FCC Test Report

Report No.:	RFBEMT-WTW-P20080442-1
FCC ID:	K7S-08277
Test Model:	E9450
Series Model:	E8250
Received Date:	Aug. 21, 2020
Test Date:	Sep. 02 to 14, 2020
Issued Date:	Oct. 20, 2020
Applicant:	Belkin International, Inc.
Address:	12045 East Waterfront Drive Playa Vista, CA. 90094, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RFBEMT-WTW-P20080442-1	Original release.	Oct. 20, 2020

1 Certificate of Conformity

Product:	AX5400 DUAL-BAND GIGABIT WiFi 6 ROUTER
Brand:	Linksys
Test Model:	E9450
Series Model:	E8250
Sample Status:	ENGINEERING SAMPLE
Applicant:	Belkin International, Inc.
Test Date:	Sep. 02 to 14, 2020
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 EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** Oct. 20, 2020

Vivian Huang / Specialist

Approved by : , **Date:** Oct. 20, 2020

Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -7.51dB at 0.40000 MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement*	Pass	Meet the requirement of limit. Minimum passing margin is -0.1 dB at 5149.20 MHz, 5725.00 MHz, 5150.00 MHz, 5350.00 MHz, 5470.00 MHz, 17355.00 MHz, 17265.00 MHz and 17475.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. 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	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.5 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.1 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	AX5400 DUAL-BAND GIGABIT WiFi 6 ROUTER
Brand	Linksys
Test Model	E9450
Series Model	E8250
Status of EUT	ENGINEERING SAMPLE
Driver version	5.02L.07p1
Power Supply Rating	12Vdc from power adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS,OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	**2.4GHz:** 2.412 ~ 2.462GHz **5GHz:** 5.18~5.32GHz, 5.50 ~ 5.58GHz & 5.66 ~ 5.72GHz, 5.745 ~ 5.825GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11 802.11n (HT40), VHT40, 802.11ax (HE40): 7 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 22 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 10 802.11ac (VHT80), 802.11ax (HE80): 5 802.11ac (VHT160), 802.11ax (HE160): 1
Output Power	**CDD Mode:** **2.412 ~ 2.462 GHz:** 526.096 mW **5.18 ~ 5.25 GHz:** 827.684 mW **5.25 ~ 5.32GHz:** 204.544 mW **5.50 ~ 5.58GHz & 5.66GHz ~ 5.72GHz:** 198.692 mW **5.745 ~ 5.825 GHz:** 927.009 mW **Beamforming Mode:** **5.18 ~ 5.25 GHz:** 300.596 mW **5.25 ~ 5.32GHz:** 57.597 mW **5.50 ~ 5.58GHz & 5.66GHz ~ 5.72GHz:** 66.971 mW **5.745 ~ 5.825 GHz:** 278.769 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter x1
Data Cable Supplied	RJ45 Cable x1 (Unshielded, 1m)

Note:

1. The EUT has two model names, which are identical to each other in all aspects except for the following information:

Brand Name	Model Name	Difference
Linksys	E9450	For marketing
	E8250	

From the above models, model: E9450 was selected as representative model for the test and its data are recorded in this report.

2. The EUT has below radios as following table:

Radio 1	Radio 2
WLAN 2.4GHz	WLAN 5GHz

3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	WLAN (5GHz)
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

4. The EUT must be supplied one power adapter and following different models could be chosen as following table:

No.	Brand	Model name	Spec	plug
1	APD	WB-24J12R	INPUT: 100-240Vac~50/60Hz 0.6A OUTPUT: 12Vdc 2.0A OUTPUT Cable: Unshielded, 1.5m	US/EU/UK (Detachable)
2	APD	WB-24J12FU	INPUT: 100-240Vac~50/60Hz 0.6A OUTPUT: 12Vdc 2.0A OUTPUT Cable: Unshielded, 1.5m	US
3	Ktec	KSA-24W-120200D5	INPUT: 100-240Vac~50/60Hz 0.6A OUTPUT: 12Vdc 2.0A OUTPUT Cable: Unshielded, 1.5m	US/EU/UK (Detachable)
4	Ktec	KSA-24W-120200HU	INPUT: 100-240Vac~50/60Hz 0.6A OUTPUT: 12Vdc 2.0A OUTPUT Cable: Unshielded, 1.5m	US
Note: 1. From the above models, the worst Radiated Emissions and Conducted Emissions test was found in Adapter 3. Therefore only the test data of the modes were recorded in this report.				

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

Antenna NO.	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
Ant 1_Dual Band	4.79	2.4-2.4835GHz	Dipole	i-pex(MHF)
	4.26	5.15-5.25GHz		
	4.796	5.25-5.35GHz		
	5.58	5.47-5.725GHz		
	5.58	5.725-5.85GHz		
Ant 2_Dual Band	5.15	2.4-2.4835GHz	Dipole	i-pex(MHF)
	5.74	5.15-5.25GHz		
	6.37	5.25-5.35GHz		
	6.87	5.47-5.725GHz		
	6.3	5.725-5.85GHz		
Ant 3_A Band	4.16	5.15-5.25GHz	Dipole	i-pex(MHF)
	4.44	5.25-5.35GHz		
	5.72	5.47-5.725GHz		
	5.82	5.725-5.85GHz		
Ant 3_A Band	4.28	5.15-5.25GHz	Dipole	i-pex(MHF)
	4.67	5.25-5.35GHz		
	4.43	5.47-5.725GHz		
	4.17	5.725-5.85GHz		

6. The EUT incorporates a MIMO function:

2.4GHz Band		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
5GHz Band		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 2.4GHz Band and 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz, 160MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)

7. 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.
8. 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.

3.2 Description of Test Modes

FOR 5180 ~ 5320MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5580 & 5660 ~ 5720MHz

9 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	132	5660 MHz
104	5520 MHz	136	5680 MHz
108	5540 MHz	140	5700 MHz
112	5560 MHz	144	5720 MHz
116	5580 MHz		

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz	142	5710 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

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

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

CDD Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0
802.11a	5500-5580 & 5660-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	106, 138	OFDMA	BPSK	MCS0
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Radiated Emission Test (Below 1GHz):

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

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

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE20)	5180-5320 5500-5580 & 5660-5720 5745-5825	36 to 64 100 to 144 149 to 165	165	OFDMA	BPSK	MCS0

Power Line Conducted Emission Test:

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

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

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ax (HE20)	5180-5320 5500-5580 & 5660-5720 5745-5825	36 to 64 100 to 144 149 to 165	165	OFDMA	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 and antenna ports (if EUT with antenna diversity architecture).

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

CDD Mode						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		38 to 62	38, 46, 54, 62	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		42, 58	42, 58	OFDM	BPSK	MCS0
802.11ac (VHT160) (Output power only)		50	50	OFDM	BPSK	MCS0
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0
802.11a	5500-5580 & 5660-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		100 to 144	100, 116, 140, 144	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		102 to 142	102, 110, 134, 142	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		106 to 138	106, 138	OFDM	BPSK	MCS0
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	BPSK	MCS0
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		151 to 159	151, 159	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		155	155	OFDM	BPSK	MCS0
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Beamforming Mode (output power only)						
Mode	**FREQ. Band (MHz)**	**Available Channel**	**Tested Channel**	**Modulation Technology**	**Modulation Type**	**Data Rate Parameter**
802.11ac (VHT20)	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	MCS0
802.11ac (VHT40)		38 to 62	38, 46, 54, 62	OFDM	BPSK	MCS0
802.11ac (VHT80)		42, 58	42, 58	OFDM	BPSK	MCS0
802.11ac (VHT160)		50	50	OFDM	BPSK	MCS0
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0
802.11ac (VHT20)	5500-5580 & 5660-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	MCS0
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	MCS0
802.11ac (VHT80)		106 to 138	106, 138	OFDM	BPSK	MCS0
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	106, 138	OFDMA	BPSK	MCS0
802.11ac (VHT20)	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	MCS0
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	MCS0
802.11ac (VHT80)		155	155	OFDM	BPSK	MCS0
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Test Condition:

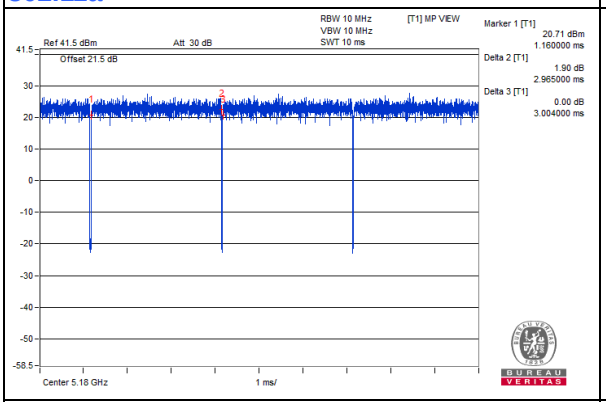
Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE≥1G	24deg. C, 69%RH	120Vac, 60Hz	Kevin Ko
RE<1G	22deg. C, 70%RH	120Vac, 60Hz	Ryan Du
PLC	25deg. C, 75%RH	120Vac, 60Hz	Sampson Chen
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin

3.3 Duty Cycle of Test Signal

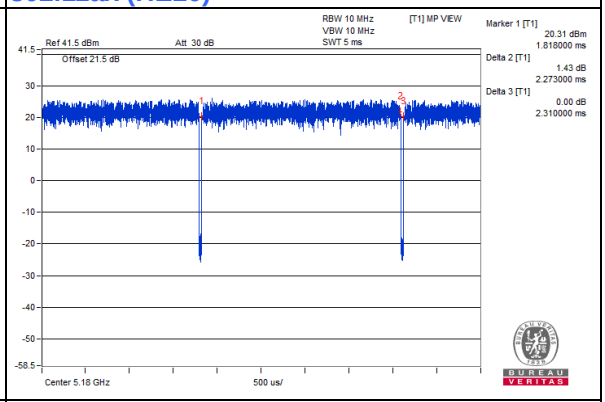
If duty cycle of test signal is ≥ 98 %, duty factor is not required.
If duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 2.965 ms /3.004 ms=0.987
802.11ax (HE20): Duty cycle = 2.273 ms /2.31 ms=0.984
802.11ax (HE40): Duty cycle = 2.357 ms /2.406 ms=0.98
802.11ax (HE80): Duty cycle = 2.439 ms /2.475 ms=0.985
802.11ax (HE160): Duty cycle = 0.232 ms /0.263 ms=0.882, Duty factor = 10 * log (1/Duty cycle) = 0.54 dB

802.11a



802.11ax (HE20)



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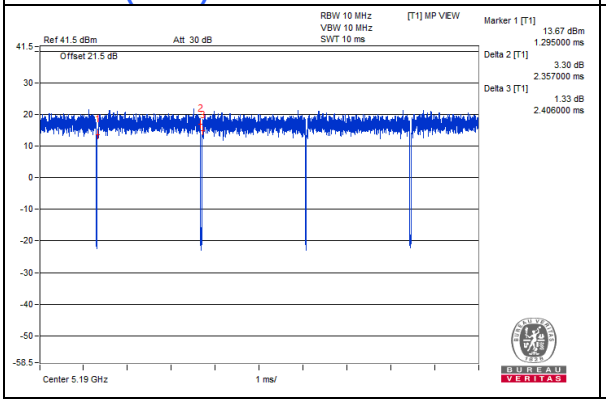
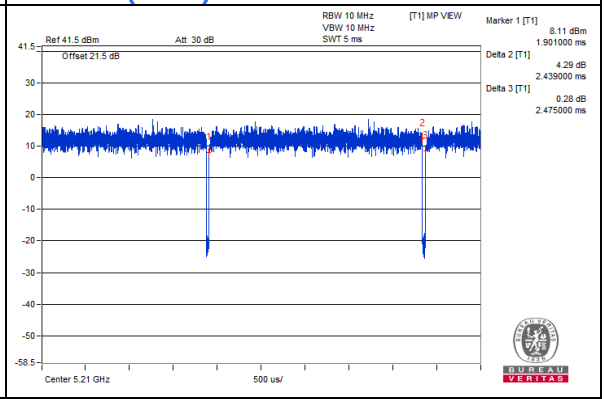
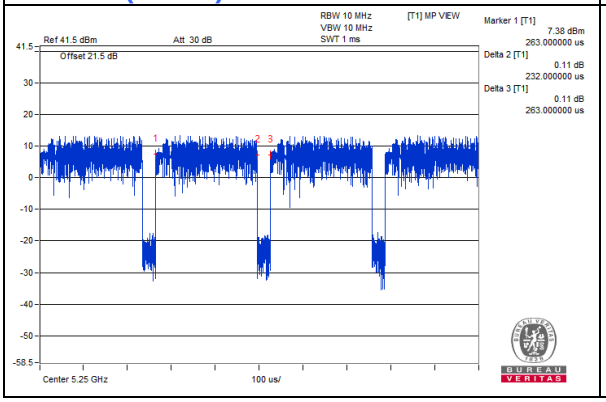


802.11ax (HE80)



802.11ax (HE160)



3.4 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.

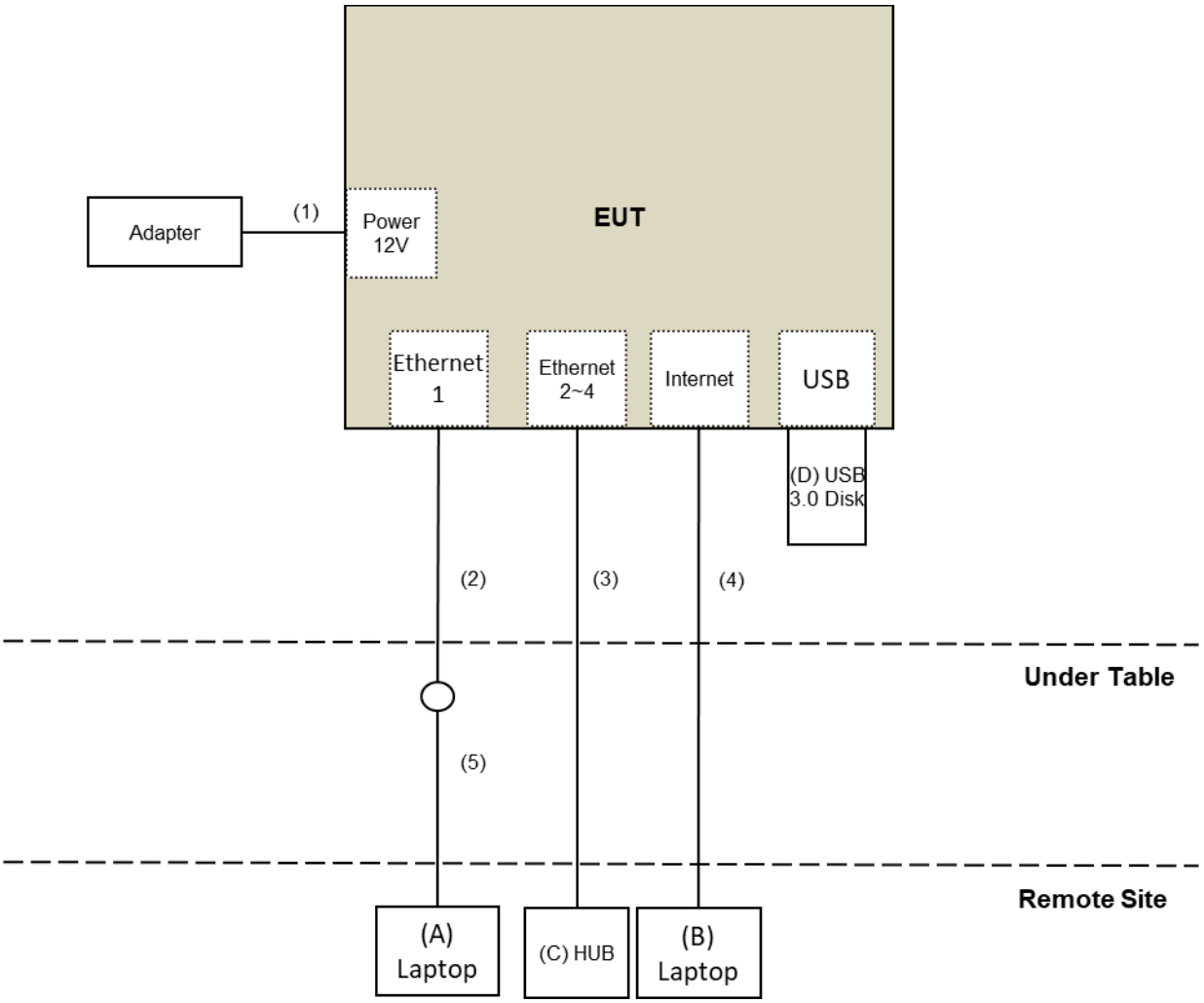
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	Lenovo	81A4	YD02YN76	NA	Provided by Lab
B.	HUB	ZyXEL	GS1100-16	S150H44000046	FCC DoC	Provided by Lab
C.	Laptop	DELL	E5430	HYV4VY1	FCC DoC	Provided by Lab
D.	UBS 3.0 Disk	SanDisk	Ultra Flalr USB 3.0	NA	NA	Provided by Lab

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	1.5	No	0	Supplied by client
2.	RJ-45 Cable	1	1	No	0	Supplied by client
3.	RJ-45 Cable	3	10	No	0	Provided by Lab
4.	RJ-45 Cable	1	10	No	0	Provided by Lab
5.	RJ-45 Cable	1	10	No	0	Provided by Lab

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standard and References

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 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

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBµV/m)	AV:54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

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

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

4.1.2 Test Instruments

For Radiated Emission & OOBE & BandEdge test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY51210202	Dec. 13, 2019	Dec. 12, 2020
Pre-Amplifier EMCI	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Oct. 23, 2019	Oct. 22, 2020
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-4-1	Mar. 18, 2020	Mar. 17, 2021
RF Cable	8D	966-4-2	Mar. 18, 2020	Mar. 17, 2021
RF Cable	8D	966-4-3	Mar. 18, 2020	Mar. 17, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Sep. 26, 2019	Sep. 25, 2020
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCI	EMC 12630 SE	980638	Apr. 08, 2020	Apr. 07, 2021
RF Cable	EMC104-SM-SM-1200	160923	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-2000	180502	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-6000	180418	Apr. 29, 2020	Apr. 28, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 966 Chamber No. 4.
3. Tested Date: Sep. 02 to 10, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 16, 2020	Jan. 15, 2021
True RMS Clamp Meter FLUKE	325	31130711WS	June 06, 2020	June 05, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Sep. 14, 2020

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 and average 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 average detector is unnecessary.

Note:

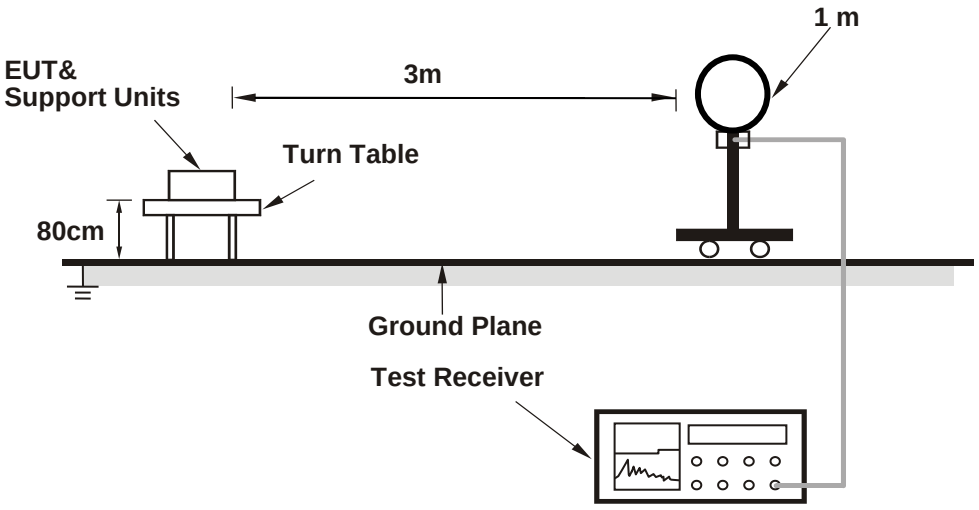
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

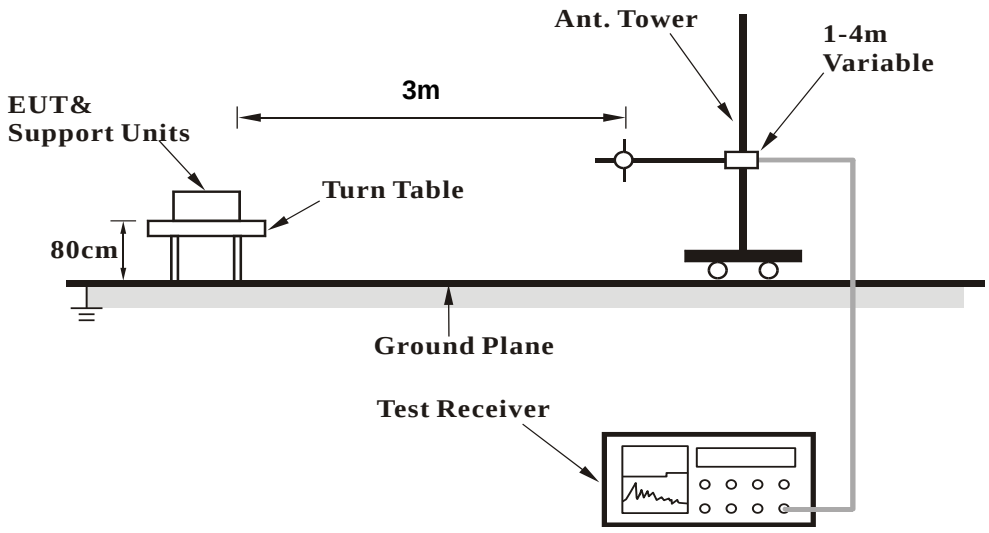
No deviation.

4.1.5 Test Setup

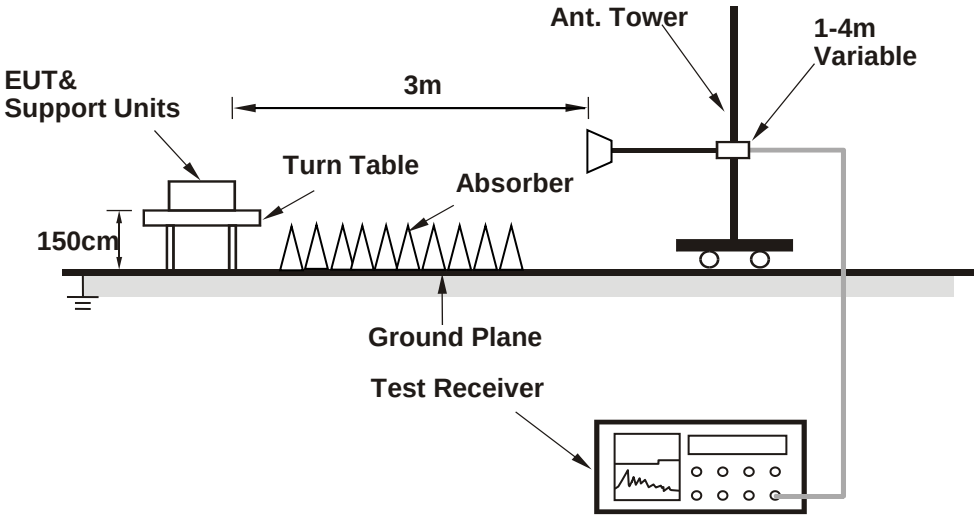
For Radiated emission below 30MHz



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).

4.1.6 EUT Operating Condition

a. Connected the EUT with the Laptop which is placed on remote site.
b. Controlling software (accessMTool_REL_3_1_0_3) has been activated to set the EUT under transmission condition continuously.

4.1.7 Test Results

Above 1GHz Data:

802.11a

Channel	TX Channel 36	**Detector Function**	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	66.2 PK	74.0	-7.8	1.89 H	98	65.5	0.7
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.89 H**	**98**	**53.2**	**0.7**
3	*5180.00	118.7 PK			1.89 H	98	118.0	0.7
4	*5180.00	110.6 AV			1.89 H	98	109.9	0.7
5	#10360.00	62.1 PK	68.2	-6.1	1.45 H	286	51.6	10.5
6	15540.00	54.0 PK	74.0	-20.0	2.13 H	337	42.0	12.0
7	15540.00	42.1 AV	54.0	-11.9	2.13 H	337	30.1	12.0
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	5150.00	72.8 PK	74.0	-1.2	1.75 V	255	72.1	0.7
2	5150.00	51.9 AV	54.0	-2.1	1.75 V	255	51.2	0.7
3	*5180.00	113.9 PK			1.75 V	255	113.2	0.7
4	*5180.00	106.8 AV			1.75 V	255	106.1	0.7
5	#10360.00	59.0 PK	68.2	-9.2	3.62 V	151	48.5	10.5
6	15540.00	47.2 PK	74.0	-26.8	3.93 V	270	35.2	12.0
7	15540.00	37.8 AV	54.0	-16.2	3.93 V	270	25.8	12.0

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.

Channel	TX Channel 40	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	66.2 PK	74.0	-7.8	1.89 H	98	65.5	0.7
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.89 H**	**98**	**53.2**	**0.7**
3	*5200.00	118.7 PK			1.89 H	98	118.1	0.6
4	*5200.00	110.6 AV			1.89 H	98	110.0	0.6
5	#10400.00	62.1 PK	68.2	-6.1	1.45 H	286	51.5	10.6
6	15600.00	54.0 PK	74.0	-20.0	2.13 H	337	41.7	12.3
7	15600.00	42.1 AV	54.0	-11.9	2.13 H	337	29.8	12.3
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	5150.00	68.5 PK	74.0	-5.5	2.13 V	127	67.8	0.7
2	5150.00	48.1 AV	54.0	-5.9	2.13 V	127	47.4	0.7
3	*5200.00	119.6 PK			2.13 V	127	119.0	0.6
4	*5200.00	109.5 AV			2.13 V	127	108.9	0.6
5	#10400.00	58.5 PK	68.2	-9.7	3.64 V	159	47.9	10.6
6	15600.00	47.3 PK	74.0	-26.7	3.98 V	278	35.0	12.3
7	15600.00	37.9 AV	54.0	-16.1	3.98 V	278	25.6	12.3

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.

Channel	TX Channel 48	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5240.00	122.0 PK			1.71 H	95	121.4	0.6
2	*5240.00	113.8 AV			1.71 H	95	113.2	0.6
3	5350.00	55.8 PK	74.0	-18.2	1.71 H	95	55.2	0.6
4	5350.00	45.9 AV	54.0	-8.1	1.71 H	95	45.3	0.6
5	#10480.00	62.1 PK	68.2	-6.1	1.42 H	300	51.6	10.5
6	15720.00	54.1 PK	74.0	-19.9	2.09 H	325	42.8	11.3
7	15720.00	42.3 AV	54.0	-11.7	2.09 H	325	31.0	11.3
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	*5240.00	121.2 PK			2.13 V	128	120.6	0.6
2	*5240.00	110.6 AV			2.13 V	128	110.0	0.6
3	5350.00	59.1 PK	74.0	-14.9	2.13 V	128	58.5	0.6
4	5350.00	45.1 AV	54.0	-8.9	2.13 V	128	44.5	0.6
5	#10480.00	58.5 PK	68.2	-9.7	3.63 V	140	48.0	10.5
6	15720.00	47.8 PK	74.0	-26.2	3.88 V	276	36.5	11.3
7	15720.00	38.3 AV	54.0	-15.7	3.88 V	276	27.0	11.3

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.

Channel	TX Channel 52	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	54.6 PK	74.0	-19.4	1.79 H	94	53.9	0.7
2	5150.00	45.8 AV	54.0	-8.2	1.79 H	94	45.1	0.7
3	*5260.00	122.5 PK			1.79 H	94	122.0	0.5
4	*5260.00	113.9 AV			1.79 H	94	113.4	0.5
5	#10520.00	62.2 PK	68.2	-6.0	1.41 H	289	51.6	10.6
6	15780.00	53.9 PK	74.0	-20.1	2.08 H	344	42.7	11.2
7	15780.00	42.1 AV	54.0	-11.9	2.08 H	344	30.9	11.2
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	5150.00	55.5 PK	74.0	-18.5	1.84 V	121	54.8	0.7
2	5150.00	43.9 AV	54.0	-10.1	1.84 V	121	43.2	0.7
3	*5260.00	121.6 PK			1.84 V	121	121.1	0.5
4	*5260.00	111.6 AV			1.84 V	121	111.1	0.5
5	#10520.00	58.4 PK	68.2	-9.8	3.61 V	153	47.8	10.6
6	15780.00	47.3 PK	74.0	-26.7	3.96 V	255	36.1	11.2
7	15780.00	38.0 AV	54.0	-16.0	3.96 V	255	26.8	11.2

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.

Channel	TX Channel 60	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5300.00	121.9 PK			1.70 H	94	121.4	0.5
2	*5300.00	114.0 AV			1.70 H	94	113.5	0.5
3	10600.00	62.1 PK	74.0	-11.9	1.43 H	278	51.8	10.3
4	10600.00	51.7 AV	54.0	-2.3	1.43 H	278	41.4	10.3
5	15900.00	53.5 PK	74.0	-20.5	2.16 H	349	41.9	11.6
6	15900.00	41.8 AV	54.0	-12.2	2.16 H	349	30.2	11.6
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	*5300.00	121.9 PK			1.88 V	122	121.4	0.5
2	*5300.00	111.6 AV			1.88 V	122	111.1	0.5
3	10600.00	59.0 PK	74.0	-15.0	3.61 V	159	48.7	10.3
4	10600.00	48.4 AV	54.0	-5.6	3.61 V	159	38.1	10.3
5	15900.00	47.2 PK	74.0	-26.8	3.98 V	272	35.6	11.6
6	15900.00	37.9 AV	54.0	-16.1	3.98 V	272	26.3	11.6

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.

Channel	TX Channel 64	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5320.00	120.1 PK			1.78 H	93	119.6	0.5
2	*5320.00	112.2 AV			1.78 H	93	111.7	0.5
3	5350.00	71.4 PK	74.0	-2.6	1.78 H	93	70.8	0.6
4	5350.00	53.7 AV	54.0	-0.3	1.78 H	93	53.1	0.6
5	10640.00	61.8 PK	74.0	-12.2	1.42 H	294	51.5	10.3
6	10640.00	50.9 AV	54.0	-3.1	1.42 H	294	40.6	10.3
7	15960.00	54.0 PK	74.0	-20.0	2.13 H	338	42.0	12.0
8	15960.00	41.9 AV	54.0	-12.1	2.13 H	338	29.9	12.0
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	*5320.00	119.8 PK			2.08 V	128	119.3	0.5
2	*5320.00	109.2 AV			2.08 V	128	108.7	0.5
3	5352.02	73.5 PK	74.0	-0.5	2.08 V	128	72.9	0.6
4	5352.02	53.3 AV	54.0	-0.7	2.08 V	128	52.7	0.6
5	10640.00	59.0 PK	74.0	-15.0	3.62 V	154	48.7	10.3
6	10640.00	48.7 AV	54.0	-5.3	3.62 V	154	38.4	10.3
7	15960.00	47.3 PK	74.0	-26.7	3.99 V	256	35.3	12.0
8	15960.00	38.2 AV	54.0	-15.8	3.99 V	256	26.2	12.0

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.

Channel	TX Channel 100	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	56.9 PK	74.0	-17.1	1.65 H	97	56.0	0.9
2	5460.00	45.6 AV	54.0	-8.4	1.65 H	97	44.7	0.9
3	#5470.00	67.9 PK	68.2	-0.3	1.65 H	97	67.0	0.9
4	*5500.00	117.2 PK			1.65 H	97	116.3	0.9
5	*5500.00	109.3 AV			1.65 H	97	108.4	0.9
6	11000.00	62.4 PK	74.0	-11.6	1.58 H	284	51.1	11.3
7	11000.00	50.7 AV	54.0	-3.3	1.58 H	284	39.4	11.3
8	#16500.00	56.5 PK	68.2	-11.7	1.65 H	334	42.5	14.0
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	5460.00	54.9 PK	74.0	-19.1	1.90 V	118	54.0	0.9
2	5460.00	42.4 AV	54.0	-11.6	1.90 V	118	41.5	0.9
3	#5470.00	57.4 PK	68.2	-10.8	1.90 V	118	56.5	0.9
4	*5500.00	115.5 PK			1.90 V	118	114.6	0.9
5	*5500.00	104.7 AV			1.90 V	118	103.8	0.9
6	11000.00	59.2 PK	74.0	-14.8	3.61 V	141	47.9	11.3
7	11000.00	48.9 AV	54.0	-5.1	3.61 V	141	37.6	11.3
8	#16500.00	46.8 PK	68.2	-21.4	3.92 V	272	32.8	14.0

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.

Channel	TX Channel 116	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5580.00	121.7 PK			1.76 H	79	120.7	1.0
2	*5580.00	113.9 AV			1.76 H	79	112.9	1.0
3	11160.00	61.7 PK	74.0	-12.3	1.41 H	281	50.8	10.9
4	11160.00	51.1 AV	54.0	-2.9	1.41 H	281	40.2	10.9
5	#16740.00	53.9 PK	68.2	-14.3	2.19 H	335	38.8	15.1
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	*5580.00	121.1 PK			1.11 V	112	120.1	1.0
2	*5580.00	111.0 AV			1.11 V	112	110.0	1.0
3	11160.00	58.4 PK	74.0	-15.6	3.60 V	160	47.5	10.9
4	11160.00	48.1 AV	54.0	-5.9	3.60 V	160	37.2	10.9
5	#16740.00	47.0 PK	68.2	-21.2	3.89 V	273	31.9	15.1

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.

Channel	TX Channel 140	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5700.00	119.1 PK			1.69 H	95	117.7	1.4
2	*5700.00	110.9 AV			1.69 H	95	109.5	1.4
3	**#5725.00**	**68.1 PK**	**68.2**	**-0.1**	**1.69 H**	**95**	**66.7**	**1.4**
4	11400.00	61.5 PK	74.0	-12.5	1.49 H	280	49.9	11.6
5	11400.00	51.0 AV	54.0	-3.0	1.49 H	280	39.4	11.6
6	#17100.00	53.7 PK	68.2	-14.5	2.19 H	327	36.8	16.9
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	*5700.00	115.3 PK			1.42 V	252	113.9	1.4
2	*5700.00	104.7 AV			1.42 V	252	103.3	1.4
3	#5725.00	65.3 PK	68.2	-2.9	1.42 V	252	63.9	1.4
4	11400.00	59.1 PK	74.0	-14.9	3.57 V	144	47.5	11.6
5	11400.00	48.4 AV	54.0	-5.6	3.57 V	144	36.8	11.6
6	#17100.00	47.6 PK	68.2	-20.6	3.89 V	272	30.7	16.9

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.

Channel	TX Channel 144	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	55.8 PK	74.0	-18.2	2.15 H	97	54.9	0.9
2	5460.00	42.6 AV	54.0	-11.4	2.15 H	97	41.7	0.9
3	#5470.00	55.9 PK	68.2	-12.3	2.15 H	97	55.0	0.9
4	*5720.00	122.8 PK			2.15 H	97	121.4	1.4
5	*5720.00	112.6 AV			2.15 H	97	111.2	1.4
6	#5850.00	45.5 PK	68.2	-22.7	2.15 H	97	43.7	1.8
7	11440.00	62.5 PK	74.0	-11.5	1.43 H	272	50.8	11.7
8	11440.00	51.6 AV	54.0	-2.4	1.43 H	272	39.9	11.7
9	#17160.00	54.2 PK	68.2	-14.0	2.18 H	328	38.1	16.1
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	5460.00	51.9 PK	74.0	-22.1	1.65 V	247	51.0	0.9
2	5460.00	40.1 AV	54.0	-13.9	1.65 V	247	39.2	0.9
3	#5470.00	53.1 PK	68.2	-15.1	1.65 V	247	52.2	0.9
4	*5720.00	120.3 PK			1.65 V	247	118.9	1.4
5	*5720.00	109.9 AV			1.65 V	247	108.5	1.4
6	#5850.00	54.8 PK	68.2	-13.4	1.65 V	247	53.0	1.8
7	11440.00	58.9 PK	74.0	-15.1	3.57 V	164	47.2	11.7
8	11440.00	48.5 AV	54.0	-5.5	3.57 V	164	36.8	11.7
9	#17160.00	47.4 PK	68.2	-20.8	3.93 V	256	31.3	16.1

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.

Channel	TX Channel 149	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5640.19	56.4 PK	68.2	-11.8	1.50 H	91	55.4	1.0
2	*5745.00	121.1 PK			1.50 H	91	119.7	1.4
3	*5745.00	112.9 AV			1.50 H	91	111.5	1.4
4	#5985.43	54.8 PK	68.2	-13.4	1.50 H	91	53.1	1.7
5	11490.00	62.3 PK	74.0	-11.7	1.40 H	272	50.5	11.8
6	11490.00	51.7 AV	54.0	-2.3	1.40 H	272	39.9	11.8
7	#17235.00	67.7 PK	68.2	-0.5	2.18 H	334	52.3	15.4
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	#5631.95	55.6 PK	68.2	-12.6	2.60 V	150	54.6	1.0
2	*5745.00	120.3 PK			2.60 V	150	118.9	1.4
3	*5745.00	110.1 AV			2.60 V	150	108.7	1.4
4	#5980.52	54.4 PK	68.2	-13.8	2.60 V	150	52.7	1.7
5	11490.00	58.8 PK	74.0	-15.2	3.64 V	156	47.0	11.8
6	11490.00	48.2 AV	54.0	-5.8	3.64 V	156	36.4	11.8
7	#17235.00	47.1 PK	68.2	-21.1	3.99 V	268	31.7	15.4

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.

Channel	TX Channel 157	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5630.82	55.9 PK	68.2	-12.3	1.55 H	92	54.9	1.0
2	*5785.00	121.4 PK			1.55 H	92	119.9	1.5
3	*5785.00	113.2 AV			1.55 H	92	111.7	1.5
4	#5933.14	56.1 PK	68.2	-12.1	1.55 H	92	54.5	1.6
5	11570.00	62.2 PK	74.0	-11.8	1.42 H	261	50.7	11.5
6	11570.00	51.7 AV	54.0	-2.3	1.42 H	261	40.2	11.5
7	**#17355.00**	**68.1 PK**	**68.2**	**-0.1**	**2.24 H**	**346**	**51.8**	**16.3**
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	#5640.88	55.8 PK	68.2	-12.4	2.49 V	152	54.8	1.0
2	*5785.00	120.5 PK			2.49 V	152	119.0	1.5
3	*5785.00	110.2 AV			2.49 V	152	108.7	1.5
4	#5950.65	53.6 PK	68.2	-14.6	2.49 V	152	51.9	1.7
5	11570.00	59.2 PK	74.0	-14.8	3.61 V	166	47.7	11.5
6	11570.00	48.7 AV	54.0	-5.3	3.61 V	166	37.2	11.5
7	#17355.00	47.4 PK	68.2	-20.8	3.93 V	286	31.1	16.3

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.

Channel	TX Channel 165	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5612.38	57.1 PK	68.2	-11.1	1.47 H	97	52.9	4.2
2	*5825.00	121.6 PK			1.47 H	97	119.9	1.7
3	*5825.00	113.3 AV			1.47 H	97	111.6	1.7
4	#5968.74	55.9 PK	68.2	-12.3	1.47 H	97	51.0	4.9
5	11650.00	62.6 PK	74.0	-11.4	1.35 H	261	51.3	11.3
6	11650.00	51.9 AV	54.0	-2.1	1.35 H	261	40.6	11.3
7	**#17475.00**	**68.1 PK**	**68.2**	**-0.1**	**2.16 H**	**322**	**49.6**	**18.5**
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	#5588.14	55.2 PK	68.2	-13.0	2.36 V	149	54.2	1.0
2	*5825.00	120.9 PK			2.36 V	149	119.2	1.7
3	*5825.00	110.2 AV			2.36 V	149	108.5	1.7
4	#5979.58	54.5 PK	68.2	-13.7	2.36 V	149	52.8	1.7
5	11650.00	59.3 PK	74.0	-14.7	3.62 V	161	48.0	11.3
6	11650.00	48.6 AV	54.0	-5.4	3.62 V	161	37.3	11.3
7	#17475.00	46.9 PK	68.2	-21.3	3.97 V	268	28.4	18.5

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.

802.11ax (HE20)

Channel	TX Channel 36	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5149.20	62.2 PK	74.0	-11.8	1.94 H	99	61.5	0.7
2	**5149.20**	**53.9 AV**	**54.0**	**-0.1**	**1.94 H**	**99**	**53.2**	**0.7**
3	*5180.00	117.9 PK			1.94 H	99	117.2	0.7
4	*5180.00	107.9 AV			1.94 H	99	107.2	0.7
5	#10360.00	62.4 PK	68.2	-5.8	1.40 H	289	51.9	10.5
6	15540.00	53.9 PK	74.0	-20.1	2.10 H	334	41.9	12.0
7	15540.00	42.2 AV	54.0	-11.8	2.10 H	334	30.2	12.0
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	5150.00	66.9 PK	74.0	-7.1	2.09 V	121	66.2	0.7
2	5150.00	50.0 AV	54.0	-4.0	2.09 V	121	49.3	0.7
3	*5180.00	118.6 PK			2.09 V	121	117.9	0.7
4	*5180.00	106.6 AV			2.09 V	121	105.9	0.7
5	#10360.00	59.0 PK	68.2	-9.2	3.60 V	140	48.5	10.5
6	15540.00	46.7 PK	74.0	-27.3	3.99 V	285	34.7	12.0
7	15540.00	37.4 AV	54.0	-16.6	3.99 V	285	25.4	12.0

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.

Channel	TX Channel 40	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5200.00	121.8 PK			1.66 H	98	121.2	0.6
2	*5200.00	111.5 AV			1.66 H	98	110.9	0.6
3	#10400.00	62.3 PK	68.2	-5.9	1.46 H	284	51.7	10.6
4	15600.00	54.3 PK	74.0	-19.7	2.11 H	349	42.0	12.3
5	15600.00	42.2 AV	54.0	-11.8	2.11 H	349	29.9	12.3
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	*5200.00	120.1 PK			1.64 V	131	119.5	0.6
2	*5200.00	109.5 AV			1.64 V	131	108.9	0.6
3	#10400.00	59.3 PK	68.2	-8.9	3.62 V	144	48.7	10.6
4	15600.00	47.6 PK	74.0	-26.4	3.98 V	277	35.3	12.3
5	15600.00	38.1 AV	54.0	-15.9	3.98 V	277	25.8	12.3

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.

Channel	TX Channel 48	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5240.00	121.5 PK			1.63 H	102	120.9	0.6
2	*5240.00	112.8 AV			1.63 H	102	112.2	0.6
3	5350.00	55.4 PK	74.0	-18.6	1.63 H	102	54.8	0.6
4	5350.00	45.6 AV	54.0	-8.4	1.63 H	102	45.0	0.6
5	#10480.00	62.5 PK	68.2	-5.7	1.47 H	302	52.0	10.5
6	15720.00	54.1 PK	74.0	-19.9	2.13 H	351	42.8	11.3
7	15720.00	42.1 AV	54.0	-11.9	2.13 H	351	30.8	11.3
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	*5240.00	122.2 PK			2.21 V	127	121.6	0.6
2	*5240.00	110.1 AV			2.21 V	127	109.5	0.6
3	5350.00	60.2 PK	74.0	-13.8	2.21 V	127	59.6	0.6
4	5350.00	46.2 AV	54.0	-7.8	2.21 V	127	45.6	0.6
5	#10480.00	58.7 PK	68.2	-9.5	3.59 V	141	48.2	10.5
6	15720.00	46.6 PK	74.0	-27.4	3.93 V	255	35.3	11.3
7	15720.00	37.5 AV	54.0	-16.5	3.93 V	255	26.2	11.3

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.

Channel	TX Channel 52	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	54.3 PK	74.0	-19.7	1.80 H	102	53.6	0.7
2	5150.00	45.6 AV	54.0	-8.4	1.80 H	102	44.9	0.7
3	*5260.00	123.4 PK			1.80 H	102	122.9	0.5
4	*5260.00	113.1 AV			1.80 H	102	112.6	0.5
5	#10520.00	62.3 PK	68.2	-5.9	1.43 H	300	51.7	10.6
6	15780.00	53.2 PK	74.0	-20.8	2.13 H	333	42.0	11.2
7	15780.00	41.6 AV	54.0	-12.4	2.13 H	333	30.4	11.2
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	5150.00	56.0 PK	74.0	-18.0	1.00 V	0	55.3	0.7
2	5150.00	43.7 AV	54.0	-10.3	1.00 V	0	43.0	0.7
3	*5260.00	122.1 PK			2.16 V	123	121.6	0.5
4	*5260.00	110.3 AV			2.16 V	123	109.8	0.5
5	#10520.00	59.0 PK	68.2	-9.2	3.64 V	156	48.4	10.6
6	15780.00	46.9 PK	74.0	-27.1	3.90 V	273	35.7	11.2
7	15780.00	37.7 AV	54.0	-16.3	3.90 V	273	26.5	11.2

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.

Channel	TX Channel 60	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5300.00	121.3 PK			1.77 H	96	120.8	0.5
2	*5300.00	112.4 AV			1.77 H	96	111.9	0.5
3	5350.00	67.9 PK	74.0	-6.1	1.77 H	96	67.3	0.6
4	5350.00	53.8 AV	54.0	-0.2	1.77 H	96	53.2	0.6
5	10600.00	61.6 PK	74.0	-12.4	1.47 H	288	51.3	10.3
6	10600.00	51.0 AV	54.0	-3.0	1.47 H	288	40.7	10.3
7	15900.00	53.8 PK	74.0	-20.2	2.18 H	335	42.2	11.6
8	15900.00	41.7 AV	54.0	-12.3	2.18 H	335	30.1	11.6
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	*5300.00	121.8 PK			2.24 V	128	121.3	0.5
2	*5300.00	109.4 AV			2.24 V	128	108.9	0.5
3	5350.00	73.1 PK	74.0	-0.9	2.24 V	128	72.5	0.6
4	**5350.00**	**53.9 AV**	**54.0**	**-0.1**	**2.24 V**	**128**	**53.3**	**0.6**
5	10600.00	58.9 PK	74.0	-15.1	3.62 V	162	48.6	10.3
6	10600.00	48.7 AV	54.0	-5.3	3.62 V	162	38.4	10.3
7	15900.00	47.2 PK	74.0	-26.8	3.98 V	271	35.6	11.6
8	15900.00	37.5 AV	54.0	-16.5	3.98 V	271	25.9	11.6

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.

Channel	TX Channel 64	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5320.00	121.1 PK			1.64 H	96	120.6	0.5
2	*5320.00	110.3 AV			1.64 H	96	109.8	0.5
3	5350.00	67.5 PK	74.0	-6.5	1.64 H	96	66.9	0.6
4	**5350.00**	**53.9 AV**	**54.0**	**-0.1**	**1.64 H**	**96**	**53.3**	**0.6**
5	10640.00	62.4 PK	74.0	-11.6	1.48 H	281	52.1	10.3
6	10640.00	51.6 AV	54.0	-2.4	1.48 H	281	41.3	10.3
7	15960.00	54.2 PK	74.0	-19.8	2.14 H	342	42.2	12.0
8	15960.00	42.5 AV	54.0	-11.5	2.14 H	342	30.5	12.0
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	*5320.00	119.9 PK			2.13 V	125	119.4	0.5
2	*5320.00	106.8 AV			2.13 V	125	106.3	0.5
3	5351.81	70.2 PK	74.0	-3.8	2.13 V	125	69.6	0.6
4	5351.81	53.0 AV	54.0	-1.0	2.13 V	125	52.4	0.6
5	10640.00	59.2 PK	74.0	-14.8	3.63 V	165	48.9	10.3
6	10640.00	48.6 AV	54.0	-5.4	3.63 V	165	38.3	10.3
7	15960.00	47.0 PK	74.0	-27.0	3.96 V	284	35.0	12.0
8	15960.00	37.8 AV	54.0	-16.2	3.96 V	284	25.8	12.0

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.

Channel	TX Channel 100	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	57.8 PK	74.0	-16.2	1.67 H	99	56.9	0.9
2	5460.00	47.8 AV	54.0	-6.2	1.67 H	99	46.9	0.9
3	**#5470.00**	**68.1 PK**	**68.2**	**-0.1**	**1.67 H**	**99**	**67.2**	**0.9**
4	*5500.00	118.9 PK			1.67 H	99	118.0	0.9
5	*5500.00	109.5 AV			1.67 H	99	108.6	0.9
6	11000.00	62.2 PK	74.0	-11.8	1.44 H	274	50.9	11.3
7	11000.00	51.6 AV	54.0	-2.4	1.44 H	274	40.3	11.3
8	#16500.00	54.2 PK	68.2	-14.0	2.11 H	337	40.2	14.0
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	5460.00	59.2 PK	74.0	-14.8	1.28 V	114	58.3	0.9
2	5460.00	44.1 AV	54.0	-9.9	1.28 V	114	43.2	0.9
3	#5470.00	66.4 PK	68.2	-1.8	1.28 V	114	65.5	0.9
4	*5500.00	117.6 PK			1.28 V	114	116.7	0.9
5	*5500.00	104.9 AV			1.28 V	114	104.0	0.9
6	11000.00	58.9 PK	74.0	-15.1	3.67 V	146	47.6	11.3
7	11000.00	48.4 AV	54.0	-5.6	3.67 V	146	37.1	11.3
8	#16500.00	47.5 PK	68.2	-20.7	3.92 V	282	33.5	14.0

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.

Channel	TX Channel 116	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5580.00	123.3 PK			1.75 H	109	122.3	1.0
2	*5580.00	112.8 AV			1.75 H	109	111.8	1.0
3	11160.00	62.1 PK	74.0	-11.9	1.46 H	299	51.2	10.9
4	11160.00	51.3 AV	54.0	-2.7	1.46 H	299	40.4	10.9
5	#16740.00	53.7 PK	68.2	-14.5	2.10 H	345	38.6	15.1
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	*5580.00	120.9 PK			2.21 V	123	119.9	1.0
2	*5580.00	109.1 AV			2.21 V	123	108.1	1.0
3	11160.00	58.7 PK	74.0	-15.3	3.60 V	156	47.8	10.9
4	11160.00	48.0 AV	54.0	-6.0	3.60 V	156	37.1	10.9
5	#16740.00	46.9 PK	68.2	-21.3	3.93 V	274	31.8	15.1

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.

Channel	TX Channel 140	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5700.00	118.5 PK			1.56 H	91	117.1	1.4
2	*5700.00	109.2 AV			1.56 H	91	107.8	1.4
3	#5725.00	68.0 PK	68.2	-0.2	1.56 H	91	66.6	1.4
4	11400.00	62.4 PK	74.0	-11.6	1.43 H	284	50.8	11.6
5	11400.00	51.9 AV	54.0	-2.1	1.43 H	284	40.3	11.6
6	#17100.00	54.1 PK	68.2	-14.1	2.14 H	336	37.2	16.9
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	*5700.00	117.3 PK			2.14 V	148	115.9	1.4
2	*5700.00	104.9 AV			2.14 V	148	103.5	1.4
3	#5725.00	61.8 PK	68.2	-6.4	2.14 V	148	60.4	1.4
4	11400.00	59.3 PK	74.0	-14.7	3.63 V	148	47.7	11.6
5	11400.00	48.9 AV	54.0	-5.1	3.63 V	148	37.3	11.6
6	#17100.00	46.9 PK	68.2	-21.3	3.98 V	260	30.0	16.9

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.

Channel	TX Channel 144	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	54.6 PK	74.0	-19.4	1.72 H	94	53.7	0.9
2	5460.00	41.8 AV	54.0	-12.2	1.72 H	94	40.9	0.9
3	#5470.00	55.4 PK	68.2	-12.8	1.72 H	94	54.5	0.9
4	*5720.00	122.2 PK			1.72 H	94	120.8	1.4
5	*5720.00	110.4 AV			1.72 H	94	109.0	1.4
6	#5850.00	56.9 PK	68.2	-11.3	1.72 H	94	55.1	1.8
7	11440.00	61.4 PK	74.0	-12.6	1.44 H	282	49.7	11.7
8	11440.00	50.9 AV	54.0	-3.1	1.44 H	282	39.2	11.7
9	#17160.00	54.2 PK	68.2	-14.0	2.08 H	329	38.1	16.1
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	5460.00	53.6 PK	74.0	-20.4	2.12 V	151	52.7	0.9
2	5460.00	40.0 AV	54.0	-14.0	2.12 V	151	39.1	0.9
3	#5470.00	53.8 PK	68.2	-14.4	2.12 V	151	52.9	0.9
4	*5720.00	121.2 PK			2.12 V	151	119.8	1.4
5	*5720.00	109.6 AV			2.12 V	151	108.2	1.4
6	#5850.00	56.7 PK	68.2	-11.5	2.12 V	151	54.9	1.8
7	11440.00	58.6 PK	74.0	-15.4	3.65 V	148	46.9	11.7
8	11440.00	48.1 AV	54.0	-5.9	3.65 V	148	36.4	11.7
9	#17160.00	46.5 PK	68.2	-21.7	3.99 V	271	30.4	16.1

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.

Channel	TX Channel 149	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5619.36	56.7 PK	68.2	-11.5	1.54 H	90	55.7	1.0
2	*5745.00	122.6 PK			1.54 H	90	121.2	1.4
3	*5745.00	112.8 AV			1.54 H	90	111.4	1.4
4	#5958.90	57.5 PK	68.2	-10.7	1.54 H	90	55.8	1.7
5	11490.00	62.9 PK	74.0	-11.1	1.40 H	262	51.1	11.8
6	11490.00	52.4 AV	54.0	-1.6	1.40 H	262	40.6	11.8
7	#17235.00	68.0 PK	68.2	-0.2	2.22 H	310	52.6	15.4
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	#5643.20	54.9 PK	68.2	-13.3	2.13 V	150	53.8	1.1
2	*5745.00	121.4 PK			2.13 V	150	120.0	1.4
3	*5745.00	109.1 AV			2.13 V	150	107.7	1.4
4	#5951.60	52.9 PK	68.2	-15.3	2.13 V	150	51.2	1.7
5	11490.00	59.3 PK	74.0	-14.7	3.59 V	157	47.5	11.8
6	11490.00	48.8 AV	54.0	-5.2	3.59 V	157	37.0	11.8
7	#17235.00	47.0 PK	68.2	-21.2	3.93 V	271	31.6	15.4

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.

Channel	TX Channel 157	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5625.36	59.0 PK	68.2	-9.2	1.50 H	89	58.0	1.0
2	*5785.00	122.2 PK			1.50 H	89	120.7	1.5
3	*5785.00	112.5 AV			1.50 H	89	111.0	1.5
4	#5950.97	57.4 PK	68.2	-10.8	1.50 H	89	55.7	1.7
5	11570.00	63.3 PK	74.0	-10.7	1.35 H	275	51.8	11.5
6	11570.00	52.6 AV	54.0	-1.4	1.35 H	275	41.1	11.5
7	#17355.00	67.9 PK	68.2	-0.3	2.25 H	309	51.6	16.3
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	#5576.33	55.6 PK	68.2	-12.6	2.14 V	118	54.6	1.0
2	*5785.00	122.0 PK			2.14 V	118	120.5	1.5
3	*5785.00	109.6 AV			2.14 V	118	108.1	1.5
4	#5998.30	53.7 PK	68.2	-14.5	2.14 V	118	52.0	1.7
5	11570.00	59.0 PK	74.0	-15.0	3.63 V	151	47.5	11.5
6	11570.00	48.7 AV	54.0	-5.3	3.63 V	151	37.2	11.5
7	#17355.00	46.8 PK	68.2	-21.4	3.88 V	276	30.5	16.3

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.

Channel	TX Channel 165	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5589.12	56.7 PK	68.2	-11.5	1.53 H	76	55.7	1.0
2	*5825.00	122.0 PK			1.53 H	76	120.3	1.7
3	*5825.00	112.5 AV			1.53 H	76	110.8	1.7
4	#5941.25	56.2 PK	68.2	-12.0	1.53 H	76	54.6	1.6
5	11650.00	62.7 PK	74.0	-11.3	1.43 H	251	51.4	11.3
6	11650.00	52.0 AV	54.0	-2.0	1.43 H	251	40.7	11.3
7	#17475.00	67.8 PK	68.2	-0.4	2.24 H	310	49.3	18.5
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	#5622.15	54.2 PK	68.2	-14.0	2.20 V	152	53.2	1.0
2	*5825.00	121.2 PK			2.20 V	152	119.5	1.7
3	*5825.00	109.4 AV			2.20 V	152	107.7	1.7
4	#5955.36	54.9 PK	68.2	-13.3	2.20 V	152	53.2	1.7
5	11650.00	59.0 PK	74.0	-15.0	3.57 V	136	47.7	11.3
6	11650.00	48.6 AV	54.0	-5.4	3.57 V	136	37.3	11.3
7	#17475.00	46.7 PK	68.2	-21.5	3.95 V	265	28.2	18.5

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.

802.11ax (HE40)

Channel	TX Channel 38	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	68.6 PK	74.0	-5.4	1.55 H	98	67.9	0.7
2	5150.00	53.7 AV	54.0	-0.3	1.55 H	98	53.0	0.7
3	*5190.00	112.5 PK			1.55 H	98	111.8	0.7
4	*5190.00	103.3 AV			1.55 H	98	102.6	0.7
5	#10380.00	61.9 PK	68.2	-6.3	1.44 H	301	51.4	10.5
6	15570.00	54.0 PK	74.0	-20.0	2.14 H	337	41.7	12.3
7	15570.00	42.0 AV	54.0	-12.0	2.14 H	337	29.7	12.3
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	5150.00	70.6 PK	74.0	-3.4	1.11 V	115	69.9	0.7
2	5150.00	53.5 AV	54.0	-0.5	1.11 V	115	52.8	0.7
3	*5190.00	112.2 PK			1.11 V	115	111.5	0.7
4	*5190.00	101.3 AV			1.11 V	115	100.6	0.7
5	#10380.00	58.9 PK	68.2	-9.3	3.65 V	165	48.4	10.5
6	15570.00	47.7 PK	74.0	-26.3	3.90 V	282	35.4	12.3
7	15570.00	38.0 AV	54.0	-16.0	3.90 V	282	25.7	12.3

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.

Channel	TX Channel 46	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5230.00	117.8 PK			1.78 H	100	117.2	0.6
2	*5230.00	108.8 AV			1.78 H	100	108.2	0.6
3	5350.00	65.4 PK	74.0	-8.6	1.78 H	100	64.8	0.6
4	5350.00	53.7 AV	54.0	-0.3	1.78 H	100	53.1	0.6
5	#10460.00	62.1 PK	68.2	-6.1	1.46 H	300	51.4	10.7
6	15690.00	54.0 PK	74.0	-20.0	2.10 H	343	42.6	11.4
7	15690.00	41.8 AV	54.0	-12.2	2.10 H	343	30.4	11.4
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	*5230.00	118.2 PK			1.60 V	128	117.6	0.6
2	*5230.00	106.4 AV			1.60 V	128	105.8	0.6
3	5350.00	60.7 PK	74.0	-13.3	1.60 V	128	60.1	0.6
4	5350.00	45.7 AV	54.0	-8.3	1.60 V	128	45.1	0.6
5	#10460.00	58.8 PK	68.2	-9.4	3.59 V	157	48.1	10.7
6	15690.00	47.3 PK	74.0	-26.7	3.96 V	263	35.9	11.4
7	15690.00	38.2 AV	54.0	-15.8	3.96 V	263	26.8	11.4

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.

Channel	TX Channel 54	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	67.8 PK	74.0	-6.2	1.58 H	96	67.1	0.7
2	5150.00	53.7 AV	54.0	-0.3	1.58 H	96	53.0	0.7
3	*5270.00	118.9 PK			1.58 H	96	118.4	0.5
4	*5270.00	108.7 AV			1.58 H	96	108.2	0.5
5	#10540.00	61.9 PK	68.2	-6.3	1.42 H	275	51.5	10.4
6	15810.00	53.8 PK	74.0	-20.2	2.14 H	343	42.6	11.2
7	15810.00	42.0 AV	54.0	-12.0	2.14 H	343	30.8	11.2
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	5150.00	59.2 PK	74.0	-14.8	1.75 V	132	58.5	0.7
2	5150.00	44.4 AV	54.0	-9.6	1.75 V	132	43.7	0.7
3	*5270.00	119.3 PK			1.75 V	132	118.8	0.5
4	*5270.00	106.6 AV			1.75 V	132	106.1	0.5
5	#10540.00	59.0 PK	68.2	-9.2	3.61 V	166	48.6	10.4
6	15810.00	47.0 PK	74.0	-27.0	3.98 V	260	35.8	11.2
7	15810.00	37.6 AV	54.0	-16.4	3.98 V	260	26.4	11.2

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.

Channel	TX Channel 62	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5310.00	113.5 PK			1.83 H	98	113.0	0.5
2	*5310.00	103.8 AV			1.83 H	98	103.3	0.5
3	5350.00	65.8 PK	74.0	-8.2	1.83 H	98	65.2	0.6
4	5350.00	53.6 AV	54.0	-0.4	1.83 H	98	53.0	0.6
5	10620.00	62.4 PK	74.0	-11.6	1.42 H	290	52.1	10.3
6	10620.00	51.8 AV	54.0	-2.2	1.42 H	290	41.5	10.3
7	15930.00	54.4 PK	74.0	-19.6	2.15 H	323	42.5	11.9
8	15930.00	42.5 AV	54.0	-11.5	2.15 H	323	30.6	11.9
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	*5310.00	113.3 PK			2.03 V	114	112.8	0.5
2	*5310.00	100.5 AV			2.03 V	114	100.0	0.5
3	5350.00	67.8 PK	74.0	-6.2	2.03 V	114	67.2	0.6
4	5350.00	53.2 AV	54.0	-0.8	2.03 V	114	52.6	0.6
5	10620.00	58.4 PK	74.0	-15.6	3.67 V	153	48.1	10.3
6	10620.00	48.2 AV	54.0	-5.8	3.67 V	153	37.9	10.3
7	15930.00	46.7 PK	74.0	-27.3	3.89 V	257	34.8	11.9
8	15930.00	40.3 AV	54.0	-13.7	3.89 V	257	28.4	11.9

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.

Channel	TX Channel 102	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	57.8 PK	74.0	-16.2	1.81 H	101	56.9	0.9
2	5460.00	49.5 AV	54.0	-4.5	1.81 H	101	48.6	0.9
3	#5470.00	67.7 PK	68.2	-0.5	1.81 H	101	66.8	0.9
4	*5510.00	113.9 PK			1.81 H	101	113.0	0.9
5	*5510.00	103.6 AV			1.81 H	101	102.7	0.9
6	11020.00	62.4 PK	74.0	-11.6	1.45 H	295	51.2	11.2
7	11020.00	51.7 AV	54.0	-2.3	1.45 H	295	40.5	11.2
8	#16530.00	54.1 PK	68.2	-14.1	2.17 H	349	39.7	14.4
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	5460.00	55.3 PK	74.0	-18.7	1.20 V	115	54.4	0.9
2	5460.00	42.6 AV	54.0	-11.4	1.20 V	115	41.7	0.9
3	#5470.00	61.7 PK	68.2	-6.5	1.00 V	0	60.8	0.9
4	*5510.00	109.8 PK			1.20 V	115	108.9	0.9
5	*5510.00	97.8 AV			1.20 V	115	96.9	0.9
6	11020.00	58.9 PK	74.0	-15.1	3.65 V	136	47.7	11.2
7	11020.00	48.6 AV	54.0	-5.4	3.65 V	136	37.4	11.2
8	#16530.00	47.6 PK	68.2	-20.6	3.92 V	284	33.2	14.4

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.

Channel	TX Channel 110	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	60.7 PK	74.0	-13.3	1.50 H	96	59.8	0.9
2	5460.00	48.5 AV	54.0	-5.5	1.50 H	96	47.6	0.9
3	#5470.00	67.8 PK	68.2	-0.4	1.50 H	96	66.9	0.9
4	*5550.00	120.1 PK			1.50 H	96	119.1	1.0
5	*5550.00	109.4 AV			1.50 H	96	108.4	1.0
6	11100.00	62.3 PK	74.0	-11.7	1.44 H	275	51.5	10.8
7	11100.00	51.7 AV	54.0	-2.3	1.44 H	275	40.9	10.8
8	#16650.00	54.5 PK	68.2	-13.7	2.15 H	349	39.1	15.4
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	5460.00	67.4 PK	74.0	-6.6	1.69 V	128	66.5	0.9
2	5460.00	49.6 AV	54.0	-4.4	1.69 V	128	48.7	0.9
3	#5470.00	61.7 PK	68.2	-6.5	1.69 V	128	60.8	0.9
4	*5550.00	117.8 PK			1.69 V	128	116.8	1.0
5	*5550.00	105.4 AV			1.69 V	128	104.4	1.0
6	11100.00	59.8 PK	74.0	-14.2	3.61 V	165	49.0	10.8
7	11100.00	49.0 AV	54.0	-5.0	3.61 V	165	38.2	10.8
8	#16650.00	47.3 PK	68.2	-20.9	3.92 V	264	31.9	15.4

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.

Channel	TX Channel 134	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	*5670.00	117.8 PK			1.64 H	94	116.6	1.2
2	*5670.00	107.5 AV			1.64 H	94	106.3	1.2
3	**#5725.00**	**68.1 PK**	**68.2**	**-0.1**	**1.64 H**	**94**	**66.7**	**1.4**
4	11340.00	62.2 PK	74.0	-11.8	1.43 H	281	50.9	11.3
5	11340.00	51.7 AV	54.0	-2.3	1.43 H	281	40.4	11.3
6	#17010.00	54.0 PK	68.2	-14.2	2.09 H	332	36.9	17.1
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	*5670.00	116.0 PK			2.17 V	126	114.8	1.2
2	*5670.00	104.4 AV			2.17 V	126	103.2	1.2
3	#5725.00	67.9 PK	68.2	-0.3	2.17 V	126	66.5	1.4
4	11340.00	58.5 PK	74.0	-15.5	3.61 V	157	47.2	11.3
5	11340.00	48.0 AV	54.0	-6.0	3.61 V	157	36.7	11.3
6	#17010.00	47.3 PK	68.2	-20.9	3.91 V	281	30.2	17.1

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.

Channel	TX Channel 142	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	54.3 PK	74.0	-19.7	1.73 H	99	53.4	0.9
2	5460.00	41.2 AV	54.0	-12.8	1.73 H	99	40.3	0.9
3	#5470.00	54.8 PK	68.2	-13.4	1.73 H	99	53.9	0.9
4	*5710.00	119.4 PK			1.73 H	99	118.0	1.4
5	*5710.00	106.4 AV			1.73 H	99	105.0	1.4
6	#5850.00	56.3 PK	68.2	-11.9	1.73 H	99	54.5	1.8
7	11420.00	62.2 PK	74.0	-11.8	1.42 H	288	50.6	11.6
8	11420.00	51.6 AV	54.0	-2.4	1.42 H	288	40.0	11.6
9	#17130.00	54.5 PK	68.2	-13.7	2.10 H	353	38.0	16.5
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	5460.00	52.6 PK	74.0	-21.4	2.09 V	147	51.7	0.9
2	5460.00	40.8 AV	54.0	-13.2	2.09 V	147	39.9	0.9
3	#5470.00	53.2 PK	68.2	-15.0	2.09 V	147	52.3	0.9
4	*5710.00	119.2 PK			2.09 V	147	117.8	1.4
5	*5710.00	105.4 AV			2.09 V	147	104.0	1.4
6	#5850.00	57.4 PK	68.2	-10.8	2.09 V	147	55.6	1.8
7	11420.00	59.3 PK	74.0	-14.7	3.56 V	165	47.7	11.6
8	11420.00	48.9 AV	54.0	-5.1	3.56 V	165	37.3	11.6
9	#17130.00	47.6 PK	68.2	-20.6	3.94 V	283	31.1	16.5

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.

Channel	TX Channel 151	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5651.99	61.1 PK	69.7	-8.6	1.62 H	92	60.0	1.1
2	*5755.00	118.6 PK			1.62 H	92	117.2	1.4
3	*5755.00	109.6 AV			1.62 H	92	108.2	1.4
4	#5921.64	56.9 PK	70.7	-13.8	1.62 H	92	55.4	1.5
5	11510.00	62.9 PK	74.0	-11.1	1.43 H	263	51.3	11.6
6	11510.00	52.3 AV	54.0	-1.7	1.43 H	263	40.7	11.6
7	**#17265.00**	**68.1 PK**	**68.2**	**-0.1**	**2.20 H**	**321**	**52.6**	**15.5**
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	#5642.94	64.3 PK	68.2	-3.9	2.19 V	119	63.2	1.1
2	*5755.00	119.7 PK			2.19 V	119	118.3	1.4
3	*5755.00	107.0 AV			2.19 V	119	105.6	1.4
4	#5941.98	55.8 PK	68.2	-12.4	2.19 V	119	54.2	1.6
5	11510.00	59.0 PK	74.0	-15.0	3.67 V	165	47.4	11.6
6	11510.00	48.5 AV	54.0	-5.5	3.67 V	165	36.9	11.6
7	#17265.00	47.3 PK	68.2	-20.9	3.97 V	282	31.8	15.5

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.

Channel	TX Channel 159	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5645.90	58.0 PK	68.2	-10.2	1.65 H	105	56.9	1.1
2	*5795.00	118.7 PK			1.65 H	105	117.2	1.5
3	*5795.00	109.7 AV			1.65 H	105	108.2	1.5
4	#5928.97	57.5 PK	68.2	-10.7	1.65 H	105	55.9	1.6
5	11590.00	62.1 PK	74.0	-11.9	1.47 H	244	50.6	11.5
6	11590.00	51.7 AV	54.0	-2.3	1.47 H	244	40.2	11.5
7	#17385.00	67.6 PK	68.2	-0.6	2.23 H	303	50.6	17.0
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	#5648.58	59.1 PK	68.2	-9.1	2.17 V	112	58.0	1.1
2	*5795.00	119.6 PK			2.17 V	112	118.1	1.5
3	*5795.00	107.3 AV			2.17 V	112	105.8	1.5
4	#5941.61	61.1 PK	68.2	-7.1	2.17 V	112	59.5	1.6
5	11590.00	58.6 PK	74.0	-15.4	3.59 V	136	47.1	11.5
6	11590.00	48.3 AV	54.0	-5.7	3.59 V	136	36.8	11.5
7	#17385.00	46.6 PK	68.2	-21.6	3.94 V	273	29.6	17.0

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.

802.11ax (HE80)

Channel	TX Channel 42	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	61.8 PK	74.0	-12.2	1.69 H	100	61.1	0.7
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.69 H**	**100**	**53.2**	**0.7**
3	*5210.00	110.5 PK			1.69 H	100	109.8	0.7
4	*5210.00	99.9 AV			1.69 H	100	99.2	0.7
5	5350.00	54.5 PK	74.0	-19.5	1.69 H	100	53.9	0.6
6	5350.00	44.2 AV	54.0	-9.8	1.69 H	100	43.6	0.6
7	#10420.00	61.7 PK	68.2	-6.5	1.50 H	291	51.1	10.6
8	15630.00	54.2 PK	74.0	-19.8	2.15 H	327	42.2	12.0
9	15630.00	42.3 AV	54.0	-11.7	2.15 H	327	30.3	12.0
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	5150.00	57.5 PK	74.0	-16.5	2.02 V	237	56.8	0.7
2	5150.00	49.4 AV	54.0	-4.6	2.02 V	237	48.7	0.7
3	*5210.00	106.7 PK			2.02 V	237	106.0	0.7
4	*5210.00	96.1 AV			2.02 V	237	95.4	0.7
5	5350.00	53.4 PK	74.0	-20.6	2.02 V	237	52.8	0.6
6	5350.00	41.4 AV	54.0	-12.6	2.02 V	237	40.8	0.6
7	#10420.00	58.3 PK	68.2	-9.9	3.58 V	140	47.7	10.6
8	15630.00	47.3 PK	74.0	-26.7	3.94 V	260	35.3	12.0
9	15630.00	38.1 AV	54.0	-15.9	3.94 V	260	26.1	12.0

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.

Channel	TX Channel 58	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5147.14	54.5 PK	74.0	-19.5	1.61 H	96	53.8	0.7
2	5147.14	45.2 AV	54.0	-8.8	1.61 H	96	44.5	0.7
3	*5290.00	109.5 PK			1.61 H	96	108.9	0.6
4	*5290.00	100.4 AV			1.61 H	96	99.8	0.6
5	5352.12	64.1 PK	74.0	-9.9	1.61 H	96	63.5	0.6
6	5352.12	53.8 AV	54.0	-0.2	1.61 H	96	53.2	0.6
7	#10580.00	61.9 PK	68.2	-6.3	1.43 H	275	51.6	10.3
8	15870.00	53.8 PK	74.0	-20.2	2.08 H	326	42.3	11.5
9	15870.00	41.8 AV	54.0	-12.2	2.08 H	326	30.3	11.5
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	5147.14	51.5 PK	74.0	-22.5	2.05 V	113	50.8	0.7
2	5147.14	41.9 AV	54.0	-12.1	2.05 V	113	41.2	0.7
3	*5290.00	109.5 PK			2.05 V	113	108.9	0.6
4	*5290.00	98.1 AV			2.05 V	113	97.5	0.6
5	5352.12	67.0 PK	74.0	-7.0	2.05 V	113	66.4	0.6
6	5352.12	53.6 AV	54.0	-0.4	2.05 V	113	53.0	0.6
7	#10580.00	58.6 PK	68.2	-9.6	3.68 V	135	48.3	10.3
8	15870.00	47.6 PK	74.0	-26.4	3.96 V	263	36.1	11.5
9	15870.00	38.1 AV	54.0	-15.9	3.96 V	263	26.6	11.5

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.

Channel	TX Channel 106	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	62.9 PK	74.0	-11.1	1.61 H	96	62.0	0.9
2	5460.00	50.6 AV	54.0	-3.4	1.61 H	96	49.7	0.9
3	#5470.00	67.9 PK	68.2	-0.3	1.61 H	96	67.0	0.9
4	*5530.00	111.4 PK			1.61 H	96	110.4	1.0
5	*5530.00	101.2 AV			1.61 H	96	100.2	1.0
6	#5810.48	55.0 PK	68.2	-13.2	1.61 H	96	53.4	1.6
7	11060.00	62.2 PK	74.0	-11.8	1.41 H	297	51.1	11.1
8	11060.00	51.4 AV	54.0	-2.6	1.41 H	297	40.3	11.1
9	#16590.00	54.3 PK	68.2	-13.9	2.17 H	343	39.0	15.3
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	5460.00	64.1 PK	74.0	-9.9	1.27 V	114	63.2	0.9
2	5460.00	51.5 AV	54.0	-2.5	1.27 V	114	50.6	0.9
3	#5470.00	67.0 PK	68.2	-1.2	1.27 V	114	66.1	0.9
4	*5530.00	110.1 PK			1.27 V	114	109.1	1.0
5	*5530.00	98.4 AV			1.27 V	114	97.4	1.0
6	#5810.48	53.5 PK	68.2	-14.7	1.27 V	114	51.9	1.6
7	11060.00	59.7 PK	74.0	-14.3	3.68 V	157	48.6	11.1
8	11060.00	48.9 AV	54.0	-5.1	3.68 V	157	37.8	11.1
9	#16590.00	47.1 PK	68.2	-21.1	3.98 V	254	31.8	15.3

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.

Channel	TX Channel 138	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5460.00	56.0 PK	74.0	-18.0	1.58 H	92	55.1	0.9
2	5460.00	45.3 AV	54.0	-8.7	1.58 H	92	44.4	0.9
3	#5470.00	57.4 PK	68.2	-10.8	1.58 H	92	56.5	0.9
4	*5690.00	116.7 PK			1.58 H	92	115.3	1.4
5	*5690.00	105.3 AV			1.58 H	92	103.9	1.4
6	#5850.00	64.2 PK	68.2	-4.0	1.58 H	92	62.4	1.8
7	11380.00	62.2 PK	74.0	-11.8	1.51 H	290	50.8	11.4
8	11380.00	51.4 AV	54.0	-2.6	1.51 H	290	40.0	11.4
9	#17070.00	54.0 PK	68.2	-14.2	2.16 H	331	37.1	16.9
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	5460.00	55.2 PK	74.0	-18.8	2.18 V	93	54.3	0.9
2	5460.00	42.9 AV	54.0	-11.1	2.18 V	93	42.0	0.9
3	#5470.00	56.6 PK	68.2	-11.6	2.18 V	93	55.7	0.9
4	*5690.00	116.1 PK			2.18 V	93	114.7	1.4
5	*5690.00	102.9 AV			2.18 V	93	101.5	1.4
6	#5850.00	63.7 PK	68.2	-4.5	2.18 V	93	61.9	1.8
7	11380.00	59.2 PK	74.0	-14.8	3.63 V	159	47.8	11.4
8	11380.00	48.7 AV	54.0	-5.3	3.63 V	159	37.3	11.4
9	#17070.00	47.3 PK	68.2	-20.9	3.91 V	282	30.4	16.9

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.

Channel	TX Channel 155	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	#5635.96	67.4 PK	68.2	-0.8	1.52 H	90	66.4	1.0
2	*5775.00	115.8 PK			1.52 H	90	114.3	1.5
3	*5775.00	106.3 AV			1.52 H	90	104.8	1.5
4	#5928.24	64.0 PK	68.2	-4.2	1.52 H	90	62.5	1.5
5	11550.00	62.7 PK	74.0	-11.3	1.45 H	251	51.1	11.6
6	11550.00	51.7 AV	54.0	-2.3	1.45 H	251	40.1	11.6
7	#17325.00	67.9 PK	68.2	-0.3	2.22 H	296	52.1	15.8
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	#5642.31	67.4 PK	68.2	-0.8	2.07 V	112	66.3	1.1
2	*5775.00	115.2 PK			2.07 V	112	113.7	1.5
3	*5775.00	101.9 AV			2.07 V	112	100.4	1.5
4	#5947.75	63.4 PK	68.2	-4.8	2.07 V	112	61.8	1.6
5	11550.00	59.5 PK	74.0	-14.5	3.68 V	148	47.9	11.6
6	11550.00	48.8 AV	54.0	-5.2	3.68 V	148	37.2	11.6
7	#17325.00	47.0 PK	68.2	-21.2	3.89 V	256	31.2	15.8

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.

802.11ax (HE160)

Channel	TX Channel 50	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	5150.00	64.2 PK	74.0	-9.8	1.56 H	94	63.5	0.7
2	5150.00	53.7 AV	54.0	-0.3	1.56 H	94	53.0	0.7
3	*5250.00	106.4 PK			1.56 H	94	105.9	0.5
4	*5250.00	97.3 AV			1.56 H	94	96.8	0.5
5	5351.39	67.2 PK	74.0	-6.8	1.56 H	94	66.6	0.6
6	5351.39	53.3 AV	54.0	-0.7	1.56 H	94	52.7	0.6
7	#10500.00	62.6 PK	68.2	-5.6	1.44 H	294	52.0	10.6
8	15750.00	54.3 PK	74.0	-19.7	2.07 H	335	43.0	11.3
9	15750.00	42.3 AV	54.0	-11.7	2.07 H	335	31.0	11.3
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	5150.00	63.4 PK	74.0	-10.6	2.16 V	122	62.7	0.7
2	5150.00	53.3 AV	54.0	-0.7	2.16 V	122	52.6	0.7
3	*5250.00	108.7 PK			2.16 V	122	108.2	0.5
4	*5250.00	96.2 AV			2.16 V	122	95.7	0.5
5	5351.39	68.3 PK	74.0	-5.7	2.16 V	122	67.7	0.6
6	5351.39	53.8 AV	54.0	-0.2	2.16 V	122	53.2	0.6
7	#10500.00	58.8 PK	68.2	-9.4	3.66 V	145	48.2	10.6
8	15750.00	47.4 PK	74.0	-26.6	3.96 V	280	36.1	11.3
9	15750.00	37.9 AV	54.0	-16.1	3.96 V	280	26.6	11.3

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:

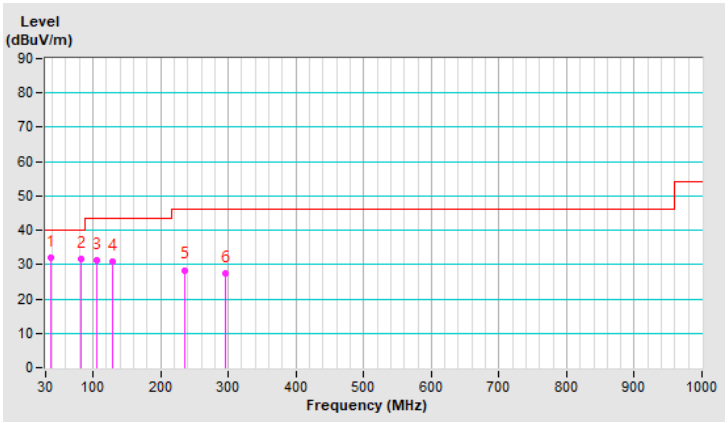
802.11ax (HE20)

CHANNEL	TX Channel 165	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	37.48	32.0 QP	40.0	-8.0	1.00 H	245	40.5	-8.5
2	82.30	31.5 QP	40.0	-8.5	2.50 H	3	44.6	-13.1
3	104.85	31.4 QP	43.5	-12.1	1.50 H	148	42.5	-11.1
4	128.97	30.8 QP	43.5	-12.7	2.00 H	268	39.7	-8.9
5	235.72	28.4 QP	46.0	-17.6	1.50 H	86	37.5	-9.1
6	295.63	27.4 QP	46.0	-18.6	1.00 H	229	34.0	-6.6

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 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.

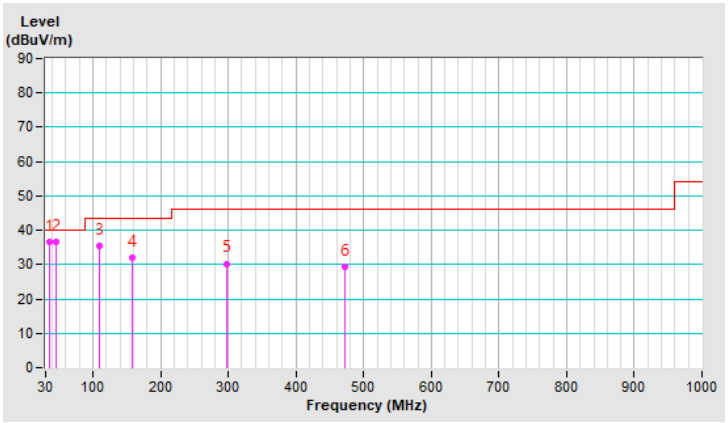


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	36.44	36.7 QP	40.0	-3.3	1.00 V	132	45.6	-8.9
2	44.97	36.5 QP	40.0	-3.5	1.00 V	254	44.3	-7.8
3	108.88	35.6 QP	43.5	-7.9	1.00 V	46	46.2	-10.6
4	157.77	32.0 QP	43.5	-11.5	2.00 V	357	39.3	-7.3
5	297.00	30.3 QP	46.0	-15.7	1.50 V	6	36.8	-6.5
6	472.45	29.3 QP	46.0	-16.7	1.00 V	34	31.0	-1.7

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 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 Conducted Emission Measurement

4.2.1 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.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3. Tested Date: Sep. 07, 2020

4.2.3 Test Procedure

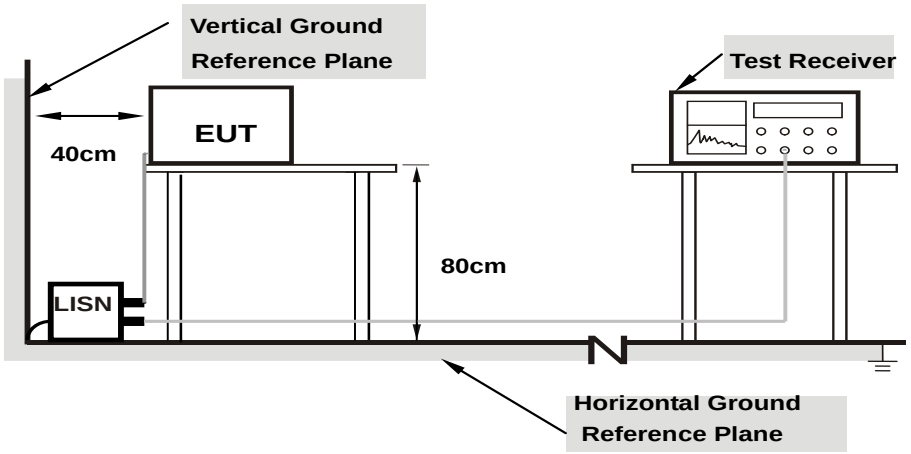
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. 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.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Condition

Same as 4.1.6.

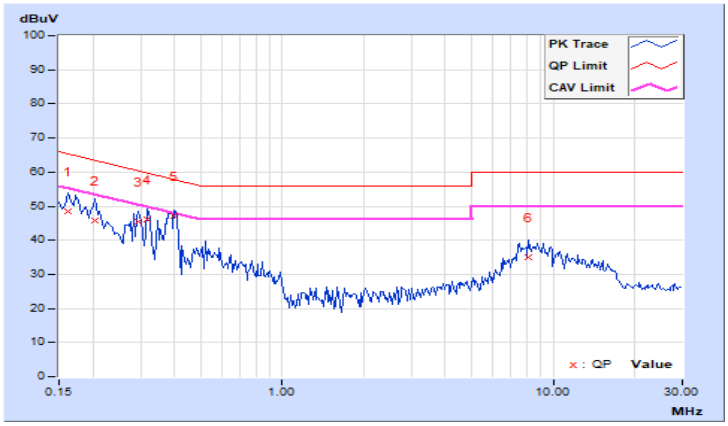
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.16172	9.93	38.48	26.23	48.41	36.16	65.38	55.38	-16.97	-19.22
2	0.20469	9.95	35.97	24.58	45.92	34.53	63.42	53.42	-17.50	-18.89
3	0.29453	9.96	35.45	27.37	45.41	37.33	60.40	50.40	-14.99	-13.07
4	0.31797	9.97	36.28	25.79	46.25	35.76	59.76	49.76	-13.51	-14.00
5	**0.40000**	**9.98**	**37.09**	**30.36**	**47.07**	**40.34**	**57.85**	**47.85**	**-10.78**	**-7.51**
6	8.15234	10.51	24.46	15.85	34.97	26.36	60.00	50.00	-25.03	-23.64

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

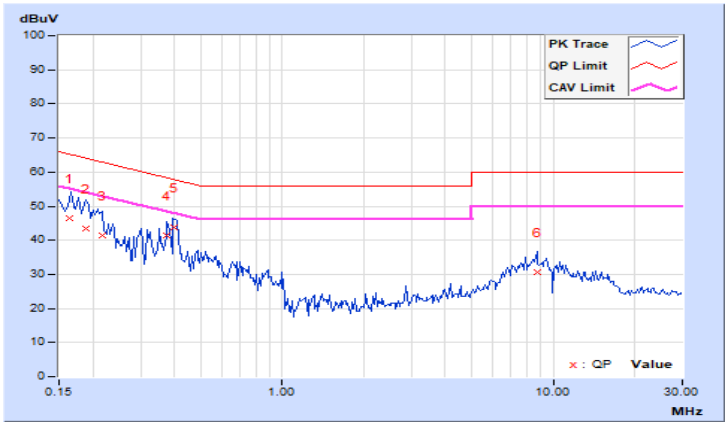


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.16348	9.94	36.38	19.55	46.32	29.49	65.29	55.29	-18.97	-25.80
2	0.18906	9.95	33.46	17.96	43.41	27.91	64.08	54.08	-20.67	-26.17
3	0.21641	9.96	31.40	17.74	41.36	27.70	62.96	52.96	-21.60	-25.26
4	0.37656	10.00	31.38	25.75	41.38	35.75	58.35	48.35	-16.97	-12.60
5	0.40000	10.00	33.63	26.08	43.63	36.08	57.85	47.85	-14.22	-11.77
6	8.72656	10.49	20.23	11.12	30.72	21.61	60.00	50.00	-29.28	-28.39

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
	√	Client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz
Note: This device can support different category application which switched by access point mode and client mode by software.

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

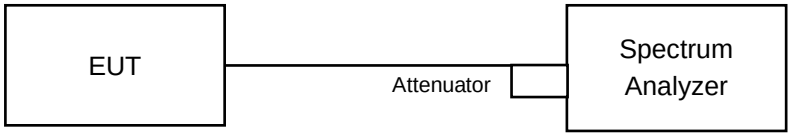
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

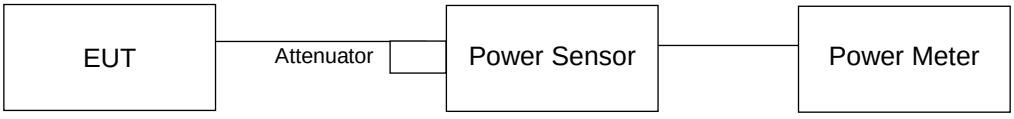
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

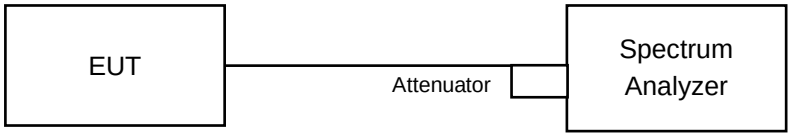
For channel straddling 5250MHz & channel straddling 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For channel straddling 5250MHz

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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.

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. 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%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Results

POWER OUTPUT

Master

CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.10	20.68	20.79	21.41	477.586	26.79	30.00	Pass
40	5200	20.13	20.90	20.94	21.27	484.198	26.85	30.00	Pass
48	5240	20.05	20.83	20.80	21.13	472.162	26.74	30.00	Pass
52	5260	14.32	14.87	14.93	14.62	117.82	20.71	23.63	Pass
60	5300	14.42	15.04	15.05	14.65	120.748	20.82	23.63	Pass
64	5320	14.48	14.93	14.95	14.67	119.741	20.78	23.63	Pass
100	5500	14.60	15.12	14.29	14.72	117.851	20.71	23.13	Pass
116	5580	14.33	15.13	14.68	14.29	115.916	20.64	23.13	Pass
140	5700	14.37	14.90	15.58	14.24	120.943	20.83	23.13	Pass
*144 (U-NII-2C Band)	5720	13.03	11.81	11.93	12.47	68.517	18.36	22.11	Pass
*144 (U-NII-3 Band)	5720	7.46	5.25	5.80	6.41	17.099	12.33	29.70	Pass
149	5745	22.85	24.43	21.86	24.63	913.948	29.61	29.70	Pass
157	5785	22.90	24.41	22.06	24.68	925.501	29.66	29.70	Pass
165	5825	22.91	24.27	21.95	24.56	905.169	29.57	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.81	24.38 > 24
60	5300	21.84	24.39 > 24
64	5320	21.57	24.33 > 24
100	5500	21.79	24.38 > 24
116	5580	21.73	24.37 > 24
140	5700	21.69	24.36 > 24
144 (U-NII-2C Band)	5720	15.8	22.98 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.62	20.37	20.63	20.89	438.87	26.42	30.00	Pass
40	5200	20.28	21.11	21.12	21.31	500.408	26.99	30.00	Pass
48	5240	20.17	21.28	20.86	21.51	501.747	27.00	30.00	Pass
52	5260	14.36	14.97	14.95	14.77	119.947	20.79	23.63	Pass
60	5300	14.35	15.24	15.08	14.66	122.099	20.87	23.63	Pass
64	5320	14.52	15.13	15.05	14.73	122.603	20.89	23.63	Pass
100	5500	14.64	15.40	15.12	13.77	120.113	20.80	23.13	Pass
116	5580	14.37	15.06	14.79	14.44	117.343	20.69	23.13	Pass
140	5700	14.32	15.08	15.57	14.20	121.611	20.85	23.13	Pass
*144 (U-NII-2C Band)	5720	12.62	10.80	11.49	12.06	60.466	17.82	22.14	Pass
*144 (U-NII-3 Band)	5720	7.86	5.46	6.20	7.27	19.127	12.82	29.70	Pass
149	5745	22.72	24.21	21.83	24.52	886.246	29.48	29.70	Pass
157	5785	22.83	24.12	22.05	24.55	895.519	29.52	29.70	Pass
165	5825	22.89	23.96	21.96	24.58	887.536	29.48	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.74	24.37 > 24
60	5300	21.59	24.34 > 24
64	5320	21.71	24.36 > 24
100	5500	21.72	24.36 > 24
116	5580	21.51	24.32 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C Band)	5720	15.89	23.01 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.90	17.75	17.79	18.09	233.078	23.68	30.00	Pass
46	5230	22.19	23.23	22.61	23.57	785.854	28.95	30.00	Pass
54	5270	16.49	16.97	16.93	17.02	194.007	22.88	23.63	Pass
62	5310	16.58	16.81	16.79	16.76	188.649	22.76	23.63	Pass
102	5510	16.42	17.04	16.83	17.22	195.353	22.91	23.13	Pass
110	5550	16.41	17.13	16.92	17.21	197.2	22.95	23.13	Pass
134	5670	16.72	17.30	16.83	16.78	196.53	22.93	23.13	Pass
*142 (U-NII-2C Band)	5710	15.82	15.52	15.52	16.07	149.942	21.76	23.13	Pass
*142 (U-NII-3 Band)	5710	6.04	5.17	5.95	6.29	15.498	11.90	29.70	Pass
151	5755	22.76	24.07	22.26	24.91	922.079	29.65	29.70	Pass
159	5795	22.90	24.29	22.13	24.53	910.616	29.59	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.3	27.15 > 24
62	5310	41.33	27.16 > 24
102	5510	41.31	27.16 > 24
110	5550	41.33	27.16 > 24
134	5670	41.37	27.16 > 24
142 (U-NII-2C Band)	5710	35.57	26.51 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.71	16.20	17.02	16.76	176.7	22.47	30.00	Pass
58	5290	16.17	16.80	16.86	17.34	191.992	22.83	23.63	Pass
106	5530	16.02	16.51	16.86	16.92	182.499	22.61	23.13	Pass
*138 (U-NII-2C Band)	5690	16.13	15.85	16.36	16.36	165.982	22.20	23.13	Pass
*138 (U-NII-3 Band)	5690	2.60	1.95	2.75	3.73	7.631	8.83	29.70	Pass
155	5775	21.91	23.31	20.68	23.42	706.264	28.49	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.48	30.16 > 24
106	5530	82.52	30.16 > 24
138 (U-NII-2C Band)	5690	76.06	29.81 > 24

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1 Band)	5250	10.14	9.66	8.76	9.44	40.676	16.09	30.00	Pass
*50 (U-NII-2A Band)	5250	9.85	10.07	7.32	8.46	36.54	15.63	23.63	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
50 (U-NII-2A Band)	5250	81.43	30.1 > 24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.82	20.58	20.86	21.08	460.36	26.63	30.00	Pass
40	5200	20.51	21.32	21.34	21.54	526.685	27.22	30.00	Pass
48	5240	20.40	21.49	21.08	21.74	528.089	27.23	30.00	Pass
52	5260	14.55	15.19	15.18	14.99	126.058	21.01	23.63	Pass
60	5300	14.58	15.46	15.32	14.89	128.737	21.10	23.63	Pass
64	5320	14.74	15.36	15.27	14.96	129.125	21.11	23.63	Pass
100	5500	14.87	15.65	15.34	14.00	126.735	21.03	23.13	Pass
116	5580	14.60	15.30	15.01	14.67	123.729	20.92	23.13	Pass
140	5700	14.55	15.31	15.83	14.43	128.488	21.09	23.13	Pass
*144 (U-NII-2C Band)	5720	12.89	11.00	11.77	12.19	63.632	18.04	22.14	Pass
*144 (U-NII-3 Band)	5720	8.06	5.74	6.56	7.41	20.184	13.05	29.70	Pass
149	5745	22.85	24.38	22.00	24.67	918.489	29.63	29.70	Pass
157	5785	23.00	24.26	22.11	24.63	919.169	29.63	29.70	Pass
165	5825	23.10	24.16	22.14	24.75	927.009	29.67	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.74	24.37 > 24
60	5300	21.59	24.34 > 24
64	5320	21.71	24.36 > 24
100	5500	21.72	24.36 > 24
116	5580	21.51	24.32 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C Band)	5720	15.89	23.01 < 24

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.11	17.95	18.03	18.36	245.86	23.91	30.00	Pass
46	5230	22.40	23.46	22.85	23.79	827.684	29.18	30.00	Pass
54	5270	16.73	17.20	17.16	17.24	204.544	23.11	23.63	Pass
62	5310	16.81	17.03	17.02	16.98	198.678	22.98	23.63	Pass
102	5510	16.48	17.05	16.82	17.23	196.091	22.92	23.13	Pass
110	5550	16.44	17.09	16.91	17.28	197.771	22.96	23.13	Pass
134	5670	16.77	17.42	16.85	16.77	198.692	22.98	23.13	Pass
*142 (U-NII-2C Band)	5710	15.96	15.72	15.84	16.18	156.637	21.95	23.13	Pass
*142 (U-NII-3 Band)	5710	6.32	5.39	6.18	6.50	16.361	12.14	29.70	Pass
151	5755	22.75	24.09	22.27	24.92	923.925	29.66	29.70	Pass
159	5795	22.91	24.33	22.12	24.50	911.221	29.60	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.3	27.15 > 24
62	5310	41.33	27.16 > 24
102	5510	41.31	27.16 > 24
110	5550	41.33	27.16 > 24
134	5670	41.37	27.16 > 24
142 (U-NII-2C Band)	5710	35.57	26.51 > 24

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.99	16.47	17.25	17.02	187.519	22.73	30.00	Pass
58	5290	16.39	17.05	17.15	17.55	203.016	23.08	23.63	Pass
106	5530	16.25	16.75	17.11	17.19	193.249	22.86	23.13	Pass
*138 (U-NII-2C Band)	5690	16.31	15.95	16.73	16.72	176.198	22.46	23.13	Pass
*138 (U-NII-3 Band)	5690	2.80	2.19	2.96	3.92	8.004	9.03	29.70	Pass
155	5775	22.13	23.57	20.90	23.62	743.986	28.72	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

3. For UNII-2C: The max. gain = 6.87 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.87-6)”.

4. For UNII-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to 30-(6.3-6) = 29.7 dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.48	30.16 > 24
106	5530	82.52	30.16 > 24
138 (U-NII-2C Band)	5690	76.06	29.81 > 24

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1 Band)	5250	10.23	9.84	8.88	9.54	41.835	16.22	30.00	Pass
*50 (U-NII-2A Band)	5250	10.03	10.17	7.65	8.54	37.902	15.79	23.63	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. For UNII-1: The max. gain = 5.74 dBi < 6 dBi, so the power limit was 30 dBm.

2. For UNII-2A: max. gain = 6.37 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(6.37-6)”.

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
50 (U-NII-2A Band)	5250	81.43	30.1 > 24

Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	18.72	19.15	18.26	17.77	283.527	24.53	25.34	Pass
40	5200	18.88	19.05	18.18	17.70	282.271	24.51	25.34	Pass
48	5240	18.70	19.09	18.31	17.83	283.665	24.53	25.34	Pass
52	5260	11.76	11.04	11.27	11.14	54.101	17.33	18.88	Pass
60	5300	11.81	11.08	11.24	11.16	54.36	17.35	18.88	Pass
64	5320	11.84	11.00	11.21	11.12	54.02	17.33	18.88	Pass
100	5500	12.55	11.91	12.08	11.81	64.827	18.12	18.29	Pass
116	5580	12.45	11.62	12.24	11.97	64.59	18.10	18.29	Pass
140	5700	12.98	11.31	11.83	12.49	66.364	18.22	18.29	Pass
*144 (U-NII-2C Band)	5720	10.56	9.52	9.98	10.12	40.564	16.08	17.30	Pass
*144 (U-NII-3 Band)	5720	5.82	4.42	5.02	5.48	13.295	11.24	24.48	Pass
149	5745	16.82	18.93	18.52	18.44	267.191	24.27	24.48	Pass
157	5785	16.92	19.02	18.51	18.23	266.489	24.26	24.48	Pass
165	5825	16.83	19.01	18.42	18.37	266.02	24.25	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.74	24.37 > 24
60	5300	21.59	24.34 > 24
64	5320	21.71	24.36 > 24
100	5500	21.72	24.36 > 24
116	5580	21.51	24.32 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C Band)	5720	15.89	23.01 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.90	17.75	17.79	18.09	233.078	23.68	25.34	Pass
46	5230	18.76	19.01	18.42	17.77	284.122	24.54	25.34	Pass
54	5270	11.98	11.08	11.07	10.85	53.555	17.29	18.88	Pass
62	5310	11.88	11.14	11.08	11.02	53.889	17.32	18.88	Pass
102	5510	12.65	12.36	11.58	11.42	63.882	18.05	18.29	Pass
110	5550	12.61	12.23	11.85	11.32	63.813	18.05	18.29	Pass
134	5670	12.58	11.52	11.88	12.54	65.668	18.17	18.29	Pass
*142 (U-NII-2C Band)	5710	11.37	10.51	10.64	11.19	49.695	16.96	18.29	Pass
*142 (U-NII-3 Band)	5710	1.97	0.42	1.05	2.04	5.549	7.44	24.48	Pass
151	5755	17.01	18.77	18.54	18.34	265.253	24.24	24.48	Pass
159	5795	17.06	18.72	18.69	18.28	266.547	24.26	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.3	27.15 > 24
62	5310	41.33	27.16 > 24
102	5510	41.31	27.16 > 24
110	5550	41.33	27.16 > 24
134	5670	41.37	27.16 > 24
142 (U-NII-2C Band)	5710	35.57	26.51 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.71	16.20	17.02	16.76	176.7	22.47	25.34	Pass
58	5290	12.00	11.18	11.21	10.55	53.534	17.29	18.88	Pass
106	5530	12.83	12.26	11.48	11.42	63.941	18.06	18.29	Pass
*138 (U-NII-2C Band)	5690	11.81	10.53	11.84	11.94	57.376	17.59	18.29	Pass
*138 (U-NII-3 Band)	5690	-2.17	-2.72	-1.75	-1.16	2.5752	4.11	24.48	Pass
155	5775	16.97	18.77	18.52	18.41	265.573	24.24	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.48	30.16 > 24
106	5530	82.52	30.16 > 24
138 (U-NII-2C Band)	5690	76.06	29.81 > 24

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1 Band)	5250	4.83	3.45	5.12	3.28	12.054	10.81	25.34	Pass
*50 (U-NII-2A Band)	5250	4.28	4.35	4.18	2.78	11.242	10.51	18.88	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. For UNII-1: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
50 (U-NII-2A Band)	5250	81.43	30.1 > 24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	18.95	19.41	18.53	17.97	299.767	24.77	25.34	Pass
40	5200	19.10	19.31	18.47	17.94	299.13	24.76	25.34	Pass
48	5240	18.93	19.30	18.57	18.10	299.787	24.77	25.34	Pass
52	5260	12.02	11.26	11.53	11.38	57.252	17.58	18.88	Pass
60	5300	12.03	11.36	11.50	11.41	57.597	17.60	18.88	Pass
64	5320	12.09	11.20	11.50	11.40	57.293	17.58	18.88	Pass
100	5500	12.55	11.96	12.15	11.86	65.444	18.16	18.29	Pass
116	5580	12.43	11.68	12.26	12.01	64.934	18.12	18.29	Pass
140	5700	12.99	11.32	11.86	12.52	66.67	18.24	18.29	Pass
*144 (U-NII-2C Band)	5720	10.69	9.69	10.14	10.22	41.88	16.22	17.30	Pass
*144 (U-NII-3 Band)	5720	6.02	4.63	5.08	5.63	13.78	11.39	24.48	Pass
149	5745	16.97	19.15	18.67	18.55	277.233	24.43	24.48	Pass
157	5785	17.07	19.20	18.71	18.46	278.557	24.45	24.48	Pass
165	5825	16.99	19.19	18.63	18.55	277.549	24.43	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.74	24.37 > 24
60	5300	21.59	24.34 > 24
64	5320	21.71	24.36 > 24
100	5500	21.72	24.36 > 24
116	5580	21.51	24.32 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C Band)	5720	15.89	23.01 < 24

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.11	17.95	18.03	18.36	245.86	23.91	25.34	Pass
46	5230	19.01	19.26	18.64	18.03	300.596	24.78	25.34	Pass
54	5270	12.19	11.29	11.32	11.10	56.451	17.52	18.88	Pass
62	5310	12.17	11.34	11.36	11.27	57.17	17.57	18.88	Pass
102	5510	12.79	12.60	11.79	11.55	66.598	18.23	18.29	Pass
110	5550	12.73	12.41	11.94	11.43	65.699	18.18	18.29	Pass
134	5670	12.53	11.55	11.95	12.62	66.144	18.20	18.29	Pass
*142 (U-NII-2C Band)	5710	11.51	10.62	10.85	11.34	51.469	17.12	18.29	Pass
*142 (U-NII-3 Band)	5710	2.19	0.54	1.11	2.14	5.716	7.57	24.48	Pass
151	5755	17.19	18.97	18.77	18.53	277.867	24.44	24.48	Pass
159	5795	17.21	19.02	18.83	18.45	278.769	24.45	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.3	27.15 > 24
62	5310	41.33	27.16 > 24
102	5510	41.31	27.16 > 24
110	5550	41.33	27.16 > 24
134	5670	41.37	27.16 > 24
142 (U-NII-2C Band)	5710	35.57	26.51 > 24

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	15.99	16.47	17.25	17.02	187.519	22.73	25.34	Pass
58	5290	12.21	11.39	11.42	10.83	56.38	17.51	18.88	Pass
106	5530	13.01	12.47	11.69	11.63	66.971	18.26	18.29	Pass
*138 (U-NII-2C Band)	5690	11.95	10.67	12.09	12.12	59.809	17.77	18.29	Pass
*138 (U-NII-3 Band)	5690	-1.86	-2.57	-1.52	-1.00	2.704	4.32	24.48	Pass
155	5775	17.22	18.99	18.69	18.55	277.548	24.43	24.48	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For UNII-1: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.
3. For UNII-2C: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4] = 11.71 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.71-6)”.
4. For UNII-3: The directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2$ / 4]= 11.52 dBi > 6 dBi, so the power limit shall be reduced to 30-(11.52-6) = 24.48dBm.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.48	30.16 > 24
106	5530	82.52	30.16 > 24
138 (U-NII-2C Band)	5690	76.06	29.81 > 24

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1 Band)	5250	5.04	3.61	5.21	3.47	12.504	10.97	25.34	Pass
*50 (U-NII-2A Band)	5250	4.39	4.57	4.36	2.87	11.651	10.66	18.88	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. For UNII-1: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4]= 10.66 dBi > 6 dBi, so the power limit shall be reduced to 30-(10.66-6) = 25.34dBm.
2. For UNII-2A: The directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + $10^{G3/20}$ + $10^{G4/20}$)^2 / 4] = 11.12 dBi > 6 dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(11.12-6)”.

Note: For U-NII-2A Band output power limitation is determined based on 26dBc bandwidth.

Power Limit = 11dBm + 10logB < U-NII-2A>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
50 (U-NII-2A Band)	5250	81.43	30.1 > 24

Client

CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	13.24	12.91	12.58	12.15	75.149	18.76	24.00	Pass
40	5200	13.35	12.98	12.62	12.26	76.596	18.84	24.00	Pass
48	5240	13.31	12.88	12.66	12.22	75.96	18.81	24.00	Pass
52	5260	14.32	14.87	14.93	14.62	117.82	20.71	23.63	Pass
60	5300	14.42	15.04	15.05	14.65	120.748	20.82	23.63	Pass
64	5320	14.48	14.93	14.95	14.67	119.741	20.78	23.63	Pass
100	5500	14.60	15.12	14.29	14.72	117.851	20.71	23.13	Pass
116	5580	14.33	15.13	14.68	14.29	115.916	20.64	23.13	Pass
140	5700	14.37	14.90	15.58	14.24	120.943	20.83	23.13	Pass
*144 (U-NII-2C Band)	5720	13.03	11.81	11.93	12.47	68.517	18.36	22.11	Pass
*144 (U-NII-3 Band)	5720	7.46	5.25	5.80	6.41	17.099	12.33	29.70	Pass
149	5745	22.85	24.43	21.86	24.63	913.948	29.61	29.70	Pass
157	5785	22.90	24.41	22.06	24.68	925.501	29.66	29.70	Pass
165	5825	22.91	24.27	21.95	24.56	905.169	29.57	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.81	24.38 > 24
60	5300	21.84	24.39 > 24
64	5320	21.57	24.33 > 24
100	5500	21.79	24.38 > 24
116	5580	21.73	24.37 > 24
140	5700	21.69	24.36 > 24
144 (U-NII-2C Band)	5720	15.8	22.98 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	13.48	13.14	12.47	12.29	77.494	18.89	24.00	Pass
40	5200	13.51	13.21	12.39	12.17	77.2	18.88	24.00	Pass
48	5240	13.53	13.12	12.52	12.34	78.058	18.92	24.00	Pass
52	5260	14.36	14.97	14.95	14.77	119.947	20.79	23.63	Pass
60	5300	14.35	15.24	15.08	14.66	122.099	20.87	23.63	Pass
64	5320	14.52	15.13	15.05	14.73	122.603	20.89	23.63	Pass
100	5500	14.64	15.40	15.12	13.77	120.113	20.80	23.13	Pass
116	5580	14.37	15.06	14.79	14.44	117.343	20.69	23.13	Pass
140	5700	14.32	15.08	15.57	14.20	121.611	20.85	23.13	Pass
*144 (U-NII-2C Band)	5720	12.62	10.80	11.49	12.06	60.466	17.82	22.14	Pass
*144 (U-NII-3 Band)	5720	7.86	5.46	6.20	7.27	19.127	12.82	29.70	Pass
149	5745	22.72	24.21	21.83	24.52	886.246	29.48	29.70	Pass
157	5785	22.83	24.12	22.05	24.55	895.519	29.52	29.70	Pass
165	5825	22.89	23.96	21.96	24.58	887.536	29.48	29.70	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.74	24.37 > 24
60	5300	21.59	24.34 > 24
64	5320	21.71	24.36 > 24
100	5500	21.72	24.36 > 24
116	5580	21.51	24.32 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C Band)	5720	15.89	23.01 < 24