

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Top Victory Electronics(Taiwan) Co., Ltd.

WiFi +BT module

Model No.: WCT5GM2511

FCC ID: ARS-WCT5GM2511

Prepared for : Top Victory Electronics(Taiwan) Co., Ltd.
10F No.230, Liancheng Rd., Zhonghe Dist., New Taipei City
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Date of Report : May.14,2020

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Appendix A. Photograph of Test

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TEST REPORT CERTIFICATION

Applicant : Top Victory Electronics(Taiwan) Co., Ltd.
Manufacturer : Top Victory Electronics(Taiwan) Co., Ltd.
Product : WiFi +BT module
FCC ID : ARS-WCT5GM2511
(A) Model No. : WCT5GM2511
(B) Serial No. : N/A
(C) Test Voltage : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:
FCC CFR47 Part 15 Subpart E

Test procedure used:
ANSI C63.10: 2013
KDB789033D01

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart E 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 : Mar.07~Apr.05,2020 Report of date: May.14,2020

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



信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin
David Jin / Deputy General Manager

Approved & Authorized Signer : David Jin
David Jin / Deputy General Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have 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 FCC Part 15: 15.407(b)(6)	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205 FCC Part 15.407(b)	PASS
Band Edge Compliance	FCC Part 15: 15.407(b) FCC Part 15.205	PASS
6dB&26 &99% Bandwidth Test	FCC Part 15: 15.407(e)	PASS
Output Power Test	FCC Part 15: 15.407(a)(5)	PASS
Equivalent Isotropic Radiated Power Test	FCC Part 15: 15.407(h)(1)	PASS
Power Spectral Density Test	FCC Part 15: 15.407(a)	PASS
Frequency Stability	FCC Part 15: 15.407(a)	PASS
Antenna requirement	FCC Part 15: 15.407(g)	PASS

N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	Top Victory Electronics(Taiwan) Co., Ltd.
Applicant Address	10F No.230, Liancheng Rd., Zhonghe Dist., New Taipei City 23553 Taiwan (R.O.C)
Manufacturer	Top Victory Electronics(Taiwan) Co., Ltd.
Manufacturer Address	10F No.230, Liancheng Rd., Zhonghe Dist., New Taipei City 23553 Taiwan (R.O.C)
Factory	TPV Electronics (Fujian) Co., Ltd.
Factory Address	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China.
Product	WiFi +BT module
Model No.	WCT5GM2511
FCC ID	ARS-WCT5GM2511
Sample Type	Prototype production
Date of Receipt	Jan.17,2020
Date of Test	Mar.07~Apr.05,2020
Remark: This report only for WIFI 5GHz.	

2.2.Feature of Equipment Under Test

Product Feature & Specification	
Product	WiFi +BT module
Model No.	WCT5GM2511
Radio	IEEE802.11 a/b/g/n/ac; Bluetooth V3.0+EDR; Bluetooth V4.0; Bluetooth V5.0
Power Source	<input type="checkbox"/> Commercial Power AC 100~240 V
	<input checked="" type="checkbox"/> External Power Source DC 5V
	<input type="checkbox"/> Li-ion Battery DC V
	<input type="checkbox"/> UM battery DC V
Bluetooth	
Bluetooth Version	V5.0 dual mode
Frequency Range	2402-2480MHz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Rate	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79/40
Channel Separation	1MHz/2MHz
2.4GHz Wi-Fi	
Support Modes	802.11b/g/n20/n40
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 300Mbps
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: up to 300Mbps; 802.11ac: up to 867Mbps
Channel Separation	5MHz

Antenna System	
Type of Antenna	PCB Antenna
Antenna Number	2 (ANT A and ANT B)
Operation Modes	Only MIMO mode supported
Antenna Peak Gain	Bluetooth Peak Gain: 1.72dBi DTS Band (2400-2483.5MHz) Peak Gain: ANTA: 2.08dBi; ANTB: 2.00dBi. U-NII-1 Band(5150-5250MHz) Peak Gain: ANTA: 3.06dBi; ANTB: 3.04dBi U-NII-3 Band (5725-5850MHz) Peak Gain: ANT A: 3.08dBi; ANT B: 3.10dBi.

2.3. Test Information

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	Low :CH36	5180
	6	Middle: CH40	5200
	6	High: CH48	5240
	6	Low :CH149	5745
	6	Middle: CH157	5785
	6	High: CH165	5825
IEEE 802.11nHT20	MCS0	Low :CH36	5180
	MCS0	Middle: CH40	5200
	MCS0	High: CH48	5240
	MCS0	Low :CH149	5745
	MCS0	Middle: CH157	5785
	MCS0	High: CH165	5825
IEEE 802.11nHT40	MCS0	Low :CH38	5190
	MCS0	High: CH46	5230
	MCS0	Low :CH151	5755
	MCS0	High: CH159	5795
IEEE 802.11acVHT20	MCS0	Low :CH36	5180
	MCS0	Middle: CH40	5200
	MCS0	High: CH48	5240
	MCS0	Low :CH149	5745
	MCS0	Middle: CH157	5785
	MCS0	High: CH165	5825
IEEE 802.11acVHT40	MCS0	Low :CH38	5190
	MCS0	High: CH46	5230
	MCS0	Low :CH151	5755
	MCS0	High: CH159	5795
IEEE 802.11acVHT80	MCS0	CH42	5210
	MCS0	CH155	5775

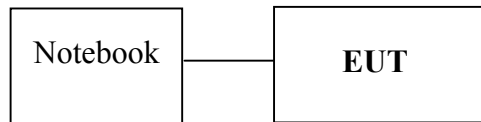
Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note: 2. This is MIMO 2*2 device for 5GHz band, test compliance with KDB 662911 D01, for 11a/n/ac mode, test with two antenna transmit simultaneously.

2.4. 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					

2.5. Block diagram of connection between the EUT and simulators



(EUT: WiFi +BT module)

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.

Certificated by Industry Canada
: Registration Number: IC 5183A-1
Valid Date: May.07, 2020

Certificated 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	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 (1GHz~26.5MHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1%
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.

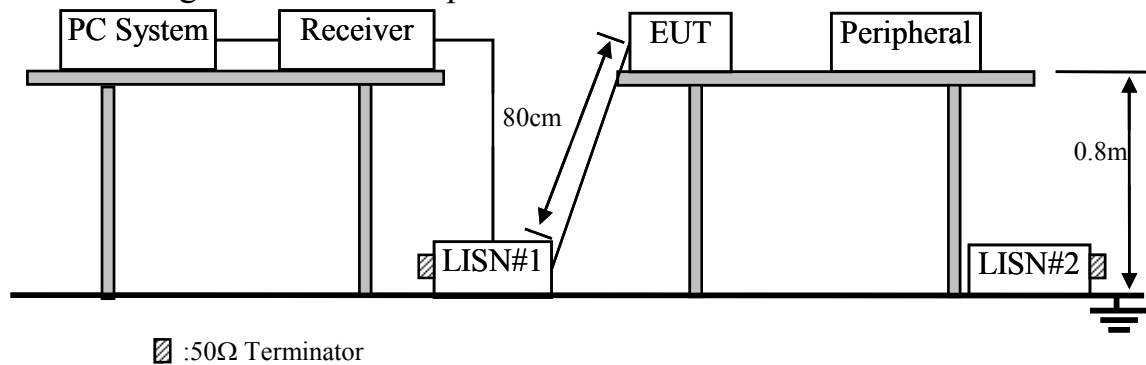
3. POWER LINE CONDUCTED EMISSION TEST

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.14,19	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.13,19	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	Apr.18,19	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.14,19	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.14,19	1 Year
7.	RF Cable	Fujikura	RG55/U	No.2	Apr.13,19	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.14,19	1 Year
9.	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. WiFi +BT module (EUT)

Model Number : WCT5GM2511

Serial Number : 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 and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipments.
- 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.

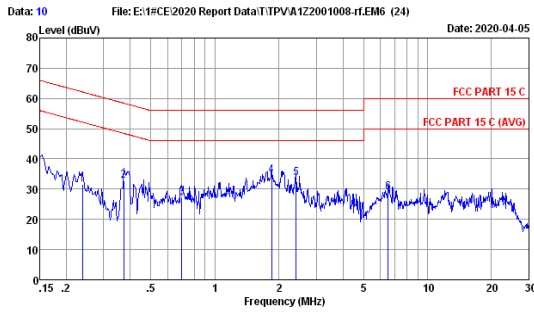
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

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.)

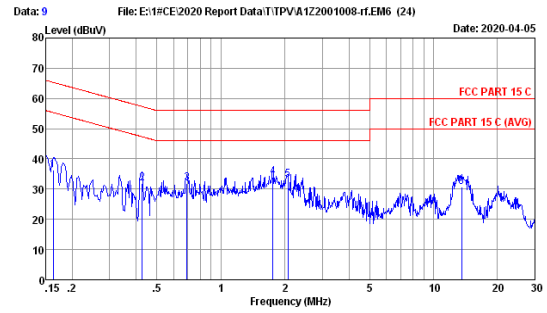
U-NII-1 Band:



Site no :1# Conduction Data No :10
 Dis./Lien :2019 ENV216 L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :21.7°C/46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :WIFI 5G Tx

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.238	9.60	0.03	22.08	31.71	62.17	30.46	QP
2	0.373	9.60	0.02	23.16	32.79	58.43	25.64	QP
3	0.697	9.60	0.02	17.58	27.20	56.00	28.80	QP
4	1.848	9.60	0.04	24.82	34.46	56.00	21.54	QP
5	2.409	9.60	0.04	23.95	33.59	56.00	22.41	QP
6	6.523	9.68	0.08	19.09	28.85	60.00	31.15	QP

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.

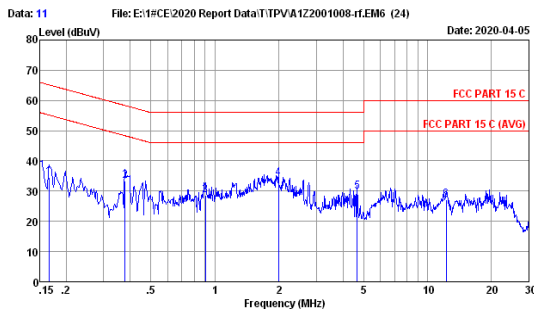


Site no :1# Conduction Data No :9
 Dis./Lien :2019 ENV216 N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :21.7°C/46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :WIFI 5G Tx

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.162	9.60	0.03	26.80	36.43	65.34	28.91	QP
2	0.426	9.60	0.02	22.18	31.80	57.33	25.53	QP
3	0.694	9.60	0.02	22.35	31.97	56.00	24.03	QP
4	1.753	9.60	0.04	24.40	34.04	56.00	21.96	QP
5	2.066	9.60	0.04	23.33	32.97	56.00	23.03	QP
6	13.551	9.60	0.12	21.04	30.76	60.00	29.24	QP

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.

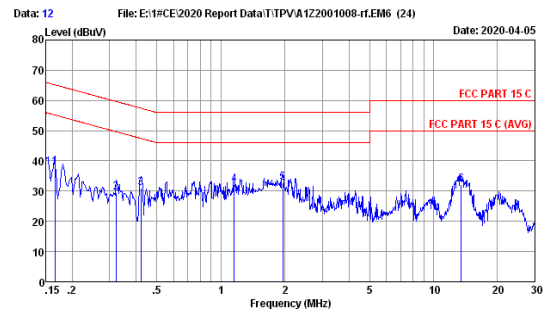
U-NII-3 Band:



Site no :1# Conduction Data No :11
 Dis./Lien :2019 ENV216 L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :21.7°C/46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :WIFI 5G Tx

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.166	9.60	0.03	24.90	34.53	65.16	30.63	QP
2	0.377	9.60	0.02	23.62	33.24	58.34	25.10	QP
3	0.904	9.60	0.03	19.14	28.77	56.00	27.23	QP
4	1.991	9.60	0.04	24.71	34.35	56.00	21.65	QP
5	4.672	9.62	0.07	20.25	29.94	56.00	26.06	QP
6	12.253	9.70	0.11	17.40	27.21	60.00	32.79	QP

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 :12
 Dis./Lien :2019 ENV216 N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :21.7°C/46% Engineer :Evan
 EUT :
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :WIFI 5G Tx

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.166	9.60	0.03	28.06	37.69	65.16	27.47	QP
2	0.322	9.60	0.03	20.00	29.63	59.66	30.03	QP
3	0.421	9.60	0.02	21.28	30.90	57.42	26.52	QP
4	1.153	9.60	0.03	22.67	32.30	56.00	23.70	QP
5	1.959	9.60	0.04	23.19	32.83	56.00	23.17	QP
6	13.479	9.60	0.12	22.43	32.15	60.00	27.85	QP

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 30 MHz ~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.10,19	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.14,19	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.14,19	1 Year
5.	Amplifier	HP	8447D	2648A04738	Apr.14,19	1 Year
6.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	493	Jul.24,19	1 Year
7.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.13,19	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.14,19	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

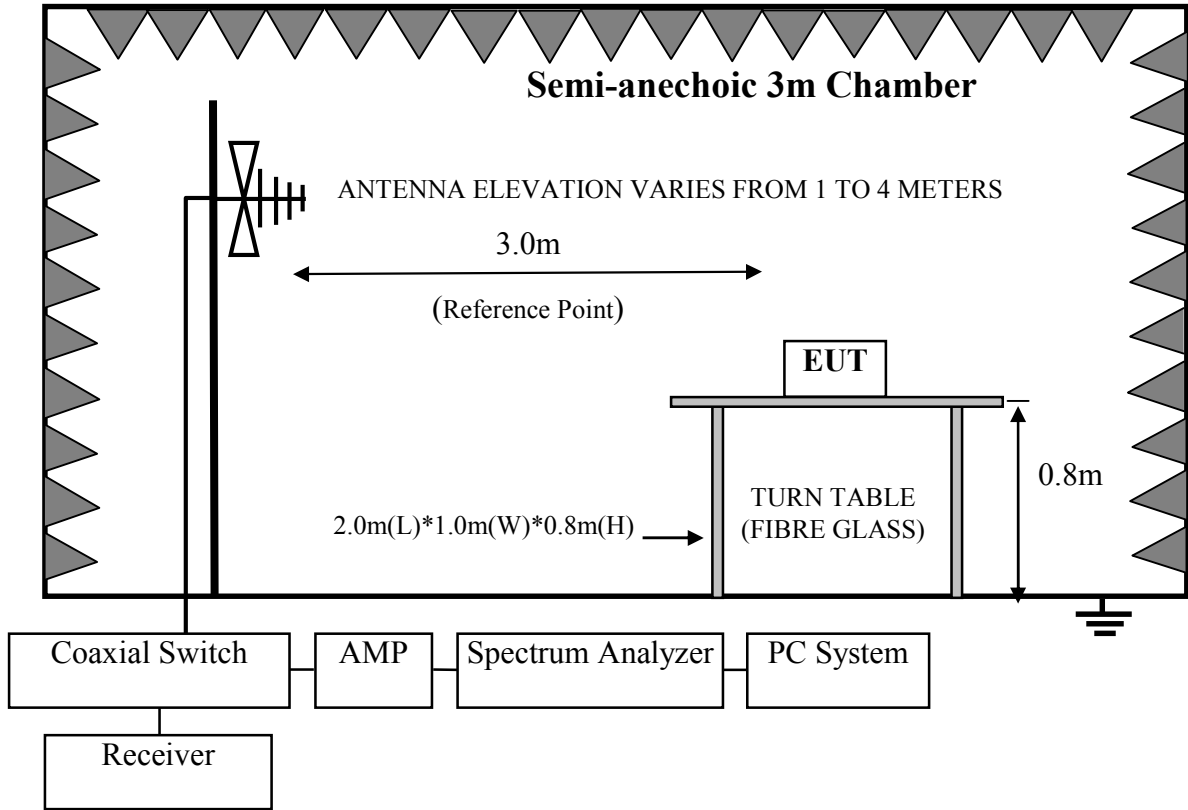
4.1.2. For frequency range 1GHz~40GHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(Svswr)	AUDIX	N/A	N/A	Apr.18,19	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.14,19	1 Year
4.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jun.17,19	1 Year
5.	Horn Antenna	ETS	3116	00060089	Dec.02,19	1 Year
6.	Amplifier	Agilent	83017A	MY53270084	Oct.13,19	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.13,19	1 Year
8.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

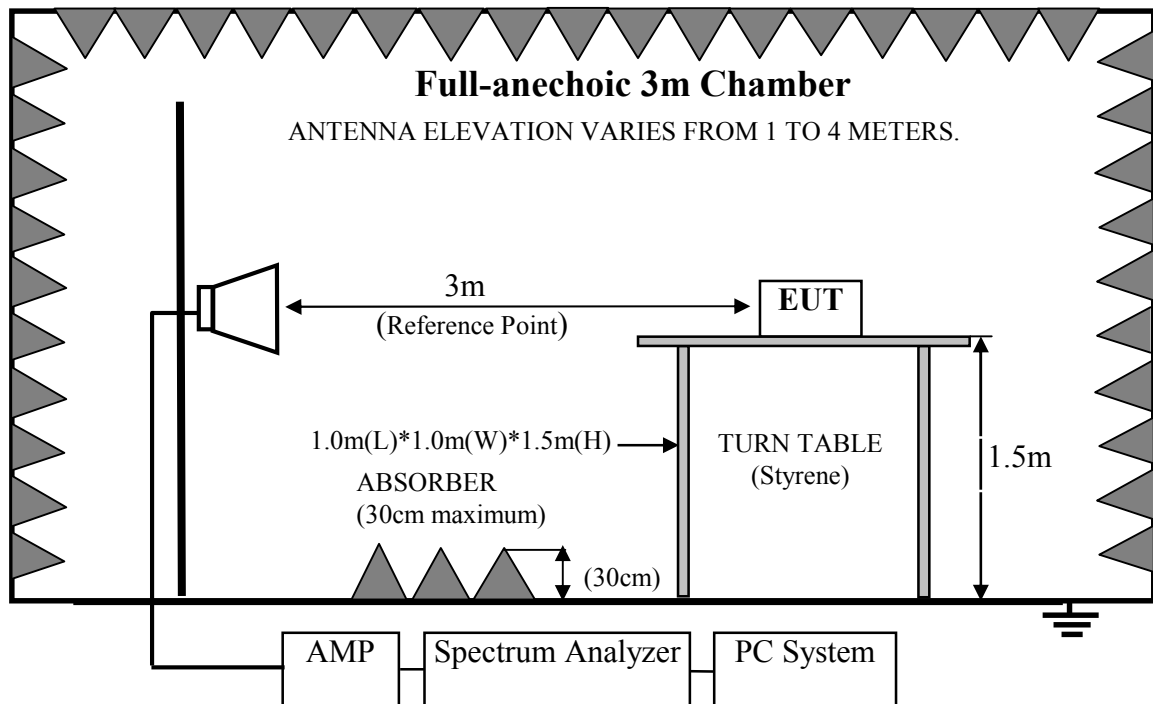
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.3. Radiated Emission Limit

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209.

4.3.1.15.209 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)	

Remarks : (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)

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.WiFi +BT module (EUT)

Model No. : WCT5GM2511

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 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 is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

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.

Maximum Peak emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW \geq 3 MHz.
- (c) Detector = Peak.
- (d) Sweep time = auto.
- (e) Trace mode = max hold.
- (f) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

Maximum Average emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW \geq 3 MHz.
- (c) Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.
- (d) Averaging type = power averaging (rms)
As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
- (e) Sweep time = auto.
- (f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)
- (g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.
 - If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.
 - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

- (1). The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (2). The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (4). Repeated step 4 with both antenna polarizations
- (5). The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).
- (6). Per KDB789033 clause H 2)d. if the test distance is 3m, the $EIRP(dBm) = E(dBuV/m) - 95.2$
Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

4.7. Radiated Emission Test Results

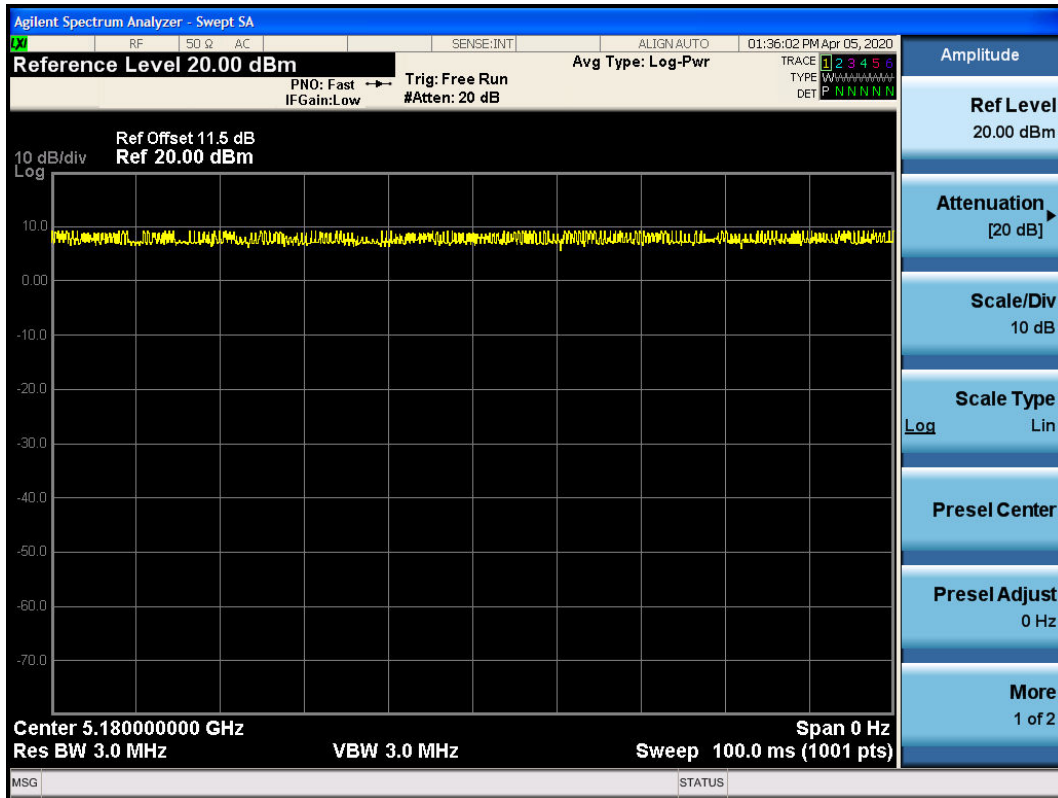
PASS.

All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.

All other emission comply with 15.407 (b)(1) requirements.

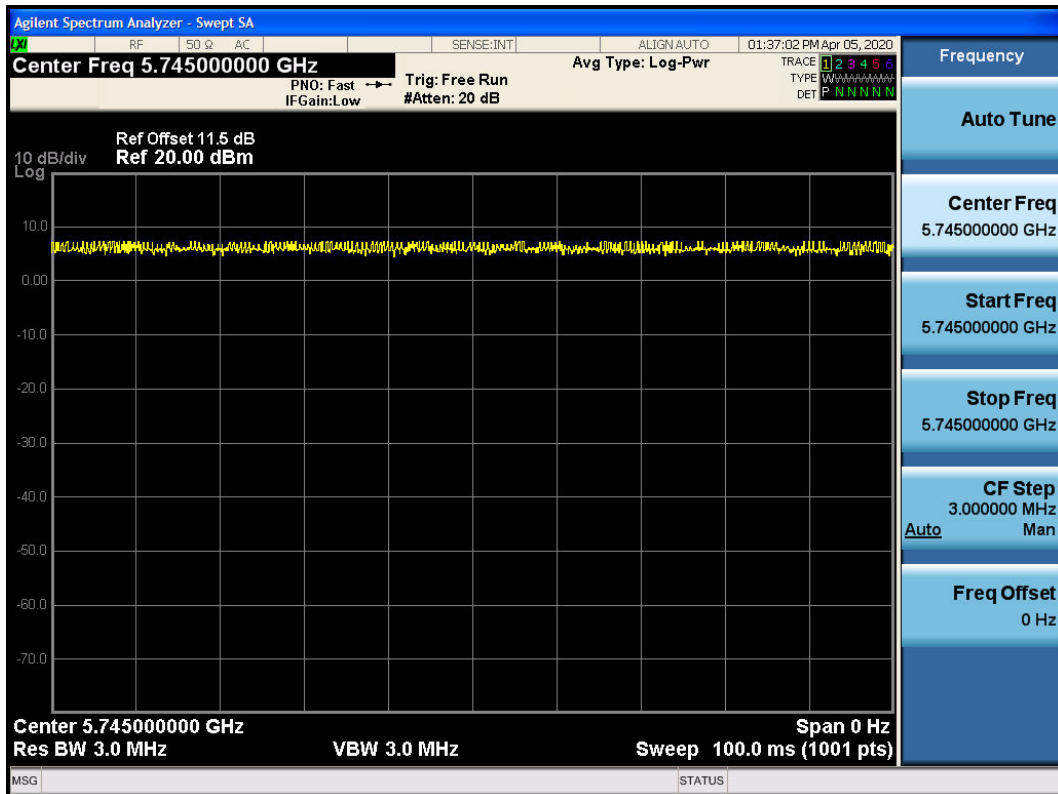
Note: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Duty cycle
U-NII-1 Band:



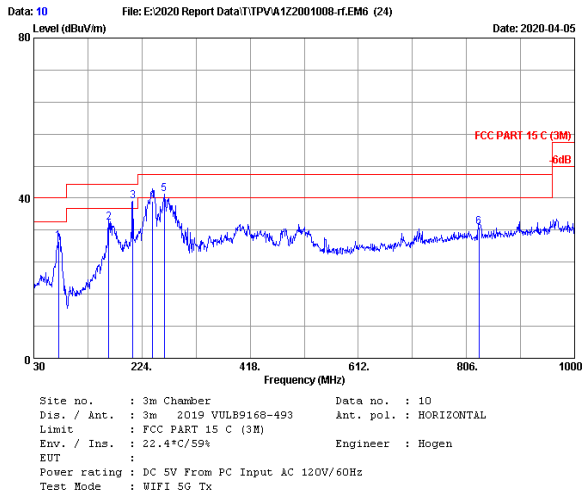
Note: The duty cycle of the test signal is 100%.

U-NII-3 Band:



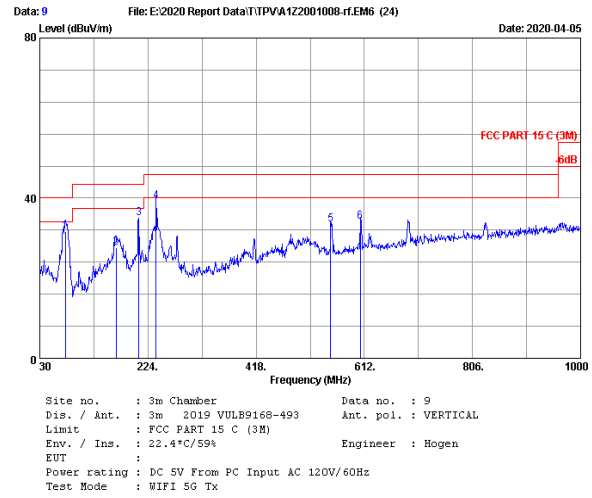
Note: The duty cycle of the test signal is 100%.

Frequency: 30MHz~1GHz U-NII-1 Band:



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	74.620	16.60	0.82	11.77	29.19	40.00	10.81	QP
2	164.830	19.50	1.29	13.00	33.79	43.50	9.71	QP
3	207.510	17.00	1.47	20.59	39.16	43.50	4.34	QP
4	243.400	18.03	1.60	19.62	39.25	46.00	6.75	QP
5	263.770	18.60	1.68	20.78	41.06	46.00	4.94	QP
6	828.310	28.66	3.23	0.92	32.81	46.00	13.19	QP

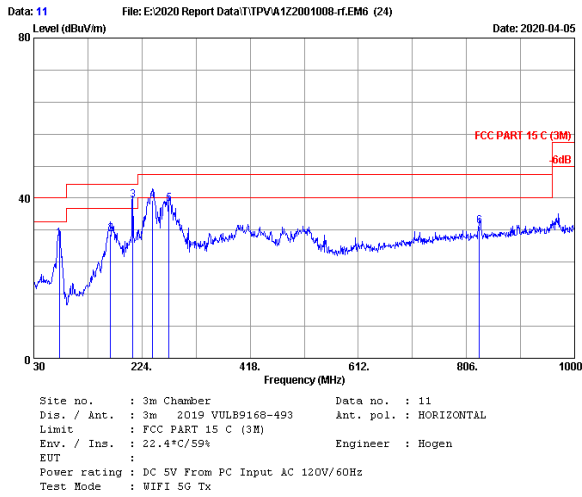
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.590	16.20	0.83	14.60	31.63	40.00	8.37	QP
2	166.770	19.30	1.30	6.96	27.56	43.50	15.94	QP
3	207.510	17.00	1.47	16.59	35.06	43.50	8.44	QP
4	238.550	17.90	1.58	19.79	39.27	46.00	6.73	QP
5	551.860	25.00	2.50	5.82	33.32	46.00	12.68	QP
6	605.210	25.80	2.67	5.73	34.20	46.00	11.80	QP

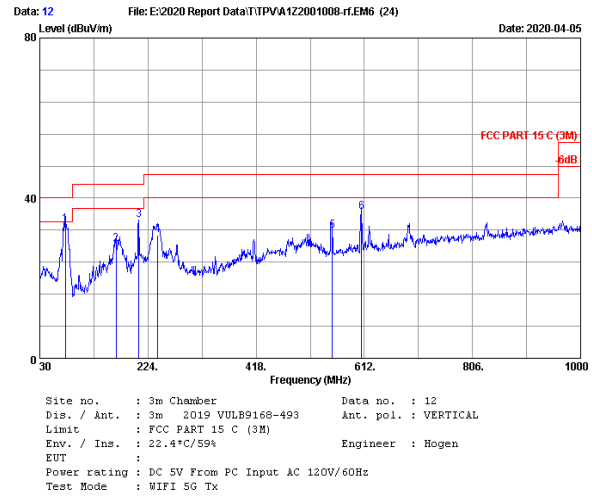
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

U-NII-3 Band:



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.590	16.20	0.83	12.93	29.96	40.00	10.04	QP
2	167.740	19.30	1.30	10.47	31.07	43.50	12.43	QP
3	207.510	17.00	1.47	21.06	39.53	43.50	3.97	QP
4	243.400	18.03	1.60	19.73	39.36	46.00	6.64	QP
5	272.500	19.10	1.71	17.80	38.61	46.00	7.39	QP
6	829.280	28.68	3.23	1.11	33.02	46.00	12.98	QP

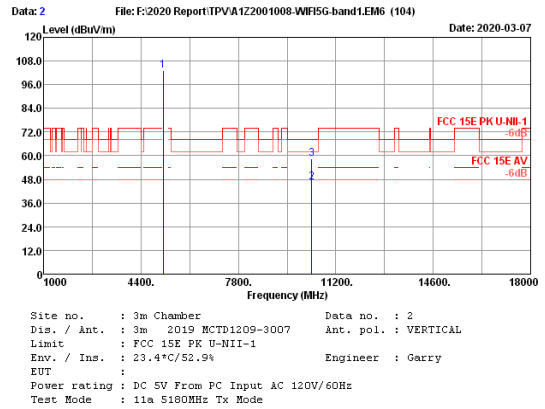
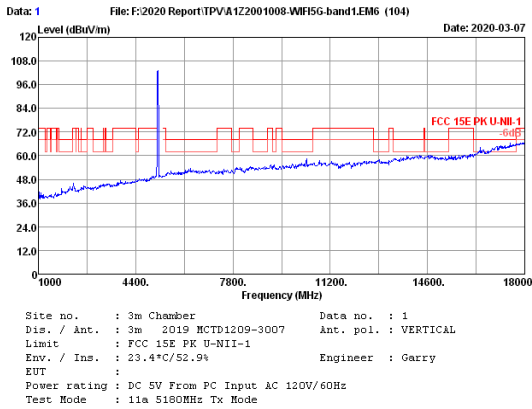
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	75.590	16.20	0.83	16.36	33.59	40.00	6.61	QP
2	166.770	19.30	1.30	9.00	28.60	43.50	14.90	QP
3	207.510	17.00	1.47	15.99	34.46	43.50	9.04	QP
4	241.460	17.97	1.59	11.14	30.70	46.00	15.30	QP
5	554.770	25.00	2.51	4.25	31.76	46.00	14.24	QP
6	607.150	25.88	2.67	8.04	36.59	46.00	9.41	QP

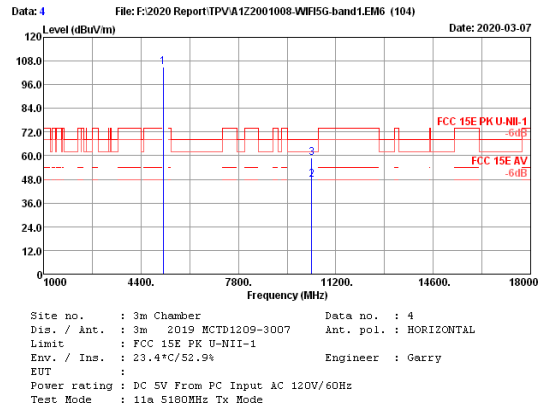
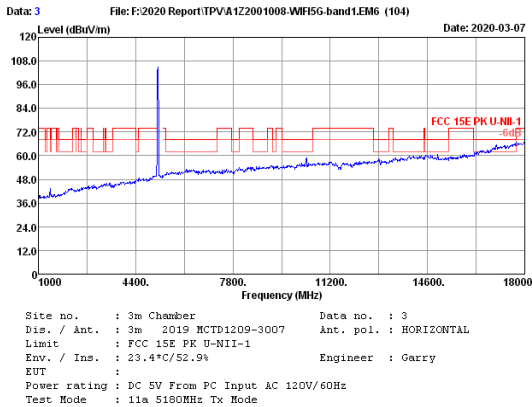
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz U-NII-1 Band:



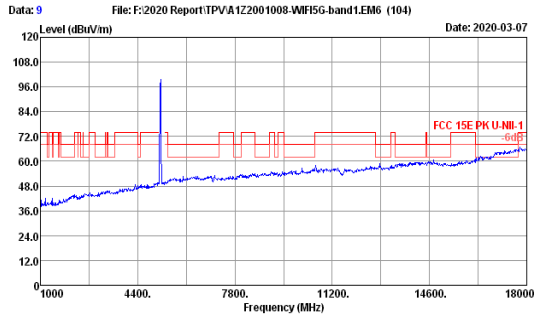
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	99.85	103.18	-----	-----	Peak
	210360.00	38.30	5.99	34.65	36.73	46.37	-----	-----	Average
	310360.00	38.30	5.99	34.65	48.77	58.41	68.20	9.79	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.

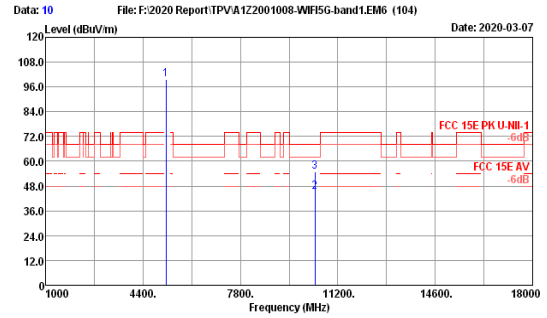


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	101.47	104.80	-----	-----	Peak
	210360.00	38.30	5.99	34.65	38.19	47.83	-----	-----	Average
	310360.00	38.30	5.99	34.65	49.39	59.03	68.20	9.17	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.



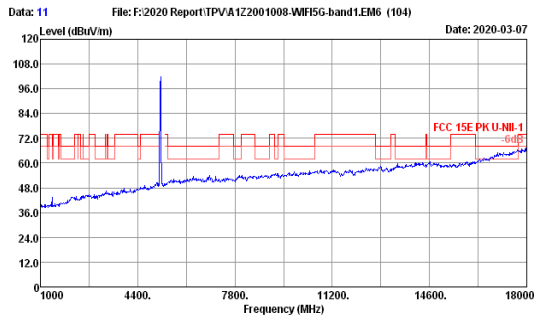
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5200MHz Tx Mode



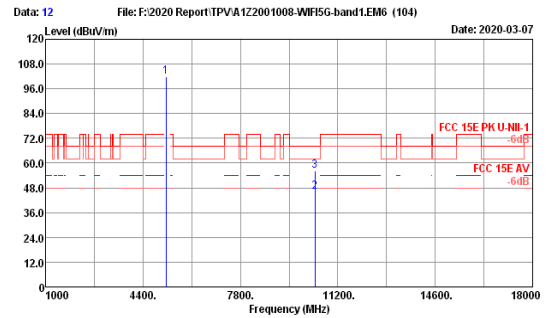
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	96.31	99.66	68.20	13.42	Peak
2	210400.00	38.30	6.00	34.64	35.56	45.22	68.20	13.42	Average
3	310400.00	38.30	6.00	34.64	45.12	54.78	68.20	13.42	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.



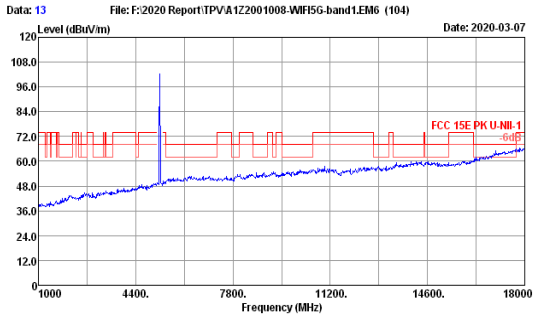
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 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5200MHz Tx Mode



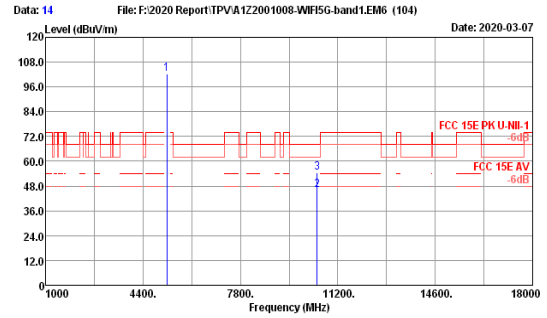
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	98.71	102.06	68.20	12.15	Peak
2	210400.00	38.30	6.00	34.64	36.58	46.24	68.20	12.15	Average
3	310400.00	38.30	6.00	34.64	46.39	56.05	68.20	12.15	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.



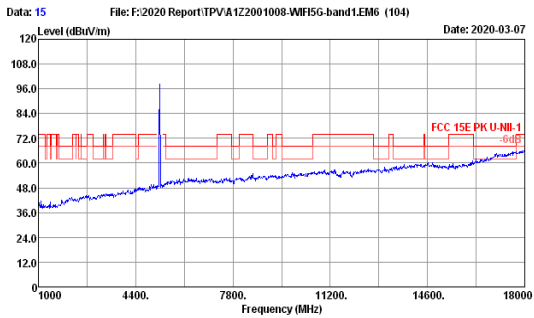
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode



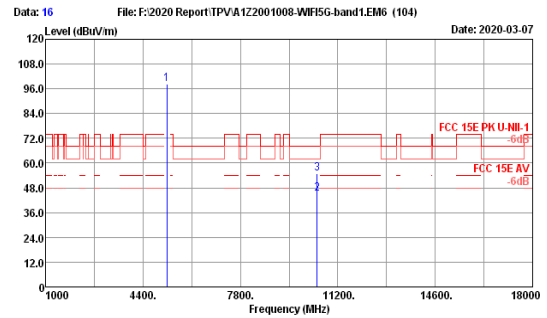
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	98.82	102.23	68.20	13.73	Peak
2	210480.00	38.38	6.03	34.60	36.25	46.06	68.20	13.73	Average
3	310480.00	38.38	6.03	34.60	44.66	54.47	68.20	13.73	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.



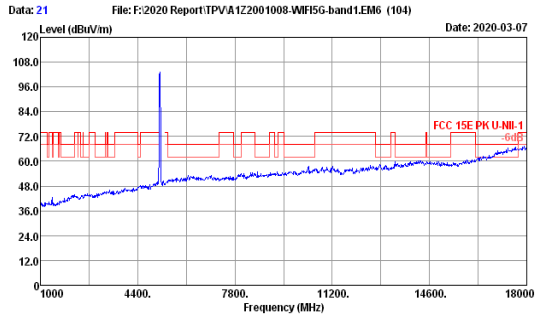
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode



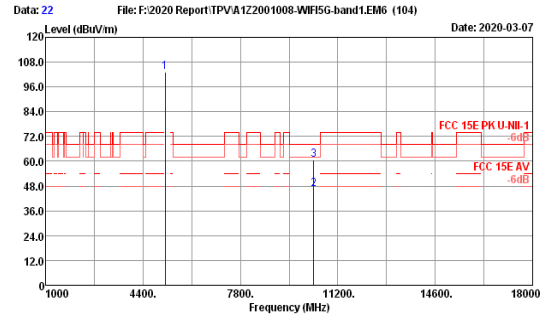
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	95.07	98.48	68.20	13.13	Peak
2	210480.00	38.38	6.03	34.60	35.22	45.03	68.20	13.13	Average
3	310480.00	38.38	6.03	34.60	45.26	55.07	68.20	13.13	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.



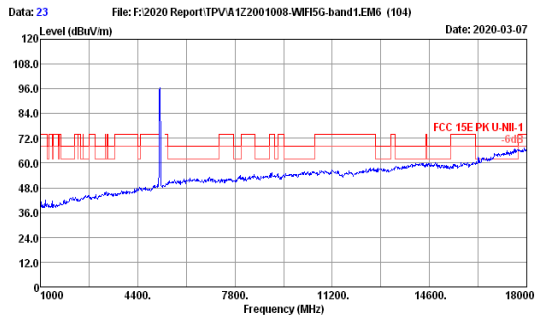
Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode



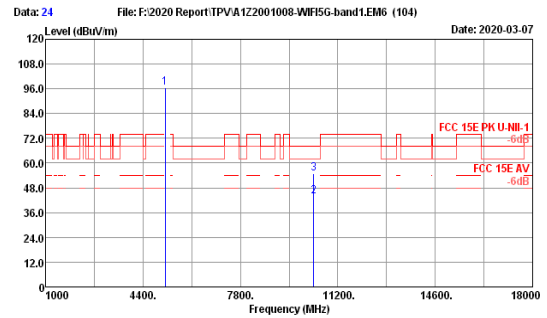
Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	99.70	103.03	-----	-----	Peak
2	210360.00	38.30	5.99	34.65	36.66	46.30	-----	-----	Average
3	310360.00	38.30	5.99	34.65	51.05	60.69	68.20	7.51	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.



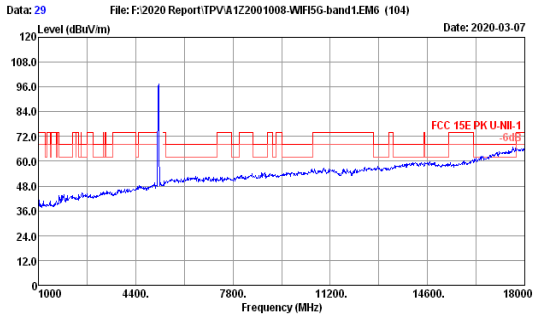
Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode



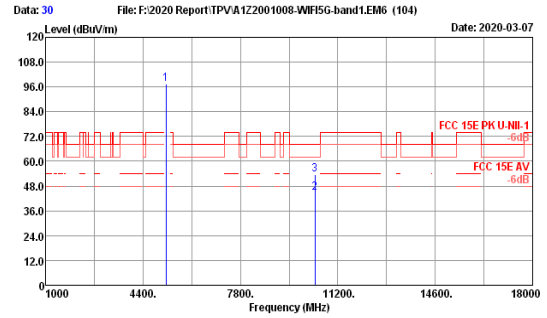
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	93.40	96.73	-----	-----	Peak
2	210360.00	38.30	5.99	34.65	34.17	43.81	-----	-----	Average
3	310360.00	38.30	5.99	34.65	45.21	54.85	68.20	13.35	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.



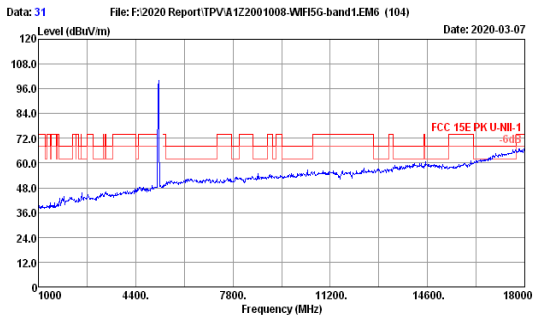
Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5200MHz Tx Mode



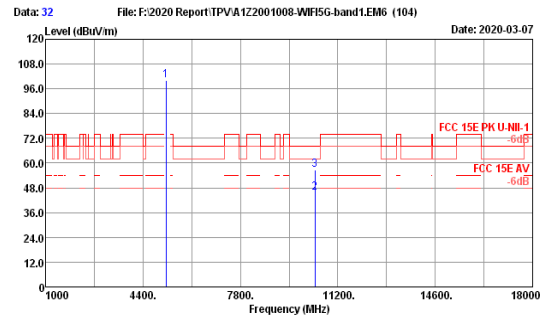
Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	94.02	97.37	68.20	14.57	Peak
	210400.00	38.30	6.00	34.64	35.22	44.88	68.20		Average
	310400.00	38.30	6.00	34.64	43.97	53.63	68.20		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.



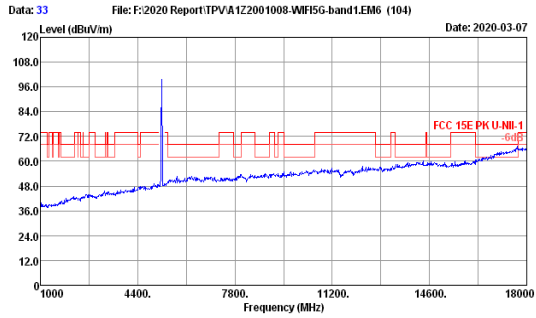
Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5200MHz Tx Mode



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5200MHz Tx Mode

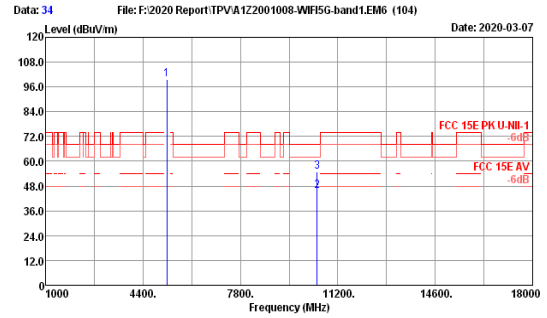
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	96.62	99.97	68.20	11.44	Peak
	210400.00	38.30	6.00	34.64	35.83	45.49	68.20		Average
	310400.00	38.30	6.00	34.64	47.10	56.76	68.20		Peak

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.



File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

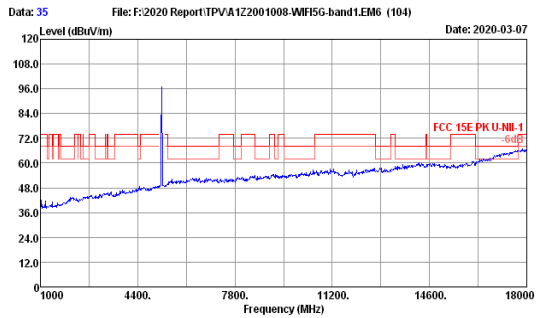


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

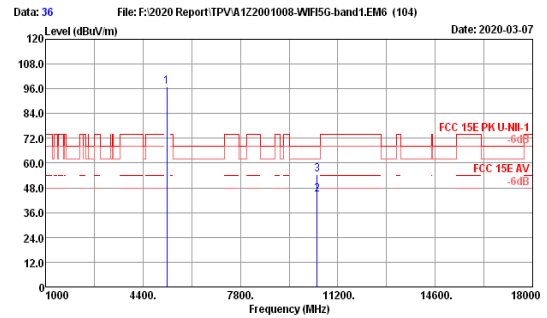
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	96.31	99.72	68.20	13.42	Peak
	210480.00	38.38	6.03	34.60	35.69	45.50	68.20	13.42	Average
	310480.00	38.38	6.03	34.60	44.97	54.78	68.20	13.42	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.



File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode



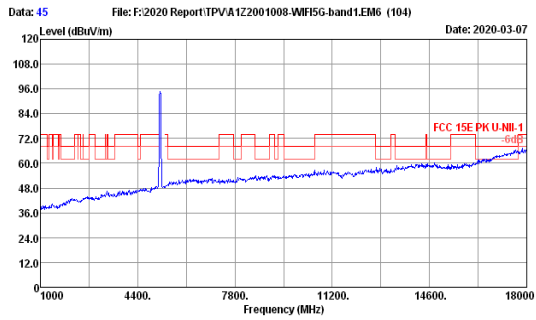
File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

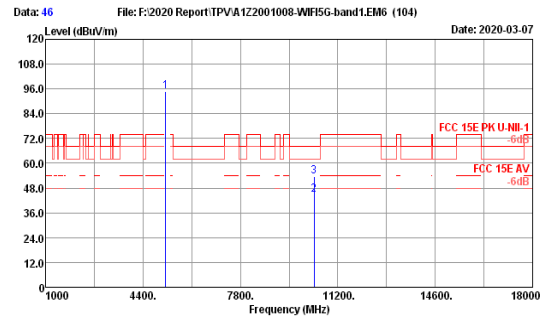
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	93.70	97.11	68.20	13.57	Peak
	210480.00	38.38	6.03	34.60	35.03	44.84	68.20	13.57	Average
	310480.00	38.38	6.03	34.60	44.82	54.63	68.20	13.57	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.

FCC ID: ARS-WCT5GM2511



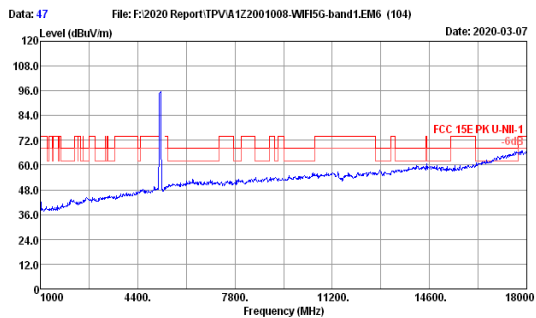
Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode



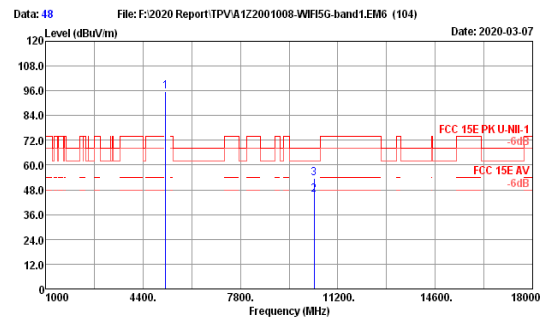
Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp Loss factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.28	4.41	34.36	91.58	94.91	-----	-----	Peak
	210380.00	38.30	5.99	34.64	34.86	44.51	-----	-----	Average
	310380.00	38.30	5.99	34.64	43.99	53.64	68.20	14.56	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. : 47
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

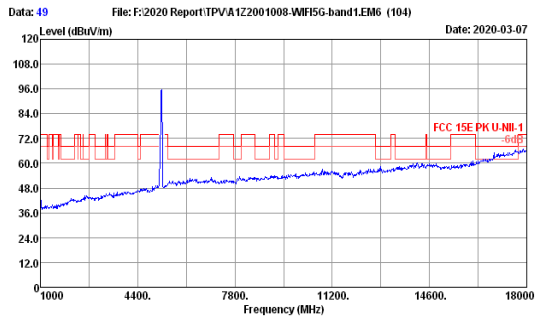


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

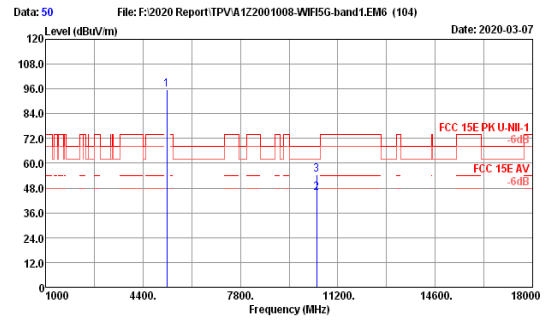
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp Loss factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.28	4.41	34.36	92.12	95.45	-----	-----	Peak
	210380.00	38.30	5.99	34.64	36.11	45.76	-----	-----	Average
	310380.00	38.30	5.99	34.64	44.02	53.67	68.20	14.53	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.

FCC ID: ARS-WCT5GM2511



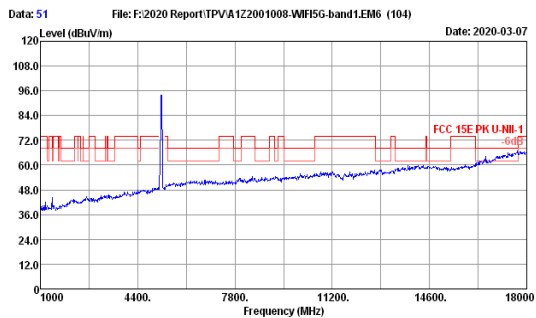
Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode



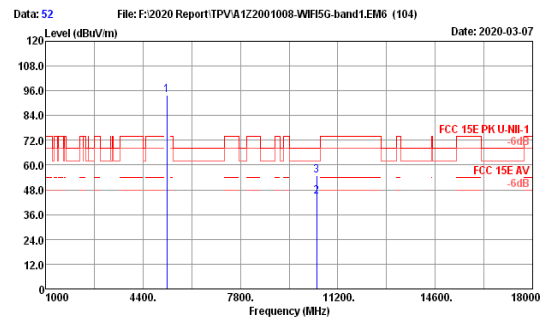
Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.33	4.43	34.35	92.16	95.57	68.20	13.54	Peak
	210460.00	38.35	6.02	34.62	35.86	45.61	68.20	13.54	Average
	310460.00	38.35	6.02	34.62	44.91	54.66	68.20	13.54	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.



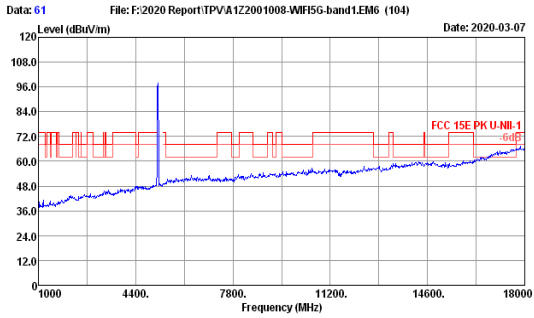
Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode



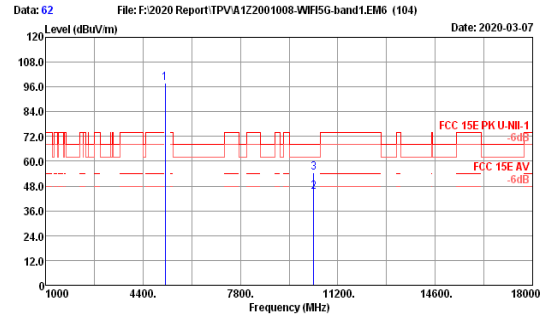
Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.33	4.43	34.35	90.48	93.89	68.20	13.23	Peak
	210460.00	38.35	6.02	34.62	35.02	44.77	68.20	13.23	Average
	310460.00	38.35	6.02	34.62	45.22	54.97	68.20	13.23	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.



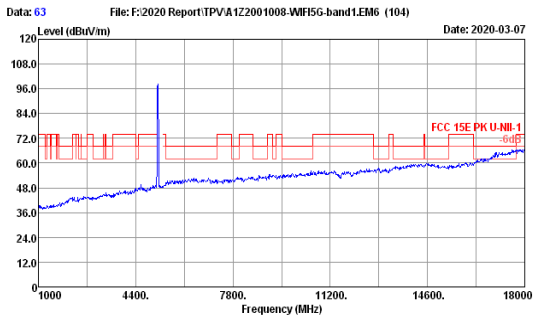
File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode



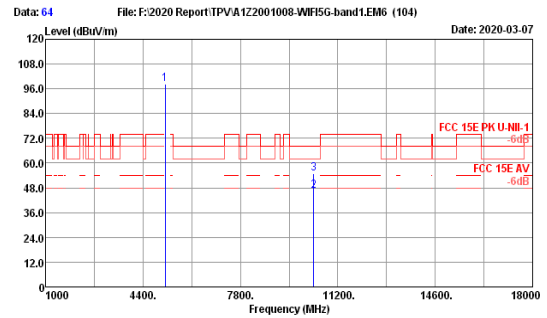
File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	94.52	97.85	-----	-----	Peak
	210360.00	38.30	5.99	34.65	35.73	45.37	-----	-----	Average
	310360.00	38.30	5.99	34.65	44.78	54.42	68.20	13.78	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.



File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

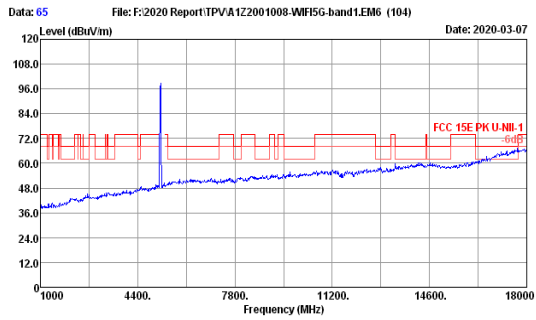


File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

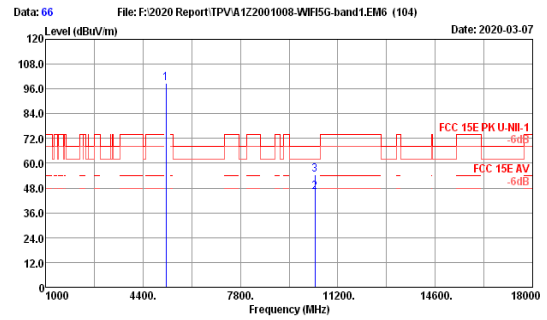
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.28	4.41	34.36	95.07	98.40	-----	-----	Peak
	210360.00	38.30	5.99	34.65	36.88	46.52	-----	-----	Average
	310360.00	38.30	5.99	34.65	45.27	54.91	68.20	13.29	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.

FCC ID: ARS-WCT5GM2511



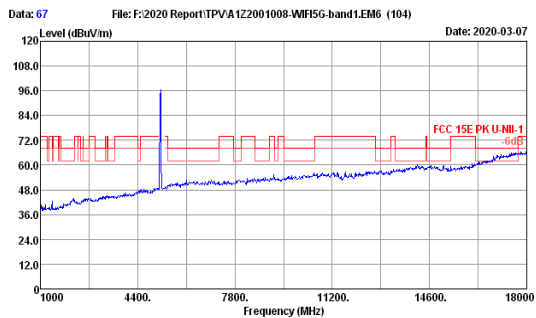
Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5200MHz Tx Mode



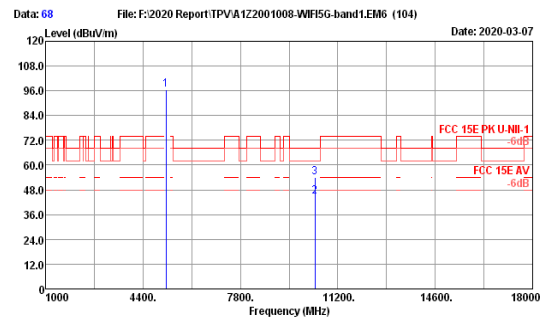
Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	95.47	95.82	68.20	27.62	Peak
2	210400.00	38.30	6.00	34.64	36.18	45.84	68.20	-22.36	Average
3	310400.00	38.30	6.00	34.64	44.89	54.55	68.20	-13.65	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. : 67
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5200MHz Tx Mode

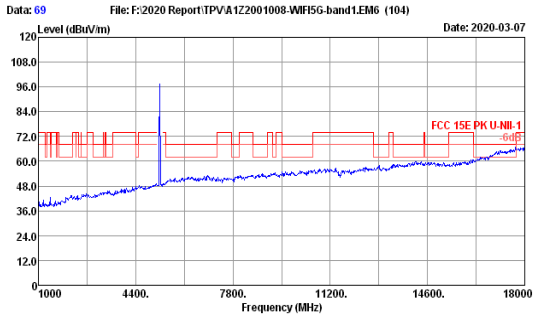


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5200MHz Tx Mode

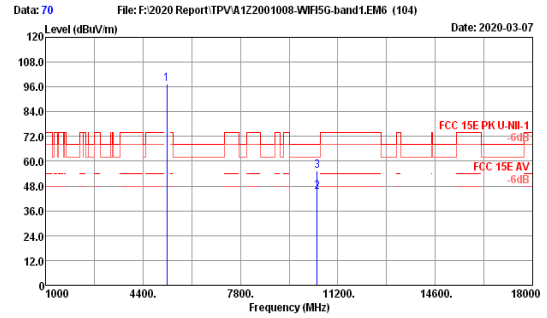
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.30	4.41	34.36	93.25	96.60	68.20	28.40	Peak
2	210400.00	38.30	6.00	34.64	35.06	44.72	68.20	-23.48	Average
3	310400.00	38.30	6.00	34.64	44.49	54.15	68.20	-14.05	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.

FCC ID: ARS-WCT5GM2511



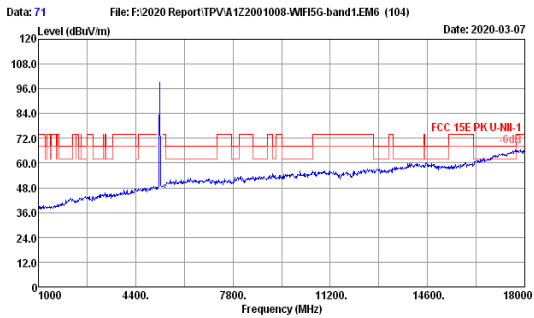
File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode



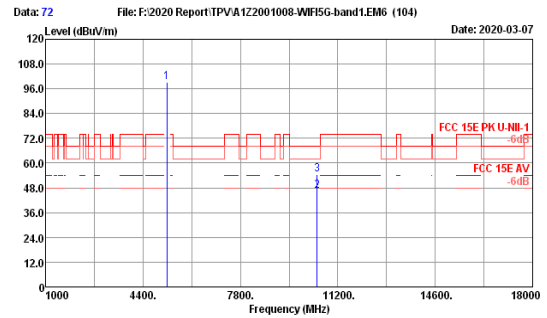
File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	93.91	97.32	68.20	12.81	Peak
	210480.00	38.38	6.03	34.60	35.45	45.26	68.20	13.84	Average
	310480.00	38.38	6.03	34.60	45.58	55.39	68.20	13.84	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.



File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

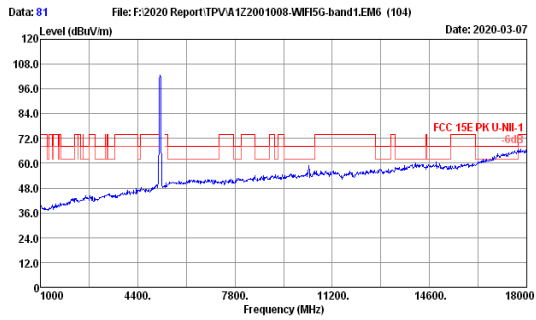


File: F:\2020 Report\TPVA\122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07
 Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

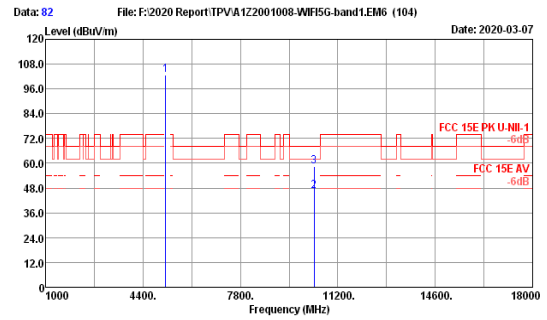
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.33	4.43	34.35	95.68	99.09	68.20	13.84	Peak
	210480.00	38.38	6.03	34.60	36.55	46.36	68.20	13.84	Average
	310480.00	38.38	6.03	34.60	44.55	54.36	68.20	13.84	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.

FCC ID: ARS-WCT5GM2511



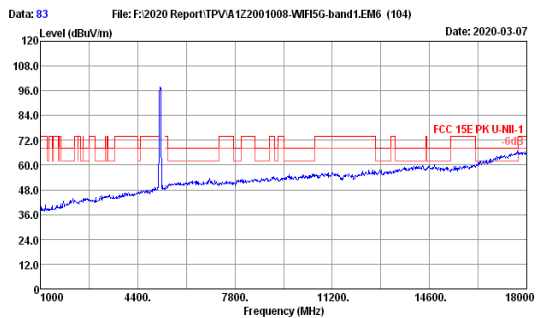
Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode



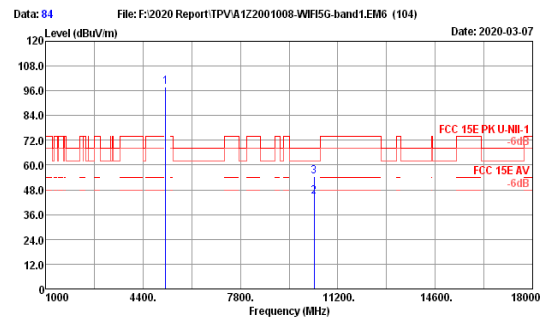
Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.28	4.41	34.36	99.21	102.54	72.00	-----	Peak
2	210380.00	38.30	5.99	34.64	36.68	46.33	72.00	-----	Average
3	310380.00	38.30	5.99	34.64	48.63	58.28	68.20	9.92	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. : 83
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

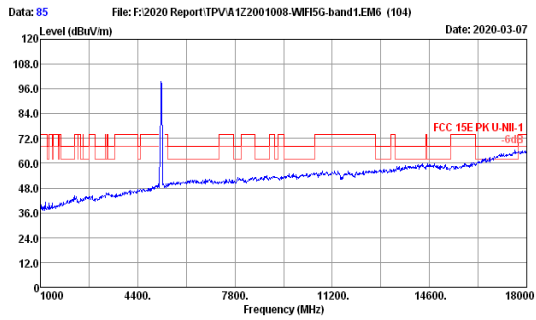


Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

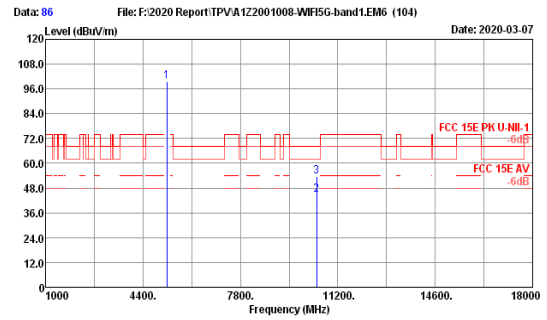
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.28	4.41	34.36	94.46	97.79	72.00	-----	Peak
2	210380.00	38.30	5.99	34.64	35.18	44.83	72.00	-----	Average
3	310380.00	38.30	5.99	34.64	44.98	54.63	68.20	13.57	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.

FCC ID: ARS-WCT5GM2511



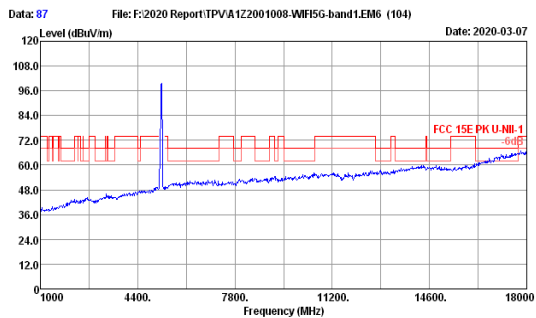
Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode



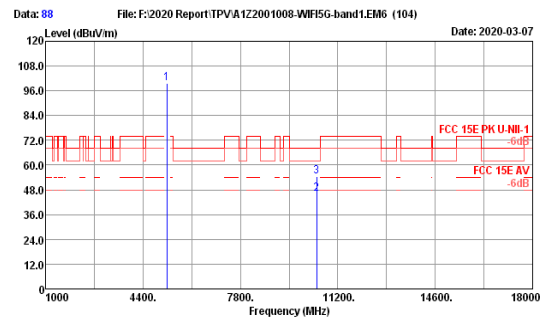
Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.33	4.43	34.35	96.38	99.79	68.20	14.68	Peak
	210460.00	38.35	6.02	34.62	35.02	44.77	68.20	14.68	Average
	310460.00	38.35	6.02	34.62	43.77	53.52	68.20	14.68	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. : 87
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

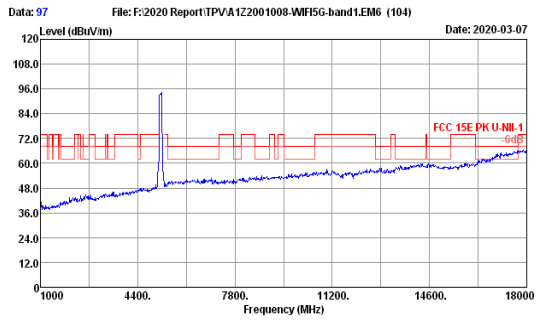


Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

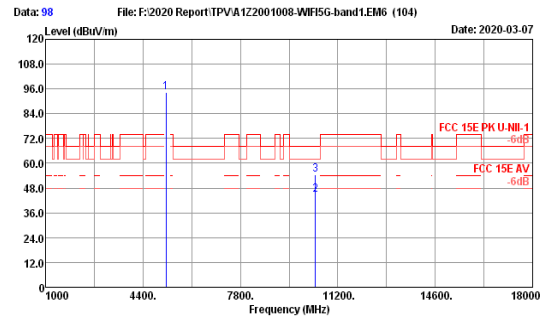
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.33	4.43	34.35	96.34	99.75	68.20	13.56	Peak
	210460.00	38.35	6.02	34.62	36.12	45.87	68.20	13.56	Average
	310460.00	38.35	6.02	34.62	44.89	54.64	68.20	13.56	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.

FCC ID: ARS-WCT5GM2511



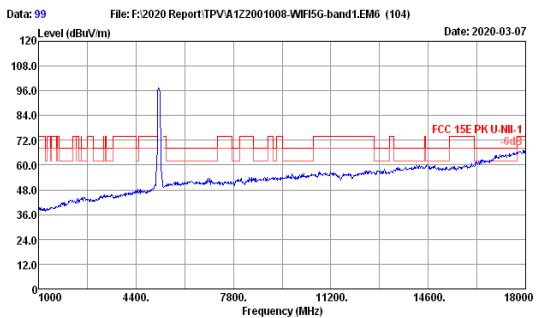
Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode



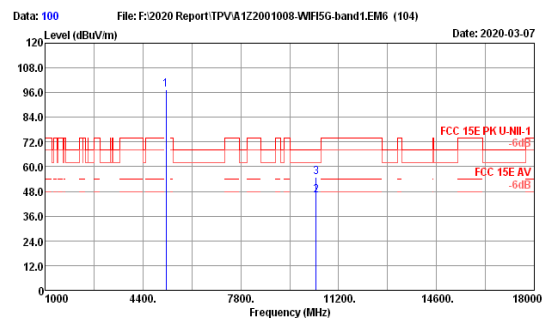
Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5210.00	33.32	4.42	34.36	90.91	94.29	-----	-----	Peak
	210420.00	38.32	6.01	34.63	34.87	44.57	-----	-----	Average
	310420.00	38.32	6.01	34.63	44.65	54.35	68.20	13.85	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 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

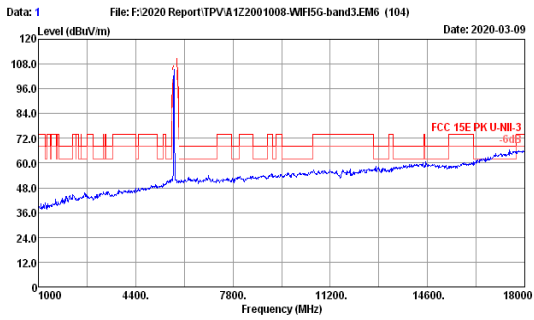


Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

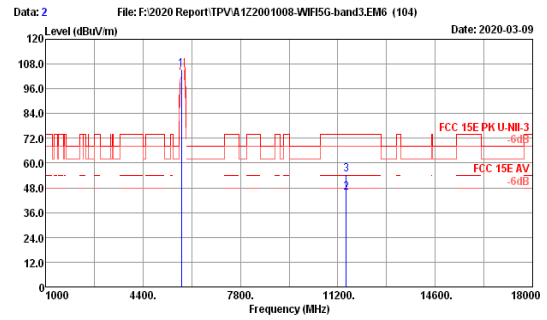
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss factor (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5210.00	33.32	4.42	34.36	93.96	97.34	-----	-----	Peak
	210420.00	38.32	6.01	34.63	36.54	46.24	-----	-----	Average
	310420.00	38.32	6.01	34.63	45.16	54.86	68.20	13.34	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.

U-NII-3 Band:



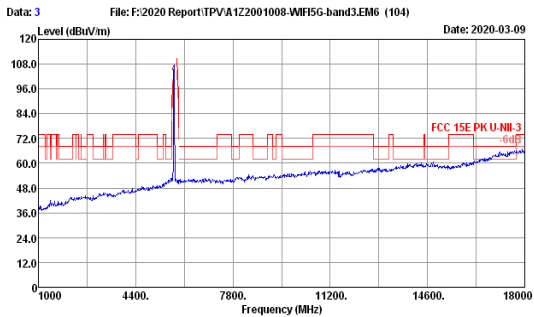
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode



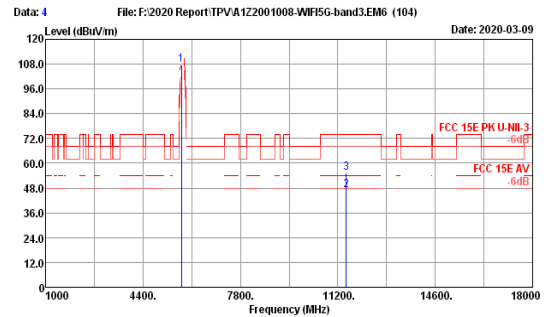
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	100.06	105.47	74.00	8.44	Peak
	211490.00	38.32	6.29	34.40	35.35	45.56	54.00	8.44	Average
	311490.00	38.32	6.29	34.40	44.28	54.49	74.00	19.51	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. : 3
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

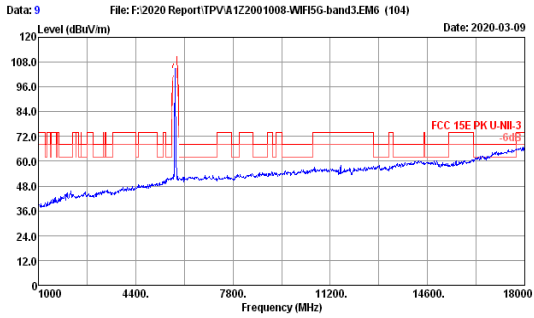


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

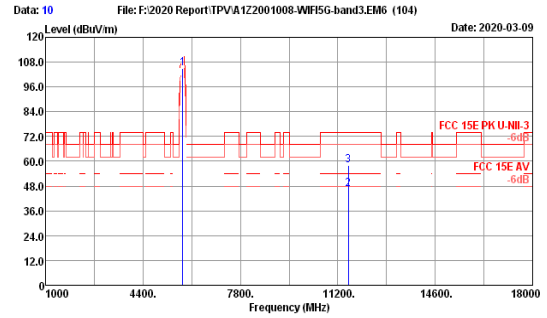
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	102.06	107.47	74.00	6.98	Peak
	211490.00	38.32	6.29	34.40	36.81	47.02	54.00	6.98	Average
	311490.00	38.32	6.29	34.40	45.31	55.52	74.00	18.48	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.

FCC ID: ARS-WCT5GM2511



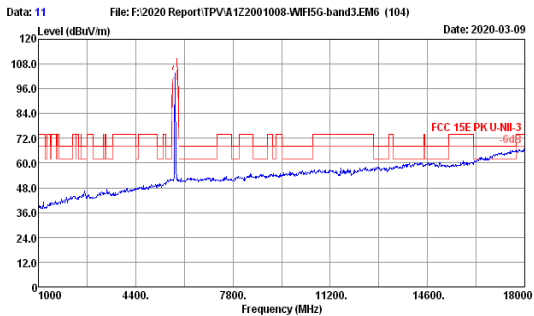
File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-09
 Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5785MHz Tx Mode



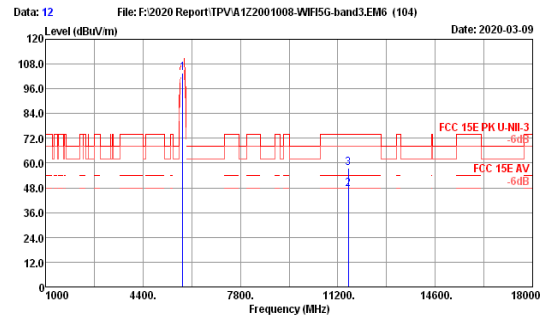
File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-09
 Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5785MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	99.39	104.79	74.00	-----	Peak
	211570.00	38.30	6.31	34.40	36.12	46.33	54.00	7.67	Average
	311570.00	38.30	6.31	34.40	47.89	58.10	74.00	15.90	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.



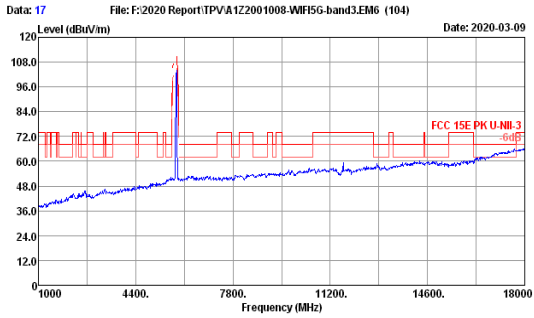
File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-09
 Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5785MHz Tx Mode



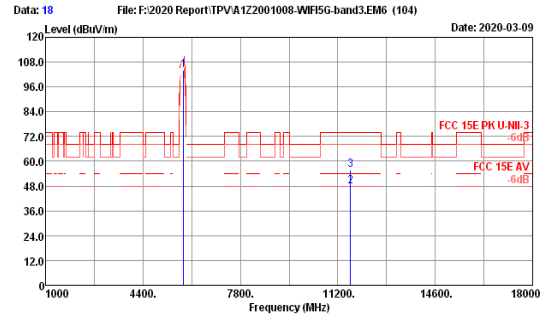
File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-09
 Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5785MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	98.08	103.48	74.00	-----	Peak
	211570.00	38.30	6.31	34.40	37.25	47.46	54.00	6.54	Average
	311570.00	38.30	6.31	34.40	47.31	57.52	74.00	16.48	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.



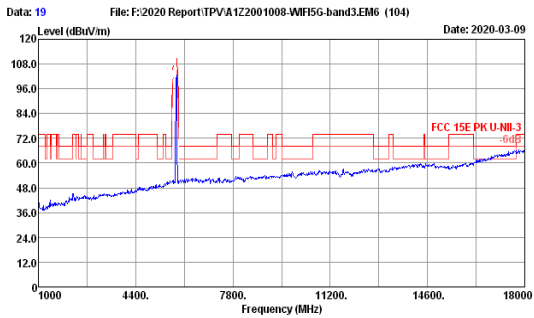
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode



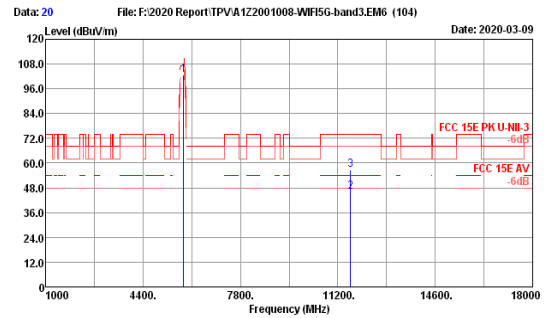
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	98.55	103.86	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	37.62	47.84	54.00	6.16	Average
3	311650.00	38.30	6.32	34.40	45.41	55.63	74.00	18.37	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.



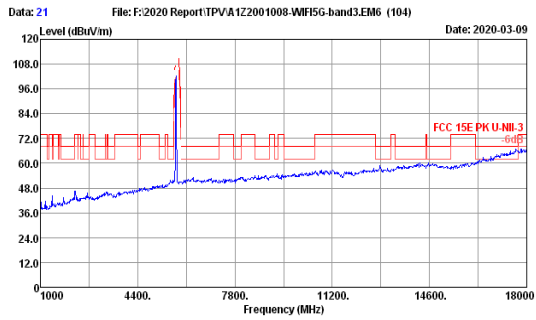
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode



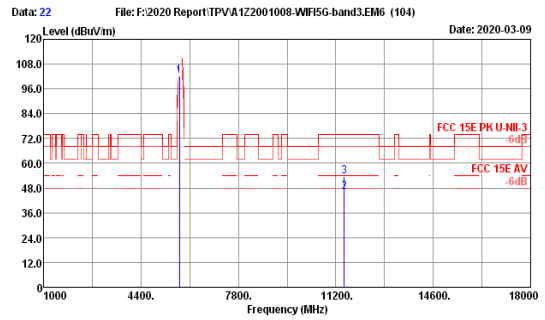
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	97.26	102.57	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	36.02	46.24	54.00	7.76	Average
3	311650.00	38.30	6.32	34.40	46.41	56.63	74.00	17.37	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.



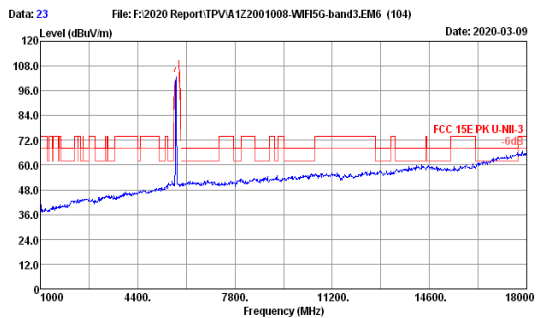
Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode



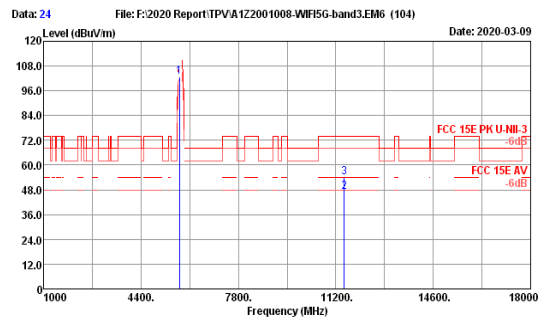
Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	96.71	102.12	-----	-----	Peak
2	211490.00	38.32	6.29	34.40	35.65	45.86	54.00	8.14	Average
3	311490.00	38.32	6.29	34.40	43.39	53.60	74.00	20.40	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 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

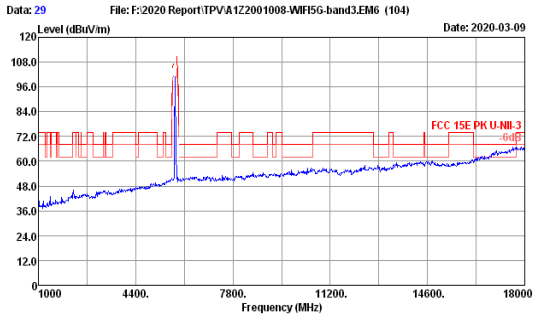


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

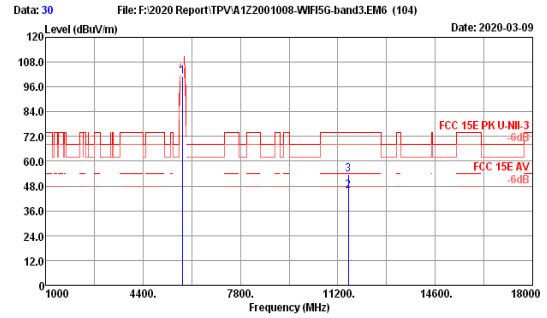
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	97.13	102.54	-----	-----	Peak
2	211490.00	38.32	6.29	34.40	36.65	46.86	54.00	7.14	Average
3	311490.00	38.32	6.29	34.40	43.99	54.20	74.00	19.80	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.

FCC ID: ARS-WCT5GM2511



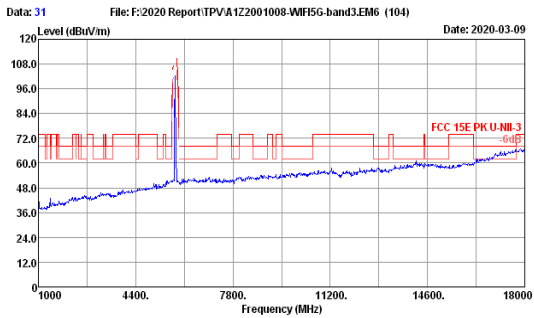
Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5785MHz Tx Mode



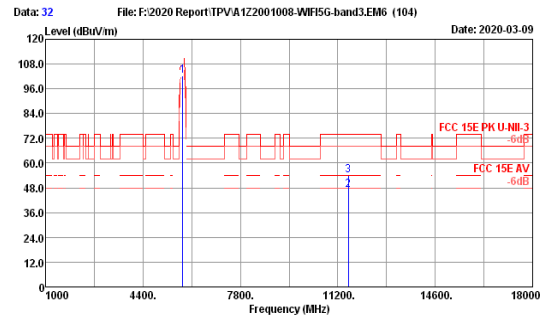
Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5785MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	95.60	101.00	-----	-----	Peak
	211570.00	38.30	6.31	34.40	35.26	45.47	54.00	8.53	Average
	311570.00	38.30	6.31	34.40	43.48	53.69	74.00	20.31	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 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5785MHz Tx Mode

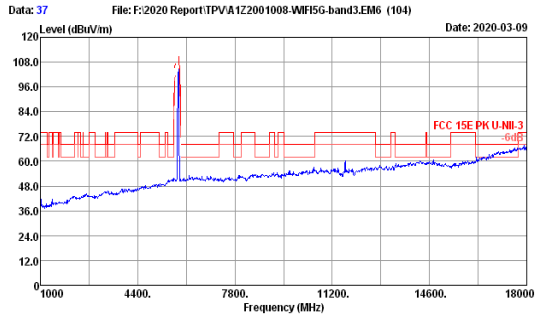


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5785MHz Tx Mode

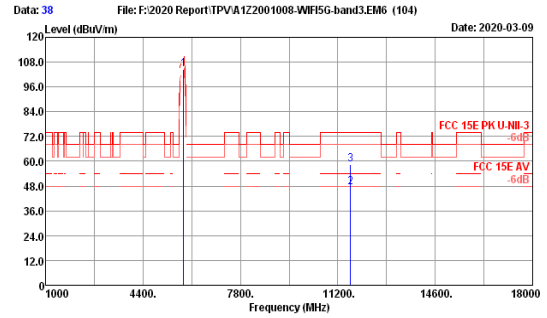
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	97.06	102.46	-----	-----	Peak
	211570.00	38.30	6.31	34.40	36.69	46.90	54.00	7.10	Average
	311570.00	38.30	6.31	34.40	43.95	54.16	74.00	19.84	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.

FCC ID: ARS-WCT5GM2511



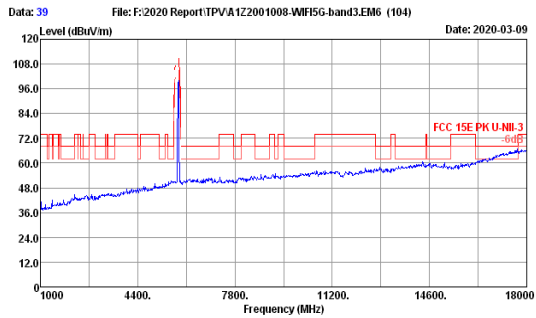
Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode



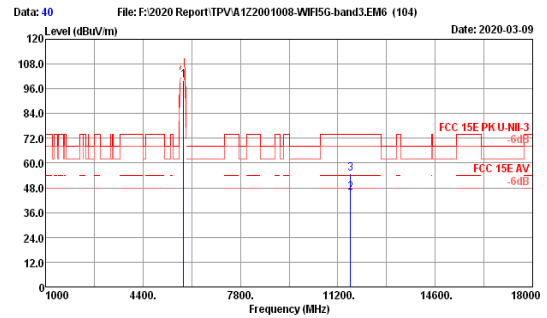
Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	99.24	104.55	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	37.25	47.47	54.00	6.53	Average
3	311650.00	38.30	6.32	34.40	48.16	58.38	74.00	15.62	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. : 39
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

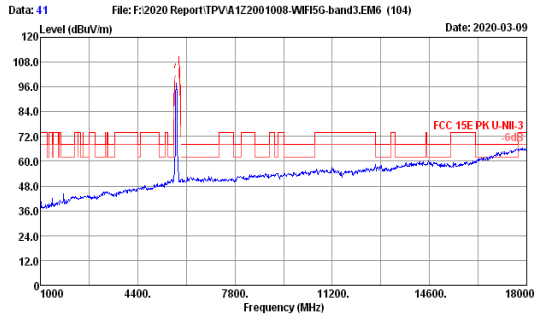


Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

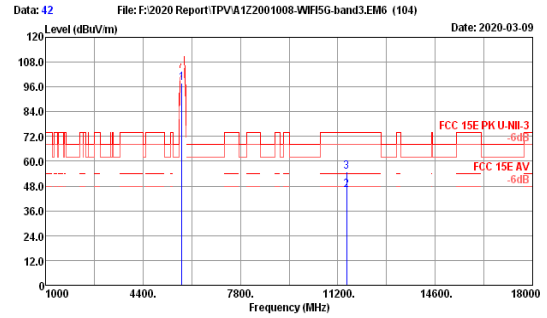
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	94.67	99.98	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	35.23	45.45	54.00	8.55	Average
3	311650.00	38.30	6.32	34.40	44.87	55.09	74.00	18.91	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.

FCC ID: ARS-WCT5GM2511



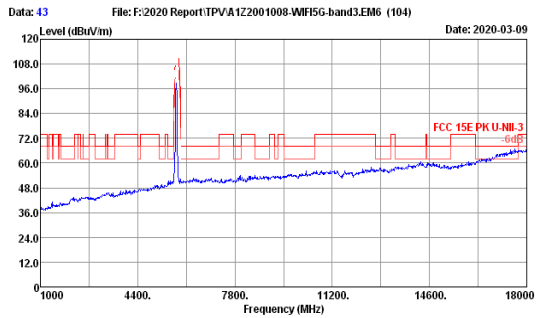
Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode



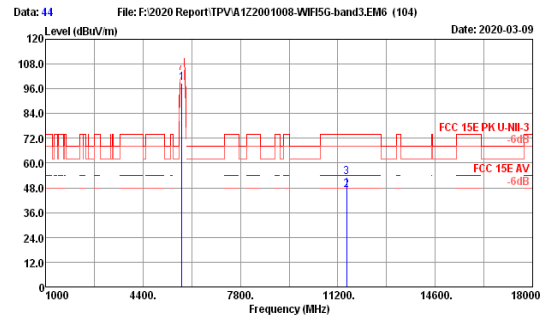
Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	4.61	34.25	92.37	97.76	54.00	-----	Peak
	211510.00	38.30	6.29	34.40	35.66	45.85	54.00	8.15	Average
	311510.00	38.30	6.29	34.40	44.54	54.73	74.00	19.27	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. : 43
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

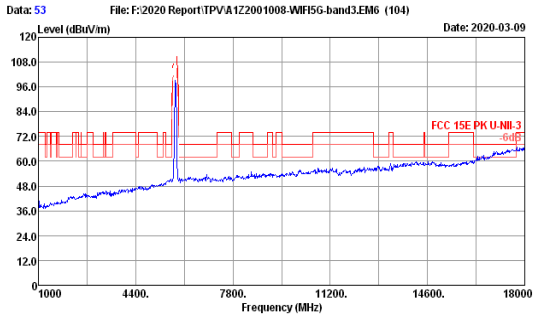


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

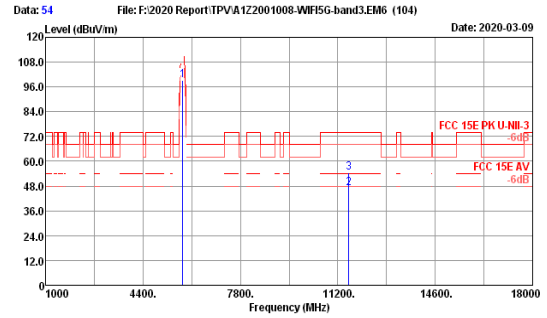
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	4.61	34.25	93.56	98.95	54.00	-----	Peak
	211510.00	38.30	6.29	34.40	36.58	46.77	54.00	7.23	Average
	311510.00	38.30	6.29	34.40	42.98	53.17	74.00	20.83	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.

FCC ID: ARS-WCT5GM2511



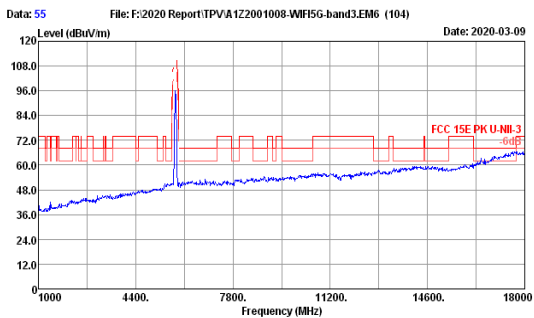
Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5795MHz Tx Mode



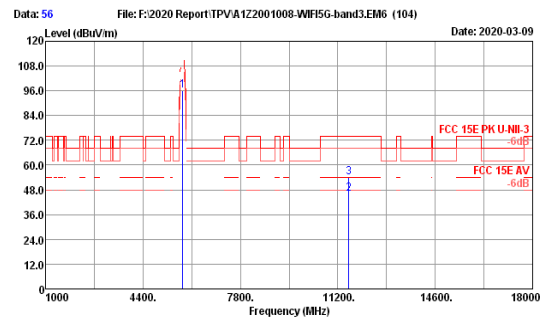
Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	4.63	34.24	93.71	99.10	74.00	-----	Peak
2	211590.00	38.30	6.31	34.40	36.55	46.76	54.00	7.24	Average
3	311590.00	38.30	6.31	34.40	44.48	54.69	74.00	19.31	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. : 55
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5795MHz Tx Mode

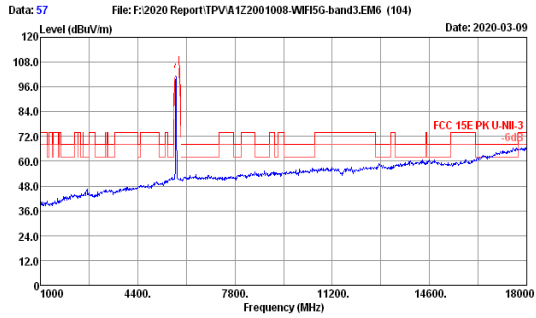


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5795MHz Tx Mode

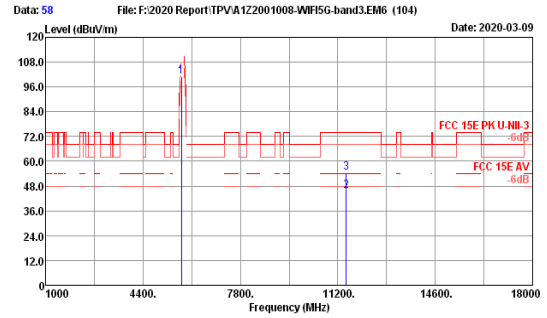
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	4.63	34.24	90.81	96.20	74.00	-----	Peak
2	211590.00	38.30	6.31	34.40	35.66	45.87	54.00	8.13	Average
3	311590.00	38.30	6.31	34.40	43.60	53.81	74.00	20.19	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.

FCC ID: ARS-WCT5GM2511



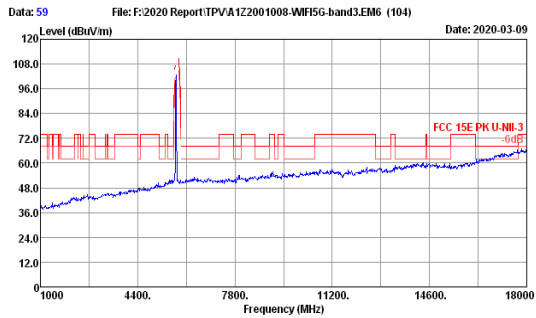
Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode



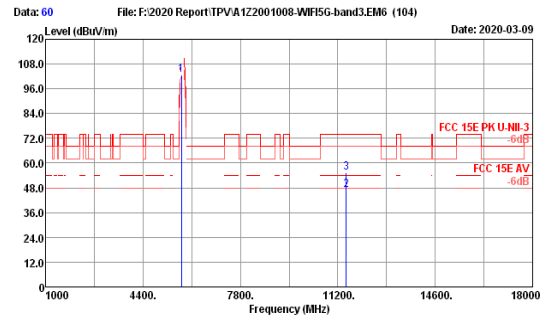
Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	95.47	102.81	74.00	28.81	Peak
2	211490.00	38.32	6.29	34.40	36.57	46.78	54.00	7.22	Average
3	311490.00	38.32	6.29	34.40	45.08	55.29	74.00	18.71	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. : 59
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

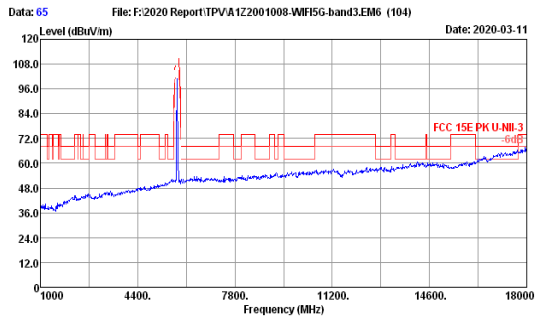


Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

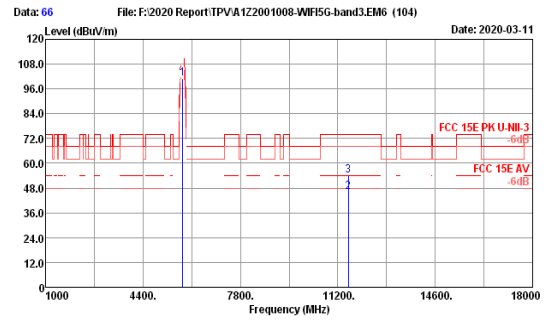
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	4.61	34.25	97.40	102.81	74.00	28.81	Peak
2	211490.00	38.32	6.29	34.40	36.57	46.78	54.00	7.22	Average
3	311490.00	38.32	6.29	34.40	45.08	55.29	74.00	18.71	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.

FCC ID: ARS-WCT5GM2511



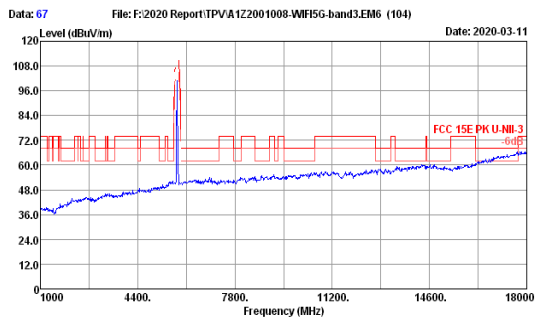
Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5785MHz Tx Mode



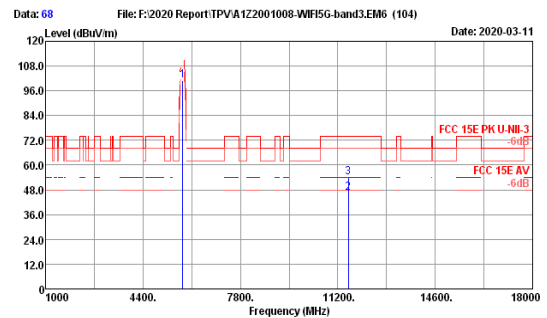
Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5785MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	95.62	101.02	-----	-----	Peak
	211570.00	38.30	6.31	34.40	35.65	45.86	54.00	8.14	Average
	311570.00	38.30	6.31	34.40	43.70	53.91	74.00	20.09	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. : 67
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5785MHz Tx Mode

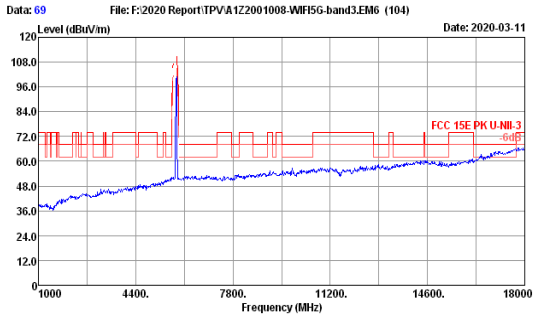


Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5785MHz Tx Mode

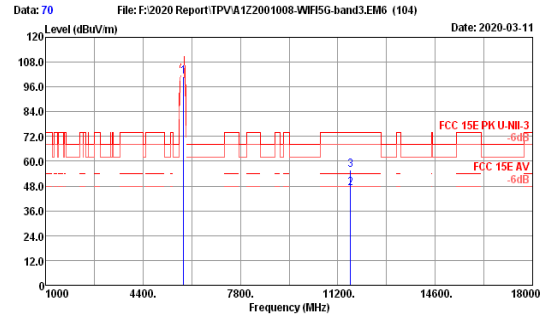
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	4.62	34.24	95.57	100.97	-----	-----	Peak
	211570.00	38.30	6.31	34.40	36.38	46.59	54.00	7.41	Average
	311570.00	38.30	6.31	34.40	43.78	53.99	74.00	20.01	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.

FCC ID: ARS-WCT5GM2511



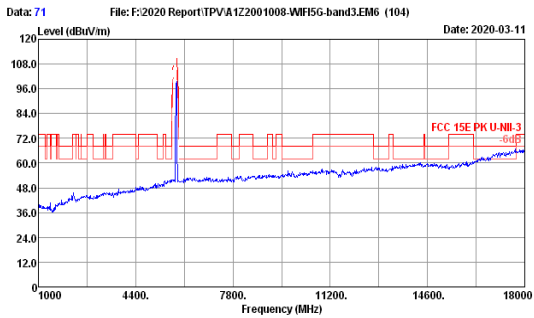
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode



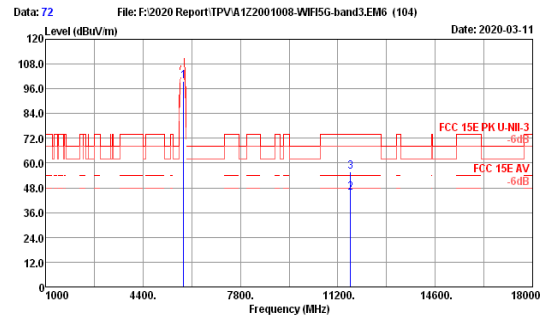
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	95.79	101.10	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	36.52	46.74	54.00	7.26	Average
3	311650.00	38.30	6.32	34.40	45.43	55.65	74.00	18.35	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 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

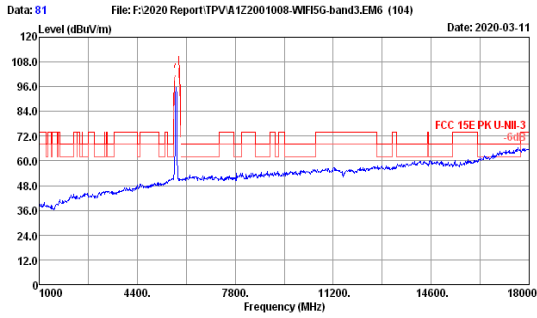


Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

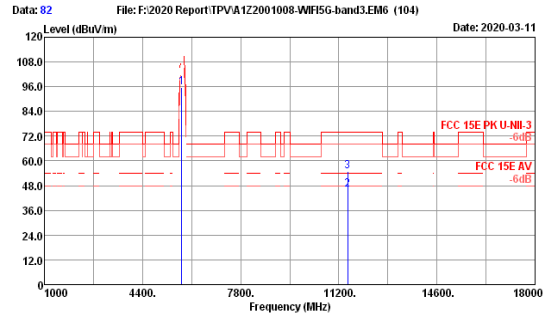
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	4.64	34.23	94.25	99.56	74.00	-----	Peak
2	211650.00	38.30	6.32	34.40	35.36	45.58	54.00	8.42	Average
3	311650.00	38.30	6.32	34.40	45.55	55.77	74.00	18.23	Peak

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.

FCC ID: ARS-WCT5GM2511



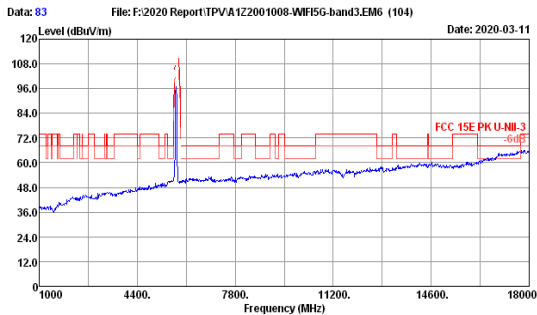
Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode



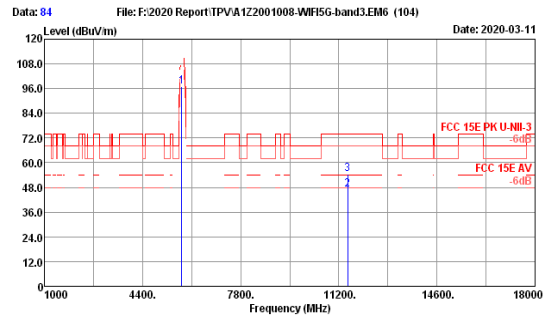
Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBW/m)	Margin (dB)	Remark
1	5755.00	35.03	4.61	34.25	90.11	95.50	-----	-----	Peak
	211510.00	38.30	6.29	34.40	35.68	45.87	54.00	8.13	Average
	311510.00	38.30	6.29	34.40	44.71	54.90	74.00	19.10	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. : 83
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

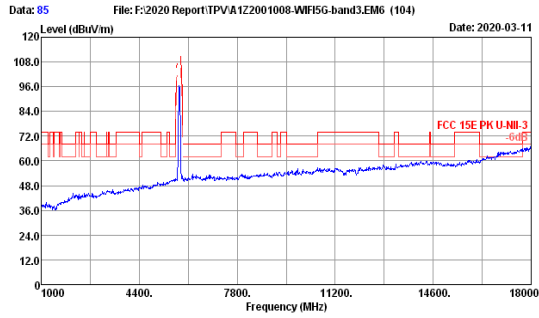


Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

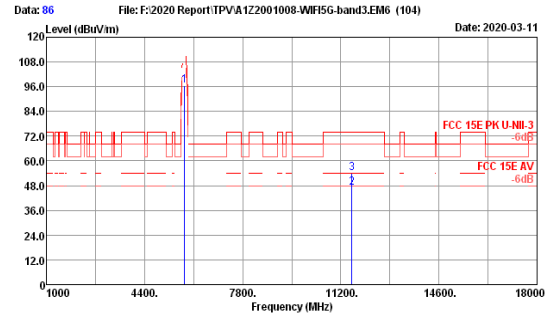
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBW/m)	Margin (dB)	Remark
1	5755.00	35.03	4.61	34.25	91.64	97.03	-----	-----	Peak
	211510.00	38.30	6.29	34.40	36.93	47.12	54.00	6.88	Average
	311510.00	38.30	6.29	34.40	44.15	54.34	74.00	19.66	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.

FCC ID: ARS-WCT5GM2511



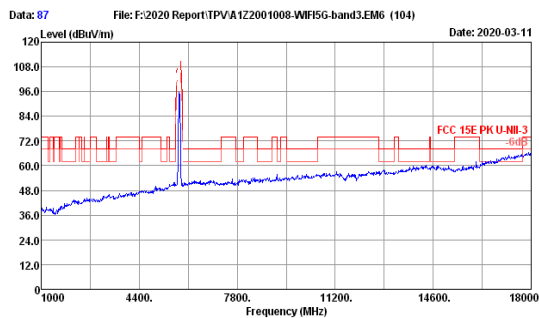
Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode



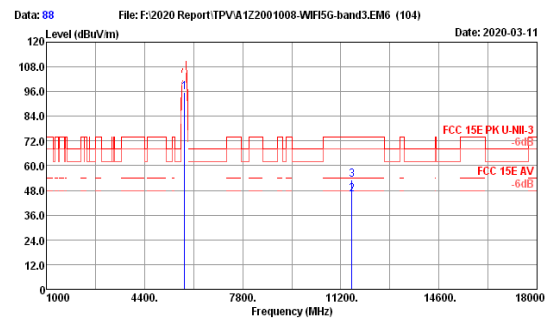
Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	4.63	34.24	91.27	96.66	74.00	22.66	Peak
	211590.00	38.30	6.31	34.40	36.84	47.05	54.00	6.95	Average
	311590.00	38.30	6.31	34.40	43.79	54.00	74.00	20.00	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.



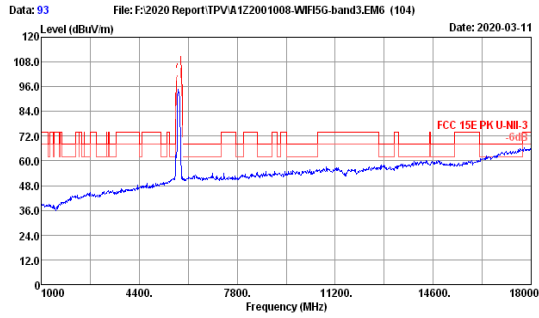
Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode



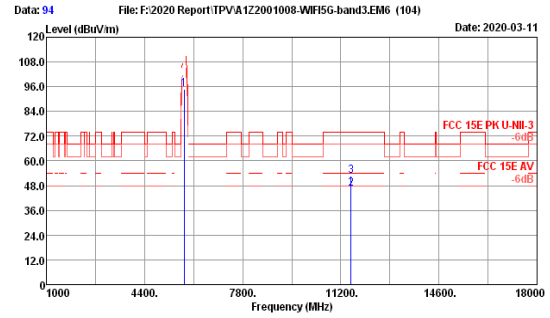
Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	4.63	34.24	90.28	95.67	74.00	21.67	Peak
	211590.00	38.30	6.31	34.40	35.68	45.89	54.00	8.11	Average
	311590.00	38.30	6.31	34.40	43.13	53.34	74.00	20.66	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.



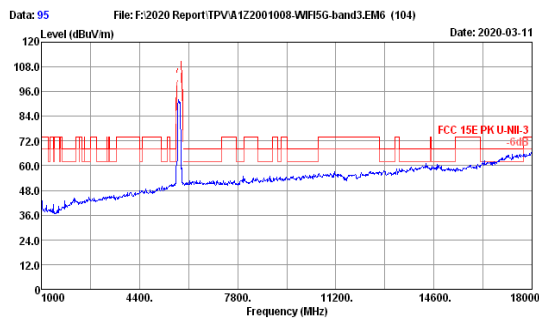
Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode



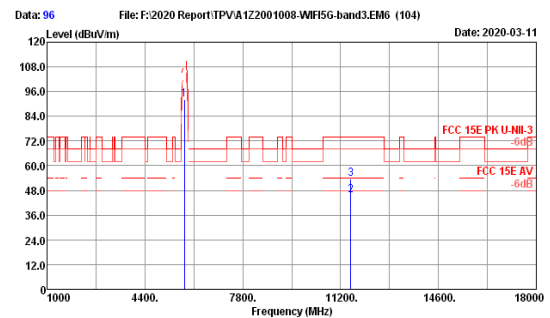
Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5775.00	35.02	4.62	34.24	89.24	94.64	72.00	22.64	Peak
	211550.00	38.30	6.30	34.40	36.15	46.35	54.00	7.65	Average
	311550.00	38.30	6.30	34.40	42.52	52.72	74.00	21.28	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. : 95
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5775.00	35.02	4.62	34.24	86.75	92.15	72.00	20.15	Peak
	211550.00	38.30	6.30	34.40	35.28	45.48	54.00	8.52	Average
	311550.00	38.30	6.30	34.40	43.23	53.43	74.00	20.57	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. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Jun.30,19	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.23,19	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jun.17,19	1 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	May.13,19	1 Year

5.2. Limit

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5250 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge..

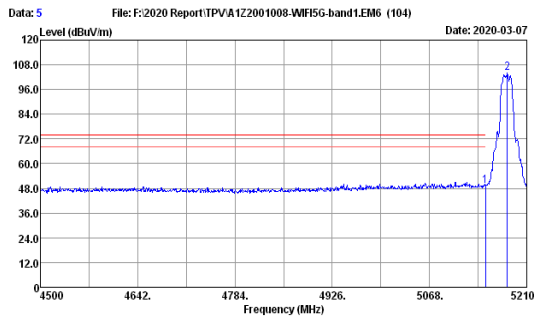
5.3. Test Procedure

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
5. Per KDB789033 clause H 2)d).if the test distance is 3m,the EIRP(dBm)=E(dBuv/m)-95.2
Get the final compare with limit.

5.4. Test Results

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

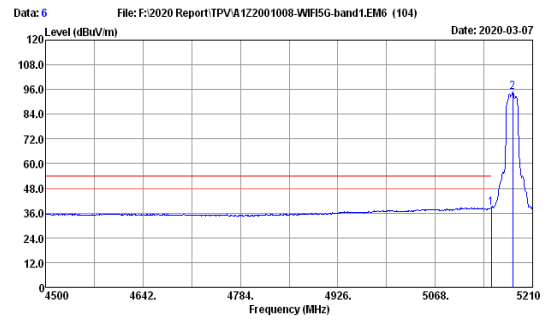
U-NII-1 Band:



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	45.94	49.21	74.00	24.79	Peak
2	5181.60	33.28	4.41	34.36	100.78	104.11	-----	-----	Peak

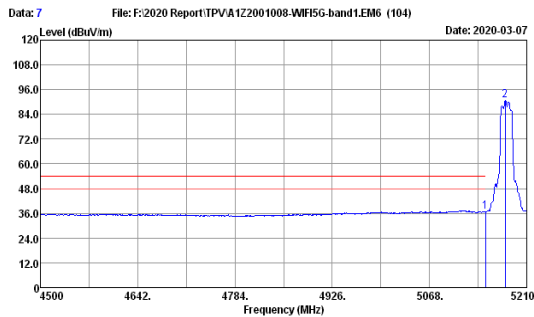
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	35.35	38.62	54.00	15.38	Average
2	5180.89	33.28	4.41	34.36	91.65	94.98	-----	-----	Average

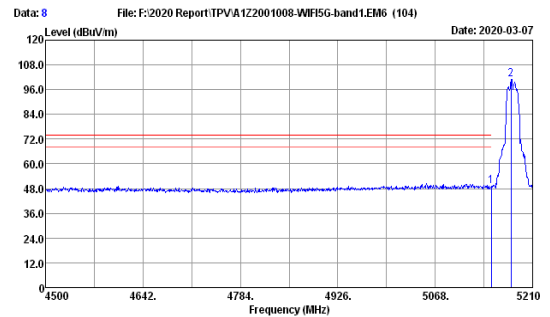
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	33.37	36.64	54.00	17.36	Average
2	5178.76	33.28	4.41	34.36	87.34	90.67	-----	-----	Average

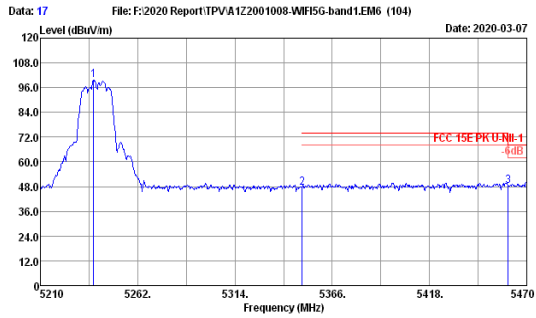
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	45.98	49.25	74.00	24.75	Peak
2	5178.76	33.28	4.41	34.36	97.58	100.91	-----	-----	Peak

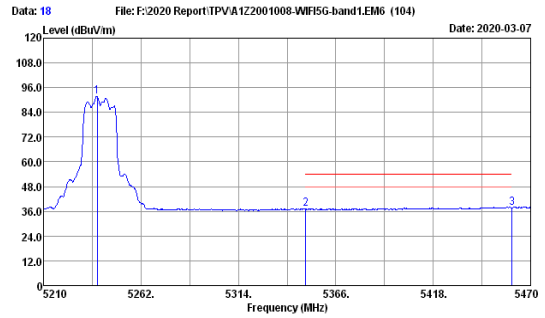
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.34	33.33	4.43	34.35	96.22	99.63	74.00	26.70	Peak
2	5350.00	33.65	4.47	34.33	43.51	47.30	54.00	16.86	Average
3	5460.00	34.45	4.50	34.31	43.42	48.06	54.00	16.26	Average

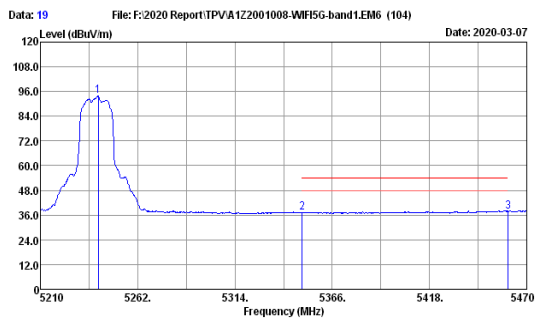
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.60	33.33	4.43	34.35	88.14	91.55	54.00	16.86	Average
2	5350.00	33.65	4.47	34.33	33.35	37.14	54.00	16.86	Average
3	5460.00	34.45	4.50	34.31	33.10	37.74	54.00	16.26	Average

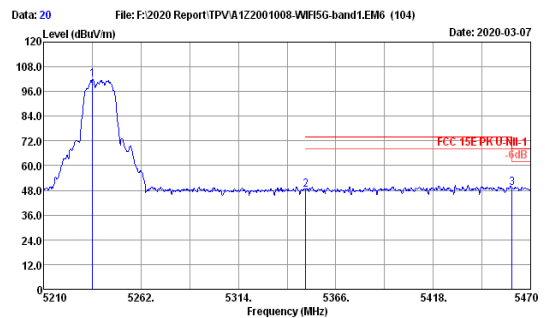
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.94	33.33	4.43	34.35	90.60	94.01	54.00	16.81	Average
2	5350.00	33.65	4.47	34.33	33.40	37.19	54.00	16.81	Average
3	5460.00	34.45	4.50	34.31	33.16	37.80	54.00	16.20	Average

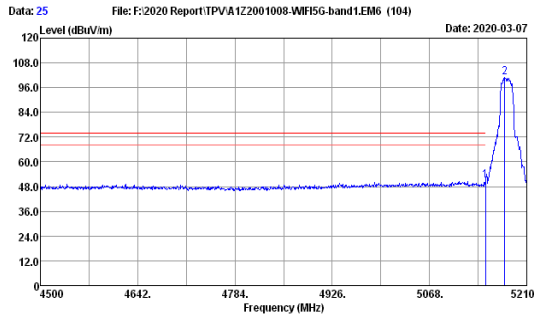
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5236.26	33.33	4.43	34.35	98.33	101.74	68.20	18.88	Peak
2	5350.00	33.65	4.47	34.33	44.42	48.21	54.00	16.81	Peak
3	5460.00	34.45	4.50	34.31	44.68	49.32	54.00	16.81	Peak

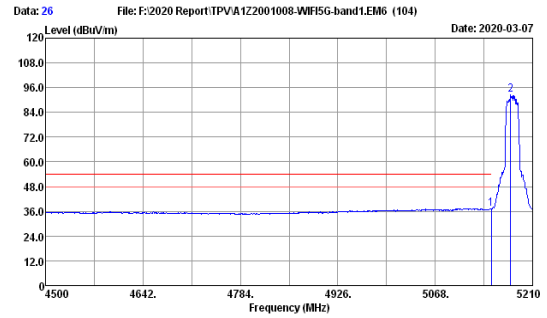
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	47.80	51.07	74.00	22.93	Peak
2	5178.05	33.28	4.41	34.36	97.52	100.85	-----	-----	Peak

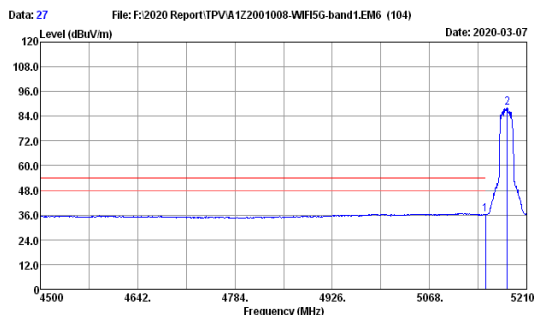
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	33.98	37.25	54.00	16.75	Average
2	5178.05	33.28	4.41	34.36	89.02	92.35	-----	-----	Average

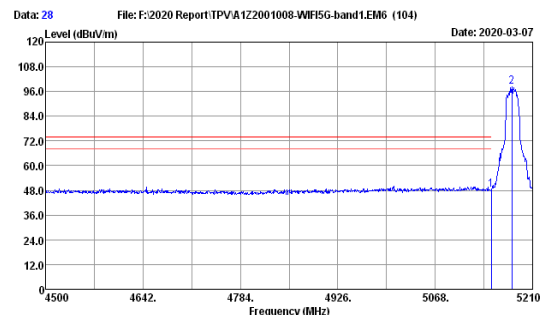
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	32.94	36.21	54.00	17.79	Average
2	5181.60	33.28	4.41	34.36	84.65	87.98	-----	-----	Average

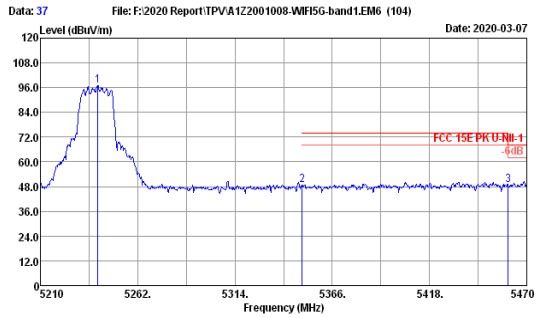
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	45.08	48.35	74.00	25.65	Peak
2	5179.47	33.28	4.41	34.36	95.13	98.46	-----	-----	Peak

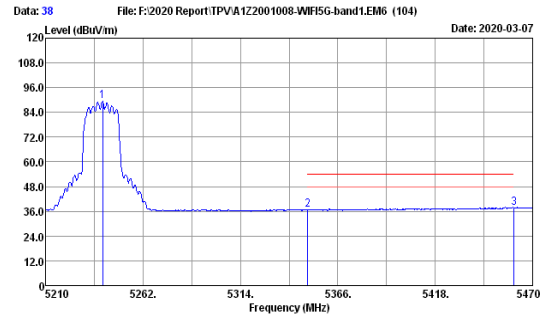
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.68	33.33	4.43	34.35	93.76	97.17	74.00	23.17	Peak
2	5350.00	33.65	4.47	34.33	45.01	48.80	74.00	25.20	Peak
3	5460.00	34.45	4.50	34.31	44.03	48.67	68.20	19.53	Peak

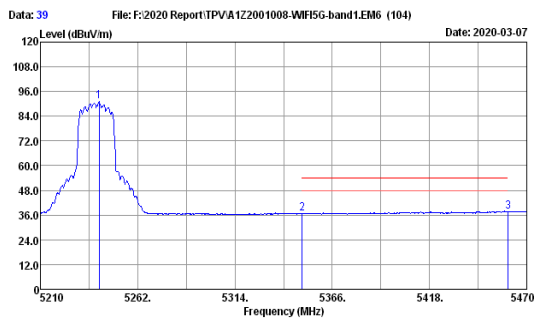
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.42	33.33	4.43	34.35	85.82	89.23	54.00	35.23	Average
2	5350.00	33.65	4.47	34.33	33.02	36.81	54.00	17.19	Average
3	5460.00	34.45	4.50	34.31	32.99	37.63	54.00	16.37	Average

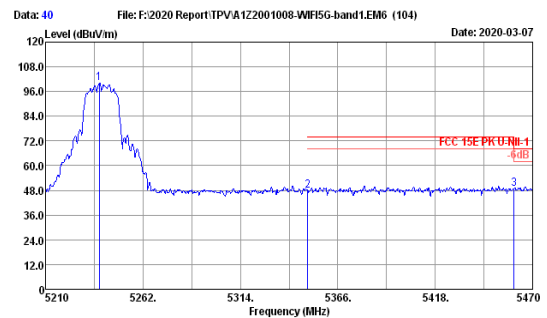
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.46	33.33	4.43	34.35	87.64	91.05	54.00	37.05	Average
2	5350.00	33.65	4.47	34.33	32.99	36.78	54.00	17.22	Average
3	5460.00	34.45	4.50	34.31	33.11	37.75	54.00	16.25	Average

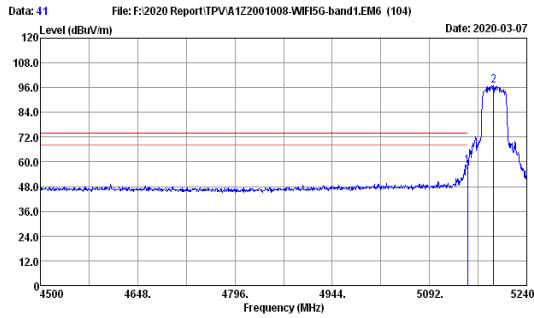
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.60	33.33	4.43	34.35	96.62	100.03	74.00	26.03	Peak
2	5350.00	33.65	4.47	34.33	43.84	47.63	74.00	26.37	Peak
3	5460.00	34.45	4.50	34.31	44.12	48.76	68.20	19.44	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.

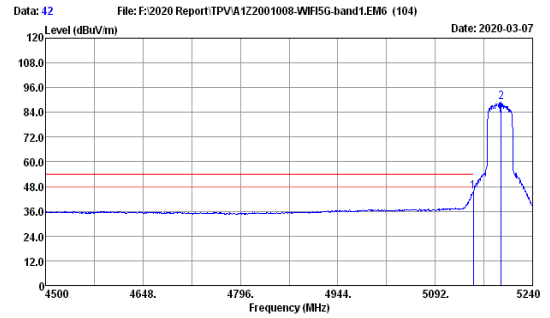


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	54.94	58.21	74.00	15.79	Peak
2	5189.68	33.28	4.41	34.36	93.56	96.89			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.

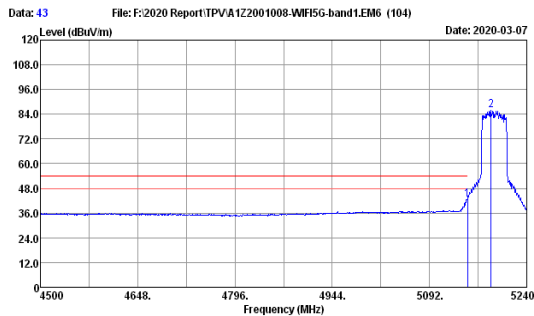


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	42.17	45.44	54.00	8.56	Average
2	5191.90	33.30	4.41	34.36	85.61	88.96			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.

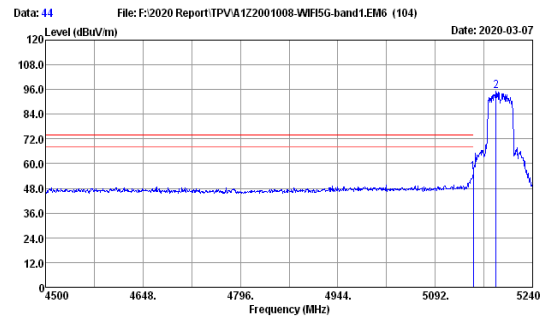


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	39.15	42.42	54.00	11.58	Average
2	5185.98	33.28	4.41	34.36	82.40	85.73			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.

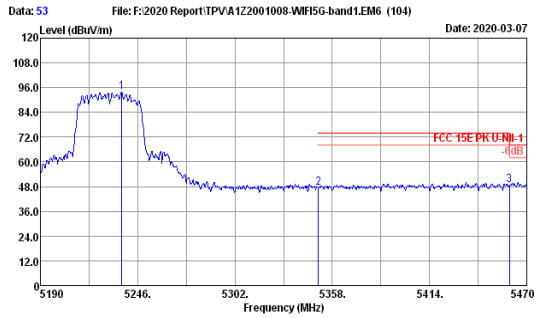


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	52.32	55.59	74.00	18.41	Peak
2	5184.50	33.28	4.41	34.36	91.75	95.08			Peak

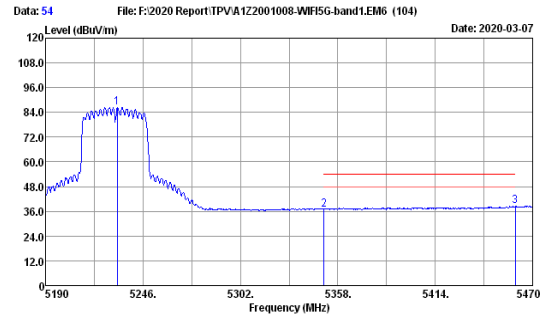
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5236.76	33.33	4.43	34.35	90.35	93.76	74.00	26.78	Peak
2	5350.00	33.65	4.47	34.33	43.43	47.22	54.00	17.05	Average
3	5460.00	34.45	4.50	34.31	44.02	48.66	54.00	15.56	Average

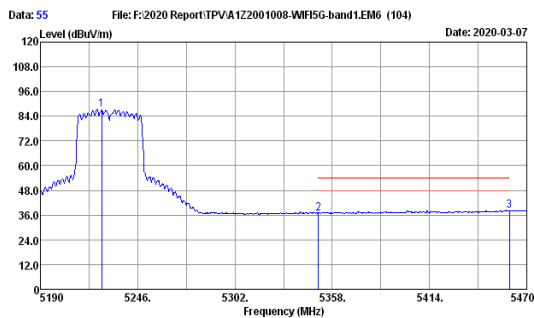
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5231.16	33.33	4.43	34.35	83.03	86.44	54.00	17.05	Average
2	5350.00	33.65	4.47	34.33	33.16	36.95	54.00	17.05	Average
3	5460.00	34.45	4.50	34.31	33.80	38.44	54.00	15.56	Average

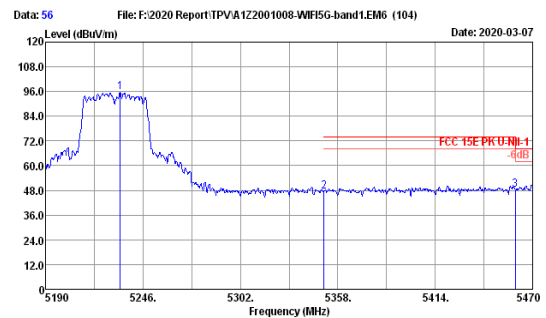
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5225.28	33.33	4.43	34.35	83.82	87.23	54.00	17.05	Average
2	5350.00	33.65	4.47	34.33	33.16	36.95	54.00	17.05	Average
3	5460.00	34.45	4.50	34.31	33.36	38.00	54.00	16.00	Average

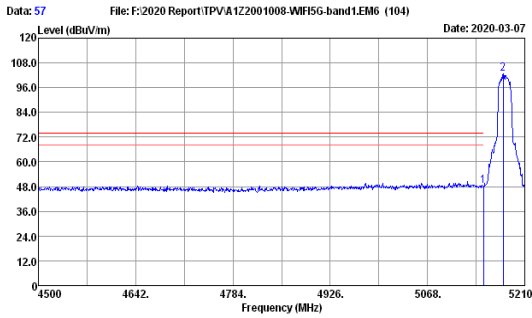
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5232.84	33.33	4.43	34.35	92.08	95.49	68.20	20.06	Peak
2	5350.00	33.65	4.47	34.33	43.59	47.38	54.00	26.62	Peak
3	5460.00	34.45	4.50	34.31	43.50	48.14	68.20	20.06	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.

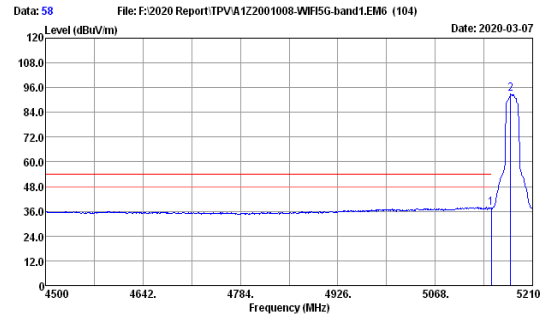


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	45.15	48.42	74.00	25.58	Peak
2	5178.76	33.28	4.41	34.36	99.41	102.74			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.

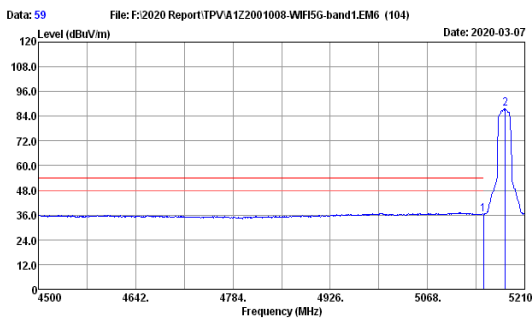


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	34.38	37.65	54.00	16.35	Average
2	5178.05	33.28	4.41	34.36	89.56	92.89			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.

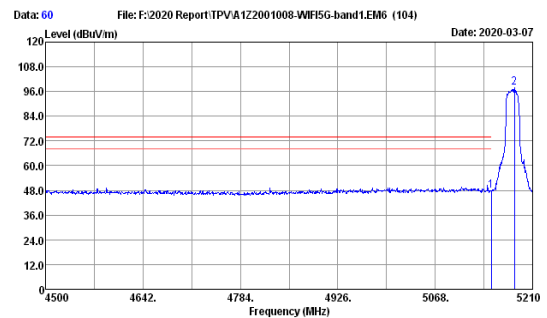


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	33.19	36.46	54.00	17.54	Average
2	5181.60	33.28	4.41	34.36	84.41	87.74			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.

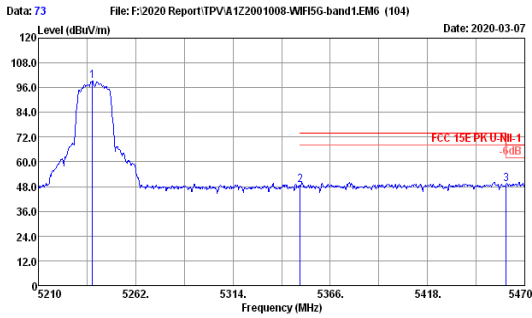


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	44.44	47.71	74.00	26.29	Peak
2	5183.73	33.28	4.41	34.36	94.33	97.66			Peak

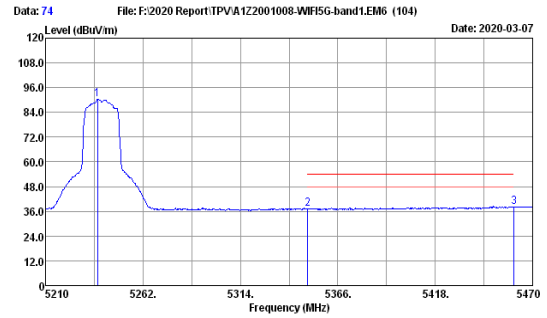
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.86	33.33	4.43	34.35	95.73	99.14	74.00	25.50	Peak
2	5350.00	33.65	4.47	34.33	44.71	48.50	74.00	25.50	Peak
3	5460.00	34.45	4.50	34.31	44.59	49.23	68.20	18.97	Peak

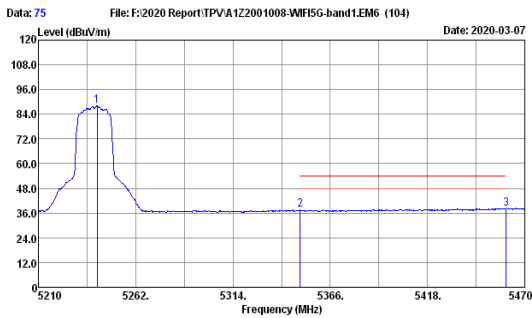
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5237.82	33.33	4.43	34.35	86.93	90.34	74.00	16.64	Average
2	5350.00	33.65	4.47	34.33	33.57	37.36	54.00	16.64	Average
3	5460.00	34.45	4.50	34.31	33.39	38.03	54.00	15.97	Average

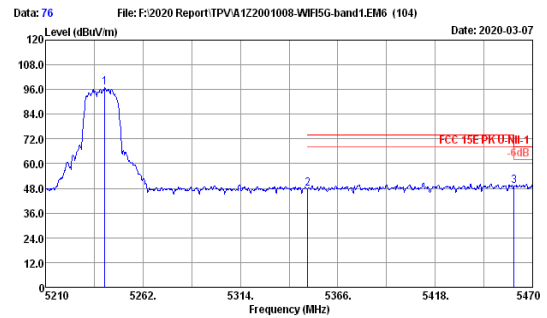
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.46	33.33	4.43	34.35	84.82	88.23	54.00	16.53	Average
2	5350.00	33.65	4.47	34.33	33.68	37.47	54.00	16.53	Average
3	5460.00	34.45	4.50	34.31	33.64	38.28	54.00	15.72	Average

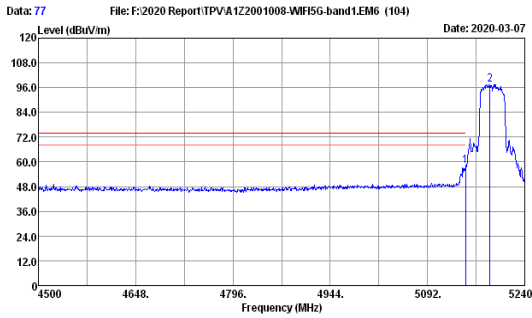
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-07
 File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104)
 Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.72	33.35	4.43	34.35	93.35	96.78	74.00	25.98	Peak
2	5350.00	33.65	4.47	34.33	44.23	48.02	74.00	25.98	Peak
3	5460.00	34.45	4.50	34.31	44.34	48.98	68.20	19.22	Peak

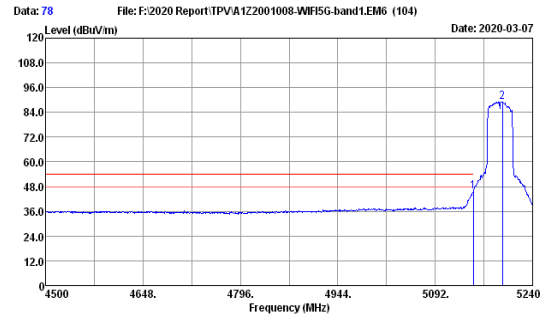
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	54.65	57.92	74.00	16.08	Peak
2	5186.72	33.28	4.41	34.36	94.28	97.61	-----	-----	Peak

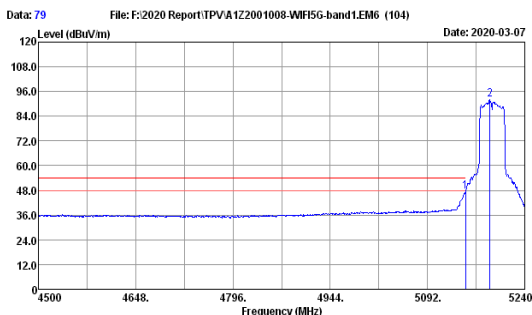
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	42.34	45.61	54.00	8.39	Average
2	5194.12	33.30	4.41	34.36	85.86	89.21	-----	-----	Average

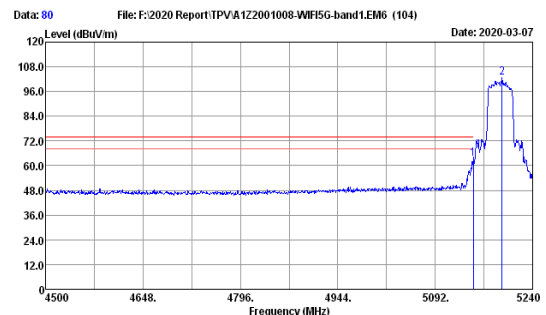
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	44.13	47.40	54.00	6.60	Average
2	5186.72	33.28	4.41	34.36	88.61	91.94	-----	-----	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.

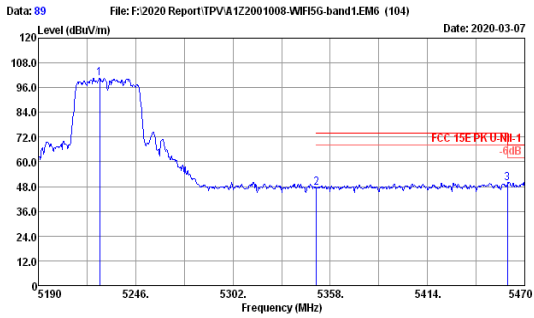


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	59.85	63.12	74.00	10.88	Peak
2	5193.38	33.30	4.41	34.36	99.22	102.57	-----	-----	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.

FCC ID: ARS-WCT5GM2511

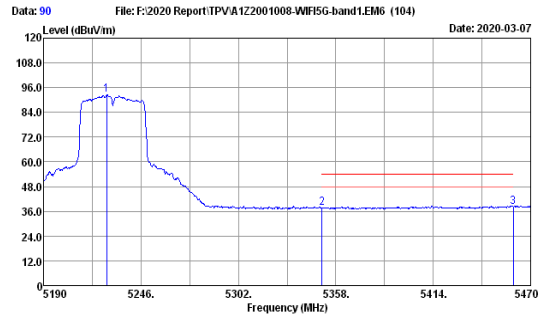


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Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5225.28	33.33	4.43	34.35	97.33	100.74	74.00	26.83	Peak
2	5350.00	33.65	4.47	34.33	43.38	47.17	68.20	18.52	Peak
3	5460.00	34.45	4.50	34.31	45.04	49.68	68.20	18.52	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.

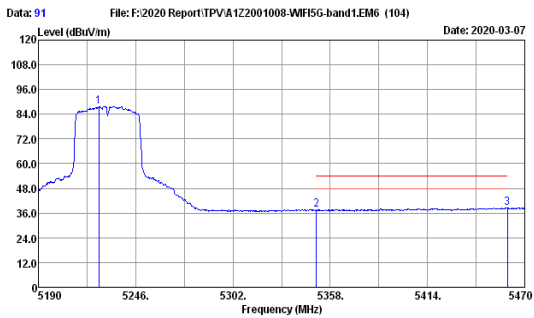


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5226.40	33.33	4.43	34.35	89.30	92.71	74.00	18.71	Average
2	5350.00	33.65	4.47	34.33	33.78	37.57	54.00	16.43	Average
3	5460.00	34.45	4.50	34.31	33.64	38.28	54.00	15.72	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.

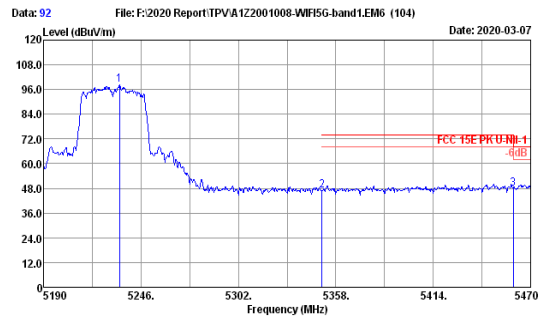


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5224.72	33.33	4.43	34.35	84.43	87.84	74.00	13.84	Average
2	5350.00	33.65	4.47	34.33	33.78	37.57	54.00	16.43	Average
3	5460.00	34.45	4.50	34.31	33.72	38.36	54.00	15.64	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.

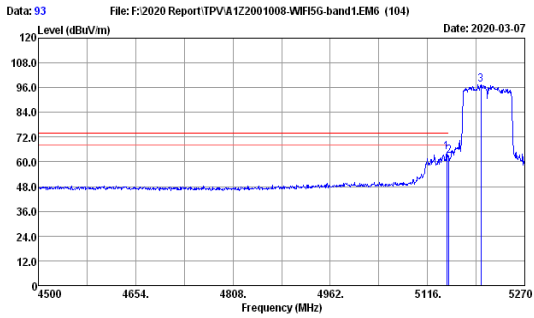


File: F:\2020 Report\TPVA122001008-WIFI5G-band1.EM6 (104) Date: 2020-03-07

Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5230MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5233.68	33.33	4.43	34.35	94.70	98.11	74.00	24.11	Peak
2	5350.00	33.65	4.47	34.33	43.21	47.00	74.00	27.00	Peak
3	5460.00	34.45	4.50	34.31	43.39	48.03	68.20	20.17	Peak

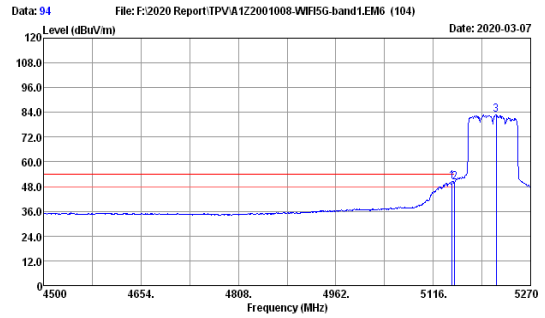
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5146.80	33.25	4.39	34.37	61.57	64.84	74.00	9.16	Peak
2	5150.00	33.25	4.39	34.37	59.49	62.76	74.00	11.24	Peak
3	5200.70	33.30	4.41	34.36	94.09	97.44	-----	-----	Peak

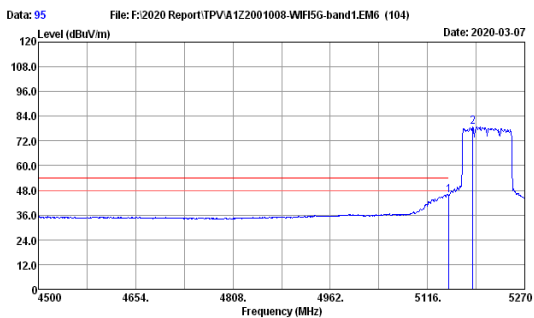
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5146.03	33.25	4.39	34.37	47.21	50.48	54.00	3.52	Average
2	5150.00	33.25	4.39	34.37	46.60	49.87	54.00	4.13	Average
3	5215.33	33.32	4.42	34.36	79.45	82.83	-----	-----	Average

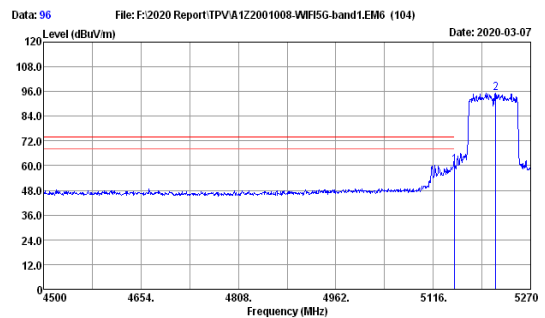
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	42.34	45.61	54.00	8.39	Average
2	5187.61	33.28	4.41	34.36	75.62	78.95	-----	-----	Average

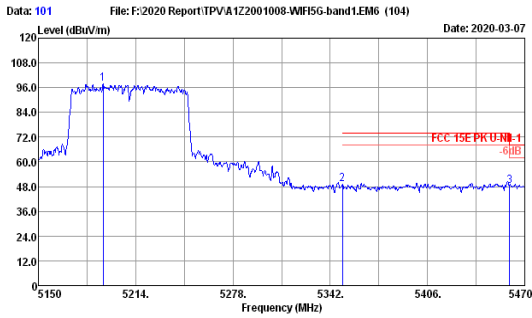
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.25	4.39	34.37	56.97	60.24	74.00	13.76	Peak
2	5214.56	33.32	4.42	34.36	91.79	95.17	-----	-----	Peak

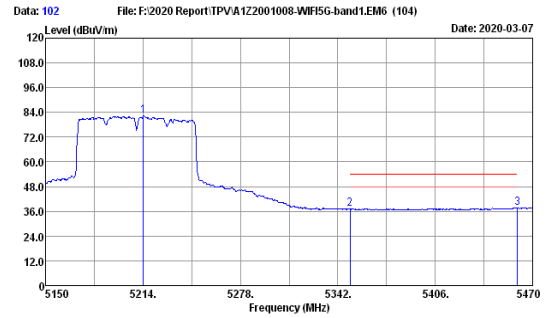
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5192.56	33.30	4.41	34.36	94.47	97.82	74.00	24.70	Peak
2	5350.00	33.65	4.47	34.33	45.51	49.30	54.00	16.82	Average
3	5460.00	34.45	4.50	34.31	43.71	48.35	54.00	16.33	Average

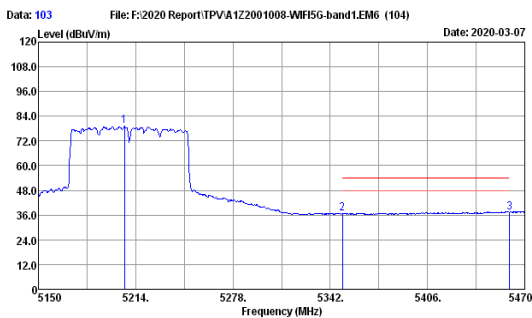
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5214.32	33.32	4.42	34.36	78.96	82.34	54.00	16.82	Average
2	5350.00	33.65	4.47	34.33	33.39	37.18	54.00	16.82	Average
3	5460.00	34.45	4.50	34.31	33.03	37.67	54.00	16.33	Average

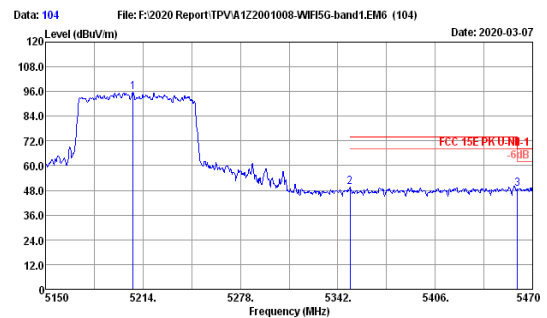
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5206.64	33.30	4.41	34.36	75.76	79.11	54.00	17.29	Average
2	5350.00	33.65	4.47	34.33	32.92	36.71	54.00	17.29	Average
3	5460.00	34.45	4.50	34.31	32.76	37.40	54.00	16.60	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.

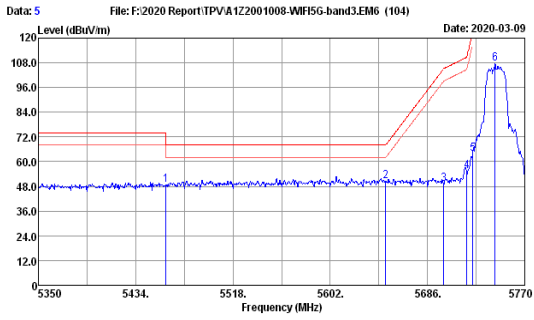


Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5207.60	33.32	4.42	34.36	92.21	95.59	74.00	24.37	Peak
2	5350.00	33.65	4.47	34.33	45.84	49.63	54.00	16.33	Average
3	5460.00	34.45	4.50	34.31	44.07	48.71	54.00	16.33	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.

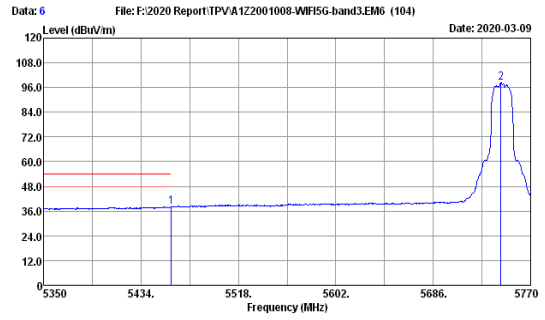
U-NII-3 Band:



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	43.87	48.51	68.20	19.69	Peak
2	5650.00	35.14	4.58	34.27	44.84	50.29	68.20	17.91	Peak
3	5700.00	35.10	4.59	34.26	43.58	49.01	105.20	56.19	Peak
4	5720.00	35.07	4.60	34.25	50.14	55.56	110.80	55.24	Peak
5	5725.00	35.07	4.60	34.25	58.43	63.85	122.80	58.95	Peak
6	5744.38	35.05	4.61	34.25	102.24	107.65	-----	-----	Peak

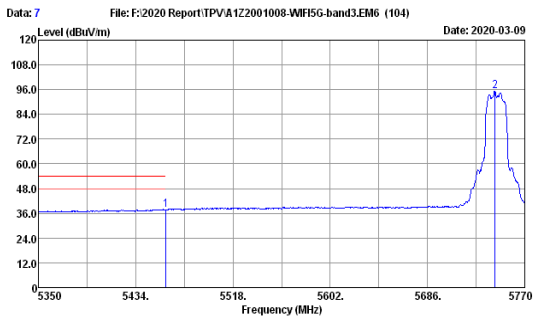
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.37	38.01	54.00	15.99	Average
2	5744.38	35.05	4.61	34.25	93.03	98.44	-----	-----	Average

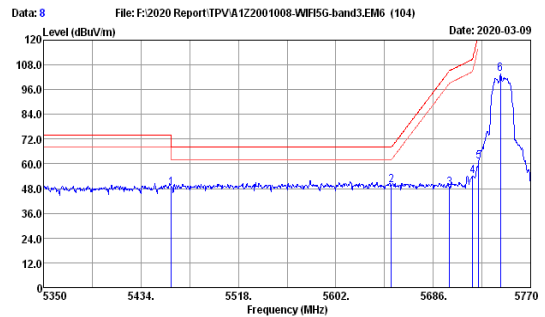
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	32.97	37.61	54.00	16.39	Average
2	5744.38	35.05	4.61	34.25	89.99	95.40	-----	-----	Average

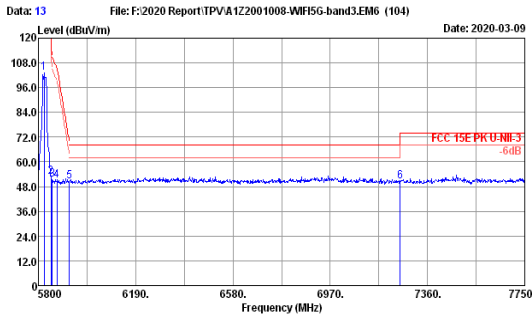
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	43.68	48.32	68.20	19.88	Peak
2	5650.00	35.14	4.58	34.27	43.94	49.39	68.20	18.81	Peak
3	5700.00	35.10	4.59	34.26	42.92	48.35	105.20	56.85	Peak
4	5720.00	35.07	4.60	34.25	48.80	54.22	110.80	56.58	Peak
5	5725.00	35.07	4.60	34.25	55.91	61.33	122.80	61.47	Peak
6	5743.96	35.05	4.61	34.25	98.01	103.42	-----	-----	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.

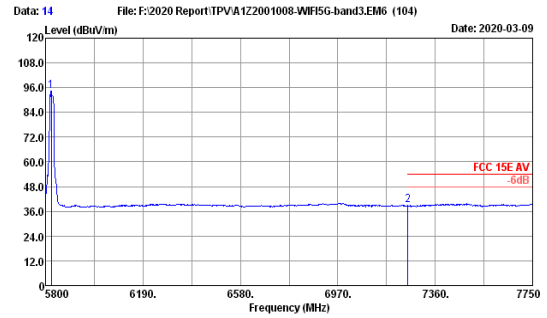


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Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	97.99	103.30	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	47.25	52.52	122.20	69.68	Peak
3	5855.00	34.80	4.65	34.23	46.19	51.41	110.80	59.39	Peak
4	5875.00	34.75	4.66	34.22	45.76	50.95	105.20	54.25	Peak
5	5925.00	34.70	4.68	34.21	45.12	50.29	68.20	17.91	Peak
6	7250.00	36.25	5.12	34.55	43.58	50.40	68.20	17.80	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.

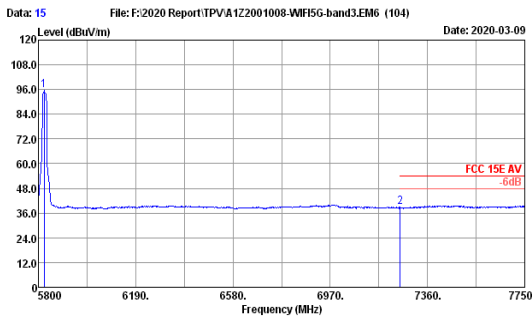


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Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	89.16	94.47	-----	-----	Average
2	7250.00	36.25	5.12	34.55	31.94	38.76	54.00	15.24	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.

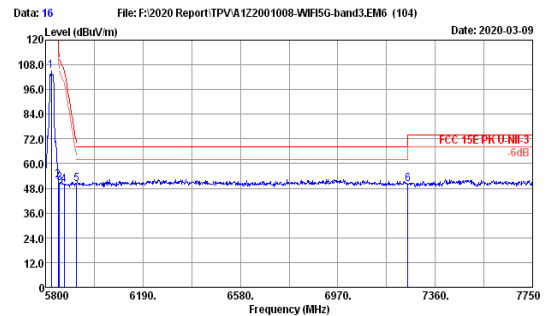


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-09

Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	90.37	95.68	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.00	38.82	54.00	15.18	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.

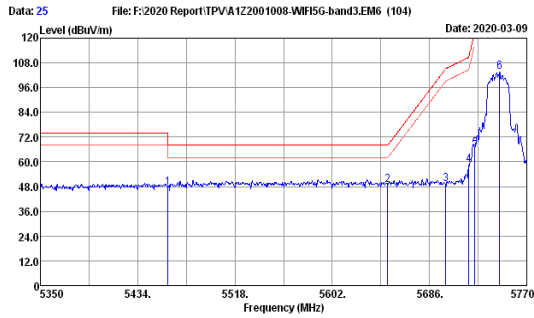


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Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	99.66	104.97	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	46.71	51.98	122.20	70.22	Peak
3	5855.00	34.80	4.65	34.23	45.45	50.67	110.80	60.13	Peak
4	5875.00	34.75	4.66	34.22	44.53	49.72	105.20	55.48	Peak
5	5925.00	34.70	4.68	34.21	44.86	50.03	68.20	18.17	Peak
6	7250.00	36.25	5.12	34.55	43.08	49.90	68.20	18.30	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.

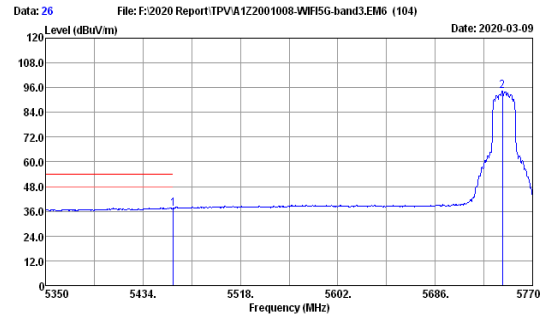


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Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	42.80	47.44	68.20	20.76	Peak
2	5650.00	35.14	4.58	34.27	43.43	48.88	68.20	19.32	Peak
3	5700.00	35.10	4.59	34.26	43.67	49.10	105.20	56.10	Peak
4	5720.00	35.07	4.60	34.25	52.91	58.33	110.80	52.47	Peak
5	5725.00	35.07	4.60	34.25	60.98	66.40	122.80	56.40	Peak
6	5746.48	35.05	4.61	34.25	98.10	103.51	-----	-----	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.

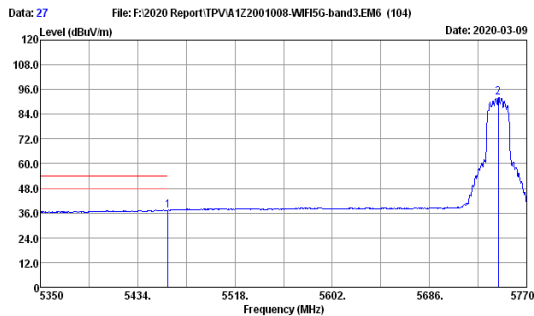


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Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	32.70	37.34	54.00	16.66	Average
2	5743.96	35.05	4.61	34.25	88.86	94.27	-----	-----	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.

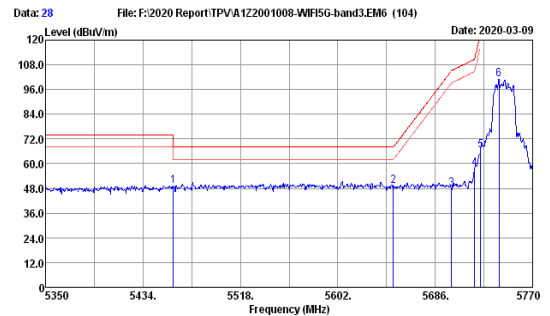


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Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	32.74	37.38	54.00	16.62	Average
2	5745.64	35.05	4.61	34.25	86.76	92.17	-----	-----	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.

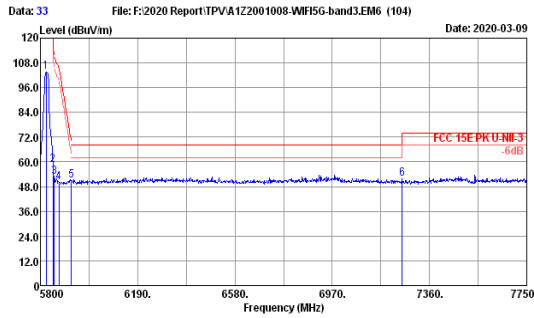


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Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.30	48.94	68.20	19.26	Peak
2	5650.00	35.14	4.58	34.27	43.84	49.29	68.20	18.91	Peak
3	5700.00	35.10	4.59	34.26	42.56	47.99	105.20	57.21	Peak
4	5720.00	35.07	4.60	34.25	52.31	57.73	110.80	53.07	Peak
5	5725.00	35.07	4.60	34.25	61.12	66.54	122.80	56.26	Peak
6	5741.02	35.05	4.61	34.25	95.45	100.86	-----	-----	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.

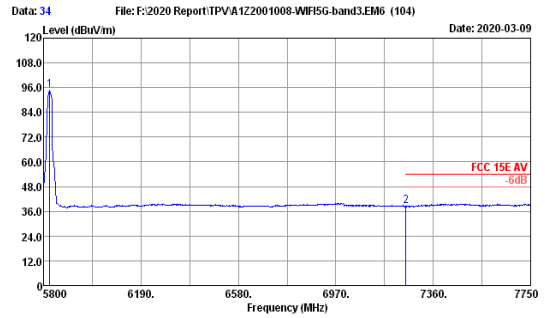


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Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	98.52	103.83	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	53.29	58.56	122.20	63.64	Peak
3	5855.00	34.80	4.65	34.23	47.67	52.89	110.80	57.91	Peak
4	5875.00	34.75	4.66	34.22	44.96	50.15	105.20	55.05	Peak
5	5925.00	34.70	4.68	34.21	45.89	51.06	68.20	17.14	Peak
6	7250.00	36.25	5.12	34.55	45.20	52.02	68.20	16.18	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.

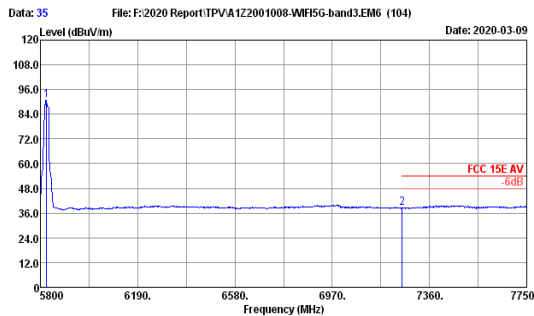


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Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.35	34.90	4.64	34.23	89.26	94.57	-----	-----	Average
2	7250.00	36.25	5.12	34.55	31.65	38.47	54.00	15.53	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.

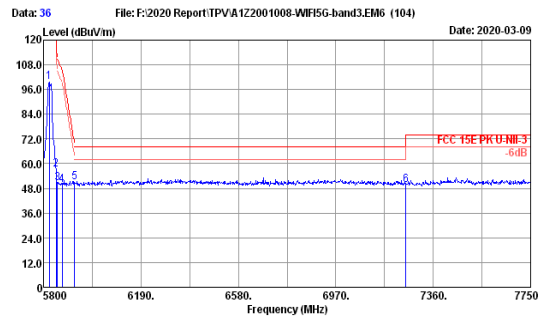


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Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.35	34.90	4.64	34.23	85.66	90.97	-----	-----	Average
2	7250.00	36.25	5.12	34.55	31.70	38.52	54.00	15.48	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.

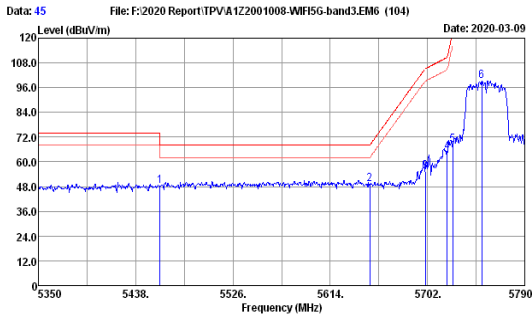


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Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	94.50	99.81	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	51.71	56.98	122.20	65.22	Peak
3	5855.00	34.80	4.65	34.23	45.45	50.67	110.80	60.13	Peak
4	5875.00	34.75	4.66	34.22	44.51	49.70	105.20	55.50	Peak
5	5925.00	34.70	4.68	34.21	45.84	51.01	68.20	17.19	Peak
6	7250.00	36.25	5.12	34.55	42.93	49.75	68.20	18.45	Peak

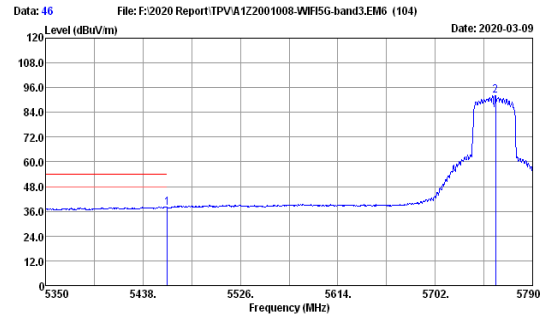
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	43.66	48.30	68.20	19.90	Peak
2	5650.00	35.14	4.58	34.27	43.49	48.94	68.20	19.26	Peak
3	5700.00	35.10	4.59	34.26	49.82	55.25	105.20	49.95	Peak
4	5720.00	35.07	4.60	34.25	59.11	64.53	110.80	46.27	Peak
5	5725.00	35.07	4.60	34.25	62.72	68.14	122.80	54.66	Peak
6	5751.28	35.05	4.61	34.25	93.92	99.33	-----	-----	Peak

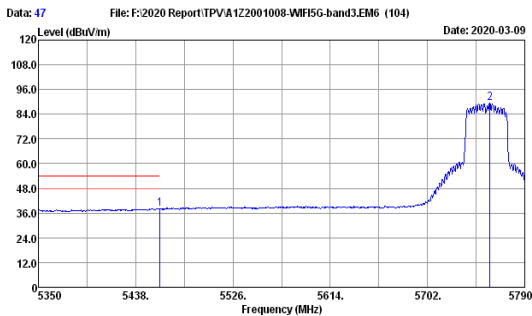
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.20	37.84	54.00	16.16	Average
2	5756.56	35.03	4.61	34.25	86.89	92.28	-----	-----	Average

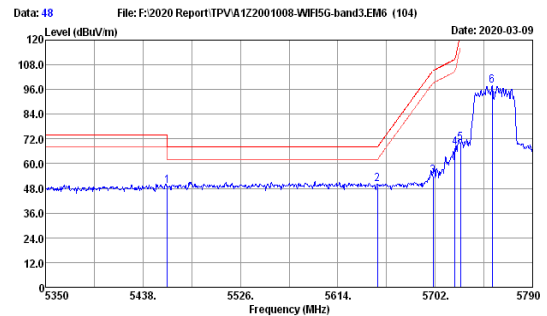
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.45	38.09	54.00	15.91	Average
2	5758.32	35.03	4.61	34.25	83.91	89.30	-----	-----	Average

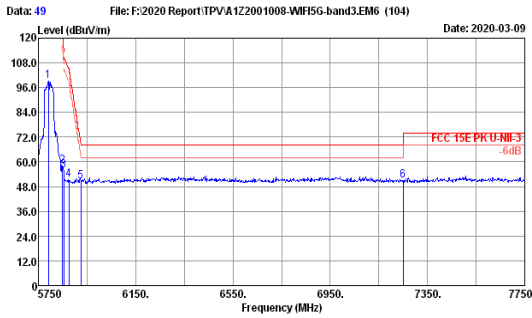
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11nHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.44	49.08	68.20	19.12	Peak
2	5650.00	35.14	4.58	34.27	44.48	49.93	68.20	18.27	Peak
3	5700.00	35.10	4.59	34.26	48.70	54.13	105.20	51.07	Peak
4	5720.00	35.07	4.60	34.25	62.40	67.82	110.80	42.98	Peak
5	5725.00	35.07	4.60	34.25	64.63	70.05	122.80	52.75	Peak
6	5753.48	35.03	4.61	34.25	92.44	97.83	-----	-----	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.

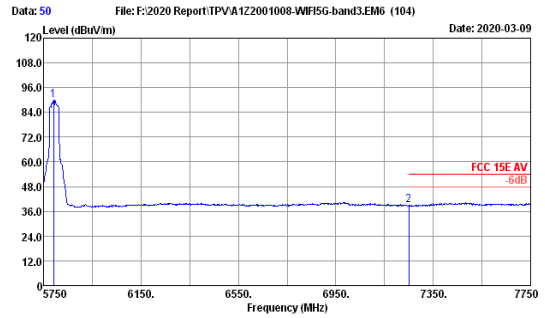


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Date: 2020-03-09

Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC 15E PK U-NII-3
Env. / Ins. : 23.4°C/52.9% Engineer : Garry
EUT :
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5792.00	35.00	4.63	34.24	93.91	99.30	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	52.94	58.21	122.20	63.99	Peak
3	5855.00	34.80	4.65	34.23	50.50	55.72	110.80	55.08	Peak
4	5875.00	34.75	4.66	34.22	46.03	51.22	105.20	53.98	Peak
5	5925.00	34.70	4.68	34.21	45.39	50.56	68.20	17.64	Peak
6	7250.00	36.25	5.12	34.55	44.05	50.87	68.20	17.33	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.

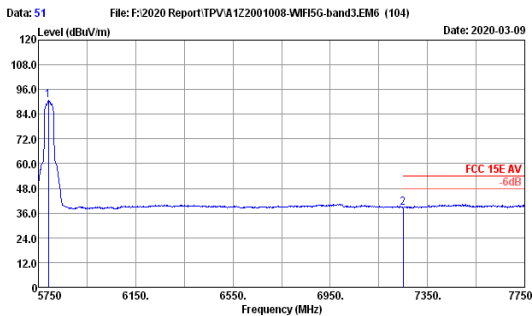


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Date: 2020-03-09

Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
Limit : FCC 15E AV
Env. / Ins. : 23.4°C/52.9% Engineer : Garry
EUT :
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5792.00	35.00	4.63	34.24	84.53	89.92	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.10	38.92	54.00	15.08	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.

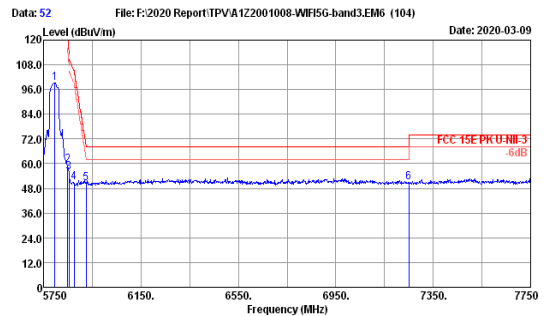


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Date: 2020-03-09

Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC 15E AV
Env. / Ins. : 23.4°C/52.9% Engineer : Garry
EUT :
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5792.00	35.00	4.63	34.24	85.42	90.81	-----	-----	Average
2	7250.00	36.25	5.12	34.55	31.74	38.56	54.00	15.44	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.

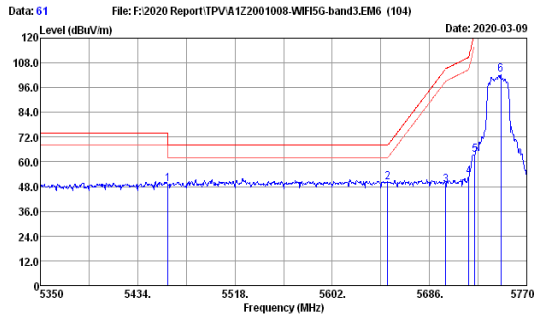


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104)
Date: 2020-03-09

Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC 15E PK U-NII-3
Env. / Ins. : 23.4°C/52.9% Engineer : Garry
EUT :
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5796.00	35.00	4.63	34.24	93.97	99.36	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	53.88	59.15	122.20	63.05	Peak
3	5855.00	34.80	4.65	34.23	50.61	55.83	110.80	54.97	Peak
4	5875.00	34.75	4.66	34.22	45.66	50.85	105.20	54.35	Peak
5	5925.00	34.70	4.68	34.21	45.28	50.45	68.20	17.75	Peak
6	7250.00	36.25	5.12	34.55	43.98	50.80	68.20	17.40	Peak

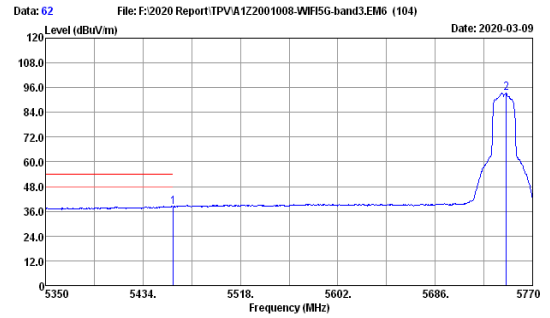
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.58	49.22	68.20	18.98	Peak
2	5650.00	35.14	4.58	34.27	44.42	49.87	68.20	18.33	Peak
3	5700.00	35.10	4.59	34.26	43.10	48.53	105.20	56.67	Peak
4	5720.00	35.07	4.60	34.25	47.13	52.55	110.80	58.25	Peak
5	5725.00	35.07	4.60	34.25	57.85	63.27	122.80	59.53	Peak
6	5747.74	35.05	4.61	34.25	96.66	102.07	-----	-----	Peak

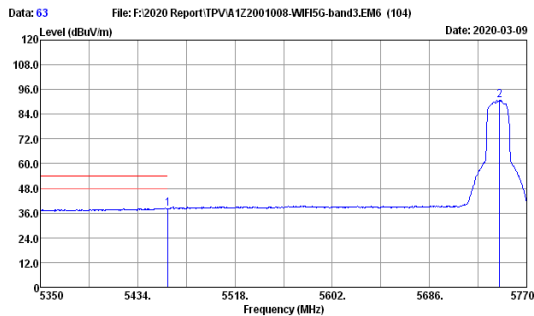
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.46	38.10	54.00	15.90	Average
2	5747.32	35.05	4.61	34.25	88.06	93.47	-----	-----	Average

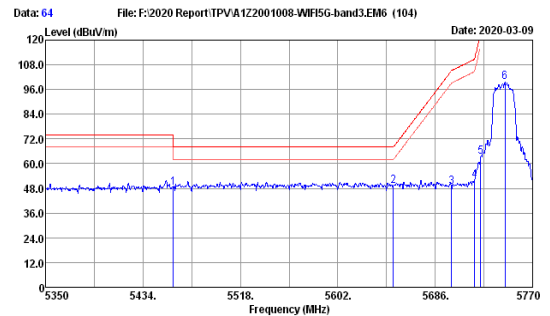
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.39	38.03	54.00	15.97	Average
2	5746.48	35.05	4.61	34.25	85.52	90.93	-----	-----	Average

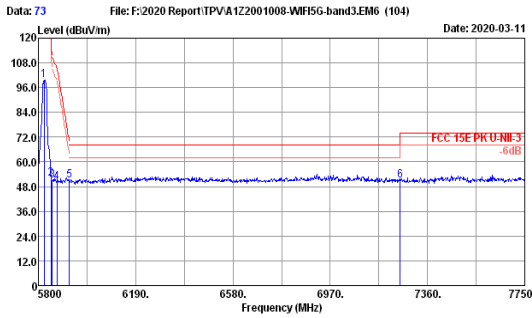
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	43.62	48.26	68.20	19.94	Peak
2	5650.00	35.14	4.58	34.27	43.75	49.20	68.20	19.00	Peak
3	5700.00	35.10	4.59	34.26	43.17	48.60	105.20	56.60	Peak
4	5720.00	35.07	4.60	34.25	46.47	51.89	110.80	58.91	Peak
5	5725.00	35.07	4.60	34.25	57.79	63.21	122.80	59.59	Peak
6	5746.06	35.05	4.61	34.25	94.05	99.46	-----	-----	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.

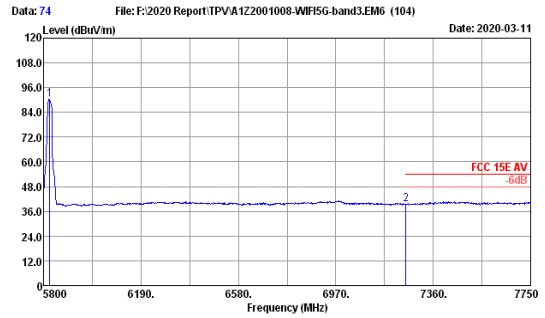


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5823.40	34.90	4.64	34.23	94.50	99.81	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	46.44	51.71	122.20	70.49	Peak
3	5855.00	34.80	4.65	34.23	45.72	50.94	110.80	59.86	Peak
4	5875.00	34.75	4.66	34.22	45.05	50.24	105.20	54.96	Peak
5	5925.00	34.70	4.68	34.21	45.67	50.84	68.20	17.36	Peak
6	7250.00	36.25	5.12	34.55	44.10	50.92	68.20	17.28	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.

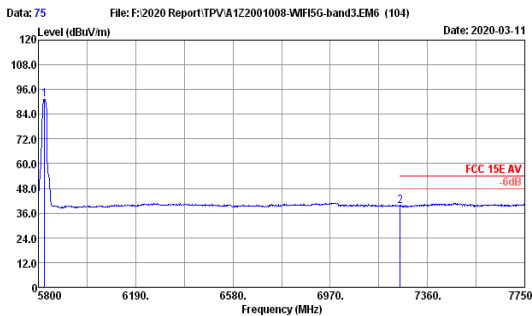


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.35	34.90	4.64	34.23	85.21	90.52	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.57	39.39	54.00	14.61	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.

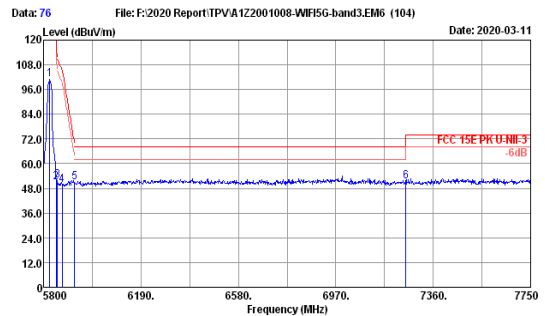


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.35	34.90	4.64	34.23	85.82	91.13	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.71	39.53	54.00	14.47	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.

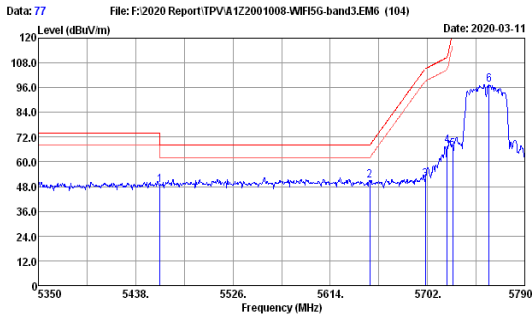


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Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.35	34.90	4.64	34.23	95.62	100.93	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	45.60	50.87	122.20	71.33	Peak
3	5855.00	34.80	4.65	34.23	46.42	51.64	110.80	59.16	Peak
4	5875.00	34.75	4.66	34.22	44.36	49.55	105.20	55.65	Peak
5	5925.00	34.70	4.68	34.21	45.80	50.97	68.20	17.23	Peak
6	7250.00	36.25	5.12	34.55	44.63	51.45	68.20	16.75	Peak

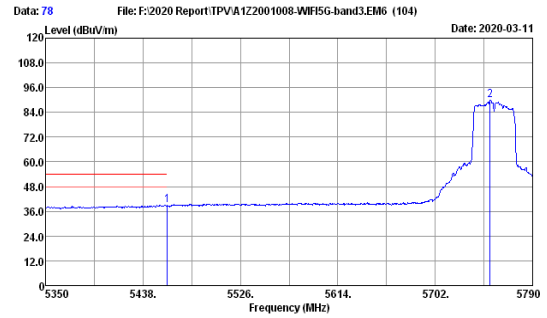
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.25	48.89	68.20	19.31	Peak
2	5650.00	35.14	4.58	34.27	45.38	50.83	68.20	17.37	Peak
3	5700.00	35.10	4.59	34.26	46.15	51.58	105.20	53.62	Peak
4	5720.00	35.07	4.60	34.25	62.29	67.71	110.80	43.09	Peak
5	5725.00	35.07	4.60	34.25	60.70	66.12	122.80	56.68	Peak
6	5757.88	35.03	4.61	34.25	92.08	97.47	-----	-----	Peak

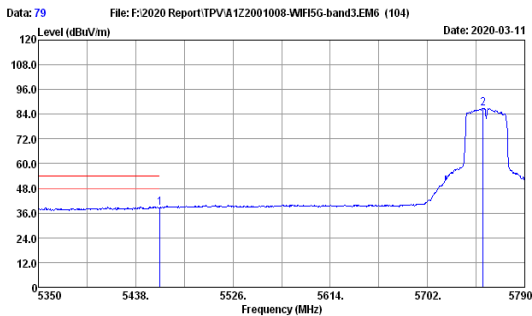
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	34.18	38.82	54.00	15.18	Average
2	5751.72	35.03	4.61	34.25	84.39	89.78	-----	-----	Average

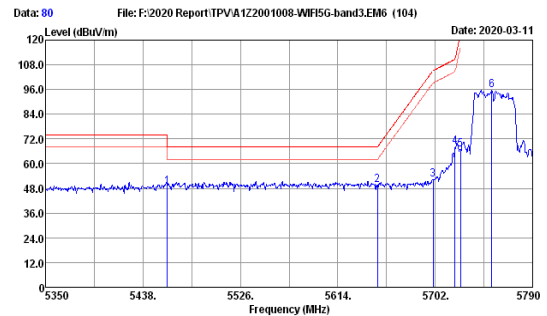
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	34.08	38.72	54.00	15.28	Average
2	5752.16	35.03	4.61	34.25	81.60	86.99	-----	-----	Average

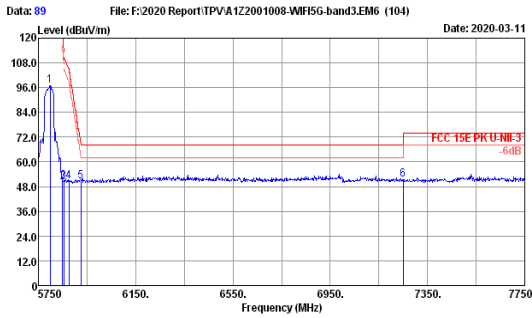
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5755MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	43.90	48.54	68.20	19.66	Peak
2	5650.00	35.14	4.58	34.27	44.18	49.63	68.20	18.57	Peak
3	5700.00	35.10	4.59	34.26	46.99	52.42	105.20	52.78	Peak
4	5720.00	35.07	4.60	34.25	62.58	68.00	110.80	42.80	Peak
5	5725.00	35.07	4.60	34.25	61.35	66.77	122.80	56.03	Peak
6	5753.04	35.03	4.61	34.25	90.26	95.65	-----	-----	Peak

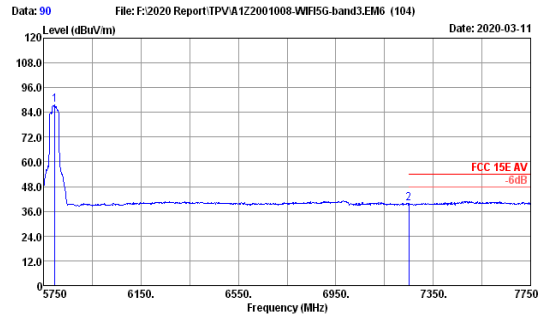
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5796.00	35.00	4.63	34.24	91.78	97.17	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	44.71	49.98	122.20	72.22	Peak
3	5855.00	34.80	4.65	34.23	45.46	50.68	110.80	60.12	Peak
4	5875.00	34.75	4.66	34.22	45.18	50.37	105.20	54.83	Peak
5	5925.00	34.70	4.68	34.21	45.44	50.61	68.20	17.59	Peak
6	7250.00	36.25	5.12	34.55	44.64	51.46	68.20	16.74	Peak

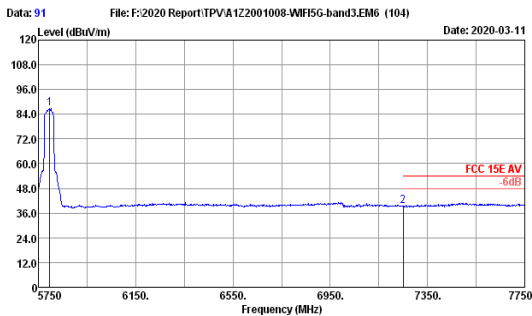
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5796.00	35.00	4.63	34.24	82.48	87.87	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.84	39.66	54.00	14.34	Average

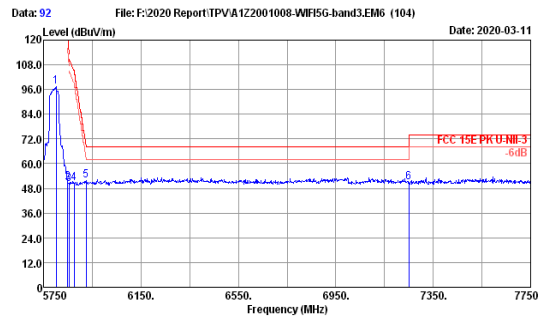
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5796.00	35.00	4.63	34.24	81.31	86.70	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.72	39.54	54.00	14.46	Average

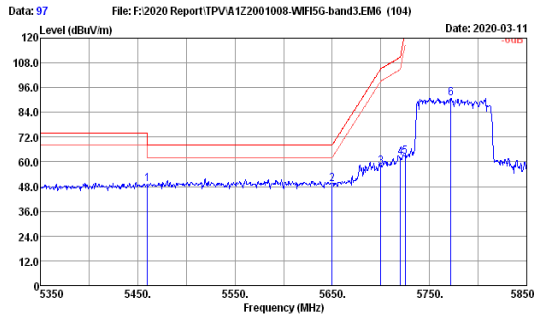
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5802.00	35.00	4.63	34.24	91.90	97.29	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	45.60	50.87	122.20	71.33	Peak
3	5855.00	34.80	4.65	34.23	44.94	50.16	110.80	60.64	Peak
4	5875.00	34.75	4.66	34.22	45.09	50.28	105.20	54.92	Peak
5	5925.00	34.70	4.68	34.21	46.72	51.89	68.20	16.31	Peak
6	7250.00	36.25	5.12	34.55	43.88	50.70	68.20	17.50	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.

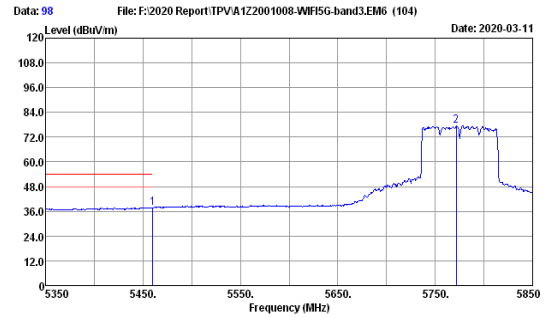


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Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.48	49.12	68.20	19.08	Peak
2	5650.00	35.14	4.58	34.27	43.75	49.20	68.20	19.00	Peak
3	5700.00	35.10	4.59	34.26	52.01	57.44	105.20	47.76	Peak
4	5720.00	35.07	4.60	34.25	56.50	61.92	110.80	48.88	Peak
5	5725.00	35.07	4.60	34.25	56.86	62.28	122.80	60.52	Peak
6	5772.00	35.02	4.62	34.24	85.50	90.90	-----	-----	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.

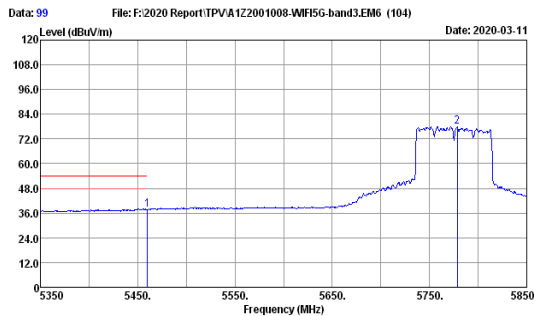


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	33.00	37.64	54.00	16.36	Average
2	5771.50	35.02	4.62	34.24	72.17	77.57	-----	-----	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.

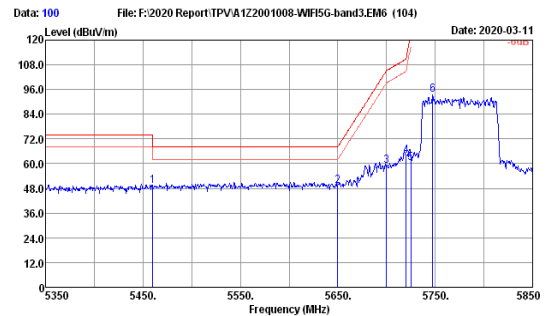


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	32.99	37.63	54.00	16.37	Average
2	5778.50	35.02	4.62	34.24	72.56	77.96	-----	-----	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.

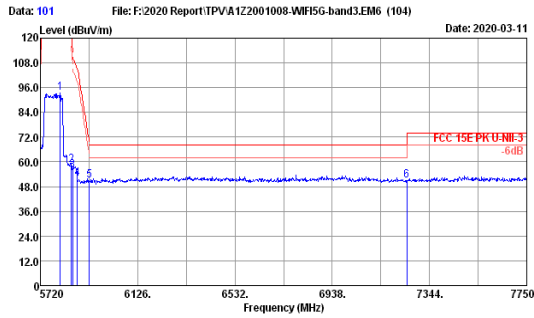


File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104) Date: 2020-03-11

Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	4.50	34.31	44.48	49.12	68.20	19.08	Peak
2	5650.00	35.14	4.58	34.27	43.56	49.01	68.20	19.19	Peak
3	5700.00	35.10	4.59	34.26	53.33	58.76	105.20	46.44	Peak
4	5720.00	35.07	4.60	34.25	58.17	63.59	110.80	47.21	Peak
5	5725.00	35.07	4.60	34.25	54.85	60.27	122.80	62.53	Peak
6	5747.50	35.05	4.61	34.25	87.89	93.30	-----	-----	Peak

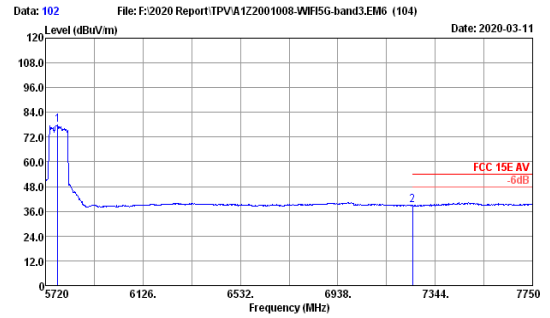
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104)
 Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5803.23	34.95	4.63	34.24	86.00	93.34	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	53.32	58.59	122.20	63.61	Peak
3	5855.00	34.80	4.65	34.23	50.69	55.91	110.80	54.89	Peak
4	5875.00	34.75	4.66	34.22	46.60	51.79	105.20	53.41	Peak
5	5925.00	34.70	4.68	34.21	45.91	51.08	68.20	17.12	Peak
6	7250.00	36.25	5.12	34.55	44.05	50.87	68.20	17.33	Peak

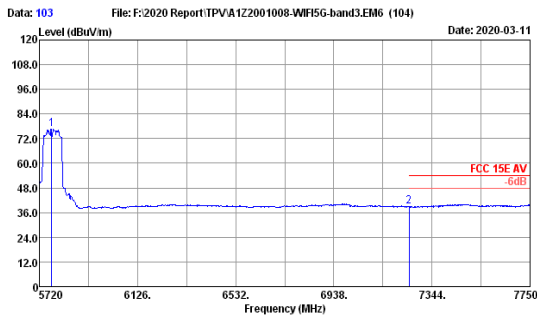
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104)
 Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5770.75	35.02	4.62	34.24	72.67	78.07	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.16	38.98	54.00	15.02	Average

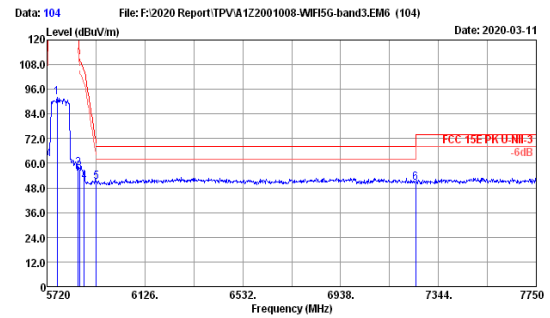
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Date: 2020-03-11
 File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104)
 Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5770.75	35.02	4.62	34.24	71.35	76.75	-----	-----	Average
2	7250.00	36.25	5.12	34.55	32.01	38.83	54.00	15.17	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.



Date: 2020-03-11
 File: F:\2020 Report\TPVA122001008-WIFI5G-band3.EM6 (104)
 Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Garry
 EUT :
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5762.63	35.03	4.61	34.25	86.88	92.27	-----	-----	Peak
2	5850.00	34.85	4.65	34.23	52.36	57.63	122.20	64.57	Peak
3	5855.00	34.80	4.65	34.23	50.39	55.61	110.80	55.19	Peak
4	5875.00	34.75	4.66	34.22	45.85	51.04	105.20	54.16	Peak
5	5925.00	34.70	4.68	34.21	45.80	50.77	68.20	17.43	Peak
6	7250.00	36.25	5.12	34.55	43.79	50.55	68.20	17.65	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.