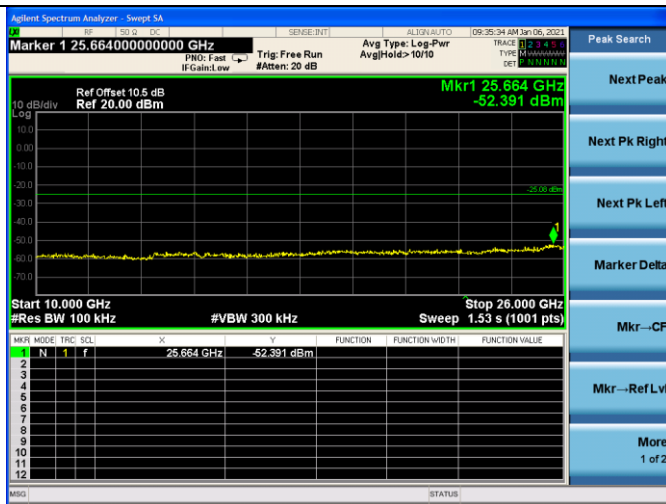
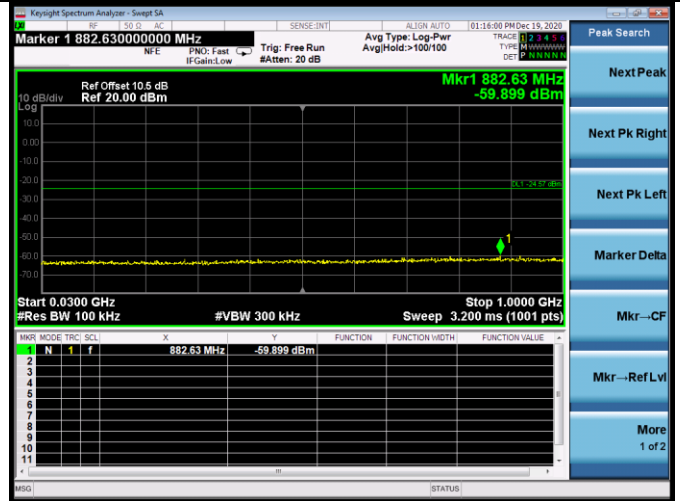
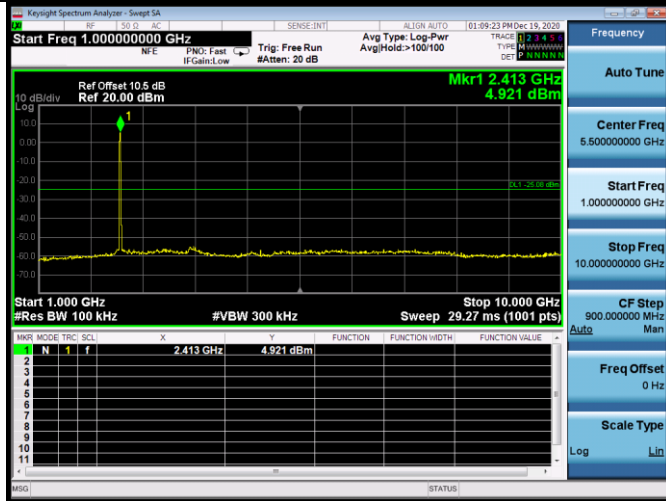
5.4. Test result

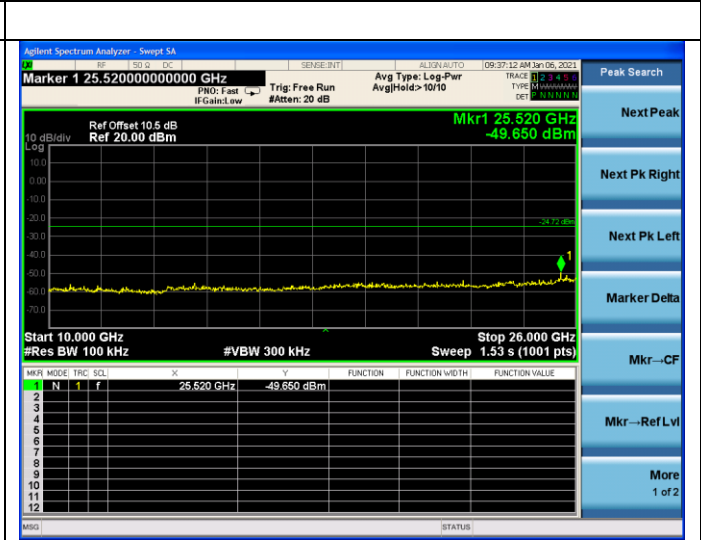
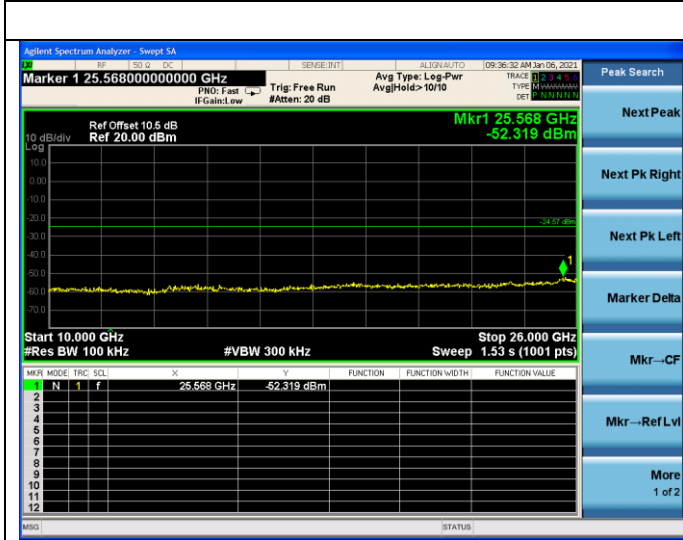
PASS (The testing data was attached in the next pages.)

Test Mode: IEEE 802.11b
Test CH1: 2412MHz

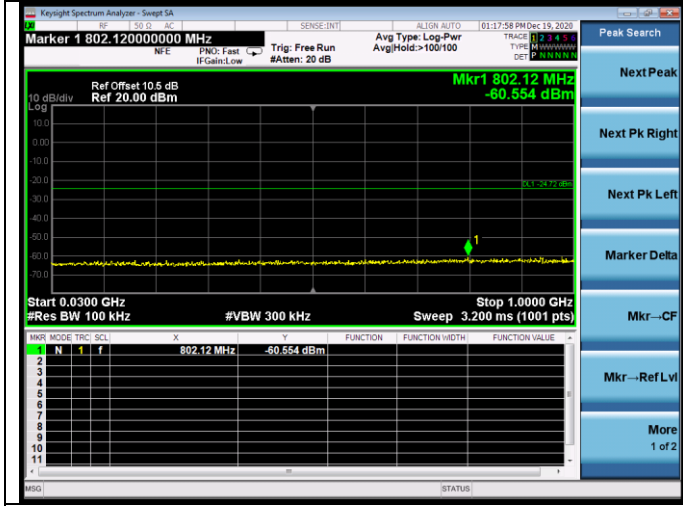


Test CH6: 2437MHz

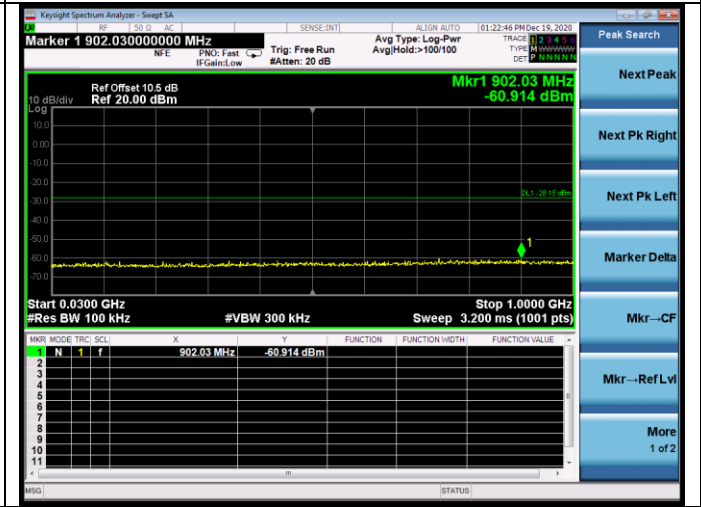
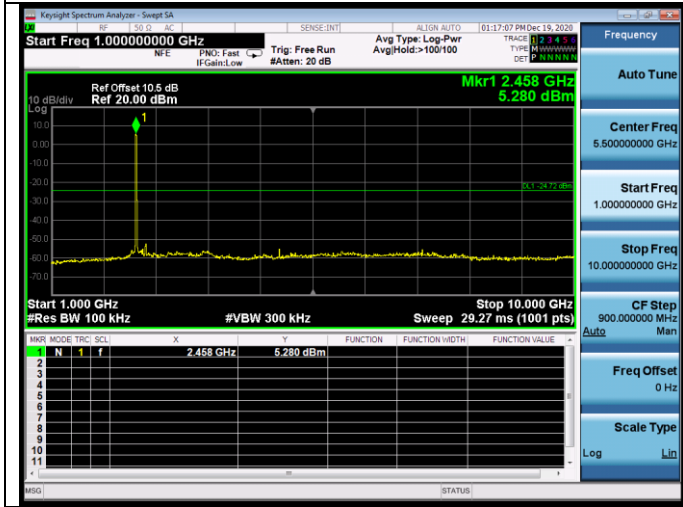




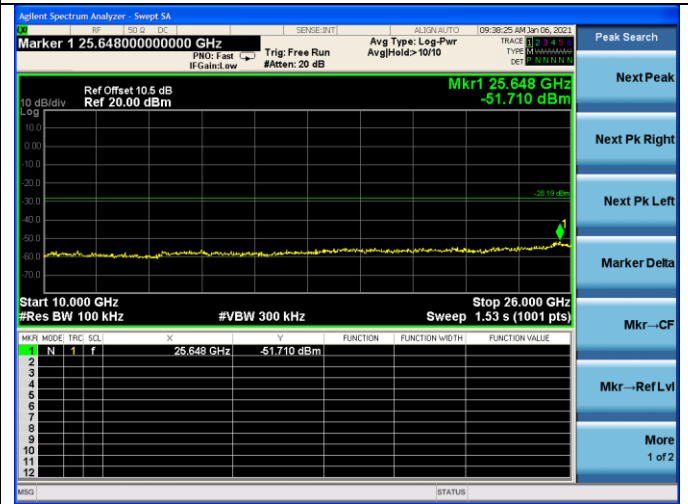
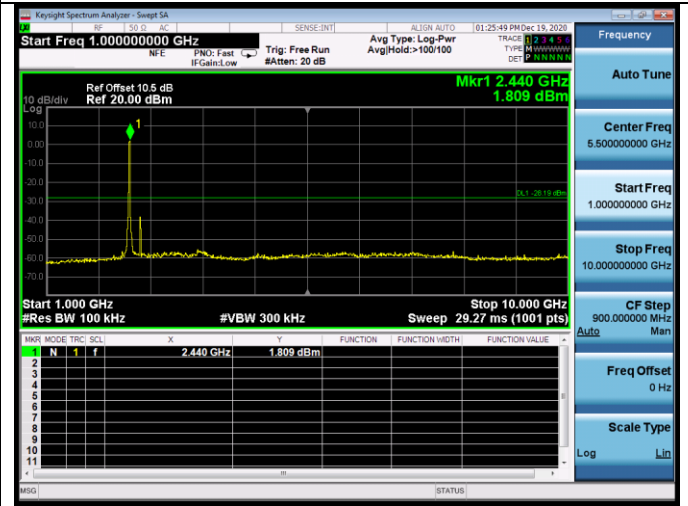
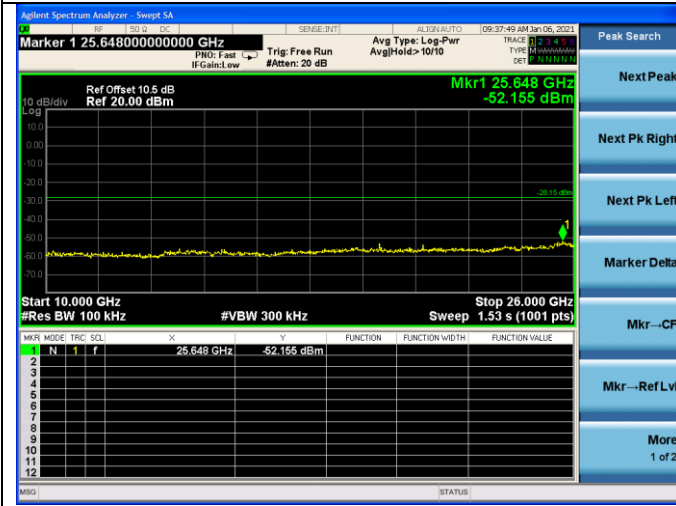
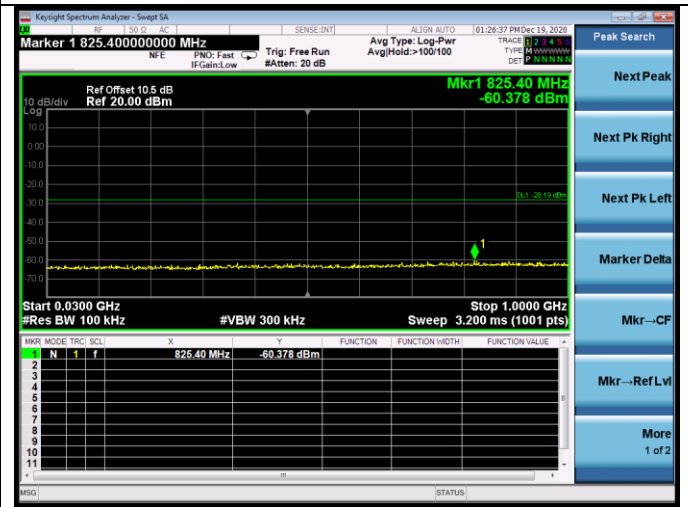
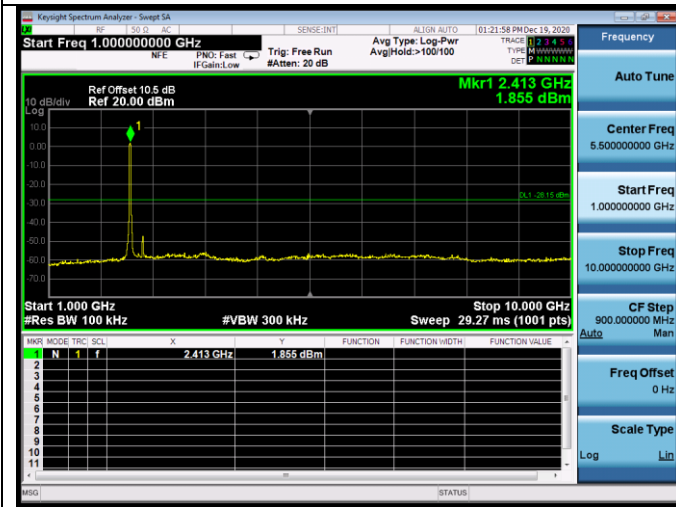
Test CH11: 2462MHz



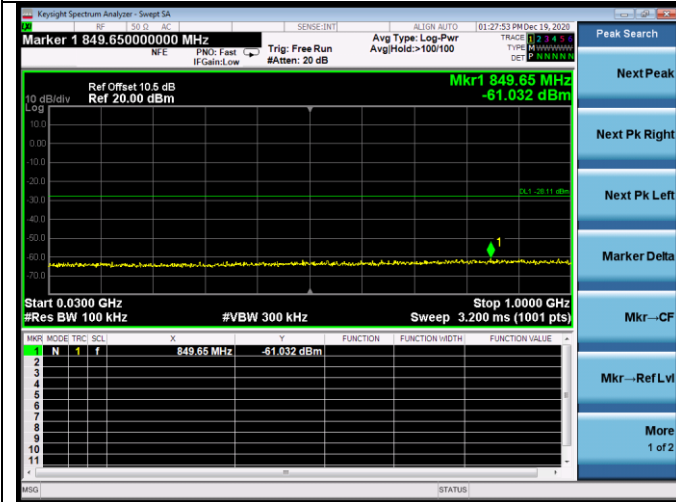
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



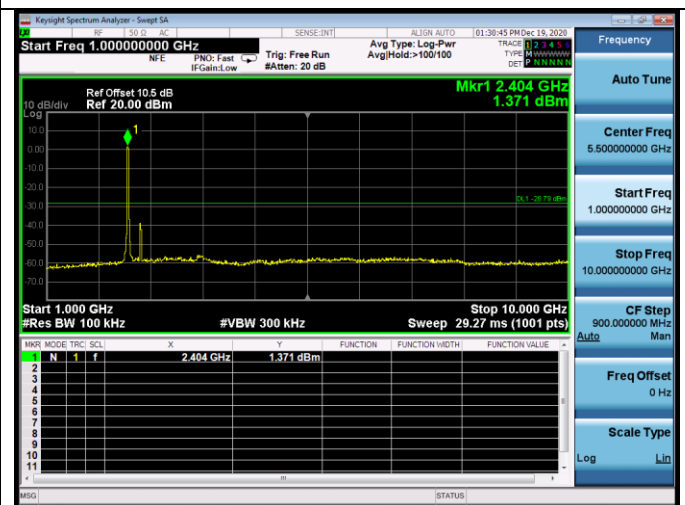
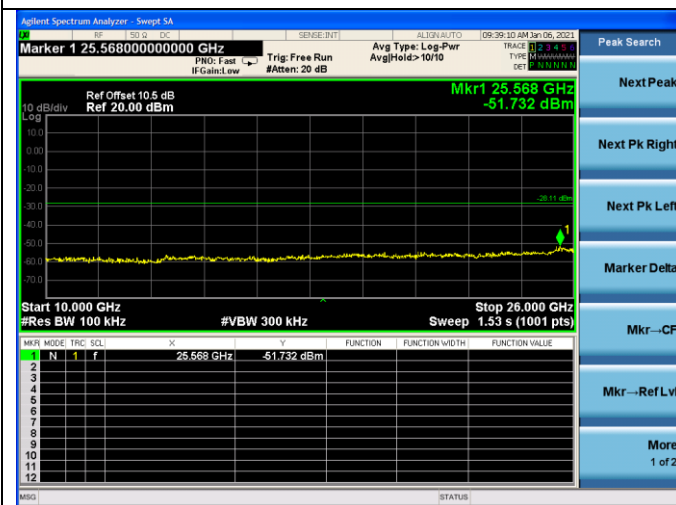
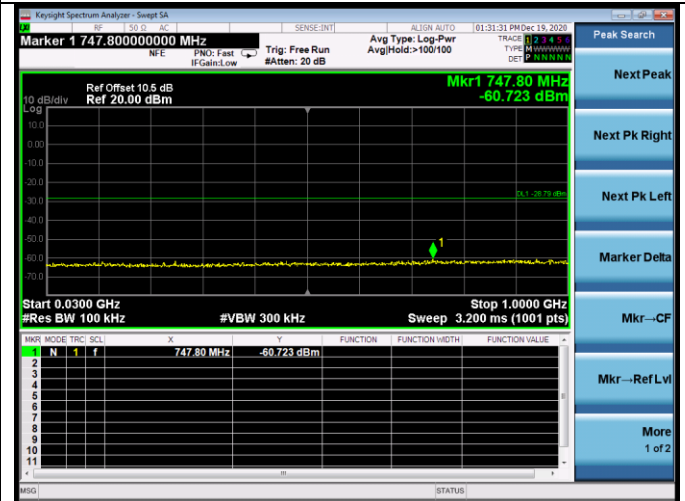
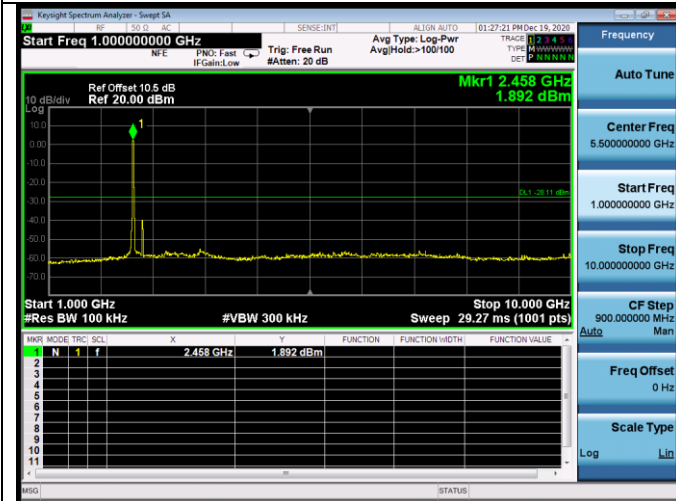
Test CH6: 2437MHz

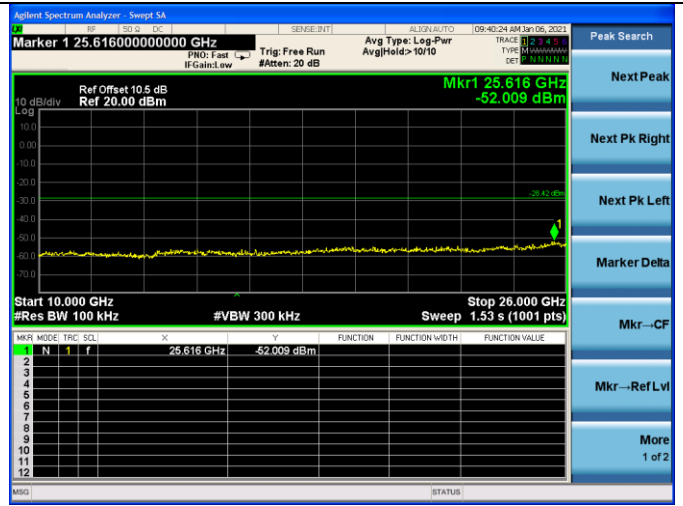
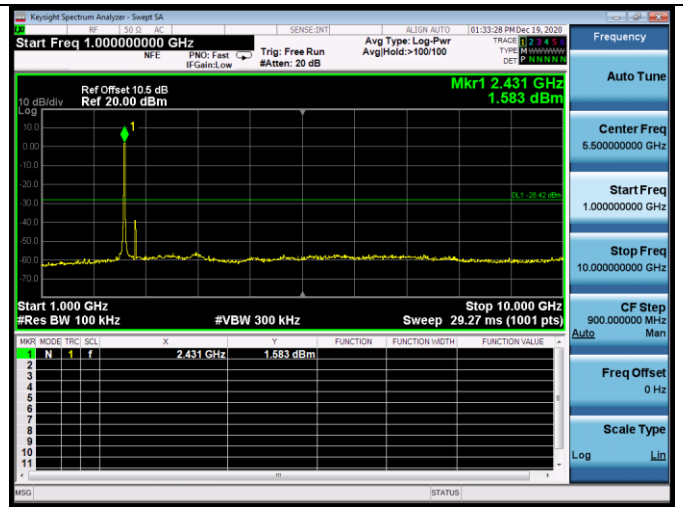
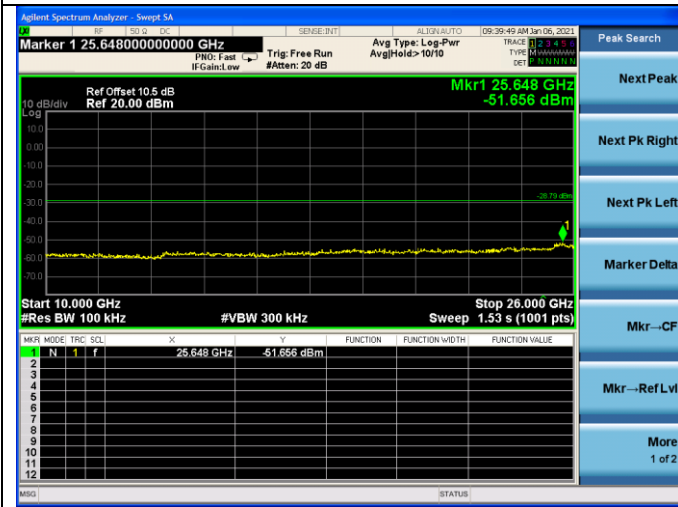


Test CH11: 2462MHz

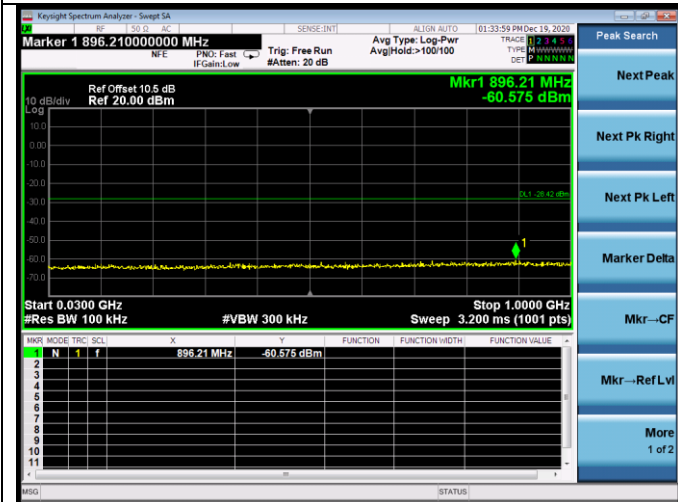


Test Mode: IEEE 802.11n HT20
 Test CH1: 2412MHz

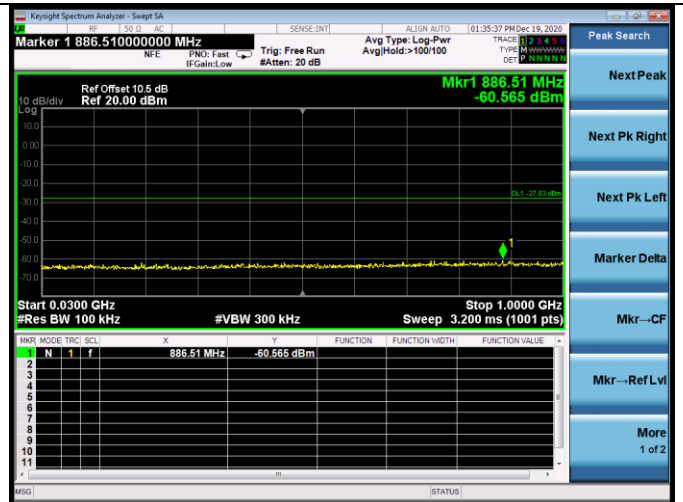


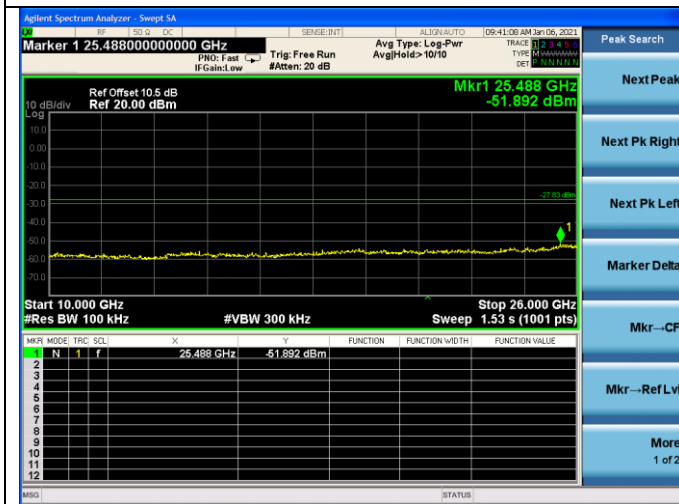
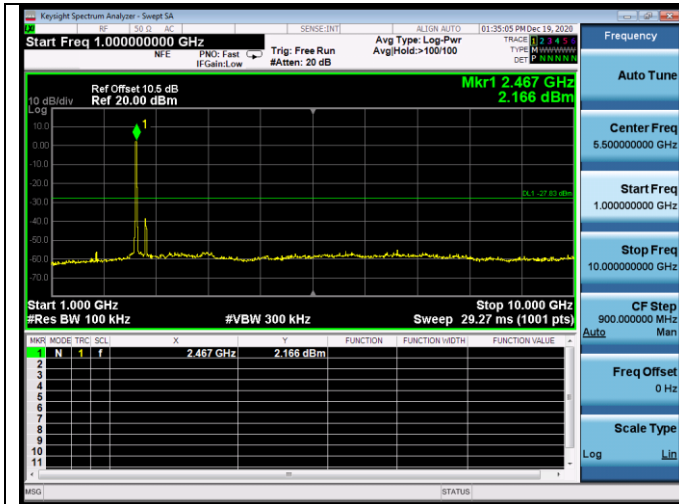


Test CH6: 2437MHz



Test CH11: 2462MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.11,20	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jul.30,20	1 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

6.2. Limit

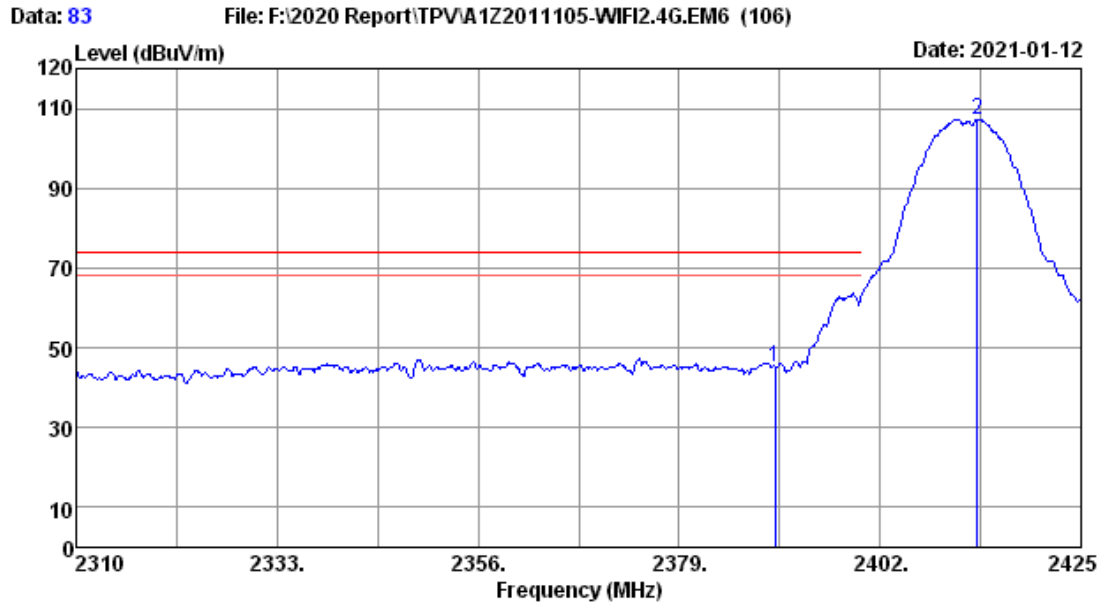
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

6.3. Test Procedure

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

6.4. Test Results

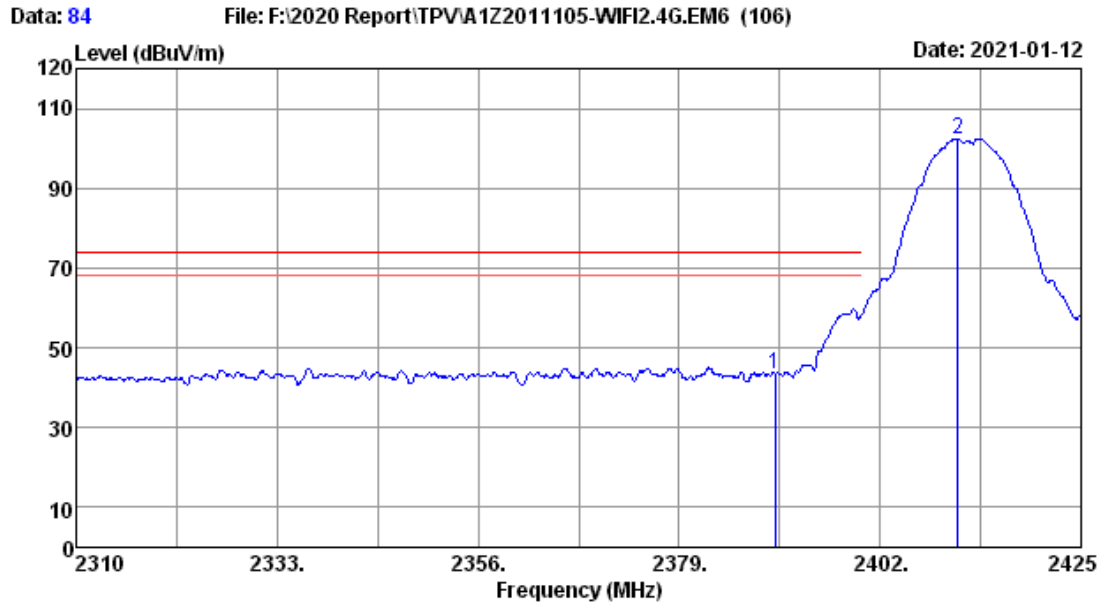
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	50.08	33.48	45.31	74.00	28.69	Peak
2	2413.16	27.83	0.92	111.98	33.48	107.25	-----	-----	Peak

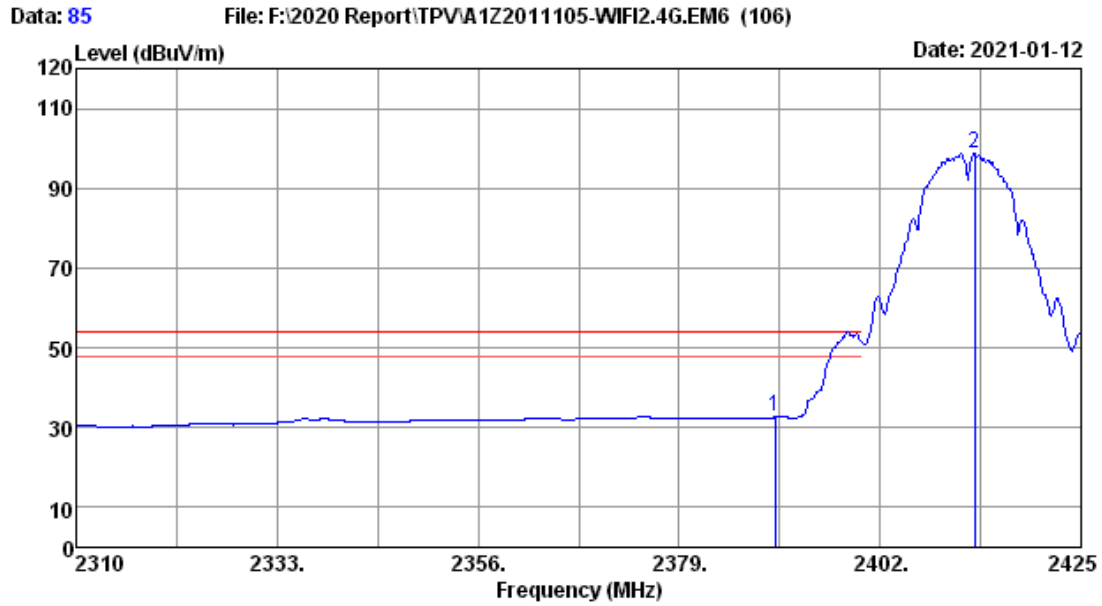
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	48.38	33.48	43.61	74.00	30.39	Peak
2	2410.86	27.83	0.92	107.24	33.48	102.51	-----	-----	Peak

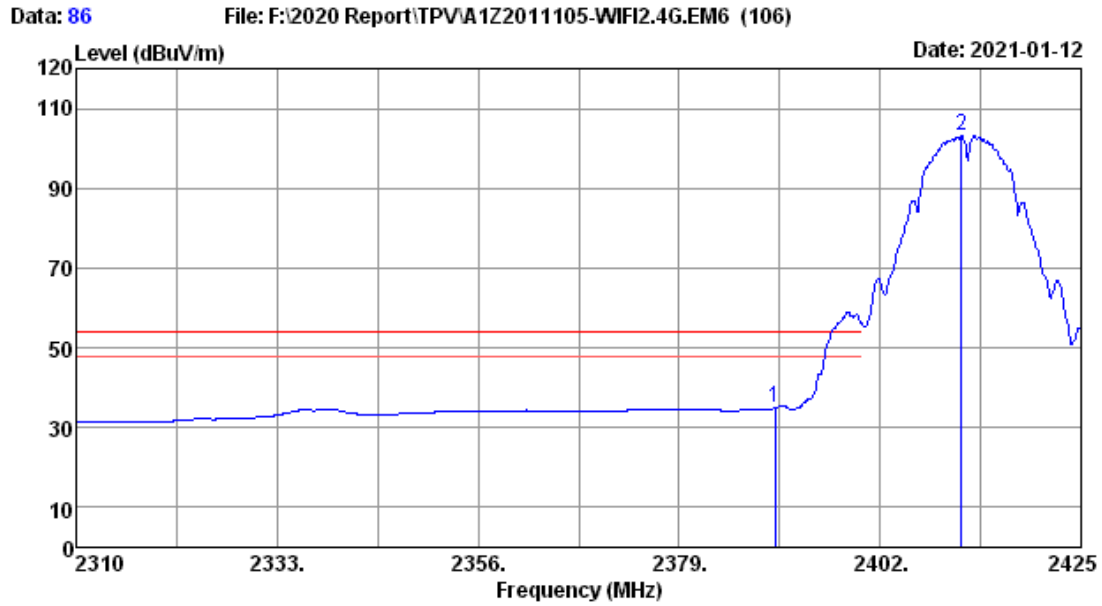
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	37.41	33.48	32.64	54.00	21.36	Average
2	2412.81	27.83	0.92	103.44	33.48	98.71	-----	-----	Average

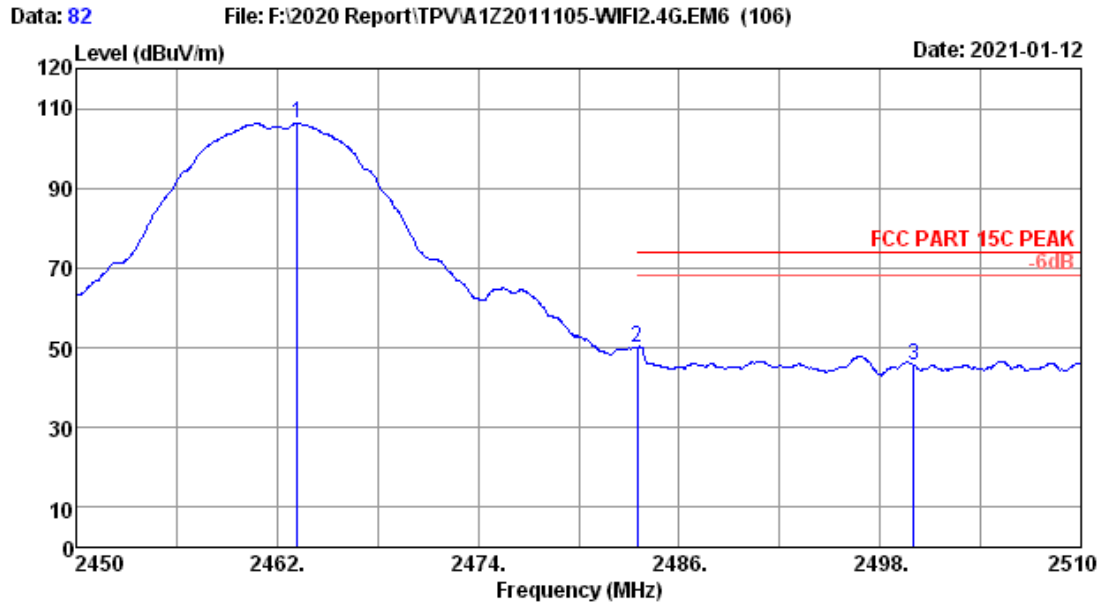
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	39.68	33.48	34.91	54.00	19.09	Average
2	2411.32	27.83	0.92	108.09	33.48	103.36	-----	-----	Average

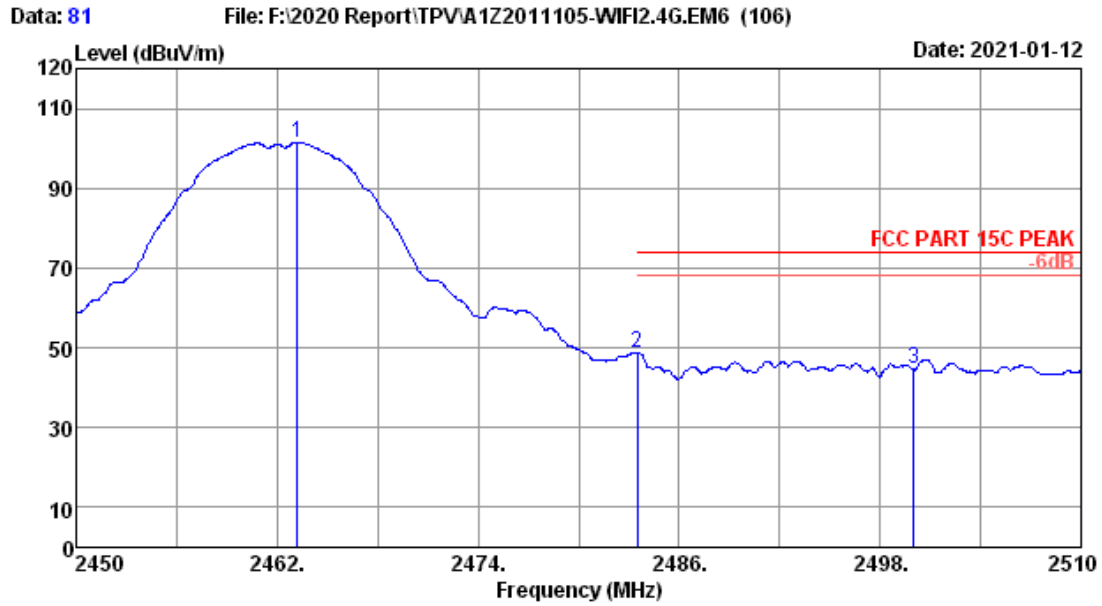
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.20	27.93	0.94	110.81	33.46	106.22	-----	-----	Peak
2	2483.50	27.97	0.94	54.69	33.46	50.14	74.00	23.86	Peak
3	2500.00	28.00	0.95	50.30	33.45	45.80	74.00	28.20	Peak

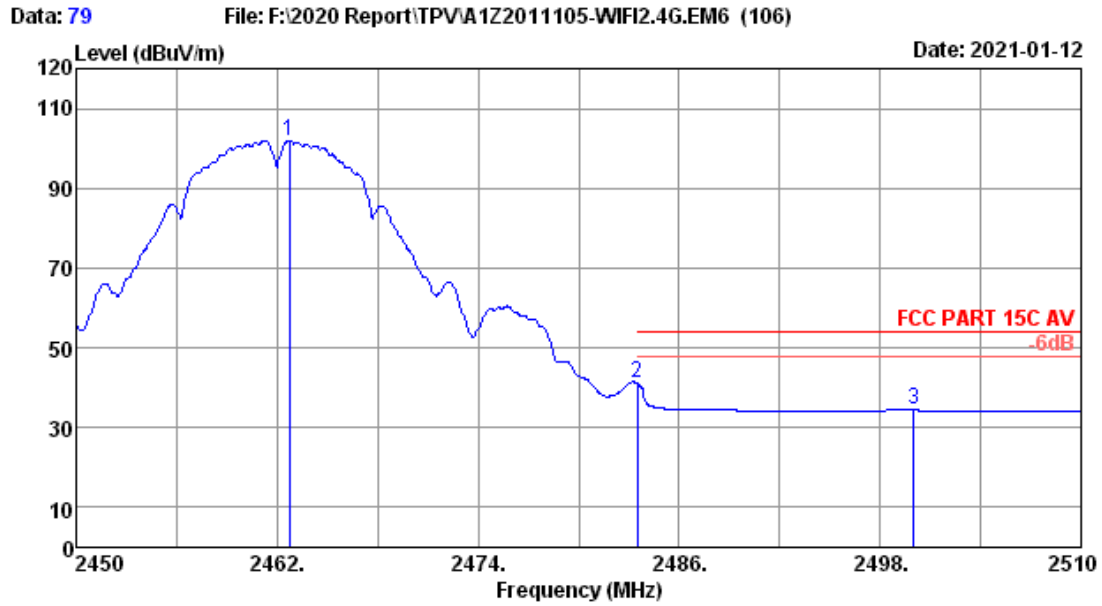
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.20	27.93	0.94	106.10	33.46	101.51	-----	-----	Peak
2	2483.50	27.97	0.94	53.38	33.46	48.83	74.00	25.17	Peak
3	2500.00	28.00	0.95	49.16	33.45	44.66	74.00	29.34	Peak

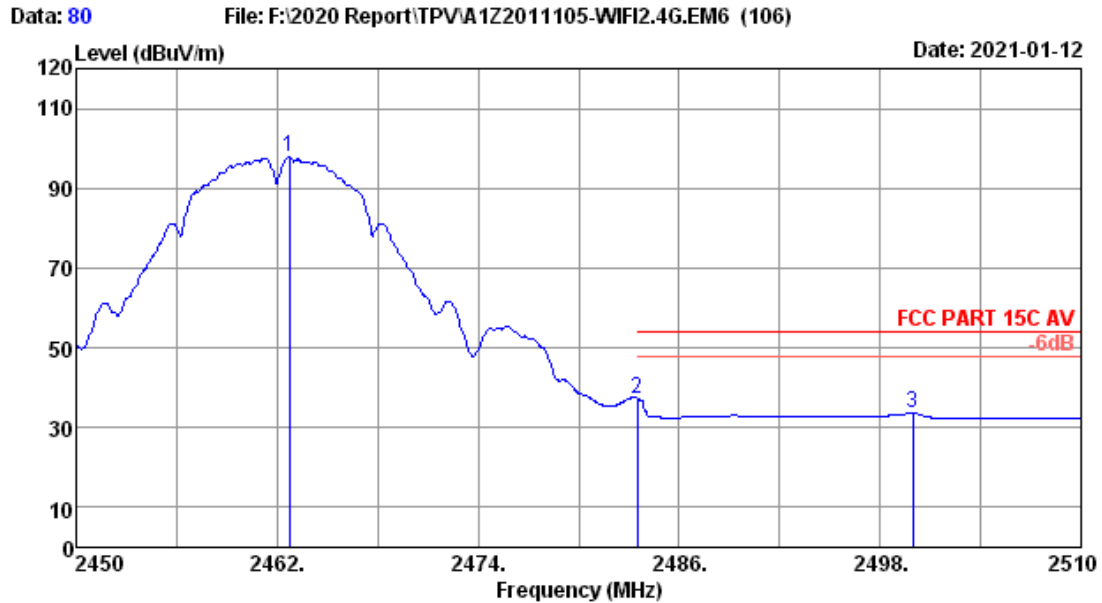
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.72	27.93	0.94	106.61	33.46	102.02	-----	-----	Average
2	2483.50	27.97	0.94	45.63	33.46	41.08	54.00	12.92	Average
3	2500.00	28.00	0.95	38.88	33.45	34.38	54.00	19.62	Average

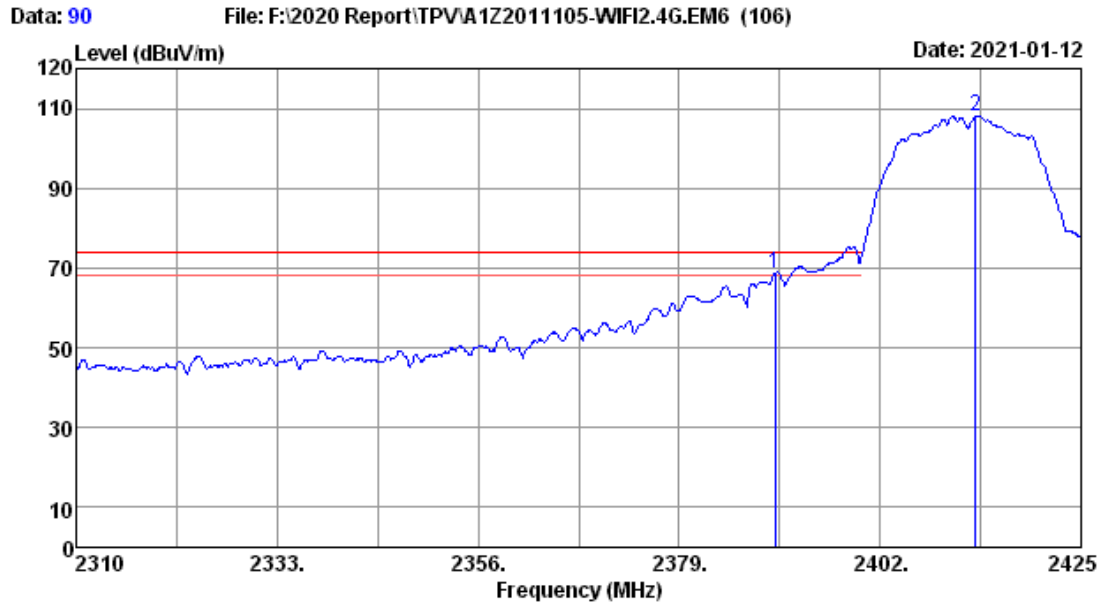
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11b 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.72	27.93	0.94	102.37	33.46	97.78	-----	-----	Average
2	2483.48	27.97	0.94	41.91	33.46	37.36	-----	-----	Average
3	2499.98	28.00	0.95	38.08	33.45	33.58	54.00	20.42	Average

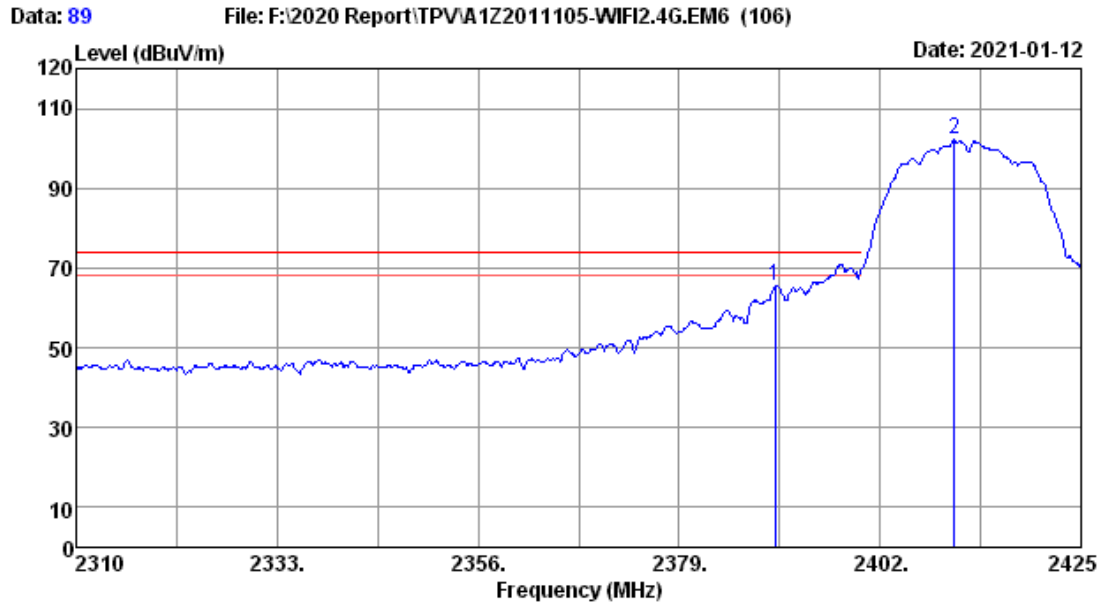
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	73.58	33.48	68.81	74.00	5.19	Peak
2	2412.93	27.83	0.92	112.92	33.48	108.19	-----	-----	Peak

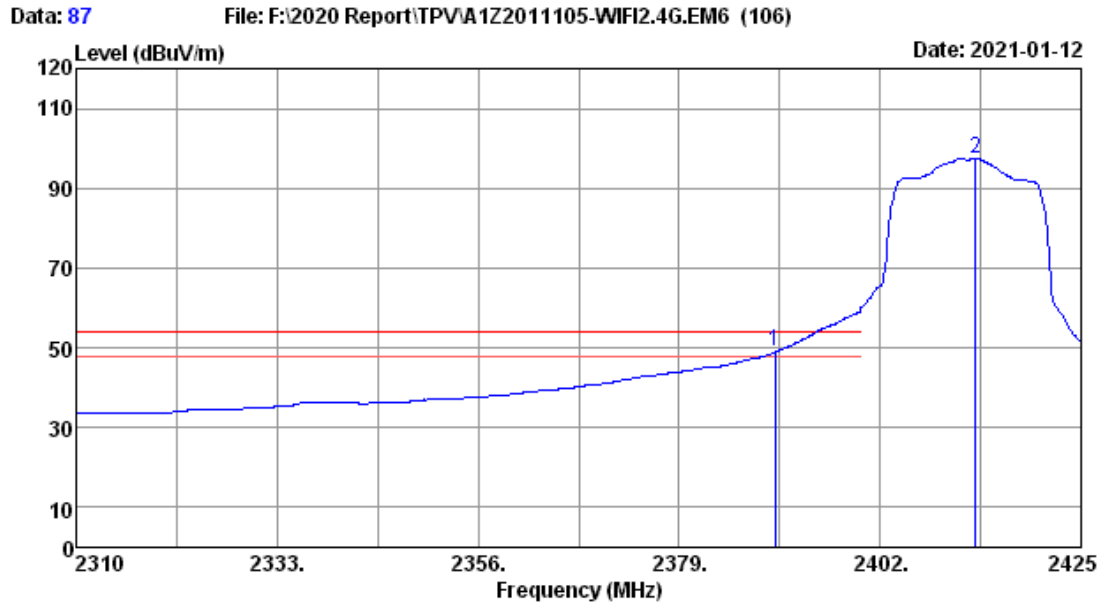
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	70.09	33.48	65.32	74.00	8.68	Peak
2	2410.51	27.83	0.92	106.87	33.48	102.14	-----	-----	Peak

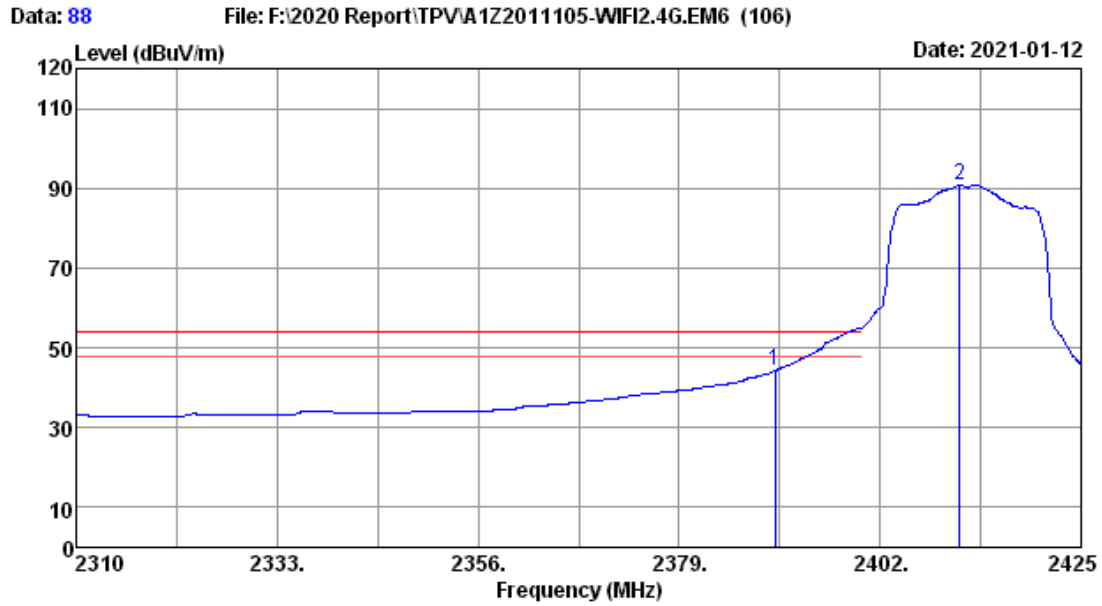
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	53.72	33.48	48.95	54.00	5.05	Average
2	2412.93	27.83	0.92	102.29	33.48	97.56	-----	-----	Average

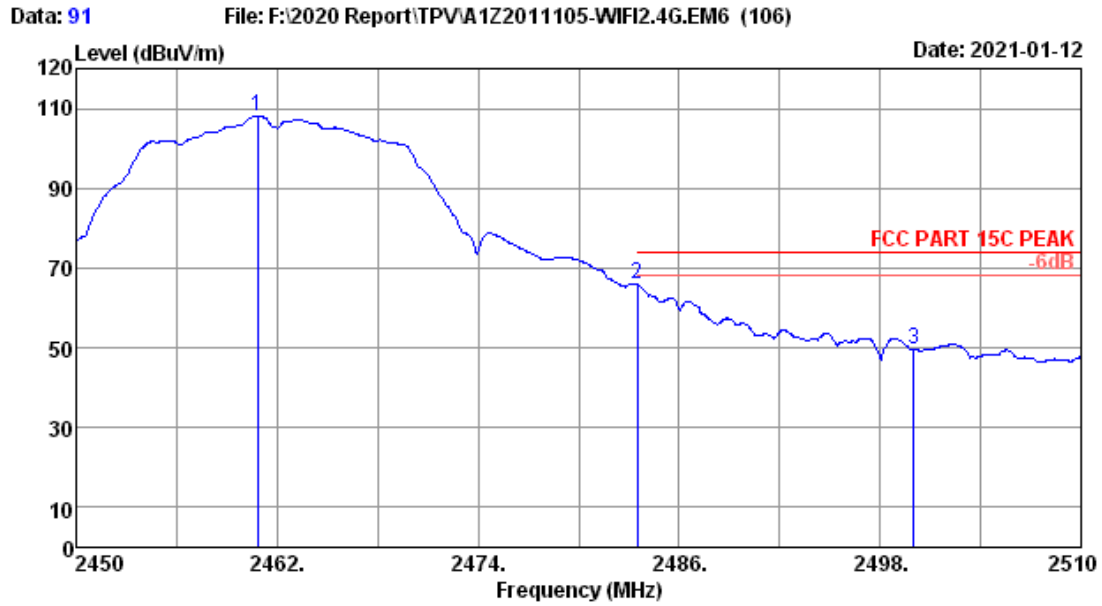
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	49.09	33.48	44.32	54.00	9.68	Average
2	2411.09	27.83	0.92	95.64	33.48	90.91	-----	-----	Average

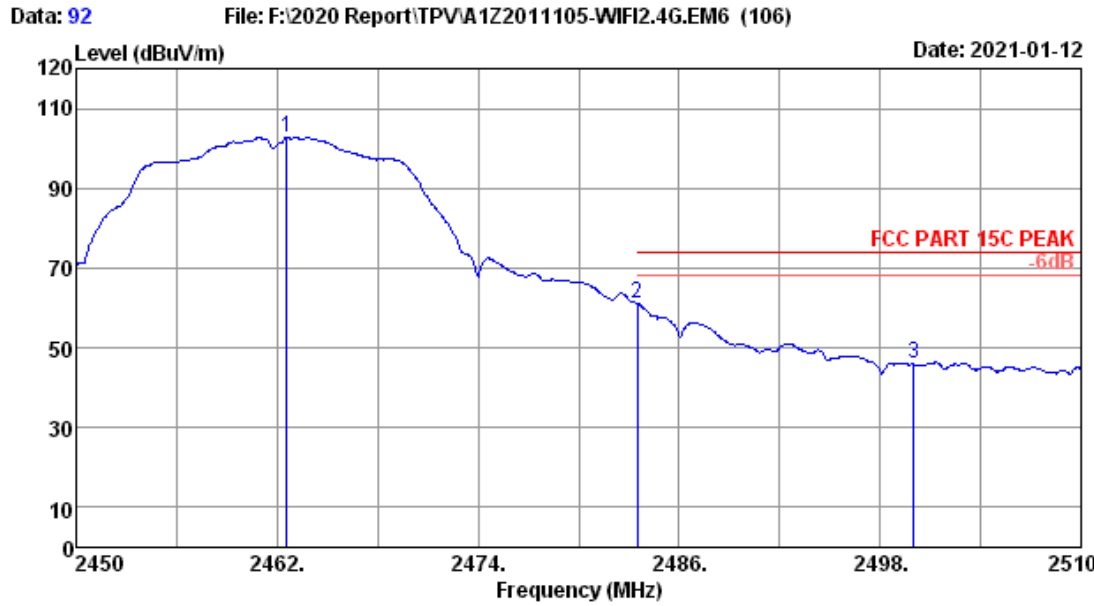
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	27.93	0.94	112.78	33.46	108.19	-----	-----	Peak
2	2483.50	27.97	0.94	70.44	33.46	65.89	74.00	8.11	Peak
3	2500.00	28.00	0.95	54.25	33.45	49.75	74.00	24.25	Peak

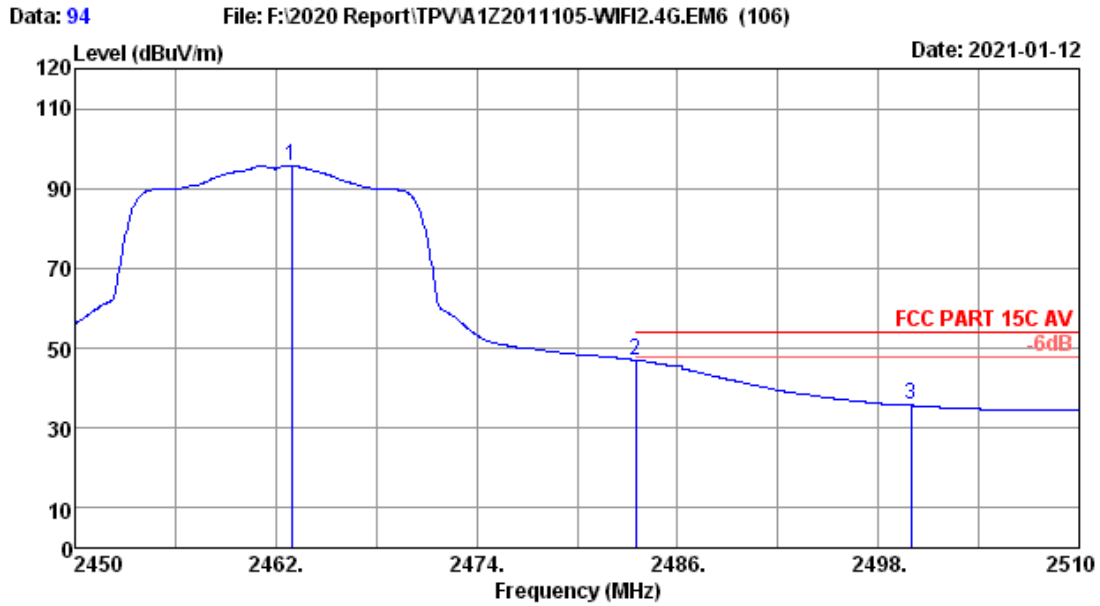
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.60	27.93	0.94	107.44	33.46	102.85	-----	-----	Peak
2	2483.50	27.97	0.94	65.73	33.46	61.18	74.00	12.82	Peak
3	2500.00	28.00	0.95	50.41	33.45	45.91	74.00	28.09	Peak

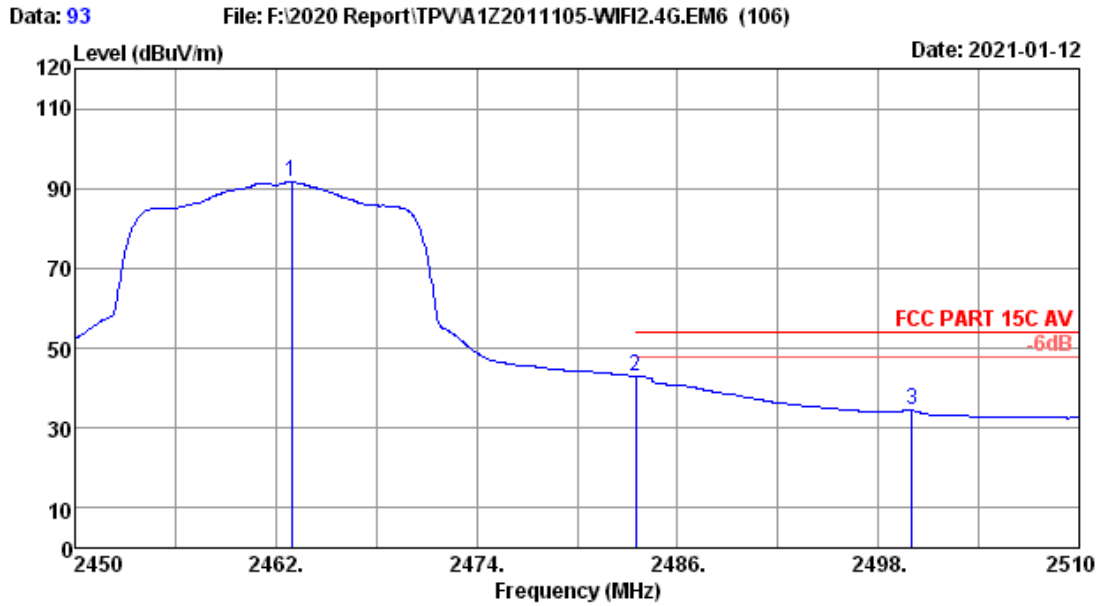
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.96	27.93	0.94	100.35	33.46	95.76	-----	-----	Average
2	2483.48	27.97	0.94	51.54	33.46	46.99	-----	-----	Average
3	2499.98	28.00	0.95	40.19	33.45	35.69	54.00	18.31	Average

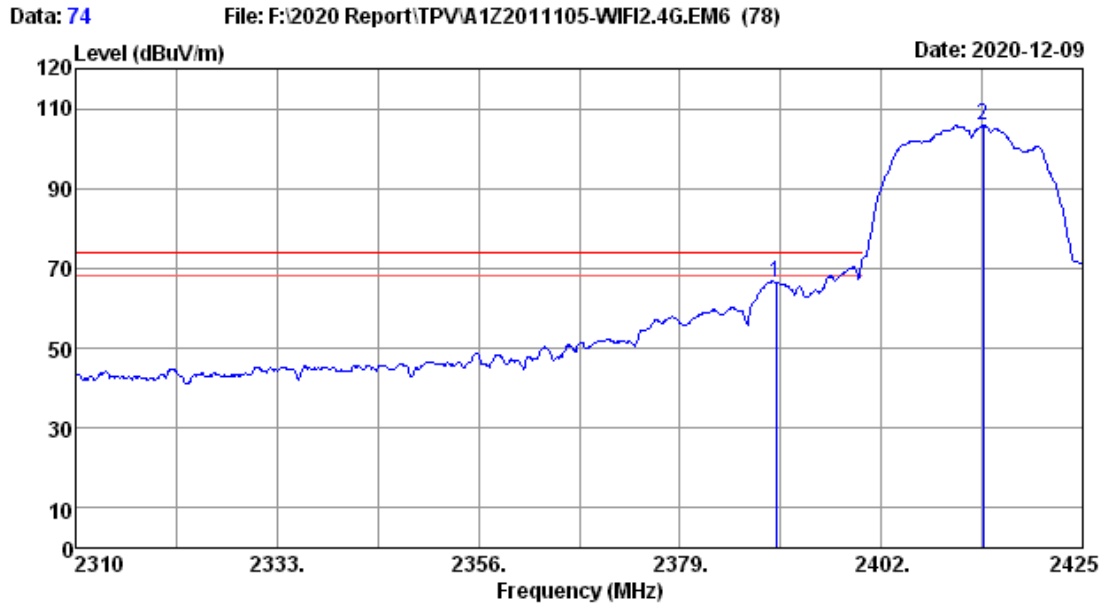
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11g 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.96	27.93	0.94	96.18	33.46	91.59	-----	-----	Average
2	2483.50	27.97	0.94	47.51	33.46	42.96	54.00	11.04	Average
3	2500.00	28.00	0.95	38.89	33.45	34.39	54.00	19.61	Average

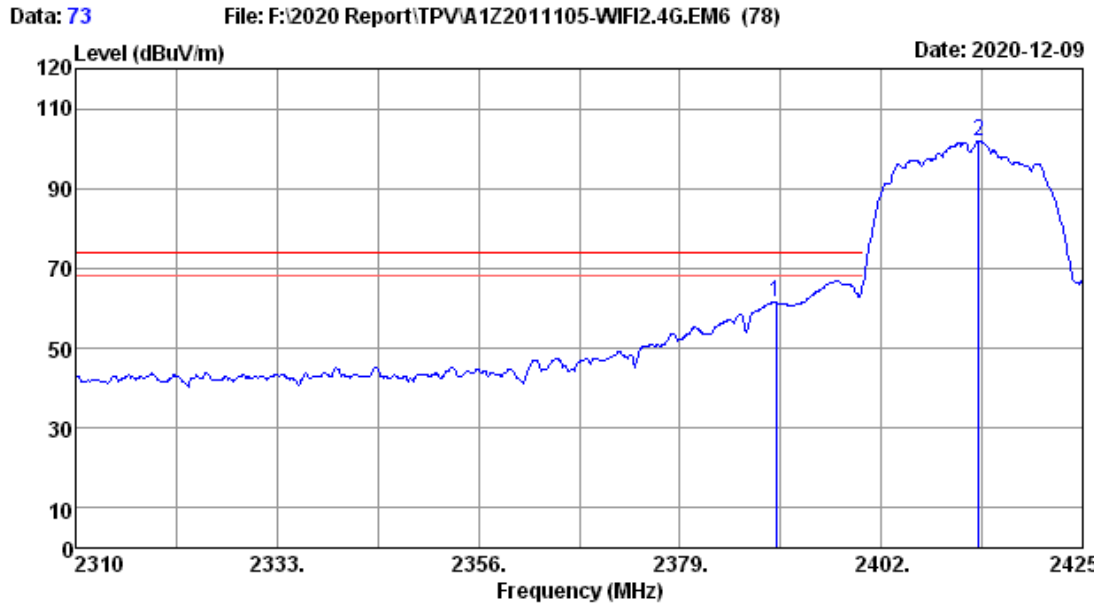
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	71.21	33.48	66.44	74.00	7.56	Peak
2	2413.62	27.83	0.92	110.66	33.48	105.93	-----	-----	Peak

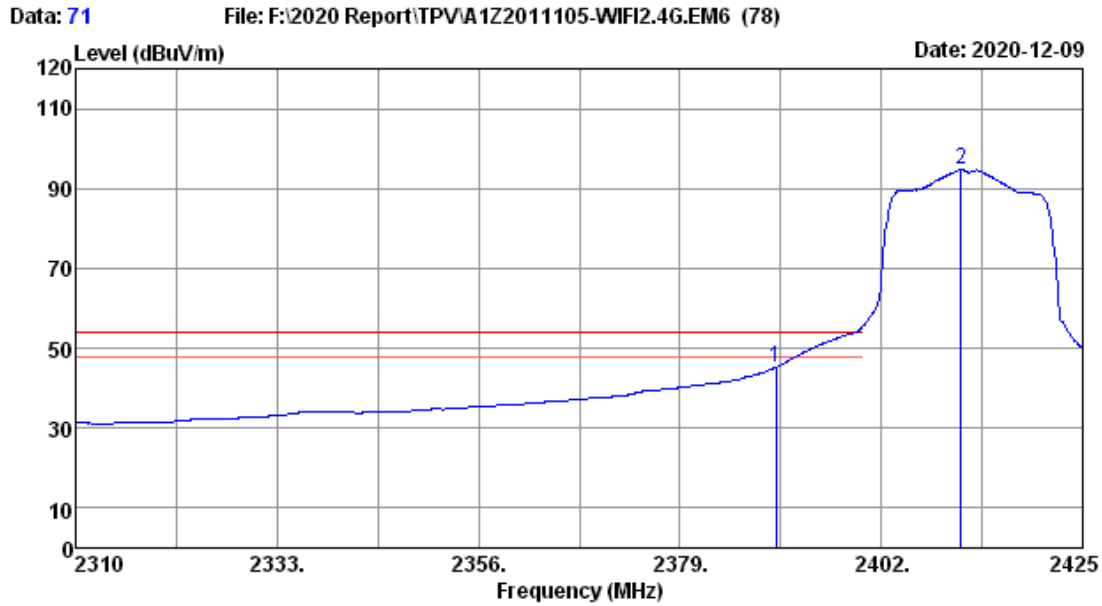
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	66.12	33.48	61.35	74.00	12.65	Peak
2	2413.16	27.83	0.92	106.57	33.48	101.84	-----	-----	Peak

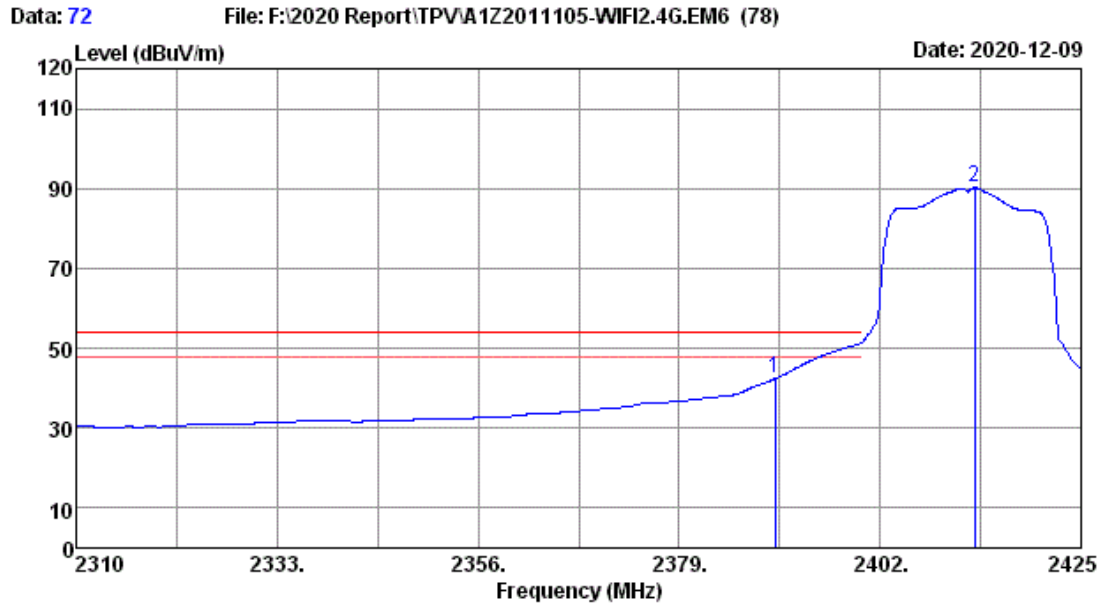
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	50.10	33.48	45.33	54.00	8.67	Average
2	2411.09	27.83	0.92	99.39	33.48	94.66	-----	-----	Average

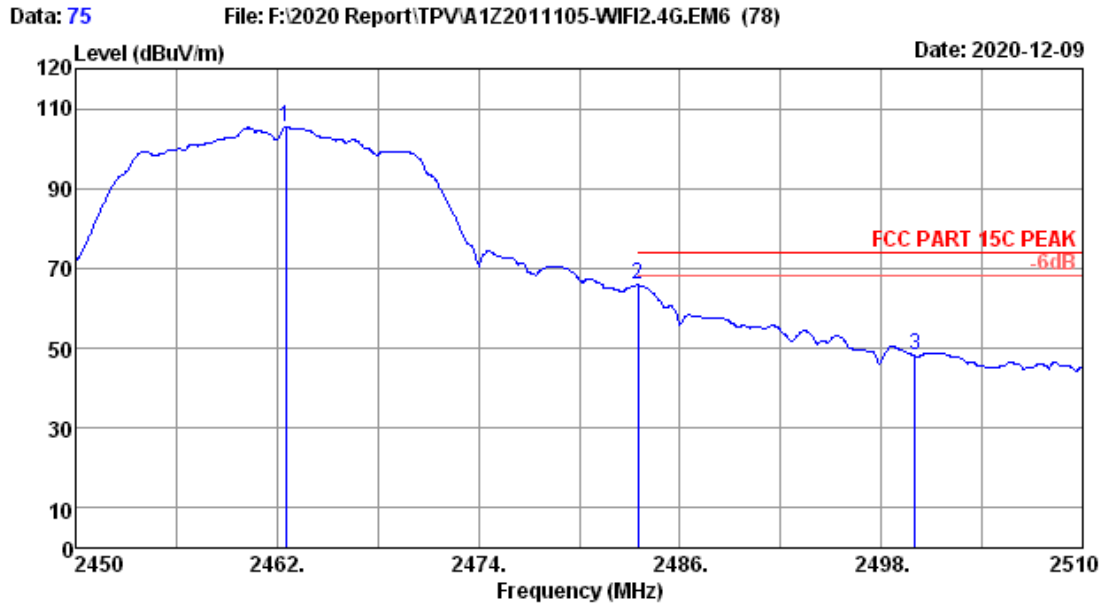
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2412MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.79	0.92	47.19	33.48	42.42	54.00	11.58	Average
2	2412.81	27.83	0.92	94.94	33.48	90.21	-----	-----	Average

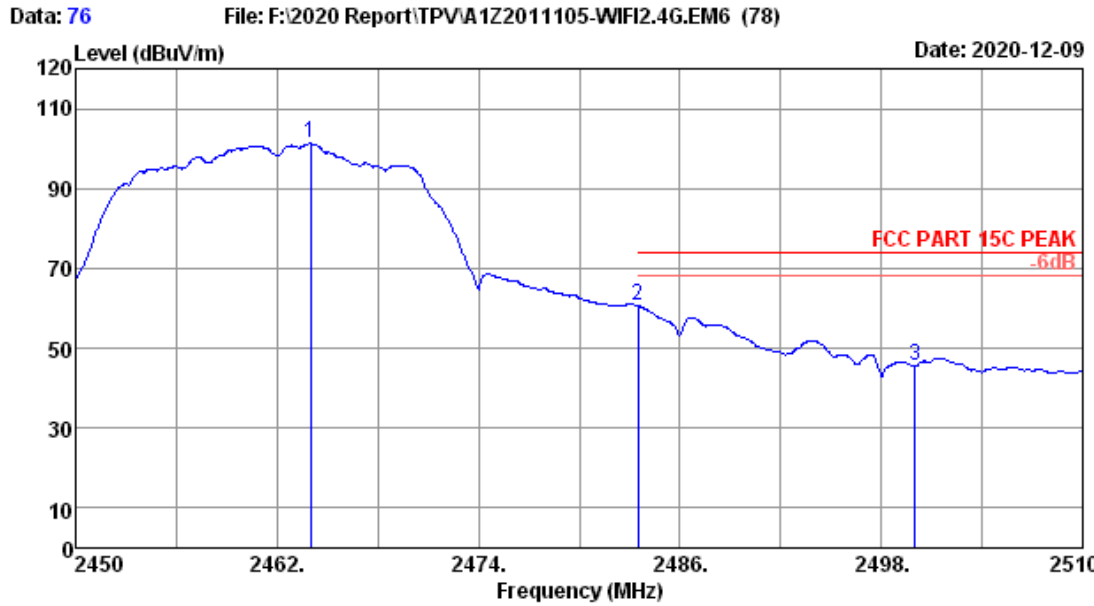
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.54	27.93	0.94	110.13	33.46	105.54	-----	-----	Peak
2	2483.50	27.97	0.94	70.33	33.46	65.78	74.00	8.22	Peak
3	2500.00	28.00	0.95	52.61	33.45	48.11	74.00	25.89	Peak

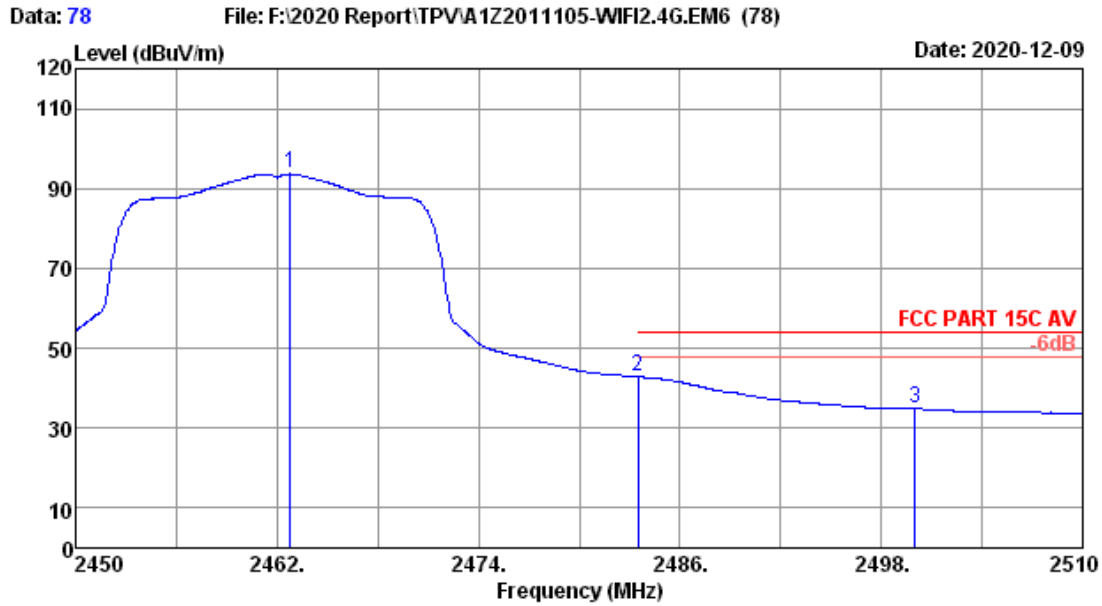
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.98	27.93	0.94	105.80	33.46	101.21	-----	-----	Peak
2	2483.50	27.97	0.94	65.24	33.46	60.69	74.00	13.31	Peak
3	2500.00	28.00	0.95	50.20	33.45	45.70	74.00	28.30	Peak

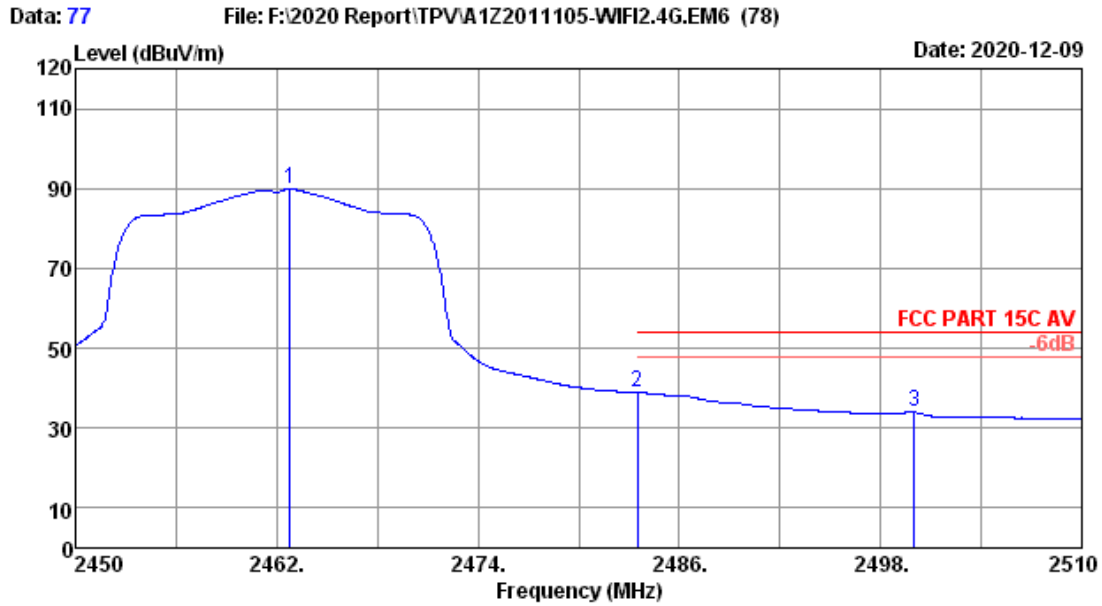
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.78	27.93	0.94	98.25	33.46	93.66	-----	-----	Average
2	2483.50	27.97	0.94	47.42	33.46	42.87	54.00	11.13	Average
3	2500.00	28.00	0.95	39.42	33.45	34.92	54.00	19.08	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 11nHT20 2462MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.78	27.93	0.94	94.41	33.46	89.82	-----	-----	Average
2	2483.50	27.97	0.94	43.44	33.46	38.89	54.00	15.11	Average
3	2500.00	28.00	0.95	38.46	33.45	33.96	54.00	20.04	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

7.2. Limit

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

7.3. Test Procedure

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

7.4. Test Results

EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date: 2020-12-04	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Allen	Test site: RF site	Temperature: 25.5±0.6 °C

Test Mode	CH	6dB bandwidth (MHz)	Limit (kHz)
11b	CH1	8.034	≥ 500
	CH6	8.031	≥ 500
	CH11	8.046	≥ 500
11g	CH1	15.19	≥ 500
	CH6	15.19	≥ 500
	CH11	15.17	≥ 500
11n HT20	CH1	15.18	≥ 500
	CH6	15.19	≥ 500
	CH11	15.17	≥ 500

Conclusion : PASS