

FCC Test Report

Report No.: RFBARR-WTW-P21060023F

FCC ID: RAS-MT7922A12L

Test Model: MT7922A12L

Received Date: Mar. 16, 2022

Test Date: Mar. 17 ~ Mar. 28, 2022

Issued Date: Apr. 06, 2022

Applicant: MediaTek Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Table of Contents

Release Control Record	4
1 Certificate of Conformity.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information.....	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	10
3.2.1 Test Mode Applicability and Tested Channel Detail	11
3.3 Duty Cycle of Test Signal	13
3.4 Description of Support Units	13
3.4.1 Configuration of System under Test	14
3.5 General Description of Applied Standard	15
4 Test Types and Results	16
4.1 Radiated Emission and Bandedge Measurement.....	16
4.1.1 Limits of Radiated Emission and Bandedge Measurement	16
4.1.2 Test Instruments	17
4.1.3 Test Procedure	18
4.1.4 Test Setup.....	19
4.1.5 EUT Operating Condition	20
4.1.6 Test Results	21
4.2 In-Band Emission (Mask) Measurement	35
4.2.1 Limits of In-Band Emission (Mask) Measurement.....	35
4.2.2 Test Setup.....	35
4.2.3 Test Instruments	35
4.2.4 Test Procedure	36
4.2.5 EUT Operating Condition	36
4.2.6 Test Results	37
4.3 Conducted Emission Measurement	39
4.3.1 Limits of Conducted Emission Measurement	39
4.3.2 Test Instruments	39
4.3.3 Test Procedure	40
4.3.4 Test Setup.....	40
4.3.5 EUT Operating Condition	40
4.3.6 Test Results	41
4.4 Transmit Power Measurement	43
4.4.1 Limits of Transmit Power Measurement	43
4.4.2 Test Setup.....	43
4.4.3 Test Instruments	43
4.4.4 Test Procedure	43
4.4.5 EUT Operating Condition	43
4.4.6 Test Result.....	44
4.5 Emission Bandwidth Measurement.....	45
4.5.1 Test Setup.....	45
4.5.2 Test Instruments	45
4.5.3 Test Procedure	45
4.5.4 Test Results	46
4.6 Peak Power Spectral Density Measurement	48
4.6.1 Limits of Peak Power Spectral Density Measurement	48
4.6.2 Test Setup.....	48
4.6.3 Test Instruments	48
4.6.4 Test Procedure	48
4.6.5 EUT Operating Condition	48

4.6.6	Test Results	49
4.7	Frequency Stability Measurement.....	50
4.7.1	Limits of Frequency Stability Measurement	50
4.7.2	Test Setup.....	50
4.7.3	Test Instruments	50
4.7.4	Test Procedure	50
4.7.5	EUT Operating Condition	50
4.7.6	Test Results	51
4.8	Operational Restrictions for 6 GHz U-NII Devices	52
4.8.1	Limits of Operational Restrictions for 6 GHz U-NII Devices.....	52
4.8.2	Test Setup.....	52
4.8.3	Test Instruments	52
4.8.4	Test Procedure	52
4.8.5	Test Results	52
5	Pictures of Test Arrangements.....	53
	Annex A - Band-Edge Measurement.....	54
	Appendix A– Information of the Testing Laboratories.....	55

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21060023F	Original release.	Apr. 06, 2022

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A12L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: Mar. 17 ~ Mar. 28, 2022

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu, **Date:** Apr. 06, 2022
Gina Liu / Specialist

Approved by : Jeremy Lin, **Date:** Apr. 06, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -12.88dB at 0.43370MHz.
15.407(b)(6)(9)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -2.70dB at 7125.00MHz.
15.407(b)(7)	In-Band Emission (Mask)	Pass	Meet the requirement of limit.
15.407(a)(6)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(6)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407 (d)(6)	Contention-based Protocol.	N/A	Refer to original report
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(a)(7)(8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	Pass	Declaration by applicant
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

N/A: Not applicable

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A12L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps
Operating Frequency	5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	802.11a: 59
Output Power	5.955 ~ 6.415GHz: 4.989 mW (EIRP: 11.74 dBm / 14.928 mW) 6.435 ~ 6.525GHz: 5.662 mW (EIRP: 11.82 dBm / 15.205 mW) 6.525 ~ 6.855GHz: 5.794 mW (EIRP: 11.72 dBm / 14.859 mW) 6.875 ~ 7.115GHz: 5.754 mW (EIRP: 11.69 dBm / 14.757 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no. RFBARR-WTW-P21060023B-2. The differences between them are as below information. Therefore the EUT is re-tested in this report.

◆ Enable WiFi 6E 802.11a SISO mode through software change.

2. There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antennas provided to the EUT, please refer to the following table:

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
3	Chain0	MSI	WA-P-LE-02-045	2.24 2.68 3.01 -1.23 -1.96 -3.68	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX-4L	190
	Chain1	MSI	WA-P-LE-02-046	-2.96 1.16 0.99 -2.31 -2.54 -7.44	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX-4L	325
4	Chain0	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320
	Chain1	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX	320
5	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX	300
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	IPEX	300

Note: Max. gain was selected for the final test.

2. The EUT incorporates a MIMO function:

6GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX	1RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/1992)	2TX	2RX

Note: For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Description of Test Modes

FOR 5925 ~ 6425MHz (U-NII-5 band)

24 channels are provided for 802.11a:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

FOR 6425 ~ 6525MHz (U-NII-6 band)

5 channels are provided for 802.11a:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

FOR 6525 ~ 6875MHz (U-NII-7 band)

18 channels are provided for 802.11a:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

FOR 6875 ~ 7125MHz (U-NII-8 band):

12 channels are provided for 802.11a:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

Note: * mean this's straddle channel.

3.3.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To						Description
	RE $\geq$ 1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	√	√	√	-	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz
PLC: Power Line Conducted Emission
IBE: In-Band Emission (MASK)
RE<1G: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement
CBP:Contention Based Protocol

Note: The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission Measurement (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s

Radiated Emission Measurement (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415 6435-6525 6525-6855 6875-7115	7 to 87 103 to 119 119 to 167 183 to 215	185	OFDM	BPSK	MCS0

In-Band Emission (MASK) Measurement:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s

Power Line Conducted Emission Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415 6435-6525 6525-6855 6875-7115	7 to 87 103 to 119 119 to 183 183 to 215	185	OFDM	BPSK	MCS0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s

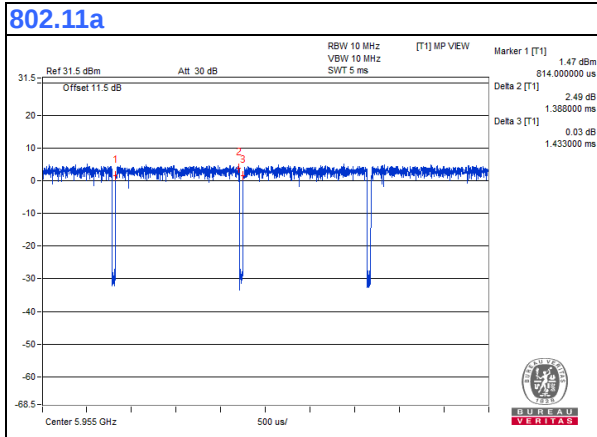
Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	22deg. C, 68%RH	120Vac, 60Hz	Greg Lin
RE<1G	22deg. C, 68%RH	120Vac, 60Hz	Greg Lin
PLC	19deg. C, 76%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jisyong Wang

3.4 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 1.388 ms/1.433 ms= 0.969, Duty factor = $10 \cdot \log(1/ \text{Duty cycle}) = 0.14 \text{ dB}$



3.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5520	8Y4DMQ1	FCC DoC Approved	Provided by Lab
B.	Test Tool	MediaTek	MTK1849	NA	NA	Supplied by client
C.	Adapter	DELL	LA65NS2-01	NA	NA	Provided by Lab

Note:

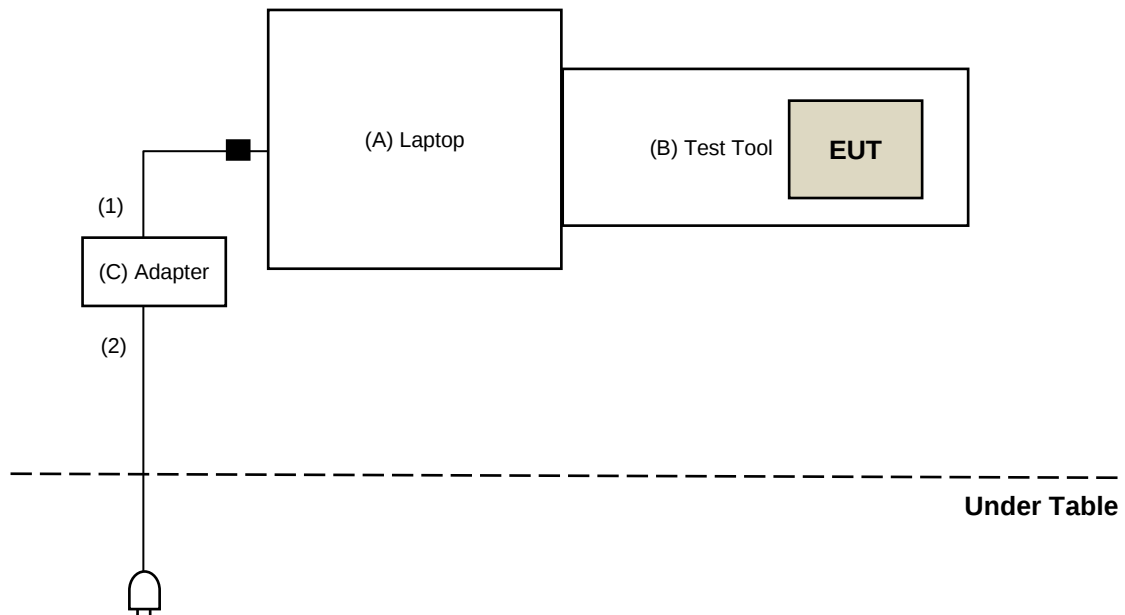
1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	1	Provided by Lab
2.	AC Cable	1	1.8	No	0	Provided by Lab

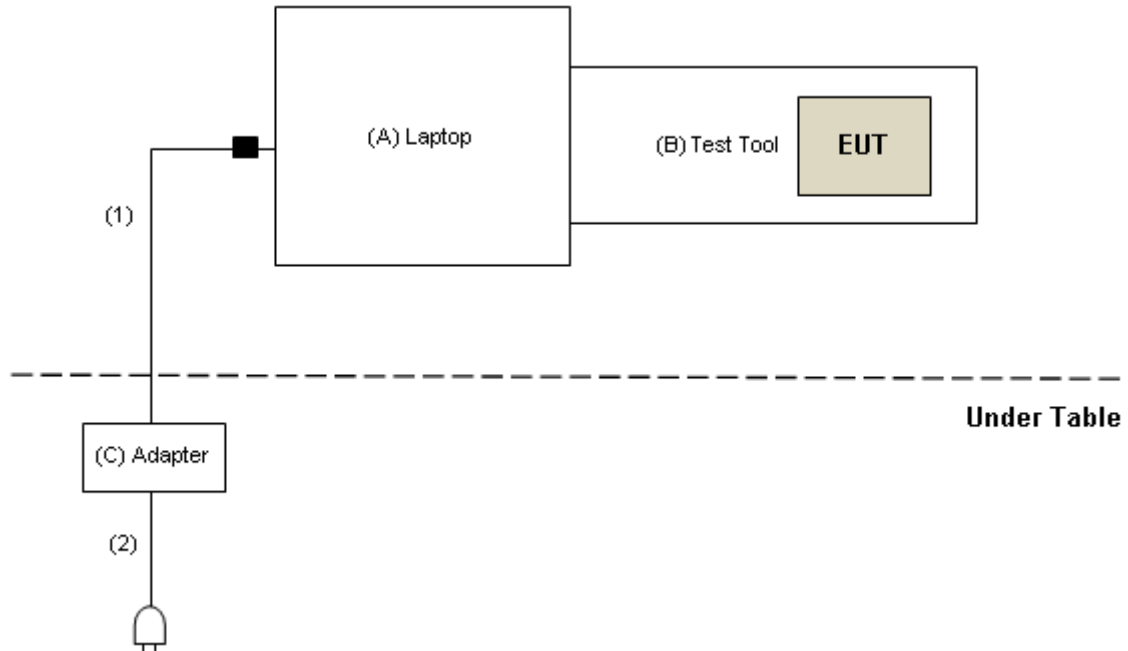
Note: The core(s) is(are) originally attached to the cable(s).

3.5.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emissions test:



3.6 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 10, 2021	Jun. 09, 2022
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 05, 2021	Jun. 04, 2022
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 16, 2022	Feb. 15, 2023
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9- (250795/4)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.

4.1.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

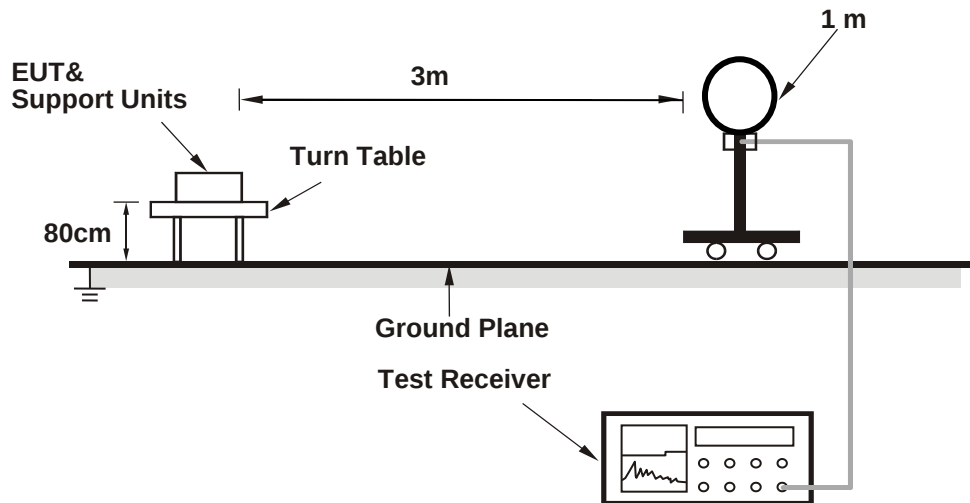
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

Note:

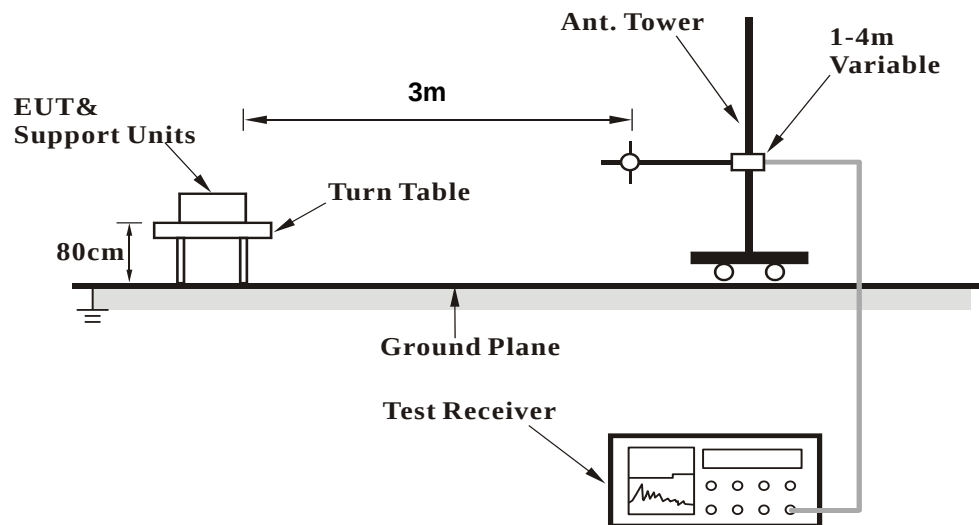
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average measurement (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Test Setup

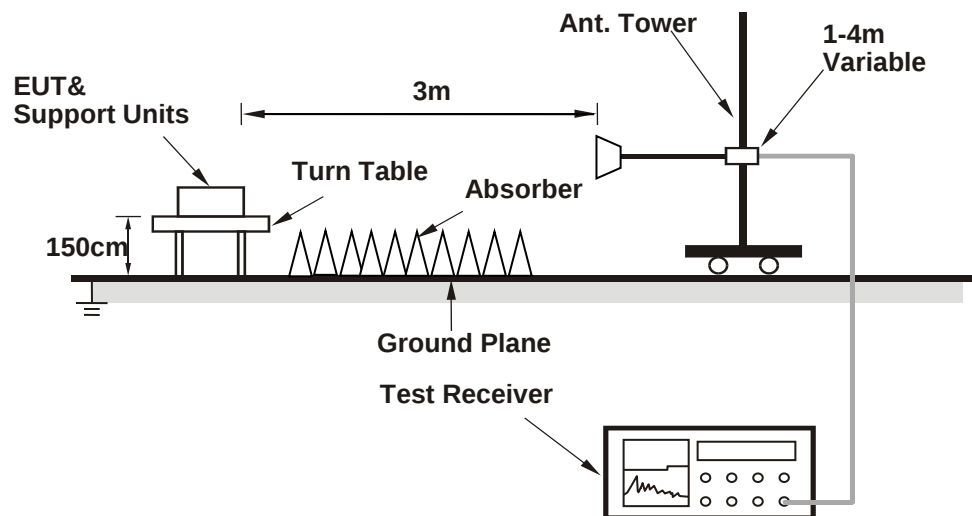
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.5 EUT Operating Condition

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (MT7915 QA 0.0..15) has been activated to set the EUT under transmission condition continuously.

4.1.6 Test Results

Above 1GHz Data:

RF Mode	TX 802.11a 6G	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.7 PK	88.2	-28.5	2.80 H	333	52.6	7.1
2	#5925.00	46.0 AV	68.2	-22.2	2.80 H	333	38.9	7.1
3	*5955.00	104.5 PK			2.80 H	333	63.4	41.1
4	*5955.00	94.3 AV			2.80 H	333	53.2	41.1
5	11910.00	58.6 PK	74.0	-15.4	2.23 H	107	42.0	16.6
6	11910.00	45.7 AV	54.0	-8.3	2.23 H	107	29.1	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.5 PK	88.2	-28.7	1.55 V	334	52.4	7.1
2	#5925.00	45.8 AV	68.2	-22.4	1.55 V	334	38.7	7.1
3	*5955.00	102.1 PK			1.55 V	334	61.0	41.1
4	*5955.00	91.8 AV			1.55 V	334	50.7	41.1
5	11910.00	58.0 PK	74.0	-16.0	1.43 V	27	41.4	16.6
6	11910.00	45.2 AV	54.0	-8.8	1.43 V	27	28.6	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	105.6 PK			2.72 H	341	63.6	42.0
2	*6175.00	95.3 AV			2.72 H	341	53.3	42.0
3	12350.00	59.1 PK	74.0	-14.9	2.23 H	105	42.4	16.7
4	12350.00	45.8 AV	54.0	-8.2	2.23 H	105	29.1	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	102.5 PK			1.53 V	327	60.5	42.0
2	*6175.00	92.4 AV			1.53 V	327	50.4	42.0
3	12350.00	58.2 PK	74.0	-15.8	1.37 V	32	41.5	16.7
4	12350.00	45.3 AV	54.0	-8.7	1.37 V	32	28.6	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a 6G	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	106.5 PK			2.84 H	339	63.5	43.0
2	*6415.00	96.2 AV			2.84 H	339	53.2	43.0
3	#12830.00	59.8 PK	88.2	-28.4	2.17 H	113	42.1	17.7
4	#12830.00	46.6 AV	68.2	-21.6	2.17 H	113	28.9	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	103.7 PK			1.57 V	331	60.7	43.0
2	*6415.00	93.5 AV			1.57 V	331	50.5	43.0
3	#12830.00	59.0 PK	88.2	-29.2	1.33 V	35	41.3	17.7
4	#12830.00	46.2 AV	68.2	-22.0	1.33 V	35	28.5	17.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	107.2 PK			2.93 H	329	63.9	43.3
2	*6435.00	97.2 AV			2.93 H	329	53.9	43.3
3	#12870.00	60.0 PK	88.2	-28.2	2.28 H	109	42.3	17.7
4	#12870.00	46.8 AV	68.2	-21.4	2.28 H	109	29.1	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	104.6 PK			1.43 V	328	61.3	43.3
2	*6435.00	94.5 AV			1.43 V	328	51.2	43.3
3	#12870.00	58.9 PK	88.2	-29.3	1.35 V	29	41.2	17.7
4	#12870.00	46.1 AV	68.2	-22.1	1.35 V	29	28.4	17.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	107.7 PK			2.87 H	336	64.4	43.3
2	*6475.00	97.5 AV			2.87 H	336	54.2	43.3
3	#12950.00	60.0 PK	88.2	-28.2	2.16 H	114	42.0	18.0
4	#12950.00	46.8 AV	68.2	-21.4	2.16 H	114	28.8	18.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	104.8 PK			1.54 V	339	61.5	43.3
2	*6475.00	94.6 AV			1.54 V	339	51.3	43.3
3	#12950.00	59.3 PK	88.2	-28.9	1.28 V	24	41.3	18.0
4	#12950.00	46.4 AV	68.2	-21.8	1.28 V	24	28.4	18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	107.1 PK			2.73 H	331	63.9	43.2
2	*6515.00	96.9 AV			2.73 H	331	53.7	43.2
3	#13030.00	60.3 PK	88.2	-27.9	2.13 H	112	42.2	18.1
4	#13030.00	47.2 AV	68.2	-21.0	2.13 H	112	29.1	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	104.2 PK			1.55 V	326	61.0	43.2
2	*6515.00	94.1 AV			1.55 V	326	50.9	43.2
3	#13030.00	59.3 PK	88.2	-28.9	1.29 V	34	41.2	18.1
4	#13030.00	46.4 AV	68.2	-21.8	1.29 V	34	28.3	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	106.2 PK			2.79 H	336	63.1	43.1
2	*6535.00	96.0 AV			2.79 H	336	52.9	43.1
3	#13070.00	60.2 PK	88.2	-28.0	2.13 H	117	42.1	18.1
4	#13070.00	46.9 AV	68.2	-21.3	2.13 H	117	28.8	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	103.4 PK			1.63 V	323	60.3	43.1
2	*6535.00	93.2 AV			1.63 V	323	50.1	43.1
3	#13070.00	59.3 PK	88.2	-28.9	1.36 V	28	41.2	18.1
4	#13070.00	46.4 AV	68.2	-21.8	1.36 V	28	28.3	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 153 : 6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	107.3 PK			2.74 H	332	63.6	43.7
2	*6715.00	97.1 AV			2.74 H	332	53.4	43.7
3	#13430.00	61.5 PK	88.2	-26.7	2.28 H	103	42.2	19.3
4	#13430.00	48.4 AV	68.2	-19.8	2.28 H	103	29.1	19.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	104.5 PK			1.54 V	343	60.8	43.7
2	*6715.00	94.4 AV			1.54 V	343	50.7	43.7
3	#13430.00	60.5 PK	88.2	-27.7	1.37 V	38	41.2	19.3
4	#13430.00	47.5 AV	68.2	-20.7	1.37 V	38	28.2	19.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	107.2 PK			2.81 H	331	62.9	44.3
2	*6855.00	97.1 AV			2.81 H	331	52.8	44.3
3	#13710.00	61.6 PK	88.2	-26.6	2.17 H	105	42.1	19.5
4	#13710.00	48.4 AV	68.2	-19.8	2.17 H	105	28.9	19.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	104.4 PK			1.46 V	335	60.1	44.3
2	*6855.00	94.2 AV			1.46 V	335	49.9	44.3
3	#13710.00	60.7 PK	88.2	-27.5	1.41 V	28	41.2	19.5
4	#13710.00	47.8 AV	68.2	-20.4	1.41 V	28	28.3	19.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	106.1 PK			2.83 H	331	62.0	44.1
2	*6875.00	95.9 AV			2.83 H	331	51.8	44.1
3	#13750.00	61.7 PK	88.2	-26.5	2.25 H	106	42.0	19.7
4	#13750.00	48.4 AV	68.2	-19.8	2.25 H	106	28.7	19.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	100.6 PK			1.48 V	327	56.5	44.1
2	*6875.00	90.4 AV			1.48 V	327	46.3	44.1
3	#13750.00	60.8 PK	88.2	-27.4	1.23 V	43	41.1	19.7
4	#13750.00	47.8 AV	68.2	-20.4	1.23 V	43	28.1	19.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	107.3 PK			2.79 H	337	62.4	44.9
2	*7015.00	97.1 AV			2.79 H	337	52.2	44.9
3	#14030.00	63.1 PK	88.2	-25.1	2.15 H	104	42.2	20.9
4	#14030.00	50.0 AV	68.2	-18.2	2.15 H	104	29.1	20.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	104.8 PK			1.64 V	338	59.9	44.9
2	*7015.00	94.6 AV			1.64 V	338	49.7	44.9
3	#14030.00	62.0 PK	88.2	-26.2	1.36 V	32	41.1	20.9
4	#14030.00	48.9 AV	68.2	-19.3	1.36 V	32	28.0	20.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	107.9 PK			2.51 H	326	62.2	45.7
2	*7115.00	97.6 AV			2.51 H	326	51.9	45.7
3	#7125.00	85.5 PK	88.2	-2.7	2.51 H	326	74.6	10.9
4	#7125.00	57.4 AV	68.2	-10.8	2.51 H	326	46.5	10.9
5	#14230.00	63.2 PK	88.2	-25.0	2.37 H	94	41.9	21.3
6	#14230.00	50.0 AV	68.2	-18.2	2.37 H	94	28.7	21.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	105.3 PK			1.59 V	323	59.6	45.7
2	*7115.00	95.1 AV			1.59 V	323	49.4	45.7
3	#7125.00	83.0 PK	88.2	-5.2	1.59 V	323	72.1	10.9
4	#7125.00	56.2 AV	68.2	-12.0	1.59 V	323	45.3	10.9
5	#14230.00	62.3 PK	88.2	-25.9	1.26 V	33	41.0	21.3
6	#14230.00	49.1 AV	68.2	-19.1	1.26 V	33	27.8	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

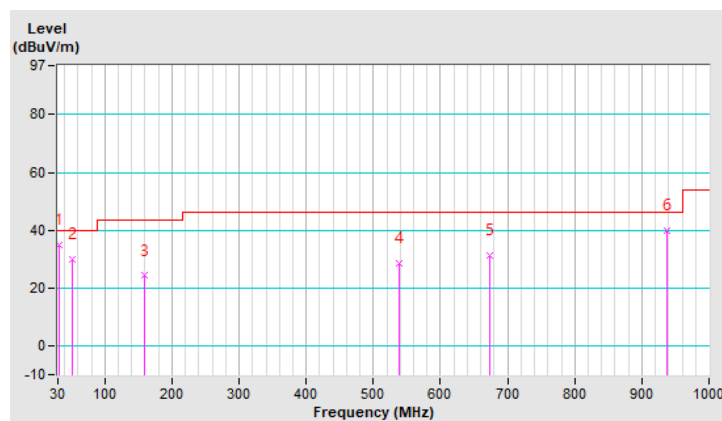
Below 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 185 : 6875 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.41	35.0 QP	40.0	-5.0	1.49 H	319	45.6	-10.6
2	51.09	29.8 QP	40.0	-10.2	1.49 H	17	38.8	-9.0
3	159.33	24.2 QP	43.5	-19.3	1.49 H	17	32.8	-8.6
4	538.90	28.4 QP	46.0	-17.6	1.49 H	208	30.2	-1.8
5	673.86	31.4 QP	46.0	-14.6	1.00 H	3	30.9	0.5
6	938.14	39.8 QP	46.0	-6.2	2.00 H	166	33.7	6.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

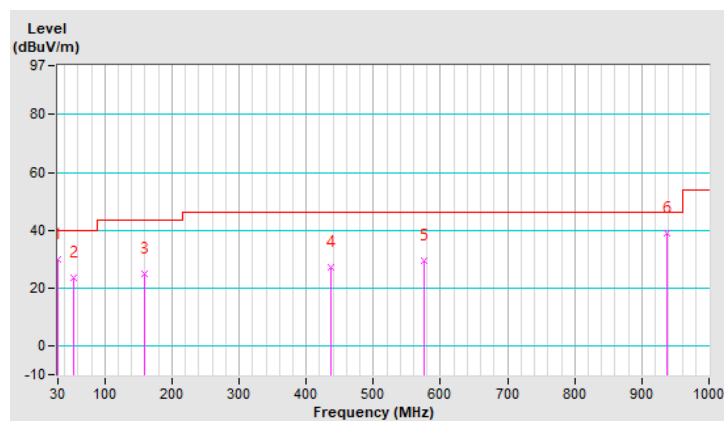


RF Mode	TX 802.11a	Channel	CH 185 : 6875 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	30.0 QP	40.0	-10.0	2.00 V	83	40.2	-10.2
2	53.90	23.6 QP	40.0	-16.4	1.01 V	4	32.8	-9.2
3	159.33	24.9 QP	43.5	-18.6	1.51 V	10	33.5	-8.6
4	436.28	27.3 QP	46.0	-18.7	1.01 V	8	31.0	-3.7
5	575.45	29.4 QP	46.0	-16.6	1.51 V	286	30.4	-1.0
6	938.14	38.8 QP	46.0	-7.2	2.00 V	169	32.7	6.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Band Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

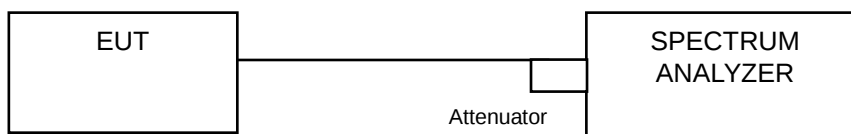
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1} :The power spectral density must be suppressed by “x” dB

^{*2} : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

^{*3} : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

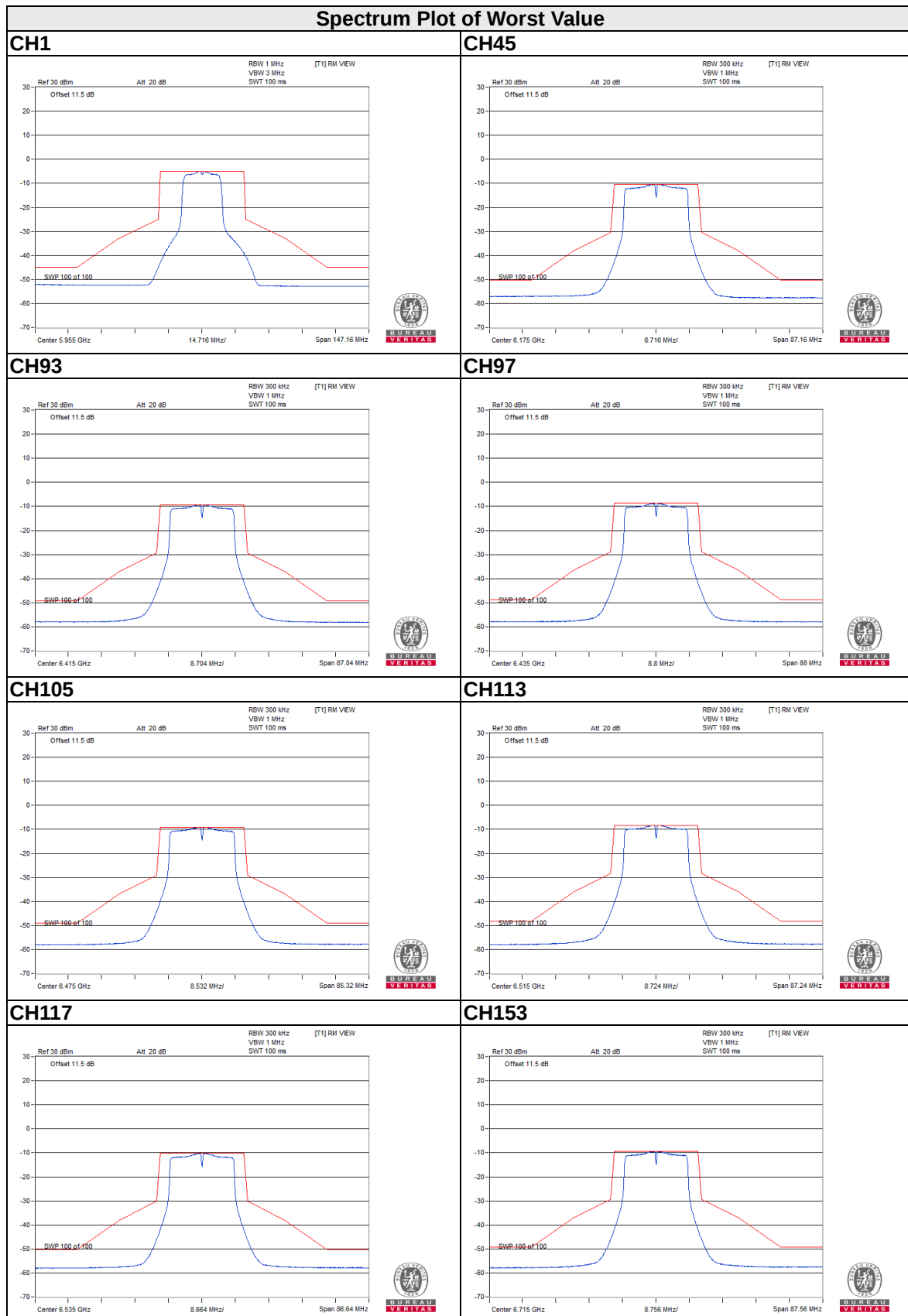
- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

4.2.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

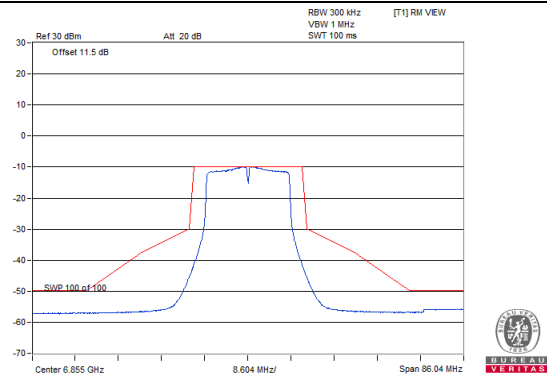
4.2.6 Test Results

802.11a

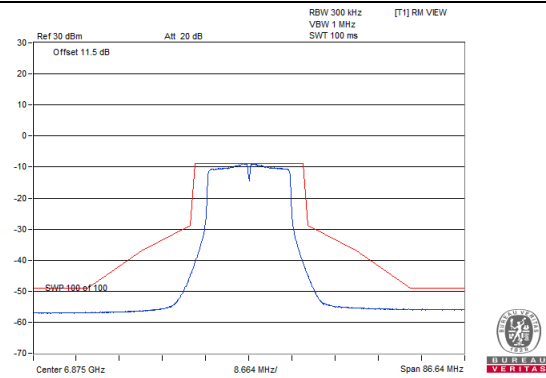


Spectrum Plot of Worst Value

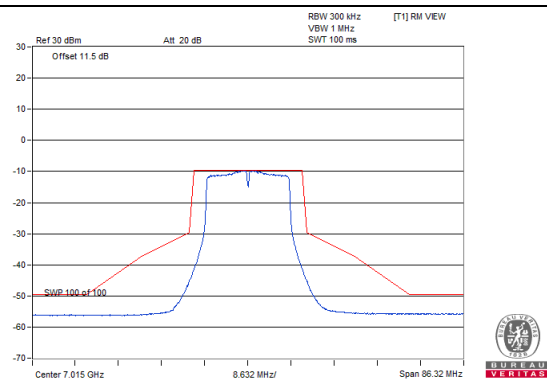
CH181



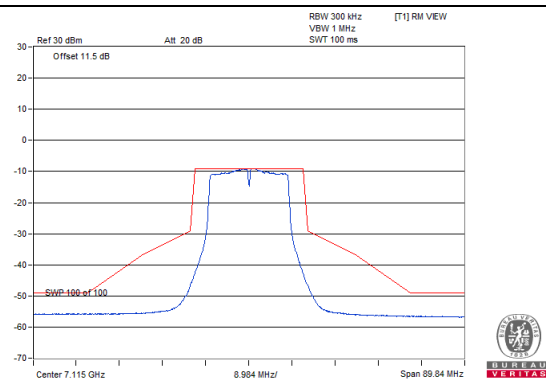
CH185



CH213



CH233



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 03, 2021	Dec. 02, 2022
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 15, 2022	Jan. 14, 2023
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	Mar. 14, 2022	Mar. 13, 2023
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 07, 2021	Sep. 06, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).

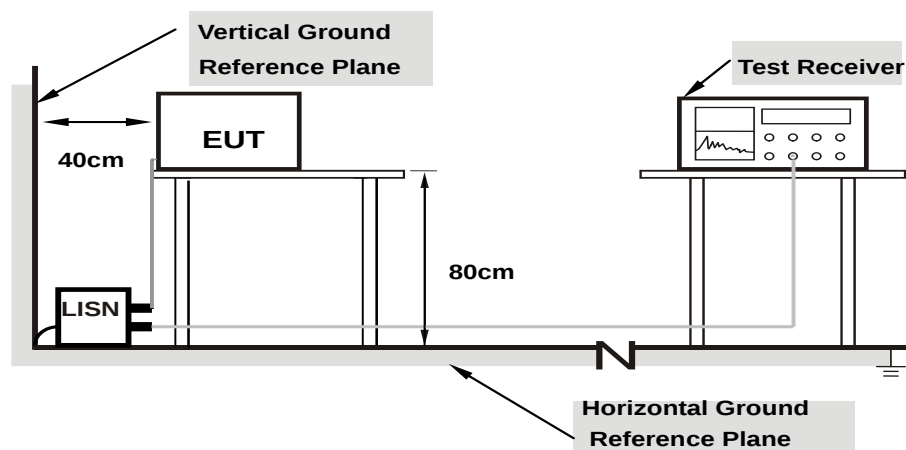
3. The VCCI Site Registration No. is C-12040.

4.3.3 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.3.5 EUT Operating Condition

Same as 4.1.6.

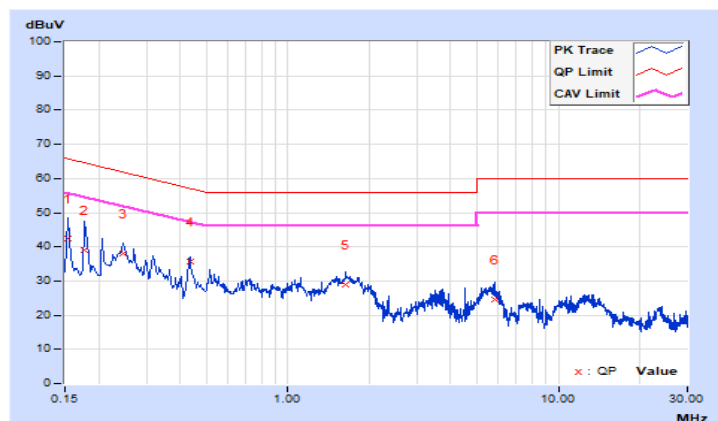
4.3.6 Test Results

RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.62	32.94	19.44	42.56	29.06	65.78	55.78	-23.22	-26.72
2	0.17800	9.63	29.42	17.68	39.05	27.31	64.58	54.58	-25.53	-27.27
3	0.24600	9.65	28.34	22.79	37.99	32.44	61.89	51.89	-23.90	-19.45
4	0.43370	9.69	25.97	24.61	35.66	34.30	57.18	47.18	-21.52	-12.88
5	1.63400	9.71	19.17	15.72	28.88	25.43	56.00	46.00	-27.12	-20.57
6	5.80200	9.77	14.92	10.40	24.69	20.17	60.00	50.00	-35.31	-29.83

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

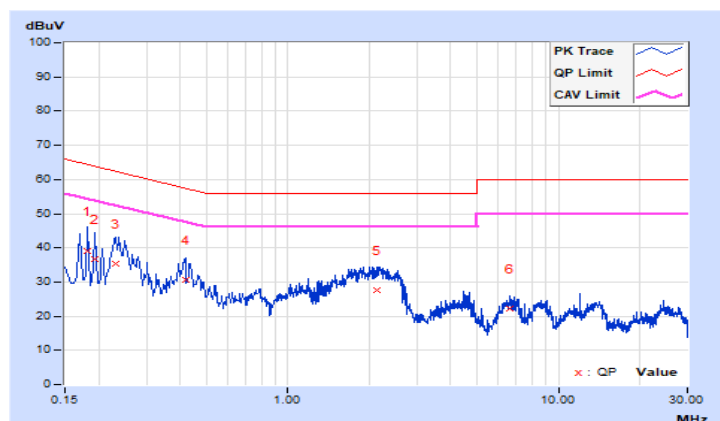


RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18200	9.63	29.44	11.93	39.07	21.56	64.39	54.39	-25.32	-32.83
2	0.19400	9.64	27.02	12.02	36.66	21.66	63.86	53.86	-27.20	-32.20
3	0.22985	9.65	25.69	19.96	35.34	29.61	62.46	52.46	-27.12	-22.85
4	0.41799	9.69	20.95	17.83	30.64	27.52	57.49	47.49	-26.85	-19.97
5	2.12600	9.73	17.78	12.72	27.51	22.45	56.00	46.00	-28.49	-23.55
6	6.59800	9.78	12.41	8.24	22.19	18.02	60.00	50.00	-37.81	-31.98

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	EIRP 24 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

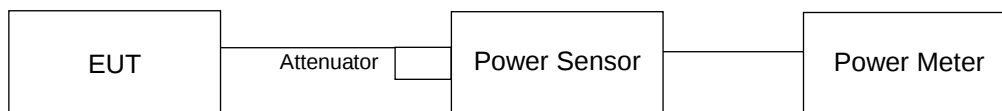
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup

FOR POWER OUTPUT MEASUREMENT



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Result

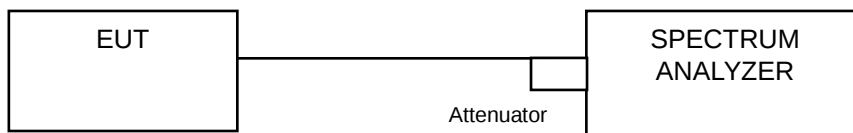
Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)	Average Power (mW)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
1	5955	6.98	4.989	4.76	14.928	11.74	24	Pass
45	6175	6.92	4.920	4.76	14.723	11.68	24	Pass
93	6415	6.91	4.909	4.76	14.689	11.67	24	Pass
97	6435	7.50	5.623	4.29	15.101	11.79	24	Pass
105	6475	7.53	5.662	4.29	15.205	11.82	24	Pass
113	6515	7.48	5.598	4.29	15.031	11.77	24	Pass
117	6535	7.06	5.082	4.61	14.689	11.67	24	Pass
153	6715	7.01	5.023	4.61	14.521	11.62	24	Pass
181	6855	7.06	5.082	4.61	14.689	11.67	24	Pass
185	6875	7.63	5.794	4.09	14.859	11.72	24	Pass
213	7015	7.60	5.754	4.09	14.757	11.69	24	Pass
233	7115	7.58	5.728	4.09	14.689	11.67	24	Pass

4.5 Emission Bandwidth Measurement

4.5.1 Test Setup



4.5.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.3 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

FOR 26dB BANDWIDTH

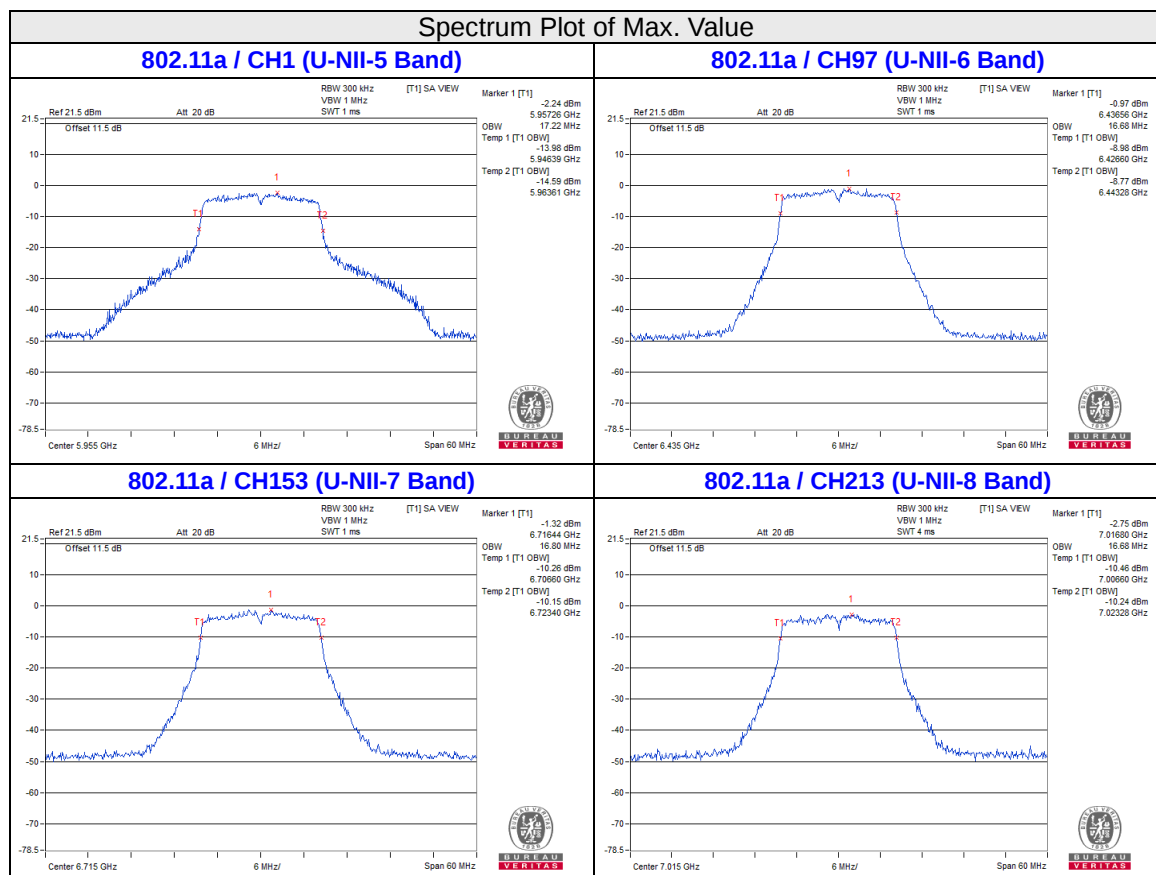
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.5.4 Test Results

99% Occupied Bandwidth:

802.11a

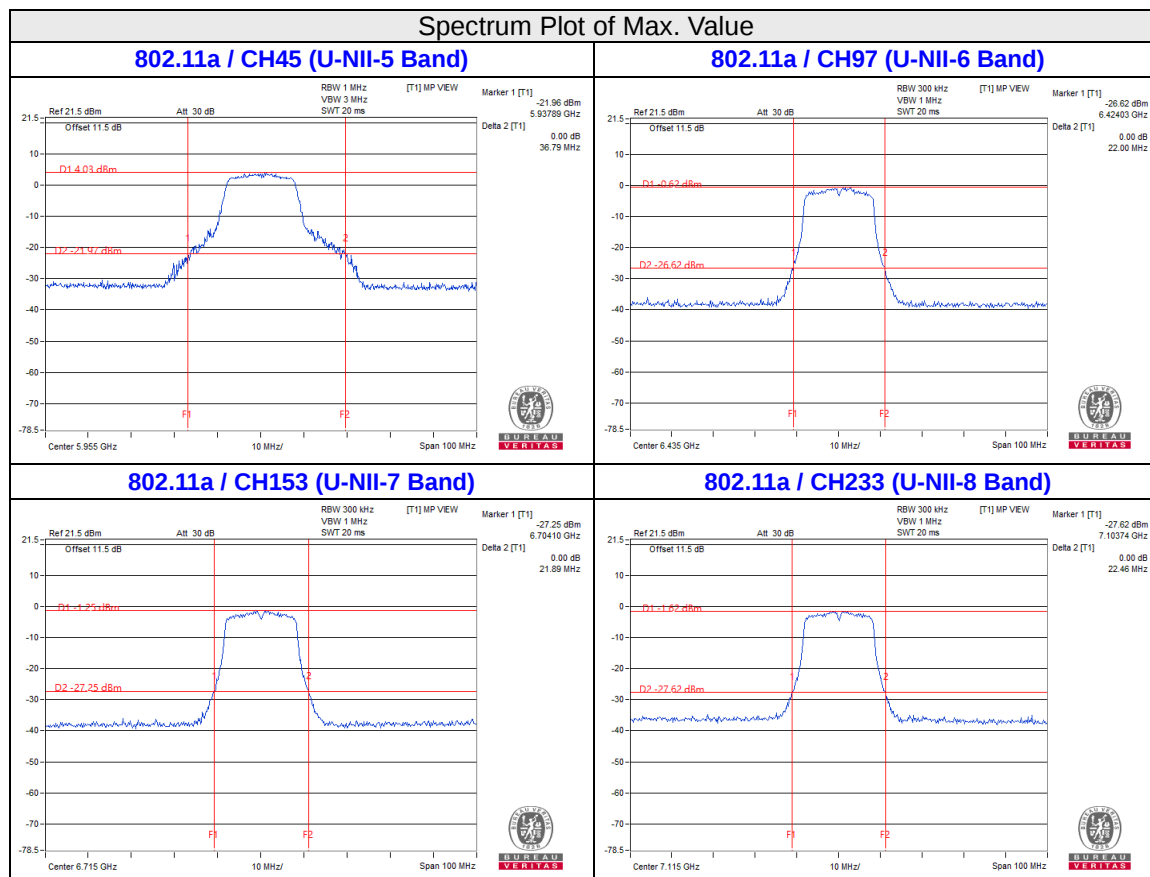
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
1	5955	17.22	320
45	6175	16.68	320
93	6415	16.68	320
97	6435	16.68	320
105	6475	16.68	320
113	6515	16.68	320
117	6535	16.68	320
153	6715	16.80	320
181	6855	16.80	320
185	6875	16.68	320
213	7015	16.68	320
233	7115	16.68	320



26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
1	5955	36.79	320
45	6175	21.79	320
93	6415	21.76	320
97	6435	22.00	320
105	6475	21.33	320
113	6515	21.81	320
117	6535	21.66	320
153	6715	21.89	320
181	6855	21.51	320
185	6875	21.66	320
213	7015	21.58	320
233	7115	22.46	320

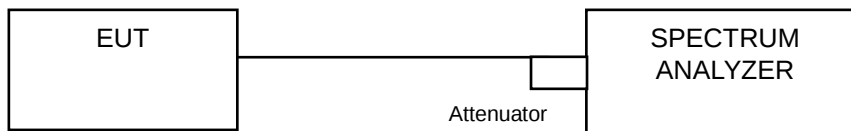


4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	-1 dBm/MHz

4.6.2 Test Setup For Conducted Method



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz
- Sweep time = auto, trigger set to "free run".
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

4.6.5 EUT Operating Condition

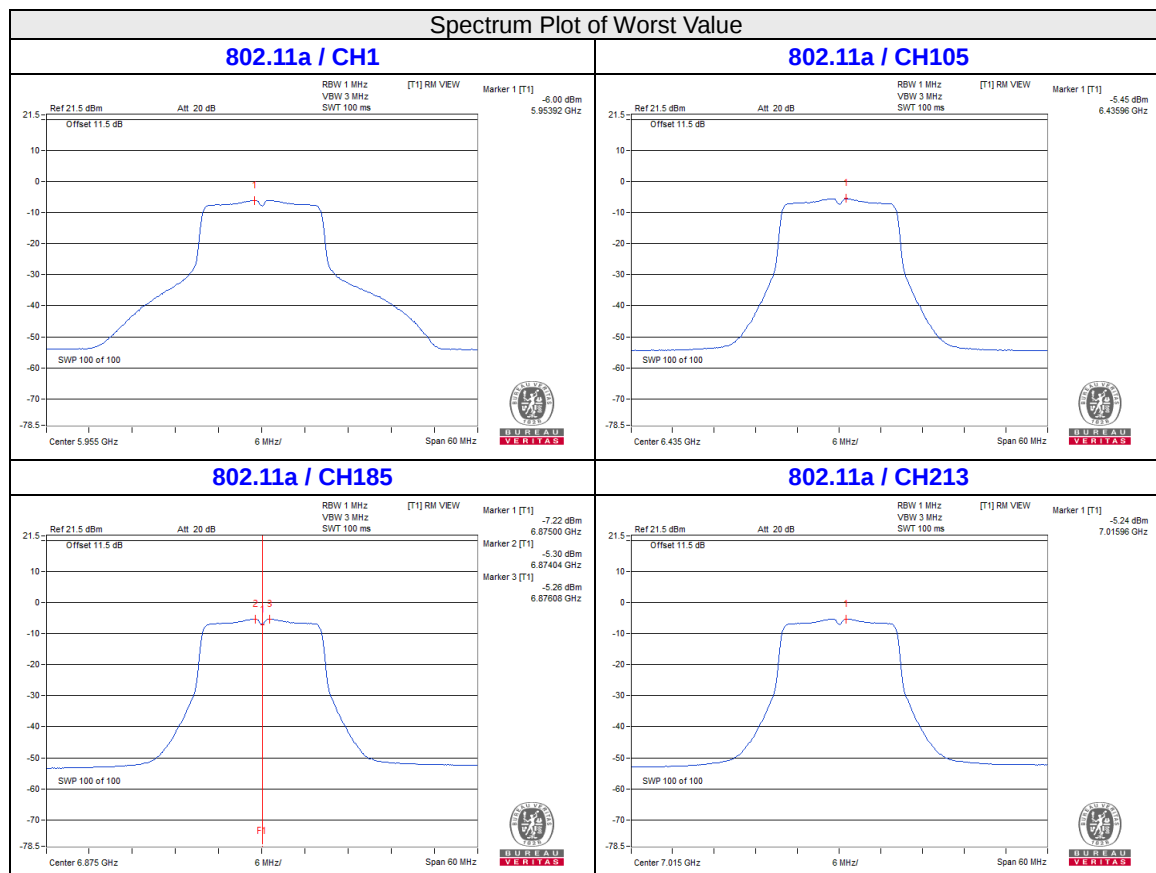
Same as Item 4.3.6.

4.6.6 Test Results

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
1	5955	-6.00	0.14	-5.86	4.76	-1.10	-1.00	Pass
45	6175	-6.00	0.14	-5.86	4.76	-1.10	-1.00	Pass
93	6415	-6.07	0.14	-5.93	4.76	-1.17	-1.00	Pass
97	6435	-5.45	0.14	-5.31	4.29	-1.02	-1.00	Pass
105	6475	-5.45	0.14	-5.31	4.29	-1.02	-1.00	Pass
113	6515	-5.49	0.14	-5.35	4.29	-1.06	-1.00	Pass
117	6535	-5.91	0.14	-5.77	4.61	-1.16	-1.00	Pass
153	6715	-5.96	0.14	-5.82	4.61	-1.21	-1.00	Pass
181	6855	-5.87	0.14	-5.73	4.61	-1.12	-1.00	Pass
185	6875	-5.30	0.14	-5.16	4.09	-1.07	-1.00	Pass
213	7015	-5.24	0.14	-5.10	4.09	-1.01	-1.00	Pass
233	7115	-5.38	0.14	-5.24	4.09	-1.15	-1.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

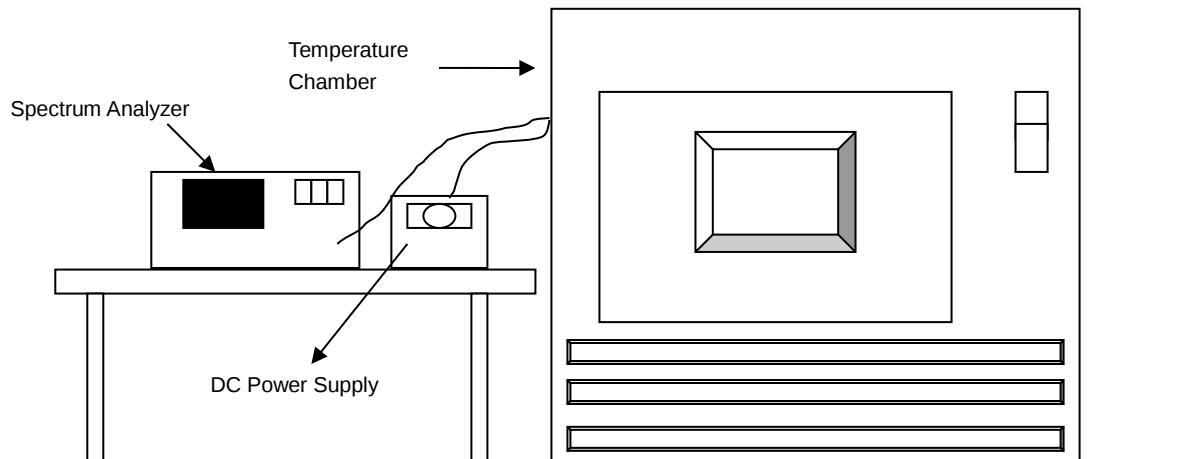


4.7 Frequency Stability Measurement

4.7.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed..
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.7.5 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.7.6 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
70	3.3	5954.9817	PASS	5954.9771	PASS	5954.9768	PASS	5954.982	PASS
60	3.3	5954.9819	PASS	5954.984	PASS	5954.983	PASS	5954.9822	PASS
50	3.3	5955.0125	PASS	5955.0102	PASS	5955.0147	PASS	5955.0097	PASS
40	3.3	5955.0177	PASS	5955.0162	PASS	5955.0177	PASS	5955.0127	PASS
30	3.3	5955.0004	PASS	5955.0004	PASS	5955.0016	PASS	5955.0041	PASS
20	3.3	5954.9946	PASS	5954.9954	PASS	5954.9945	PASS	5954.9924	PASS
10	3.3	5955.0265	PASS	5955.0288	PASS	5955.0278	PASS	5955.0259	PASS
0	3.3	5954.9715	PASS	5954.9695	PASS	5954.9707	PASS	5954.9725	PASS
-10	3.3	5955.0132	PASS	5955.0169	PASS	5955.013	PASS	5955.0136	PASS

Frequency Stability Versus Voltage									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5954.9949	PASS	5954.9944	PASS	5954.9936	PASS	5954.9923	PASS
	3.3	5954.9946	PASS	5954.9954	PASS	5954.9945	PASS	5954.9924	PASS
	2.805	5954.9949	PASS	5954.9962	PASS	5954.9952	PASS	5954.9919	PASS

4.8 Operational Restrictions for 6 GHz U-NII Devices

4.8.1 Limits of Operational Restrictions for 6 GHz U-NII Devices

In the 5.925-7.125 GHz band, client devices, except fixed client devices, must operate under the control of a standard power access point, indoor access point or subordinate devices; Subordinate devices must operate under the control of an indoor access point.

4.8.2 Test Setup

N/A

4.8.3 Test Instruments

N/A

4.8.4 Test Procedure

N/A.

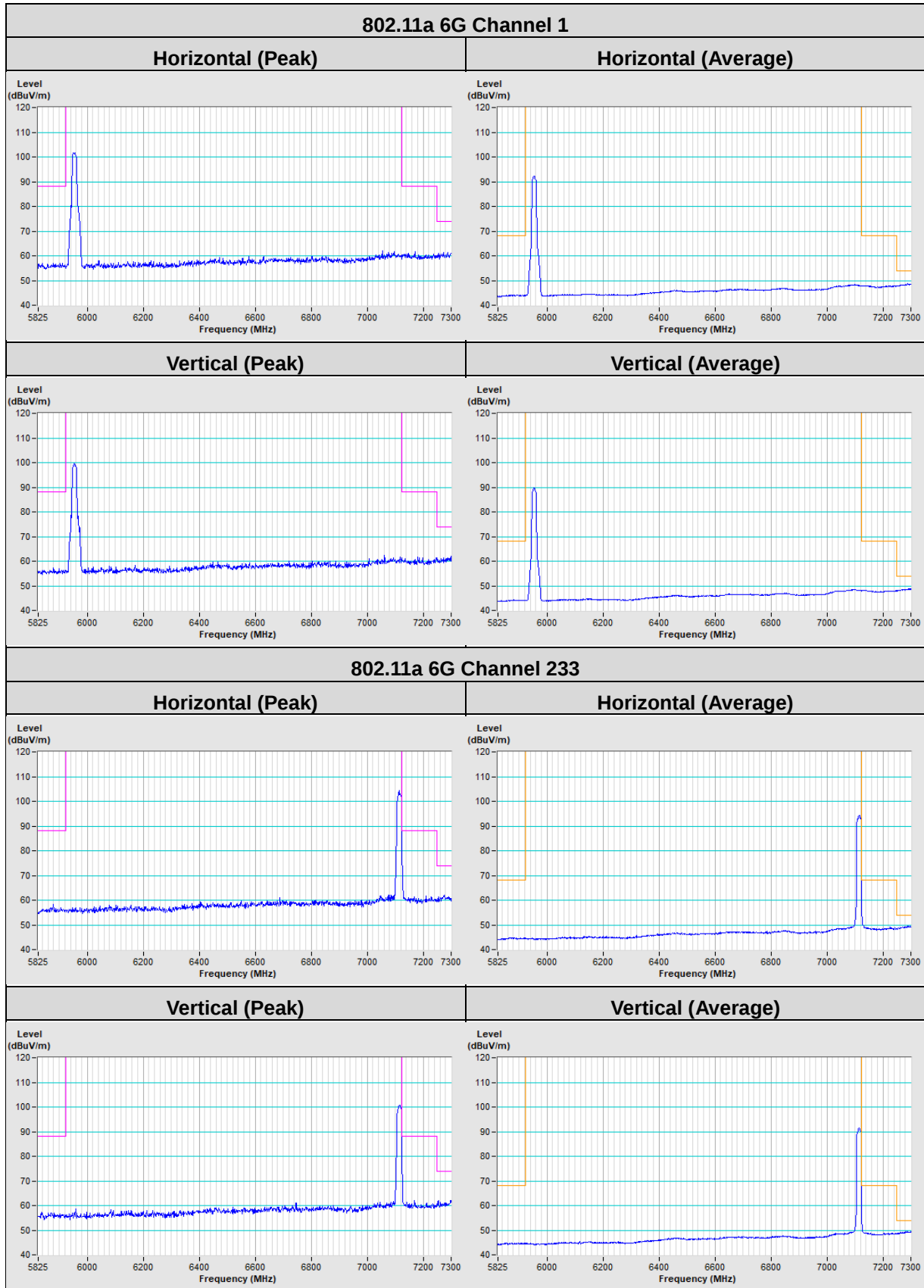
4.8.5 Test Results

Device is an indoor client device under the control of a low power indoor access point. Please refer to the declaration letter exhibit supplied within this application.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement



Appendix A– Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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