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Test Model: DIR-X6060

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF181022E01-1	Original release.	May 08, 2019

1 Certificate of Conformity

Product: AX6000 Wi-Fi 6 Router

Brand: D-Link

Test Model: DIR-X6060

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Dec. 15, 2018 to Mar. 16, 2019

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 : Phoenix Huang , **Date:** May 08, 2019
Phoenix Huang / Specialist

Approved by : May Chen , **Date:** May 08, 2019
May Chen / 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 -18.30dB at 0.44297MHz.
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 -0.1dB at 5725.00MHz, 5350.00MHz, 5470.00MHz, 5649.95MHz
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 R-SMA not a standard connector.s

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.84 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.33 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.10 dB
	6GHz ~ 18GHz	4.85 dB
	18GHz ~ 40GHz	5.24 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	AX6000 Wi-Fi 6 Router
Brand	D-Link
Test Model	DIR-X6060
Status of EUT	ENGINEERING SAMPLE
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 VHT (20/40) mode in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 3466.7Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18~ 5.24GHz, 5.26 ~ 5.32GHz, 5.5 ~ 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): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	Non-Beamforming Mode: 2.4GHz: 941.67mW 5.18 ~ 5.24GHz: 653.582mW 5.26 ~ 5.32GHz: 240.802mW 5.5 ~ 5.72GHz: 248.712mW 5.745 ~ 5.825GHz: 965.86mW Beamforming Mode: 2.4GHz: 508.849mW 5.18 ~ 5.24GHz: 653.582mW 5.26 ~ 5.32GHz: 169.025mW 5.5 ~ 5.72GHz: 169.439mW 5.745 ~ 5.825GHz: 674.209mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter x1
Data Cable Supplied	NA

Note:

1. The EUT has below radios as following table:

Radio 1	Radio 2	Radio 3
WLAN (2.4GHz)	WLAN (5GHz)	Bluetooth

2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4GHz)	WLAN (5GHz)	Bluetooth

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

3. The EUT must be supplied power adapter as following table:

Brand	Model No.	Spec.
Asian Power Devices Inc.	WA-36A12R	Input: 100-240Vac, 0.9A Max, 50-60Hz Output: 12V, 3A DC Output cable: Unshielded, 1.2m

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

WLAN			
Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Connector Type
2.4~2.4835	6.628229	Dipole	R-SMA
5.15~5.85	7.698165		

Bluetooth			
Frequency Range (GHz)	Antenna Net Gain (dBi)	Antenna Type	Connector Type
2.4~2.4835	2.97	Printed	NA

Note: More detailed information, please refer to operating description.

5. The EUT incorporates a MIMO function:

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	4TX	4RX
802.11g	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
VHT20	4TX	4RX
VHT40	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
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 802.11a/b/g modulation mode.
2. The EUT support Beamforming and non-beamforming 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 investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)
6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5260 ~ 5320MHz

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

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

Channel	Frequency
58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720MHz

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

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

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

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

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

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

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

Channel	Frequency
114	5570 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 \geq 1G	RE $<$ 1G	PLC	APCM	
-	√	√	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz

RE $<$ 1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 2 axis. The worst case was found when positioned on **X-plane**.

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.

Non-Beamforming Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6Mb/s
802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 46	38, 46	OFDMA	BPSK	MCS0
802.11ax (HE80)		42	42	OFDMA	BPSK	MCS0
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6Mb/s
802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		54 to 62	54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		58	58	OFDMA	BPSK	MCS0
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0
802.11a	5500-5720	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, 122, 138	OFDMA	BPSK	MCS0
802.11ax (HE160)		114	114	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.

Non-Beamforming Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5180-5320, 5500-5720, 5745-5825	36 to 64, 100 to 144, 149 to 165	149	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.

Non-Beamforming Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5180-5320, 5500-5720, 5745-5825	36 to 64, 100 to 144, 149 to 165	149	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.

Non-Beamforming Mode						
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		38 to 46	38, 46	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		42	42	OFDM	BPSK	MCS0
802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 46	38, 46	OFDMA	BPSK	MCS0
802.11ax (HE80)		42	42	OFDMA	BPSK	MCS0
802.11a		5260-5320	52 to 64	52, 60, 64	OFDM	BPSK
802.11ac (VHT20) (Output power only)	52 to 64		52, 60, 64	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)	54 to 62		54, 62	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)	58		58	OFDM	BPSK	MCS0
802.11ac (VHT160) (Output power only)	50		50	OFDM	BPSK	MCS0
802.11ax (HE20)	52 to 64		52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)	54 to 62		54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)	58		58	OFDMA	BPSK	MCS0
802.11ax (HE160)	50		50	OFDMA	BPSK	MCS0

802.11a	5500-5720	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, 122, 138	OFDM	BPSK	MCS0	
802.11ac (VHT160) (Output power only)		114	114	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	
802.11ax (HE160)		114	114	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)	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	MCS0	
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	MCS0	
802.11ac (VHT80)		42	42	OFDM	BPSK	MCS0	
802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	BPSK	MCS0	
802.11ax (HE40)		38 to 46	38, 46	OFDMA	BPSK	MCS0	
802.11ax (HE80)		42	42	OFDMA	BPSK	MCS0	
802.11ac (VHT20)	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	MCS0	
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	MCS0	
802.11ac (VHT80)		58	58	OFDM	BPSK	MCS0	
802.11ac (VHT160)		50	50	OFDM	BPSK	MCS0	
802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	BPSK	MCS0	
802.11ax (HE40)		54 to 62	54, 62	OFDMA	BPSK	MCS0	
802.11ax (HE80)		58	58	OFDMA	BPSK	MCS0	
802.11ax (HE160)		50	50	OFDMA	BPSK	MCS0	
802.11ac (VHT20)	5500-5720	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, 122, 138	OFDM	BPSK	MCS0	
802.11ac (VHT160)		114	114	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	
802.11ax (HE160)		114	114	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	

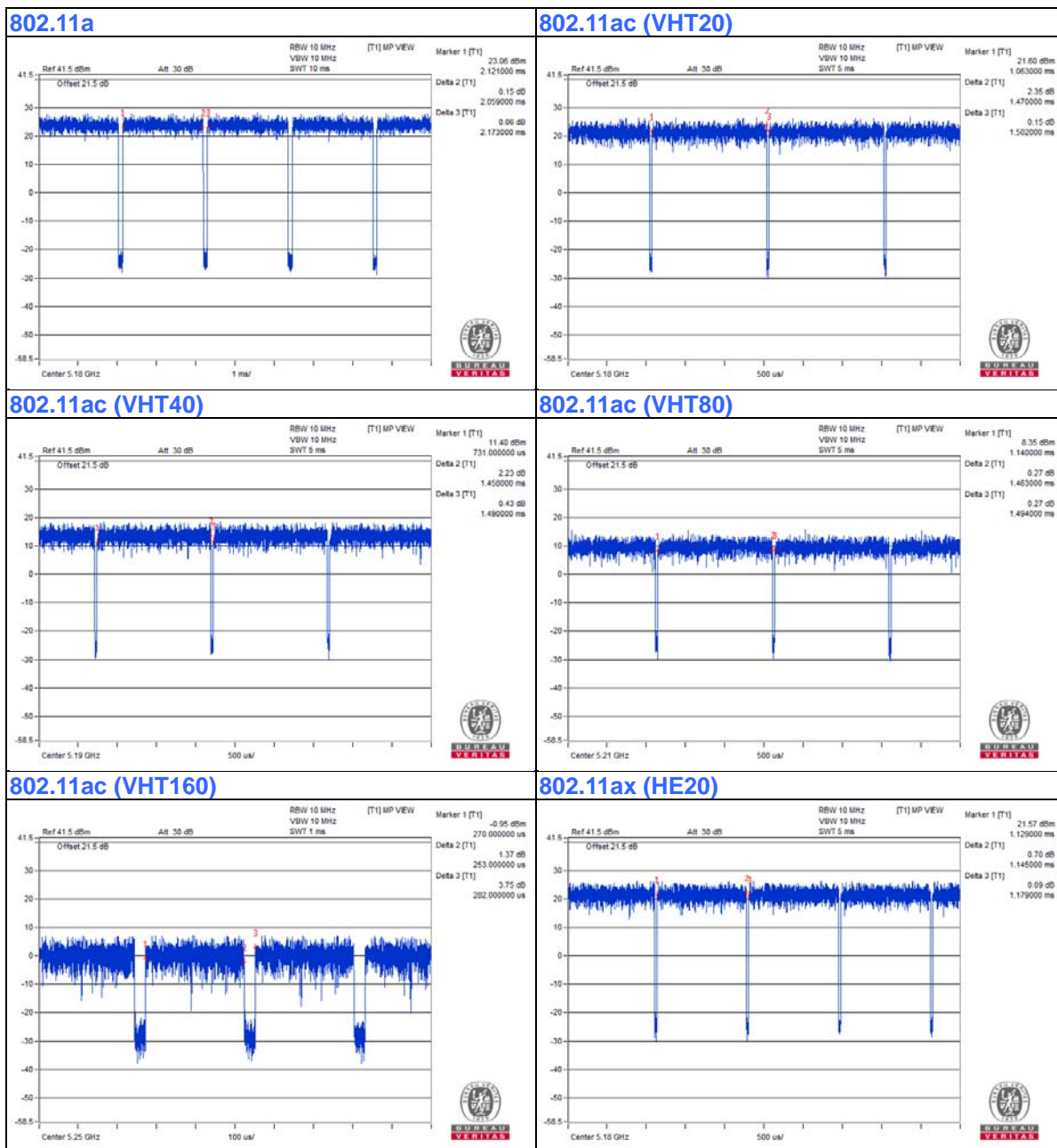
Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested By
RE \geq 1G	24deg. C, 71%RH	120Vac, 60Hz	Robert Cheng
RE<1G	25deg. C, 68%RH	120Vac, 60Hz	Andy Ho
PLC	24deg. C, 76%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jyunchun Lin

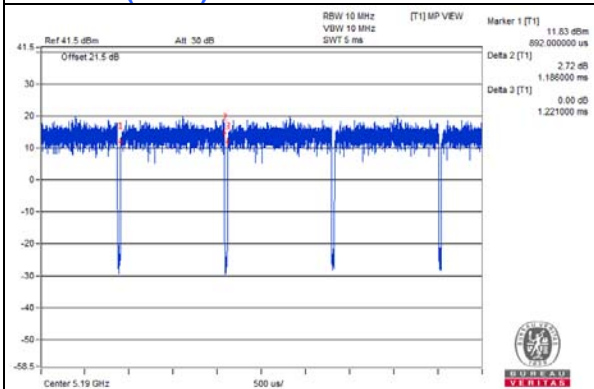
3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor shall be considered.

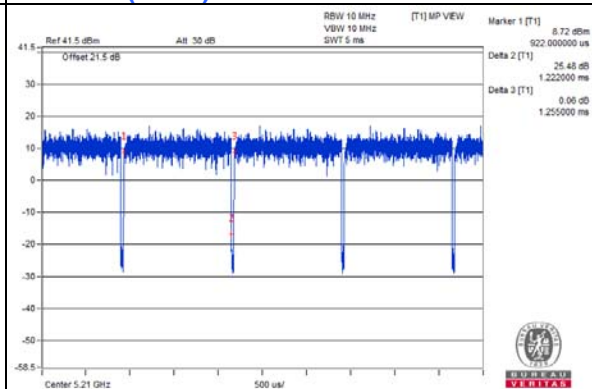
- 802.11a:** Duty cycle = 2.059 ms/2.173 ms = 0.948, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.23$
- 802.11ac (VHT20):** Duty cycle = 1.47 ms/1.502 ms = 0.979, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.09$
- 802.11ac (VHT40):** Duty cycle = 1.458 ms/1.49 ms = 0.979, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.09$
- 802.11ac (VHT80):** Duty cycle = 1.463 ms/1.494 ms = 0.979, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.09$
- 802.11ac (VHT160):** Duty cycle = 0.253 ms/0.282 ms = 0.897, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.47$
- 802.11ax (HE20):** Duty cycle = 1.145 ms/1.179 ms = 0.971, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.13$
- 802.11ax (HE40):** Duty cycle = 1.186 ms/1.221 ms = 0.971, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.13$
- 802.11ax (HE80):** Duty cycle = 1.222 ms/1.255 ms = 0.974, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.12$
- 802.11ax (HE160):** Duty cycle = 0.232 ms/0.262 ms = 0.885, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.53$



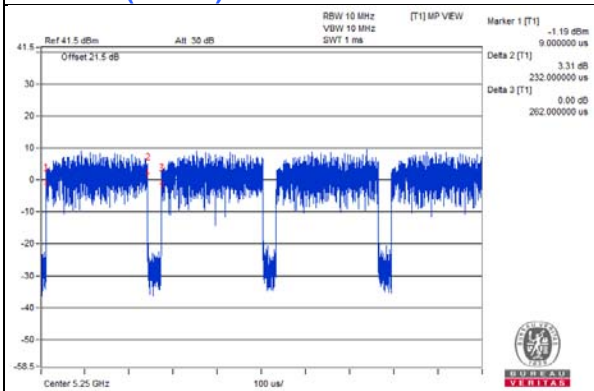
802.11ax (HE40)



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.

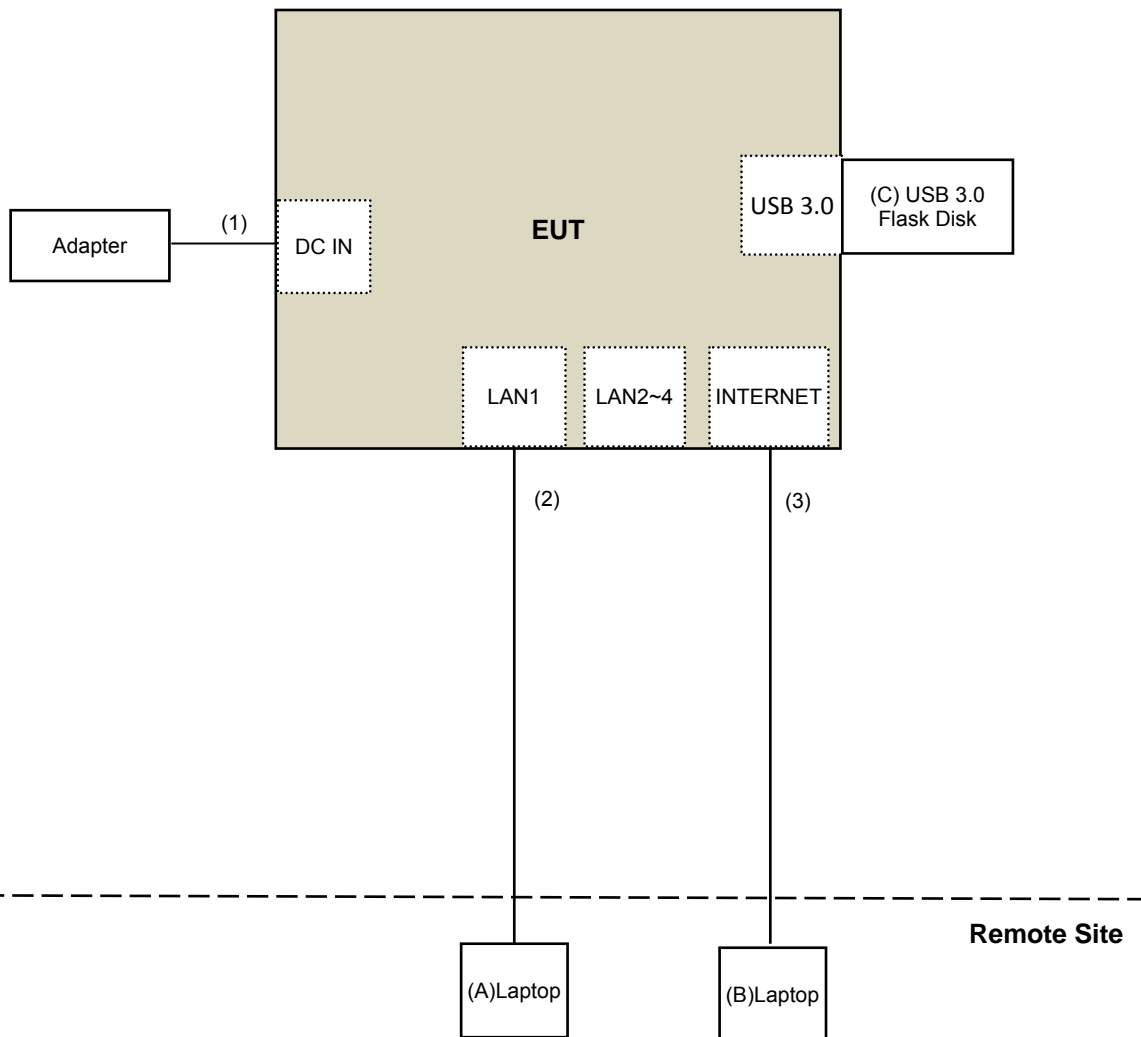
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6420	B92T3R1	FCC DoC	Provided by Lab
B.	Laptop	HP	TPN-Q186	5CD8212YYG	FCC DoC	Provided by Lab
C.	USB 3.0 Disk	Transcend	16GB	NA	NA	Provided by Lab

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

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

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 (dBuV/m)	AV:54 (dBuV/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(dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 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(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*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:

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

4.1.2 Test Instruments

For Below 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 05, 2018	July 04, 2019
Pre-Amplifier EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 15, 2018	Jan. 14, 2019
RF Cable	NA	LOOPCAB-002	Jan. 15, 2018	Jan. 14, 2019
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Oct. 30, 2018	Oct. 29, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-4-1	Mar. 21, 2018	Mar. 20, 2019
RF Cable	8D	966-4-2	Mar. 21, 2018	Mar. 20, 2019
RF Cable	8D	966-4-3	Mar. 21, 2018	Mar. 20, 2019
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Sep. 27, 2018	Sep. 26, 2019
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. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Dec. 15, 2018

For Above 1GHz:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 05, 2018	July 04, 2019
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980385	Aug. 16, 2018	Aug. 15, 2019
RF Cable	EMC104-SM-SM-1200	160923	Jan. 28, 2019	Jan. 27, 2020
RF Cable	104 RF cable	131215	Jan. 10, 2019	Jan. 09, 2020
RF Cable	EMC104-SM-SM-6000	180418	May 07, 2018	May 06, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Spectrum Analyzer R&S	FSV40	100964	June 20, 2018	June 19, 2019
Power meter Anritsu	ML2495A	1014008	May 09, 2018	May 08, 2019
Power sensor Anritsu	MA2411B	0917122	May 09, 2018	May 08, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 09, 2019	Jan. 08, 2020
True RMS Clamp Meter FLUKE	325	31130711WS	May 22, 2018	May 21, 2019

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. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Feb. 20 to Mar. 16, 2019

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:

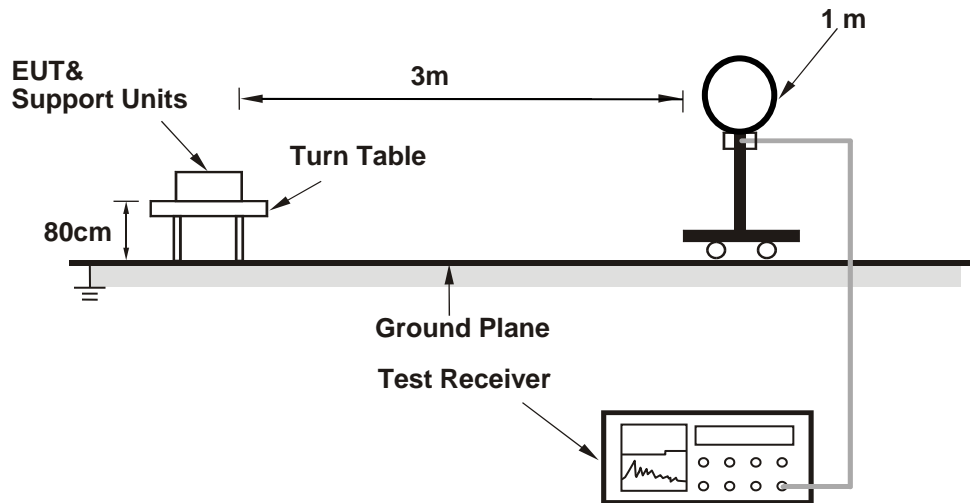
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) 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

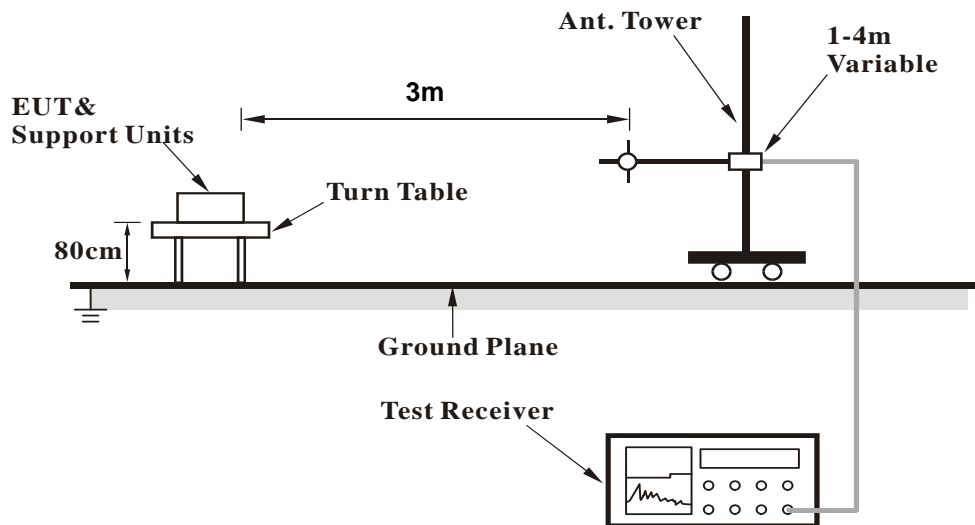
No deviation.

4.1.5 Test Setup

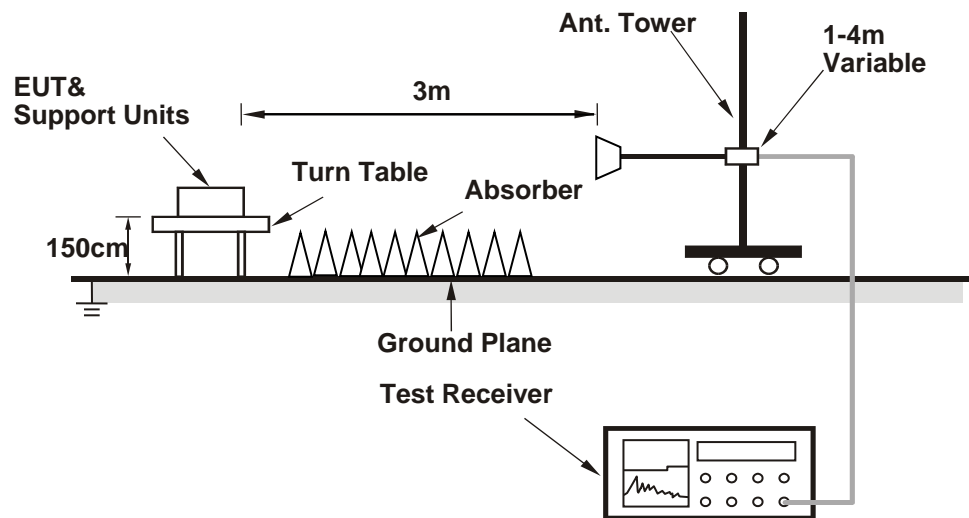
For Radiated emission below 30MHz



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 (Access Manual Tool 3.0.0.6) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz Data:

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (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	60.3 PK	74.0	-13.7	1.43 H	230	57.6	2.7
2	5150.00	42.9 AV	54.0	-11.1	1.43 H	230	40.2	2.7
3	*5180.00	111.7 PK			1.43 H	230	109.0	2.7
4	*5180.00	102.0 AV			1.43 H	230	99.3	2.7
5	#10360.00	56.3 PK	68.2	-11.9	1.25 H	234	43.7	12.6
6	15540.00	47.3 PK	74.0	-26.7	1.66 H	122	34.5	12.8
7	15540.00	35.2 AV	54.0	-18.8	1.66 H	122	22.4	12.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (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	72.7 PK	74.0	-1.3	2.08 V	88	70.0	2.7
2	5150.00	53.8 AV	54.0	-0.2	2.08 V	88	51.1	2.7
3	*5180.00	124.2 PK			2.08 V	88	121.5	2.7
4	*5180.00	114.6 AV			2.08 V	88	111.9	2.7
5	#10360.00	60.0 PK	68.2	-8.2	2.14 V	218	47.4	12.6
6	15540.00	47.6 PK	74.0	-26.4	2.26 V	103	34.8	12.8
7	15540.00	35.4 AV	54.0	-18.6	2.26 V	103	22.6	12.8

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.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	111.7 PK			1.46 H	241	109.0	2.7
2	*5200.00	102.0 AV			1.46 H	241	99.3	2.7
3	#10400.00	56.6 PK	68.2	-11.6	1.27 H	243	43.6	13.0
4	15600.00	47.1 PK	74.0	-26.9	1.63 H	135	34.3	12.8
5	15600.00	35.2 AV	54.0	-18.8	1.63 H	135	22.4	12.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	123.8 PK			1.99 V	85	121.1	2.7
2	*5200.00	114.6 AV			1.99 V	85	111.9	2.7
3	#10400.00	59.6 PK	68.2	-8.6	1.10 V	219	46.6	13.0
4	15600.00	48.0 PK	74.0	-26.0	2.50 V	180	35.2	12.8
5	15600.00	35.6 AV	54.0	-18.4	2.50 V	180	22.8	12.8

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.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	112.0 PK			1.44 H	242	109.7	2.3
2	*5240.00	102.4 AV			1.44 H	242	100.1	2.3
3	5350.00	50.2 PK	74.0	-23.8	1.44 H	242	47.6	2.6
4	5350.00	39.4 AV	54.0	-14.6	1.44 H	242	36.8	2.6
5	#10480.00	56.1 PK	68.2	-12.1	1.25 H	231	43.1	13.0
6	15720.00	47.7 PK	74.0	-26.3	1.68 H	123	35.7	12.0
7	15720.00	35.4 AV	54.0	-18.6	1.68 H	123	23.4	12.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	124.8 PK			1.96 V	86	122.5	2.3
2	*5240.00	115.4 AV			1.96 V	86	113.1	2.3
3	5350.00	61.7 PK	74.0	-12.3	1.96 V	86	59.1	2.6
4	5350.00	50.4 AV	54.0	-3.6	1.96 V	86	47.8	2.6
5	#10480.00	59.4 PK	68.2	-8.8	2.19 V	203	46.4	13.0
6	15720.00	47.4 PK	74.0	-26.6	2.21 V	103	35.4	12.0
7	15720.00	35.1 AV	54.0	-18.9	2.21 V	103	23.1	12.0

REMARKS:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.5 PK	74.0	-23.5	1.39 H	254	47.8	2.7
2	5150.00	39.8 AV	54.0	-14.2	1.39 H	254	37.1	2.7
3	*5260.00	107.5 PK			1.39 H	254	105.2	2.3
4	*5260.00	97.1 AV			1.39 H	254	94.8	2.3
5	#10520.00	40.7 PK	68.2	-27.5	1.24 H	253	27.7	13.0
6	15780.00	47.4 PK	74.0	-26.6	1.75 H	118	35.4	12.0
7	15780.00	35.7 AV	54.0	-18.3	1.75 H	118	23.7	12.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	53.9 PK	74.0	-20.1	1.95 V	86	51.2	2.7
2	5150.00	42.0 AV	54.0	-12.0	1.95 V	86	39.3	2.7
3	*5260.00	119.6 PK			1.95 V	86	117.3	2.3
4	*5260.00	110.1 AV			1.95 V	86	107.8	2.3
5	#10520.00	41.2 PK	68.2	-27.0	2.07 V	192	28.2	13.0
6	15780.00	47.6 PK	74.0	-26.4	2.35 V	105	35.6	12.0
7	15780.00	35.5 AV	54.0	-18.5	2.35 V	105	23.5	12.0

REMARKS:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.6 PK			1.38 H	240	105.2	2.4
2	*5300.00	97.4 AV			1.38 H	240	95.0	2.4
3	10600.00	41.2 PK	74.0	-32.8	1.26 H	241	28.5	12.7
4	10600.00	30.9 AV	54.0	-23.1	1.26 H	241	18.2	12.7
5	15900.00	47.6 PK	74.0	-26.4	1.74 H	126	35.5	12.1
6	15900.00	35.6 AV	54.0	-18.4	1.74 H	126	23.5	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	119.2 PK			2.02 V	85	116.8	2.4
2	*5300.00	110.0 AV			2.02 V	85	107.6	2.4
3	10600.00	41.4 PK	74.0	-32.6	2.10 V	204	28.7	12.7
4	10600.00	31.3 AV	54.0	-22.7	2.10 V	204	18.6	12.7
5	15900.00	48.1 PK	74.0	-25.9	2.31 V	99	36.0	12.1
6	15900.00	35.9 AV	54.0	-18.1	2.31 V	99	23.8	12.1

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.8 PK			1.39 H	269	105.2	2.6
2	*5320.00	97.4 AV			1.39 H	269	94.8	2.6
3	5350.00	52.4 PK	74.0	-21.6	1.39 H	269	49.8	2.6
4	5350.00	39.1 AV	54.0	-14.9	1.39 H	269	36.5	2.6
5	10640.00	41.4 PK	74.0	-32.6	1.30 H	240	28.6	12.8
6	10640.00	31.3 AV	54.0	-22.7	1.30 H	240	18.5	12.8
7	15960.00	47.1 PK	74.0	-26.9	1.77 H	141	34.7	12.4
8	15960.00	35.1 AV	54.0	-18.9	1.77 H	141	22.7	12.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	118.7 PK			1.98 V	86	116.1	2.6
2	*5320.00	109.6 AV			1.98 V	86	107.0	2.6
3	5350.00	58.8 PK	74.0	-15.2	1.98 V	86	56.2	2.6
4	5350.00	45.9 AV	54.0	-8.1	1.98 V	86	43.3	2.6
5	5377.20	61.3 PK	74.0	-12.7	1.98 V	86	58.6	2.7
6	5377.20	49.5 AV	54.0	-4.5	1.98 V	86	46.8	2.7
7	10640.00	40.8 PK	74.0	-33.2	2.09 V	216	28.0	12.8
8	10640.00	30.7 AV	54.0	-23.3	2.09 V	216	17.9	12.8
9	15960.00	48.0 PK	74.0	-26.0	2.32 V	106	35.6	12.4
10	15960.00	35.9 AV	54.0	-18.1	2.32 V	106	23.5	12.4

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	51.6 PK	74.0	-22.4	1.39 H	263	48.7	2.9
2	5460.00	38.9 AV	54.0	-15.1	1.39 H	263	36.0	2.9
3	#5470.00	52.1 PK	68.2	-16.1	1.39 H	263	49.2	2.9
4	*5500.00	107.7 PK			1.39 H	263	104.9	2.8
5	*5500.00	97.3 AV			1.39 H	263	94.5	2.8
6	11000.00	40.9 PK	74.0	-33.1	1.26 H	251	27.3	13.6
7	11000.00	30.8 AV	54.0	-23.2	1.26 H	251	17.2	13.6
8	#16500.00	47.7 PK	68.2	-20.5	1.71 H	114	33.0	14.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5444.80	61.3 PK	74.0	-12.7	2.10 V	86	58.4	2.9
2	5444.80	49.5 AV	54.0	-4.5	2.10 V	86	46.6	2.9
3	5460.00	58.7 PK	74.0	-15.3	2.10 V	86	55.8	2.9
4	5460.00	46.1 AV	54.0	-7.9	2.10 V	86	43.2	2.9
5	#5470.00	60.1 PK	68.2	-8.1	2.10 V	86	57.2	2.9
6	*5500.00	119.1 PK			2.10 V	86	116.3	2.8
7	*5500.00	109.0 AV			2.10 V	86	106.2	2.8
8	11000.00	41.0 PK	74.0	-33.0	2.11 V	218	27.4	13.6
9	11000.00	30.8 AV	54.0	-23.2	2.11 V	218	17.2	13.6
10	#16500.00	47.4 PK	68.2	-20.8	2.26 V	103	32.7	14.7

REMARKS:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.2 PK			1.36 H	249	104.3	2.9
2	*5580.00	96.8 AV			1.36 H	249	93.9	2.9
3	11160.00	41.4 PK	74.0	-32.6	1.32 H	247	28.3	13.1
4	11160.00	31.1 AV	54.0	-22.9	1.32 H	247	18.0	13.1
5	#16740.00	46.8 PK	68.2	-21.4	1.71 H	131	30.7	16.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	118.6 PK			2.06 V	85	115.7	2.9
2	*5580.00	108.7 AV			2.06 V	85	105.8	2.9
3	11160.00	41.2 PK	74.0	-32.8	2.11 V	188	28.1	13.1
4	11160.00	30.9 AV	54.0	-23.1	2.11 V	188	17.8	13.1
5	#16740.00	47.7 PK	68.2	-20.5	2.31 V	103	31.6	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 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.7 PK			1.43 H	240	104.4	3.3
2	*5700.00	97.2 AV			1.43 H	240	93.9	3.3
3	#5725.00	52.1 PK	68.2	-16.1	1.43 H	240	48.9	3.2
4	11400.00	41.2 PK	74.0	-32.8	1.31 H	230	27.7	13.5
5	11400.00	30.7 AV	54.0	-23.3	1.31 H	230	17.2	13.5
6	#17100.00	48.2 PK	68.2	-20.0	1.80 H	123	32.0	16.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	119.3 PK			2.05 V	85	116.0	3.3
2	*5700.00	109.3 AV			2.05 V	85	106.0	3.3
3	#5725.00	59.5 PK	68.2	-8.7	2.05 V	85	56.3	3.2
4	#5761.70	60.1 PK	68.2	-8.1	2.05 V	85	56.8	3.3
5	11400.00	40.9 PK	74.0	-33.1	2.11 V	198	27.4	13.5
6	11400.00	30.4 AV	54.0	-23.6	2.11 V	198	16.9	13.5
7	#17100.00	47.4 PK	68.2	-20.8	2.27 V	111	31.2	16.2

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 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	51.6 PK	68.2	-16.6	1.37 H	248	48.7	2.9
2	*5720.00	107.0 PK			1.37 H	248	103.7	3.3
3	*5720.00	96.7 AV			1.37 H	248	93.4	3.3
4	#5850.00	52.0 PK	68.2	-16.2	1.37 H	248	48.3	3.7
5	11440.00	41.2 PK	74.0	-32.8	1.28 H	228	27.8	13.4
6	11440.00	30.7 AV	54.0	-23.3	1.28 H	228	17.3	13.4
7	#17160.00	47.5 PK	68.2	-20.7	1.79 H	110	31.2	16.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5421.90	58.0 PK	74.0	-16.0	1.97 V	84	55.2	2.8
2	5421.90	46.2 AV	54.0	-7.8	1.97 V	84	43.4	2.8
3	#5470.00	57.2 PK	68.2	-11.0	1.97 V	84	54.3	2.9
4	*5720.00	118.3 PK			1.97 V	84	115.0	3.3
5	*5720.00	108.2 AV			1.97 V	84	104.9	3.3
6	#5850.00	56.0 PK	68.2	-12.2	1.97 V	84	52.3	3.7
7	11440.00	41.8 PK	74.0	-32.2	2.09 V	204	28.4	13.4
8	11440.00	31.3 AV	54.0	-22.7	2.09 V	204	17.9	13.4
9	#17160.00	47.8 PK	68.2	-20.4	2.35 V	93	31.5	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 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.74	51.9 PK	68.2	-16.3	2.73 H	60	49.0	2.9
2	*5745.00	113.0 PK			2.73 H	60	109.7	3.3
3	*5745.00	103.4 AV			2.73 H	60	100.1	3.3
4	#5947.05	50.6 PK	68.2	-17.6	2.73 H	60	47.0	3.6
5	11490.00	46.4 PK	74.0	-27.6	1.21 H	58	33.1	13.3
6	11490.00	35.5 AV	54.0	-18.5	1.21 H	58	22.2	13.3
7	#17235.00	50.1 PK	68.2	-18.1	1.45 H	159	33.6	16.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5596.87	64.2 PK	68.2	-4.0	2.04 V	84	61.3	2.9
2	*5745.00	125.9 PK			2.04 V	84	122.6	3.3
3	*5745.00	116.2 AV			2.04 V	84	112.9	3.3
4	#5957.55	62.3 PK	68.2	-5.9	2.04 V	84	58.7	3.6
5	11490.00	47.0 PK	74.0	-27.0	1.30 V	65	33.7	13.3
6	11490.00	38.5 AV	54.0	-15.5	1.30 V	65	25.2	13.3
7	#17235.00	50.2 PK	68.2	-18.0	1.74 V	325	33.7	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 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.54	50.9 PK	68.2	-17.3	1.18 H	168	48.0	2.9
2	*5785.00	113.3 PK			1.18 H	168	109.9	3.4
3	*5785.00	103.4 AV			1.18 H	168	100.0	3.4
4	#5958.84	50.6 PK	68.2	-17.6	1.18 H	168	47.0	3.6
5	11570.00	46.5 PK	74.0	-27.5	1.19 H	65	33.5	13.0
6	11570.00	35.3 AV	54.0	-18.7	1.19 H	65	22.3	13.0
7	#17355.00	50.7 PK	68.2	-17.5	1.41 H	166	33.6	17.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5600.93	63.4 PK	68.2	-4.8	1.98 V	86	60.4	3.0
2	*5785.00	125.6 PK			1.98 V	86	122.2	3.4
3	*5785.00	115.7 AV			1.98 V	86	112.3	3.4
4	#5963.25	62.9 PK	68.2	-5.3	1.98 V	86	59.3	3.6
5	11570.00	47.7 PK	74.0	-26.3	1.33 V	44	34.7	13.0
6	11570.00	39.1 AV	54.0	-14.9	1.33 V	44	26.1	13.0
7	#17355.00	50.0 PK	68.2	-18.2	1.78 V	340	32.9	17.1

REMARKS:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.37	60.4 PK	68.2	-7.8	1.34 H	216	57.1	3.3
2	*5825.00	111.7 PK			1.51 H	136	108.1	3.6
3	*5825.00	102.2 AV			1.51 H	136	98.6	3.6
4	#5958.50	60.0 PK	68.2	-8.2	1.51 H	136	56.5	3.5
5	11650.00	46.6 PK	74.0	-27.4	1.18 H	63	33.7	12.9
6	11650.00	35.4 AV	54.0	-18.6	1.18 H	63	22.5	12.9
7	#17475.00	50.2 PK	68.2	-18.0	1.41 H	171	31.8	18.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.68	63.5 PK	68.2	-4.7	1.94 V	88	60.6	2.9
2	*5825.00	125.8 PK			1.94 V	88	122.2	3.6
3	*5825.00	116.0 AV			1.94 V	88	112.4	3.6
4	#5980.23	62.3 PK	68.2	-5.9	1.94 V	88	58.7	3.6
5	11650.00	47.6 PK	74.0	-26.4	1.30 V	60	34.7	12.9
6	11650.00	38.9 AV	54.0	-15.1	1.30 V	60	26.0	12.9
7	#17475.00	50.5 PK	68.2	-17.7	1.79 V	340	32.1	18.4

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.

802.11ax (HE20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	60.5 PK	74.0	-13.5	1.55 H	152	57.8	2.7
2	5150.00	43.3 AV	54.0	-10.7	1.55 H	152	40.6	2.7
3	*5180.00	109.6 PK			1.55 H	152	106.9	2.7
4	*5180.00	97.6 AV			1.55 H	152	94.9	2.7
5	#10360.00	55.9 PK	68.2	-12.3	1.20 H	222	43.3	12.6
6	15540.00	47.0 PK	74.0	-27.0	1.67 H	108	34.2	12.8
7	15540.00	34.8 AV	54.0	-19.2	1.67 H	108	22.0	12.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	72.0 PK	74.0	-2.0	2.06 V	150	69.3	2.7
2	5150.00	53.7 AV	54.0	-0.3	2.06 V	150	51.0	2.7
3	*5180.00	124.4 PK			2.06 V	150	121.7	2.7
4	*5180.00	111.4 AV			2.06 V	150	108.7	2.7
5	#10360.00	60.2 PK	68.2	-8.0	2.14 V	229	47.6	12.6
6	15540.00	47.1 PK	74.0	-26.9	2.27 V	91	34.3	12.8
7	15540.00	35.0 AV	54.0	-19.0	2.27 V	91	22.2	12.8

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.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.3 PK	74.0	-23.7	1.60 H	140	47.6	2.7
2	5150.00	39.1 AV	54.0	-14.9	1.60 H	140	36.4	2.7
3	*5200.00	109.8 PK			1.60 H	140	107.1	2.7
4	*5200.00	97.5 AV			1.60 H	140	94.8	2.7
5	#10400.00	56.2 PK	68.2	-12.0	1.25 H	239	43.2	13.0
6	15600.00	47.6 PK	74.0	-26.4	1.71 H	132	34.8	12.8
7	15600.00	35.4 AV	54.0	-18.6	1.71 H	132	22.6	12.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	63.8 PK	74.0	-10.2	1.92 V	84	61.1	2.7
2	5150.00	51.0 AV	54.0	-3.0	1.92 V	84	48.3	2.7
3	*5200.00	125.1 PK			1.92 V	84	122.4	2.7
4	*5200.00	112.5 AV			1.92 V	84	109.8	2.7
5	#10400.00	60.0 PK	68.2	-8.2	2.19 V	216	47.0	13.0
6	15600.00	48.1 PK	74.0	-25.9	2.30 V	107	35.3	12.8
7	15600.00	35.9 AV	54.0	-18.1	2.30 V	107	23.1	12.8

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.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	109.1 PK			1.60 H	157	106.8	2.3
2	*5240.00	97.2 AV			1.60 H	157	94.9	2.3
3	5350.00	50.1 PK	74.0	-23.9	1.60 H	157	47.5	2.6
4	5350.00	39.2 AV	54.0	-14.8	1.60 H	157	36.6	2.6
5	#10480.00	56.3 PK	68.2	-11.9	1.27 H	245	43.3	13.0
6	15720.00	47.4 PK	74.0	-26.6	1.61 H	137	35.4	12.0
7	15720.00	35.1 AV	54.0	-18.9	1.61 H	137	23.1	12.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	126.1 PK			1.92 V	85	123.8	2.3
2	*5240.00	113.3 AV			1.92 V	85	111.0	2.3
3	5350.00	62.2 PK	74.0	-11.8	1.92 V	85	59.6	2.6
4	5350.00	49.1 AV	54.0	-4.9	1.92 V	85	46.5	2.6
5	#10480.00	60.1 PK	68.2	-8.1	2.10 V	213	47.1	13.0
6	15720.00	47.9 PK	74.0	-26.1	2.24 V	105	35.9	12.0
7	15720.00	35.5 AV	54.0	-18.5	2.24 V	105	23.5	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 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.2 PK	74.0	-23.8	1.61 H	155	47.5	2.7
2	5150.00	39.3 AV	54.0	-14.7	1.61 H	155	36.6	2.7
3	*5260.00	106.8 PK			1.61 H	155	104.5	2.3
4	*5260.00	94.1 AV			1.61 H	155	91.8	2.3
5	#10520.00	55.6 PK	68.2	-12.6	1.28 H	226	42.6	13.0
6	15780.00	47.3 PK	74.0	-26.7	1.68 H	128	35.3	12.0
7	15780.00	35.5 AV	54.0	-18.5	1.68 H	128	23.5	12.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	1.96 V	84	51.9	2.7
2	5150.00	42.6 AV	54.0	-11.4	1.96 V	84	39.9	2.7
3	*5260.00	121.6 PK			1.96 V	84	119.3	2.3
4	*5260.00	108.5 AV			1.96 V	84	106.2	2.3
5	#10520.00	41.6 PK	68.2	-26.6	2.09 V	184	28.6	13.0
6	15780.00	47.2 PK	74.0	-26.8	2.40 V	119	35.2	12.0
7	15780.00	35.1 AV	54.0	-18.9	2.40 V	119	23.1	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 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	106.7 PK			1.66 H	169	104.3	2.4
2	*5300.00	93.9 AV			1.66 H	169	91.5	2.4
3	10600.00	41.1 PK	74.0	-32.9	1.19 H	234	28.4	12.7
4	10600.00	30.5 AV	54.0	-23.5	1.19 H	234	17.8	12.7
5	15900.00	47.1 PK	74.0	-26.9	1.60 H	131	35.0	12.1
6	15900.00	34.9 AV	54.0	-19.1	1.60 H	131	22.8	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	121.7 PK			1.94 V	86	119.3	2.4
2	*5300.00	108.6 AV			1.94 V	86	106.2	2.4
3	10600.00	41.7 PK	74.0	-32.3	2.03 V	207	29.0	12.7
4	10600.00	31.1 AV	54.0	-22.9	2.03 V	207	18.4	12.7
5	15900.00	47.1 PK	74.0	-26.9	2.29 V	112	35.0	12.1
6	15900.00	35.3 AV	54.0	-18.7	2.29 V	112	23.2	12.1

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	106.1 PK			1.60 H	146	103.5	2.6
2	*5320.00	93.7 AV			1.60 H	146	91.1	2.6
3	5350.00	50.5 PK	74.0	-23.5	1.60 H	146	47.9	2.6
4	5350.00	39.5 AV	54.0	-14.5	1.60 H	146	36.9	2.6
5	10640.00	41.2 PK	74.0	-32.8	1.21 H	231	28.4	12.8
6	10640.00	30.6 AV	54.0	-23.4	1.21 H	231	17.8	12.8
7	15960.00	47.9 PK	74.0	-26.1	1.65 H	117	35.5	12.4
8	15960.00	35.6 AV	54.0	-18.4	1.65 H	117	23.2	12.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	121.9 PK			2.01 V	85	119.3	2.6
2	*5320.00	108.5 AV			2.01 V	85	105.9	2.6
3	5350.00	58.0 PK	74.0	-16.0	2.01 V	85	55.4	2.6
4	5350.00	45.5 AV	54.0	-8.5	2.01 V	85	42.9	2.6
5	10640.00	41.2 PK	74.0	-32.8	2.09 V	183	28.4	12.8
6	10640.00	30.9 AV	54.0	-23.1	2.09 V	183	18.1	12.8
7	15960.00	47.6 PK	74.0	-26.4	2.29 V	119	35.2	12.4
8	15960.00	35.8 AV	54.0	-18.2	2.29 V	119	23.4	12.4

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	49.8 PK	74.0	-24.2	1.56 H	156	46.9	2.9
2	5460.00	39.2 AV	54.0	-14.8	1.56 H	156	36.3	2.9
3	#5470.00	51.4 PK	68.2	-16.8	1.56 H	156	48.5	2.9
4	*5500.00	107.1 PK			1.56 H	156	104.3	2.8
5	*5500.00	94.4 AV			1.56 H	156	91.6	2.8
6	11000.00	41.1 PK	74.0	-32.9	1.20 H	240	27.5	13.6
7	11000.00	30.5 AV	54.0	-23.5	1.20 H	240	16.9	13.6
8	#16500.00	47.3 PK	68.2	-20.9	1.66 H	114	32.6	14.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5442.90	61.3 PK	74.0	-12.7	2.03 V	85	58.4	2.9
2	5442.90	49.6 AV	54.0	-4.4	2.03 V	85	46.7	2.9
3	5460.00	62.6 PK	74.0	-11.4	2.03 V	85	59.7	2.9
4	5460.00	46.2 AV	54.0	-7.8	2.03 V	85	43.3	2.9
5	#5470.00	65.1 PK	68.2	-3.1	2.03 V	85	62.2	2.9
6	*5500.00	121.9 PK			2.03 V	85	119.1	2.8
7	*5500.00	108.4 AV			2.03 V	85	105.6	2.8
8	11000.00	40.7 PK	74.0	-33.3	2.13 V	210	27.1	13.6
9	11000.00	30.5 AV	54.0	-23.5	2.13 V	210	16.9	13.6
10	#16500.00	47.3 PK	68.2	-20.9	2.28 V	98	32.6	14.7

REMARKS:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.2 PK			1.60 H	168	104.3	2.9
2	*5580.00	94.6 AV			1.60 H	168	91.7	2.9
3	11160.00	41.5 PK	74.0	-32.5	1.26 H	222	28.4	13.1
4	11160.00	31.2 AV	54.0	-22.8	1.26 H	222	18.1	13.1
5	#16740.00	47.6 PK	68.2	-20.6	1.65 H	114	31.5	16.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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			1.99 V	85	118.8	2.9
2	*5580.00	108.5 AV			1.99 V	85	105.6	2.9
3	11160.00	40.8 PK	74.0	-33.2	2.13 V	206	27.7	13.1
4	11160.00	30.7 AV	54.0	-23.3	2.13 V	206	17.6	13.1
5	#16740.00	48.0 PK	68.2	-20.2	2.21 V	89	31.9	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 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	106.9 PK			1.66 H	151	103.6	3.3
2	*5700.00	94.4 AV			1.66 H	151	91.1	3.3
3	#5725.00	56.2 PK	68.2	-12.0	1.66 H	151	53.0	3.2
4	11400.00	41.2 PK	74.0	-32.8	1.26 H	222	27.7	13.5
5	11400.00	31.1 AV	54.0	-22.9	1.26 H	222	17.6	13.5
6	#17100.00	46.6 PK	68.2	-21.6	1.71 H	112	30.4	16.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	119.4 PK			2.02 V	83	116.1	3.3
2	*5700.00	106.7 AV			2.02 V	83	103.4	3.3
3	#5725.00	68.1 PK	68.2	-0.1	2.02 V	83	64.9	3.2
4	11400.00	41.6 PK	74.0	-32.4	2.16 V	210	28.1	13.5
5	11400.00	31.1 AV	54.0	-22.9	2.16 V	210	17.6	13.5
6	#17100.00	47.5 PK	68.2	-20.7	2.30 V	91	31.3	16.2

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 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	51.6 PK	68.2	-16.6	1.66 H	171	48.7	2.9
2	*5720.00	107.0 PK			1.66 H	171	103.7	3.3
3	*5720.00	94.1 AV			1.66 H	171	90.8	3.3
4	#5850.00	51.0 PK	68.2	-17.2	1.66 H	171	47.3	3.7
5	11440.00	41.7 PK	74.0	-32.3	1.27 H	232	28.3	13.4
6	11440.00	31.3 AV	54.0	-22.7	1.27 H	232	17.9	13.4
7	#17160.00	46.8 PK	68.2	-21.4	1.70 H	118	30.5	16.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5422.10	55.1 PK	74.0	-18.9	1.98 V	132	52.3	2.8
2	5422.10	45.6 AV	54.0	-8.4	1.98 V	132	42.8	2.8
3	#5470.00	56.1 PK	68.2	-12.1	1.98 V	132	53.2	2.9
4	*5720.00	119.6 PK			1.98 V	132	116.3	3.3
5	*5720.00	106.7 AV			1.98 V	132	103.4	3.3
6	#5850.00	54.0 PK	68.2	-14.2	1.98 V	132	50.3	3.7
7	11440.00	40.8 PK	74.0	-33.2	2.10 V	212	27.4	13.4
8	11440.00	30.4 AV	54.0	-23.6	2.10 V	212	17.0	13.4
9	#17160.00	47.3 PK	68.2	-20.9	2.24 V	111	31.0	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 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5585.74	50.9 PK	68.2	-17.3	2.73 H	162	48.0	2.9
2	*5745.00	115.2 PK			2.73 H	162	111.9	3.3
3	*5745.00	102.0 AV			2.73 H	162	98.7	3.3
4	#5941.13	51.4 PK	68.2	-16.8	2.73 H	162	47.9	3.5
5	11490.00	46.8 PK	74.0	-27.2	1.24 H	63	33.5	13.3
6	11490.00	35.9 AV	54.0	-18.1	1.24 H	63	22.6	13.3
7	#17235.00	50.0 PK	68.2	-18.2	1.44 H	154	33.5	16.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.73	63.8 PK	68.2	-4.4	1.98 V	74	60.8	3.0
2	*5745.00	127.8 PK			1.98 V	74	124.5	3.3
3	*5745.00	115.1 AV			1.98 V	74	111.8	3.3
4	#5927.29	61.1 PK	68.2	-7.1	1.98 V	74	57.5	3.6
5	11490.00	46.9 PK	74.0	-27.1	1.29 V	70	33.6	13.3
6	11490.00	38.5 AV	54.0	-15.5	1.29 V	70	25.2	13.3
7	#17235.00	50.0 PK	68.2	-18.2	1.74 V	336	33.5	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 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.82	51.3 PK	68.2	-16.9	1.54 H	164	48.4	2.9
2	*5785.00	112.8 PK			1.54 H	164	109.4	3.4
3	*5785.00	100.9 AV			1.54 H	164	97.5	3.4
4	#5966.41	49.9 PK	68.2	-18.3	1.54 H	164	46.3	3.6
5	11570.00	46.2 PK	74.0	-27.8	1.24 H	71	33.2	13.0
6	11570.00	35.1 AV	54.0	-18.9	1.24 H	71	22.1	13.0
7	#17355.00	50.8 PK	68.2	-17.4	1.49 H	151	33.7	17.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5597.22	64.1 PK	68.2	-4.1	1.95 V	72	61.2	2.9
2	*5785.00	128.0 PK			1.95 V	72	124.6	3.4
3	*5785.00	115.3 AV			1.95 V	72	111.9	3.4
4	#5951.58	62.3 PK	68.2	-5.9	1.95 V	72	58.7	3.6
5	11570.00	47.4 PK	74.0	-26.6	1.30 V	75	34.4	13.0
6	11570.00	38.7 AV	54.0	-15.3	1.30 V	75	25.7	13.0
7	#17355.00	49.6 PK	68.2	-18.6	1.74 V	335	32.5	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 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.09	50.9 PK	68.2	-17.3	3.08 H	55	48.0	2.9
2	*5825.00	113.6 PK			3.08 H	55	110.0	3.6
3	*5825.00	101.3 AV			3.08 H	55	97.7	3.6
4	#5926.00	50.3 PK	68.2	-17.9	3.08 H	55	46.7	3.6
5	11650.00	46.0 PK	74.0	-28.0	1.17 H	69	33.1	12.9
6	11650.00	35.2 AV	54.0	-18.8	1.17 H	69	22.3	12.9
7	#17475.00	49.9 PK	68.2	-18.3	1.39 H	167	31.5	18.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5640.99	63.4 PK	68.2	-4.8	1.90 V	66	60.5	2.9
2	*5825.00	127.9 PK			1.90 V	66	124.3	3.6
3	*5825.00	115.3 AV			1.90 V	66	111.7	3.6
4	#5944.97	61.4 PK	68.2	-6.8	1.90 V	66	57.8	3.6
5	11650.00	47.7 PK	74.0	-26.3	1.35 V	74	34.8	12.9
6	11650.00	39.0 AV	54.0	-15.0	1.35 V	74	26.1	12.9
7	#17475.00	50.0 PK	68.2	-18.2	1.69 V	331	31.6	18.4

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.

802.11ax (HE40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	60.0 PK	74.0	-14.0	3.14 H	63	57.3	2.7
2	5150.00	43.0 AV	54.0	-11.0	3.14 H	63	40.3	2.7
3	*5190.00	99.9 PK			3.14 H	63	97.2	2.7
4	*5190.00	89.7 AV			3.14 H	63	87.0	2.7
5	5350.00	49.7 PK	74.0	-24.3	3.14 H	63	47.1	2.6
6	5350.00	39.1 AV	54.0	-14.9	3.14 H	63	36.5	2.6
7	#10380.00	41.4 PK	68.2	-26.8	1.13 H	76	28.6	12.8
8	15570.00	47.8 PK	74.0	-26.2	1.39 H	166	35.1	12.7
9	15570.00	35.6 AV	54.0	-18.4	1.39 H	166	22.9	12.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	67.1 PK	74.0	-6.9	1.84 V	135	64.4	2.7
2	5150.00	53.7 AV	54.0	-0.3	1.84 V	135	51.0	2.7
3	*5190.00	114.5 PK			1.84 V	135	111.8	2.7
4	*5190.00	104.2 AV			1.84 V	135	101.5	2.7
5	5350.00	55.4 PK	74.0	-18.6	1.84 V	135	52.8	2.6
6	5350.00	43.3 AV	54.0	-10.7	1.84 V	135	40.7	2.6
7	#10380.00	41.4 PK	68.2	-26.8	2.11 V	180	28.6	12.8
8	15570.00	47.5 PK	74.0	-26.5	2.34 V	104	34.8	12.7
9	15570.00	35.2 AV	54.0	-18.8	2.34 V	104	22.5	12.7

REMARKS:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	107.6 PK			3.12 H	50	105.2	2.4
2	*5230.00	97.5 AV			3.12 H	50	95.1	2.4
3	5350.00	60.1 PK	74.0	-13.9	3.12 H	50	57.5	2.6
4	5350.00	43.0 AV	54.0	-11.0	3.12 H	50	40.4	2.6
5	#10460.00	40.9 PK	68.2	-27.3	1.15 H	87	27.9	13.0
6	15690.00	47.6 PK	74.0	-26.4	1.36 H	170	35.5	12.1
7	15690.00	35.4 AV	54.0	-18.6	1.36 H	170	23.3	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	121.7 PK			1.96 V	84	119.3	2.4
2	*5230.00	111.0 AV			1.96 V	84	108.6	2.4
3	5350.00	65.0 PK	74.0	-9.0	1.96 V	84	62.4	2.6
4	5350.00	53.7 AV	54.0	-0.3	1.96 V	84	51.1	2.6
5	#10460.00	41.6 PK	68.2	-26.6	2.08 V	169	28.6	13.0
6	15690.00	47.2 PK	74.0	-26.8	2.35 V	128	35.1	12.1
7	15690.00	35.1 AV	54.0	-18.9	2.35 V	128	23.0	12.1

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 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.5 PK	74.0	-23.5	3.11 H	40	47.8	2.7
2	5150.00	39.7 AV	54.0	-14.3	3.11 H	40	37.0	2.7
3	*5270.00	105.6 PK			3.11 H	40	103.3	2.3
4	*5270.00	94.3 AV			3.11 H	40	92.0	2.3
5	#10540.00	41.2 PK	68.2	-27.0	1.13 H	90	28.2	13.0
6	15810.00	48.6 PK	74.0	-25.4	1.36 H	161	36.5	12.1
7	15810.00	36.1 AV	54.0	-17.9	1.36 H	161	24.0	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	57.7 PK	74.0	-16.3	1.95 V	134	55.0	2.7
2	5150.00	48.0 AV	54.0	-6.0	1.95 V	134	45.3	2.7
3	*5270.00	119.2 PK			1.95 V	134	116.9	2.3
4	*5270.00	108.0 AV			1.95 V	134	105.7	2.3
5	#10540.00	41.3 PK	68.2	-26.9	2.08 V	195	28.3	13.0
6	15810.00	47.3 PK	74.0	-26.7	2.40 V	118	35.2	12.1
7	15810.00	35.2 AV	54.0	-18.8	2.40 V	118	23.1	12.1

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 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	100.2 PK			3.09 H	26	97.7	2.5
2	*5310.00	91.6 AV			3.09 H	26	89.1	2.5
3	5350.00	59.8 PK	74.0	-14.2	3.09 H	26	57.2	2.6
4	5350.00	42.9 AV	54.0	-11.1	3.09 H	26	40.3	2.6
5	10620.00	40.9 PK	74.0	-33.1	1.12 H	61	28.2	12.7
6	10620.00	30.6 AV	54.0	-23.4	1.12 H	61	17.9	12.7
7	15930.00	47.2 PK	74.0	-26.8	1.38 H	153	35.1	12.1
8	15930.00	35.2 AV	54.0	-18.8	1.38 H	153	23.1	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	114.8 PK			1.86 V	53	112.3	2.5
2	*5310.00	105.2 AV			1.86 V	53	102.7	2.5
3	5350.00	65.0 PK	74.0	-9.0	1.86 V	53	62.4	2.6
4	5350.00	53.9 AV	54.0	-0.1	1.86 V	53	51.3	2.6
5	10620.00	41.4 PK	74.0	-32.6	2.13 V	181	28.7	12.7
6	10620.00	30.7 AV	54.0	-23.3	2.13 V	181	18.0	12.7
7	15930.00	46.5 PK	74.0	-27.5	2.39 V	106	34.4	12.1
8	15930.00	34.6 AV	54.0	-19.4	2.39 V	106	22.5	12.1

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.2 PK	74.0	-23.8	3.08 H	31	47.3	2.9
2	5460.00	39.3 AV	54.0	-14.7	3.08 H	31	36.4	2.9
3	#5470.00	51.2 PK	68.2	-17.0	3.08 H	31	48.3	2.9
4	*5510.00	100.0 PK			3.08 H	31	97.2	2.8
5	*5510.00	91.4 AV			3.08 H	31	88.6	2.8
6	11020.00	41.3 PK	74.0	-32.7	1.10 H	68	27.8	13.5
7	11020.00	31.0 AV	54.0	-23.0	1.10 H	68	17.5	13.5
8	#16530.00	48.3 PK	68.2	-19.9	1.42 H	158	33.6	14.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	59.1 PK	74.0	-14.9	1.85 V	82	56.2	2.9
2	5460.00	48.8 AV	54.0	-5.2	1.85 V	82	45.9	2.9
3	#5470.00	68.1 PK	68.2	-0.1	1.85 V	82	65.2	2.9
4	*5510.00	117.3 PK			1.85 V	82	114.5	2.8
5	*5510.00	105.9 AV			1.85 V	82	103.1	2.8
6	11020.00	41.3 PK	74.0	-32.7	2.06 V	184	27.8	13.5
7	11020.00	30.4 AV	54.0	-23.6	2.06 V	184	16.9	13.5
8	#16530.00	47.0 PK	68.2	-21.2	2.40 V	123	32.3	14.7

REMARKS:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	60.5 PK	74.0	-13.5	3.05 H	19	57.6	2.9
2	5460.00	43.5 AV	54.0	-10.5	3.05 H	19	40.6	2.9
3	#5470.00	51.6 PK	68.2	-16.6	3.05 H	19	48.7	2.9
4	*5550.00	109.3 PK			3.05 H	19	106.4	2.9
5	*5550.00	98.2 AV			3.05 H	19	95.3	2.9
6	11100.00	41.5 PK	74.0	-32.5	1.17 H	69	28.5	13.0
7	11100.00	31.0 AV	54.0	-23.0	1.17 H	69	18.0	13.0
8	#16650.00	47.8 PK	68.2	-20.4	1.38 H	153	32.3	15.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	62.0 PK	74.0	-12.0	1.91 V	31	59.1	2.9
2	5460.00	53.7 AV	54.0	-0.3	1.91 V	31	50.8	2.9
3	#5470.00	63.7 PK	68.2	-4.5	1.91 V	31	60.8	2.9
4	*5550.00	123.7 PK			1.91 V	31	120.8	2.9
5	*5550.00	112.8 AV			1.91 V	31	109.9	2.9
6	11100.00	42.0 PK	74.0	-32.0	2.08 V	189	29.0	13.0
7	11100.00	31.2 AV	54.0	-22.8	2.08 V	189	18.2	13.0
8	#16650.00	47.3 PK	68.2	-20.9	2.38 V	124	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 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	104.3 PK			3.09 H	31	101.2	3.1
2	*5670.00	94.5 AV			3.09 H	31	91.4	3.1
3	#5725.00	52.0 PK	68.2	-16.2	3.09 H	31	48.8	3.2
4	11340.00	41.6 PK	74.0	-32.4	1.12 H	70	28.2	13.4
5	11340.00	31.0 AV	54.0	-23.0	1.12 H	70	17.6	13.4
6	#17010.00	47.4 PK	68.2	-20.8	1.38 H	180	30.8	16.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	118.4 PK			1.28 V	108	115.3	3.1
2	*5670.00	108.1 AV			1.28 V	108	105.0	3.1
3	#5725.00	67.9 PK	68.2	-0.3	1.28 V	108	64.7	3.2
4	11340.00	41.3 PK	74.0	-32.7	2.08 V	175	27.9	13.4
5	11340.00	30.5 AV	54.0	-23.5	2.08 V	175	17.1	13.4
6	#17010.00	47.1 PK	68.2	-21.1	2.45 V	126	30.5	16.6

REMARKS:

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

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	52.0 PK	68.2	-16.2	3.06 H	31	49.1	2.9
2	*5710.00	104.3 PK			3.06 H	31	101.0	3.3
3	*5710.00	94.4 AV			3.06 H	31	91.1	3.3
4	#5850.00	51.1 PK	68.2	-17.1	3.06 H	31	47.4	3.7
5	11420.00	41.7 PK	74.0	-32.3	1.12 H	70	28.4	13.3
6	11420.00	31.0 AV	54.0	-23.0	1.12 H	70	17.7	13.3
7	#17130.00	48.2 PK	68.2	-20.0	1.36 H	160	31.9	16.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	57.2 PK	68.2	-11.0	1.29 V	107	54.3	2.9
2	*5710.00	119.7 PK			1.29 V	107	116.4	3.3
3	*5710.00	109.6 AV			1.29 V	107	106.3	3.3
4	#5850.00	57.0 PK	68.2	-11.2	1.29 V	107	53.3	3.7
5	11420.00	41.3 PK	74.0	-32.7	2.14 V	172	28.0	13.3
6	11420.00	30.5 AV	54.0	-23.5	2.14 V	172	17.2	13.3
7	#17130.00	47.1 PK	68.2	-21.1	2.42 V	119	30.8	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 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.76	52.2 PK	68.8	-16.6	2.19 H	266	49.3	2.9
2	*5755.00	113.2 PK			2.19 H	266	109.9	3.3
3	*5755.00	102.4 AV			2.19 H	266	99.1	3.3
4	#5970.29	50.6 PK	68.2	-17.6	2.19 H	266	47.0	3.6
5	11510.00	46.1 PK	74.0	-27.9	1.24 H	71	32.8	13.3
6	11510.00	35.0 AV	54.0	-19.0	1.24 H	71	21.7	13.3
7	#17265.00	51.2 PK	68.2	-17.0	1.48 H	148	34.8	16.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.82	67.7 PK	68.8	-1.1	2.05 V	64	64.8	2.9
2	*5755.00	125.5 PK			2.05 V	64	122.2	3.3
3	*5755.00	115.4 AV			2.05 V	64	112.1	3.3
4	#5954.26	61.1 PK	68.2	-7.1	2.05 V	64	57.5	3.6
5	11510.00	45.6 PK	74.0	-28.4	2.11 V	172	32.3	13.3
6	11510.00	35.0 AV	54.0	-19.0	2.11 V	172	21.7	13.3
7	#17265.00	50.3 PK	68.2	-17.9	2.48 V	128	33.9	16.4

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 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.83	51.5 PK	68.2	-16.7	1.18 H	135	48.5	3.0
2	*5795.00	110.7 PK			1.18 H	135	107.3	3.4
3	*5795.00	101.6 AV			1.18 H	135	98.2	3.4
4	#5927.73	53.4 PK	68.2	-14.8	1.18 H	135	49.8	3.6
5	11590.00	46.2 PK	74.0	-27.8	1.25 H	60	33.3	12.9
6	11590.00	34.9 AV	54.0	-19.1	1.25 H	60	22.0	12.9
7	#17385.00	50.3 PK	68.2	-17.9	1.55 H	146	32.9	17.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.75	61.3 PK	68.2	-6.9	1.22 V	107	58.4	2.9
2	*5795.00	124.6 PK			1.84 V	63	121.2	3.4
3	*5795.00	113.8 AV			1.84 V	63	110.4	3.4
4	#5928.97	63.8 PK	68.2	-4.4	1.22 V	107	60.2	3.6
5	11590.00	45.9 PK	74.0	-28.1	2.19 V	170	33.0	12.9
6	11590.00	35.2 AV	54.0	-18.8	2.19 V	170	22.3	12.9
7	#17385.00	50.4 PK	68.2	-17.8	2.45 V	122	33.0	17.4

REMARKS:

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

802.11ax (HE80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	59.9 PK	74.0	-14.1	3.08 H	33	57.2	2.7
2	5150.00	42.7 AV	54.0	-11.3	3.08 H	33	40.0	2.7
3	*5210.00	97.5 PK			3.08 H	33	94.9	2.6
4	*5210.00	87.1 AV			3.08 H	33	84.5	2.6
5	5350.00	50.4 PK	74.0	-23.6	3.08 H	33	47.8	2.6
6	5350.00	39.6 AV	54.0	-14.4	3.08 H	33	37.0	2.6
7	#10420.00	41.4 PK	68.2	-26.8	1.12 H	85	28.4	13.0
8	15630.00	48.1 PK	74.0	-25.9	1.40 H	151	35.5	12.6
9	15630.00	35.8 AV	54.0	-18.2	1.40 H	151	23.2	12.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	67.2 PK	74.0	-6.8	2.02 V	71	64.5	2.7
2	5150.00	53.5 AV	54.0	-0.5	2.02 V	71	50.8	2.7
3	*5210.00	110.9 PK			2.02 V	71	108.3	2.6
4	*5210.00	100.9 AV			2.02 V	71	98.3	2.6
5	5350.00	56.1 PK	74.0	-17.9	2.02 V	71	53.5	2.6
6	5350.00	45.5 AV	54.0	-8.5	2.02 V	71	42.9	2.6
7	#10420.00	41.6 PK	68.2	-26.6	2.12 V	181	28.6	13.0
8	15630.00	47.1 PK	74.0	-26.9	2.38 V	109	34.5	12.6
9	15630.00	35.0 AV	54.0	-19.0	2.38 V	109	22.4	12.6

REMARKS:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	50.1 PK	74.0	-23.9	3.05 H	49	47.4	2.7
2	5150.00	39.3 AV	54.0	-14.7	3.05 H	49	36.6	2.7
3	*5290.00	96.9 PK			3.05 H	49	94.5	2.4
4	*5290.00	86.7 AV			3.05 H	49	84.3	2.4
5	5350.00	59.8 PK	74.0	-14.2	3.05 H	49	57.2	2.6
6	5350.00	42.7 AV	54.0	-11.3	3.05 H	49	40.1	2.6
7	#10580.00	42.2 PK	68.2	-26.0	1.08 H	64	29.4	12.8
8	15870.00	47.7 PK	74.0	-26.3	1.38 H	169	35.6	12.1
9	15870.00	35.6 AV	54.0	-18.4	1.38 H	169	23.5	12.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5124.70	55.0 PK	74.0	-19.0	1.92 V	55	52.4	2.6
2	5124.70	46.3 AV	54.0	-7.7	1.92 V	55	43.7	2.6
3	5150.00	52.3 PK	74.0	-21.7	1.92 V	55	49.6	2.7
4	5150.00	44.4 AV	54.0	-9.6	1.92 V	55	41.7	2.7
5	*5290.00	112.0 PK			1.92 V	55	109.6	2.4
6	*5290.00	101.0 AV			1.92 V	55	98.6	2.4
7	5355.00	63.5 PK	74.0	-10.5	1.92 V	55	60.9	2.6
8	5355.00	53.6 AV	54.0	-0.4	1.92 V	55	51.0	2.6
9	#10580.00	41.2 PK	68.2	-27.0	2.09 V	175	28.4	12.8
10	15870.00	47.0 PK	74.0	-27.0	2.39 V	111	34.9	12.1
11	15870.00	34.9 AV	54.0	-19.1	2.39 V	111	22.8	12.1

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 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	60.4 PK	74.0	-13.6	3.08 H	23	57.5	2.9
2	5460.00	43.1 AV	54.0	-10.9	3.08 H	23	40.2	2.9
3	#5470.00	51.9 PK	68.2	-16.3	3.08 H	23	49.0	2.9
4	*5530.00	98.0 PK			3.08 H	23	95.1	2.9
5	*5530.00	87.5 AV			3.08 H	23	84.6	2.9
6	#5725.00	51.2 PK	68.2	-17.0	3.08 H	23	48.0	3.2
7	11060.00	42.3 PK	74.0	-31.7	1.13 H	62	29.0	13.3
8	11060.00	31.2 AV	54.0	-22.8	1.13 H	62	17.9	13.3
9	#16590.00	48.2 PK	68.2	-20.0	1.37 H	165	33.2	15.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	65.7 PK	74.0	-8.3	2.08 V	73	62.8	2.9
2	5460.00	53.5 AV	54.0	-0.5	2.08 V	73	50.6	2.9
3	#5470.00	68.0 PK	68.2	-0.2	2.08 V	73	65.1	2.9
4	*5530.00	112.0 PK			2.08 V	73	109.1	2.9
5	*5530.00	102.0 AV			2.08 V	73	99.1	2.9
6	#5725.00	53.3 PK	68.2	-14.9	2.08 V	73	50.1	3.2
7	11060.00	41.8 PK	74.0	-32.2	2.17 V	189	28.5	13.3
8	11060.00	30.6 AV	54.0	-23.4	2.17 V	189	17.3	13.3
9	#16590.00	47.2 PK	68.2	-21.0	2.37 V	113	32.2	15.0

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 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	102.6 PK			3.07 H	15	99.6	3.0
2	*5610.00	91.6 AV			3.07 H	15	88.6	3.0
3	#5725.00	51.9 PK	68.2	-16.3	3.07 H	15	48.7	3.2
4	11220.00	42.3 PK	74.0	-31.7	1.04 H	59	29.2	13.1
5	11220.00	31.3 AV	54.0	-22.7	1.04 H	59	18.2	13.1
6	#16830.00	47.2 PK	68.2	-21.0	1.41 H	168	30.9	16.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5434.00	61.0 PK	74.0	-13.0	2.10 V	73	58.2	2.8
2	5434.00	50.2 AV	54.0	-3.8	2.10 V	73	47.4	2.8
3	*5610.00	115.2 PK			2.10 V	73	112.2	3.0
4	*5610.00	104.8 AV			2.10 V	73	101.8	3.0
5	#5725.00	64.1 PK	68.2	-4.1	2.10 V	73	60.9	3.2
6	11220.00	42.0 PK	74.0	-32.0	2.08 V	187	28.9	13.1
7	11220.00	31.0 AV	54.0	-23.0	2.08 V	187	17.9	13.1
8	#16830.00	47.9 PK	68.2	-20.3	2.29 V	91	31.6	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 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	51.1 PK	68.2	-17.1	3.02 H	35	48.2	2.9
2	*5690.00	102.3 PK			3.02 H	35	99.0	3.3
3	*5690.00	91.2 AV			3.02 H	35	87.9	3.3
4	#5850.00	52.3 PK	68.2	-15.9	3.02 H	35	48.6	3.7
5	11380.00	42.8 PK	74.0	-31.2	1.06 H	77	29.3	13.5
6	11380.00	31.7 AV	54.0	-22.3	1.06 H	77	18.2	13.5
7	#17070.00	48.0 PK	68.2	-20.2	1.42 H	185	31.6	16.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	57.2 PK	68.2	-11.0	1.97 V	62	54.3	2.9
2	*5690.00	115.8 PK			1.97 V	62	112.5	3.3
3	*5690.00	105.1 AV			1.97 V	62	101.8	3.3
4	#5850.00	62.1 PK	68.2	-6.1	1.97 V	62	58.4	3.7
5	11380.00	40.9 PK	74.0	-33.1	2.12 V	190	27.4	13.5
6	11380.00	30.3 AV	54.0	-23.7	2.12 V	190	16.8	13.5
7	#17070.00	47.7 PK	68.2	-20.5	2.35 V	100	31.3	16.4

REMARKS:

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

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.53	60.2 PK	68.6	-8.4	2.84 H	141	57.3	2.9
2	*5775.00	105.9 PK			2.84 H	140	102.6	3.3
3	*5775.00	96.2 AV			2.84 H	140	92.9	3.3
4	#5961.50	51.6 PK	68.2	-16.6	2.84 H	141	48.0	3.6
5	11550.00	41.9 PK	74.0	-32.1	1.06 H	59	28.9	13.0
6	11550.00	31.1 AV	54.0	-22.9	1.06 H	59	18.1	13.0
7	#17325.00	48.0 PK	68.2	-20.2	1.38 H	160	31.2	16.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5649.95	68.1 PK	68.2	-0.1	2.05 V	63	65.2	2.9
2	*5775.00	119.4 PK			2.05 V	63	116.1	3.3
3	*5775.00	108.8 AV			2.05 V	63	105.5	3.3
4	#5940.87	63.8 PK	68.2	-4.4	2.05 V	63	60.3	3.5
5	11550.00	40.9 PK	74.0	-33.1	2.08 V	185	27.9	13.0
6	11550.00	30.0 AV	54.0	-24.0	2.08 V	185	17.0	13.0
7	#17325.00	48.2 PK	68.2	-20.0	2.29 V	117	31.4	16.8

REMARKS:

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

802.11ax (HE160)

CHANNEL	TX Channel 50	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	60.0 PK	74.0	-14.0	2.78 H	154	57.3	2.7
2	5150.00	42.8 AV	54.0	-11.2	2.78 H	154	40.1	2.7
3	*5250.00	97.3 PK			2.78 H	154	95.1	2.2
4	*5250.00	86.2 AV			2.78 H	154	84.0	2.2
5	5350.00	60.2 PK	74.0	-13.8	2.78 H	154	57.6	2.6
6	5350.00	43.3 AV	54.0	-10.7	2.78 H	154	40.7	2.6
7	#10500.00	42.5 PK	68.2	-25.7	1.05 H	76	29.4	13.1
8	15750.00	48.2 PK	74.0	-25.8	1.35 H	163	36.2	12.0
9	15750.00	36.0 AV	54.0	-18.0	1.35 H	163	24.0	12.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	65.4 PK	74.0	-8.6	1.89 V	54	62.7	2.7
2	5150.00	53.4 AV	54.0	-0.6	1.89 V	54	50.7	2.7
3	*5250.00	111.4 PK			1.89 V	54	109.2	2.2
4	*5250.00	100.1 AV			1.89 V	54	97.9	2.2
5	5350.00	65.7 PK	74.0	-8.3	1.89 V	54	63.1	2.6
6	5350.00	53.5 AV	54.0	-0.5	1.89 V	54	50.9	2.6
7	#10500.00	41.5 PK	68.2	-26.7	2.07 V	180	28.4	13.1
8	15750.00	47.3 PK	74.0	-26.7	2.30 V	98	35.3	12.0
9	15750.00	35.3 AV	54.0	-18.7	2.30 V	98	23.3	12.0

REMARKS:

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

CHANNEL	TX Channel 114	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (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	2.89 H	129	57.8	2.9
2	5460.00	43.5 AV	54.0	-10.5	2.89 H	129	40.6	2.9
3	#5470.00	52.0 PK	68.2	-16.2	2.89 H	129	49.1	2.9
4	*5570.00	97.0 PK			2.89 H	129	94.1	2.9
5	*5570.00	86.0 AV			2.89 H	129	83.1	2.9
6	#5725.00	50.8 PK	68.2	-17.4	2.89 H	129	47.6	3.2
7	11140.00	41.9 PK	74.0	-32.1	1.13 H	57	28.9	13.0
8	11140.00	31.0 AV	54.0	-23.0	1.13 H	57	18.0	13.0
9	#16710.00	47.9 PK	68.2	-20.3	1.42 H	159	31.9	16.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (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	66.5 PK	74.0	-7.5	2.00 V	131	63.6	2.9
2	5460.00	53.5 AV	54.0	-0.5	2.00 V	131	50.6	2.9
3	#5470.00	67.6 PK	68.2	-0.6	2.00 V	131	64.7	2.9
4	*5570.00	111.8 PK			2.00 V	131	108.9	2.9
5	*5570.00	100.3 AV			2.00 V	131	97.4	2.9
6	#5725.00	60.5 PK	68.2	-7.7	2.00 V	131	57.3	3.2
7	11140.00	41.8 PK	74.0	-32.2	2.15 V	171	28.8	13.0
8	11140.00	30.9 AV	54.0	-23.1	2.15 V	171	17.9	13.0
9	#16710.00	48.1 PK	68.2	-20.1	2.32 V	111	32.1	16.0

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.

Below 1GHz Data:

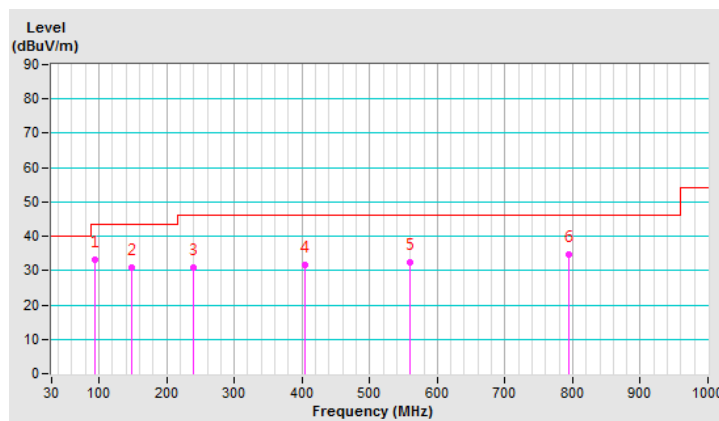
802.11ax (HE20)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	94.02	33.2 QP	43.5	-10.3	1.00 H	264	46.1	-12.9
2	148.34	30.9 QP	43.5	-12.6	1.55 H	237	38.8	-7.9
3	239.52	30.8 QP	46.0	-15.2	1.50 H	143	39.9	-9.1
4	404.42	31.7 QP	46.0	-14.3	1.00 H	265	36.0	-4.3
5	559.62	32.5 QP	46.0	-13.5	1.50 H	115	33.4	-0.9
6	794.36	34.6 QP	46.0	-11.4	1.00 H	128	30.7	3.9

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 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.



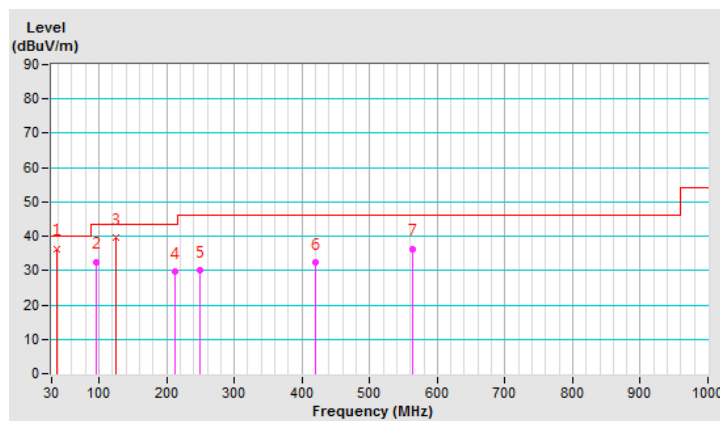
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	38.64	36.4 QP	40.0	-3.6	1.00 V	302	45.1	-8.7
2	95.96	32.6 QP	43.5	-10.9	1.00 V	331	45.1	-12.5
3	125.00	39.5 QP	43.5	-4.0	1.00 V	264	48.9	-9.4
4	212.36	29.8 QP	43.5	-13.7	1.00 V	265	40.2	-10.4
5	249.22	30.1 QP	46.0	-15.9	2.00 V	241	38.8	-8.7
6	419.94	32.3 QP	46.0	-13.7	1.50 V	173	36.0	-3.7
7	563.50	36.4 QP	46.0	-9.6	2.00 V	264	37.2	-0.8

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 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. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 04, 2018	June 03, 2019
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 16, 2018	Mar. 15, 2019
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: Dec. 18, 2018

4.2.3 Test Procedure

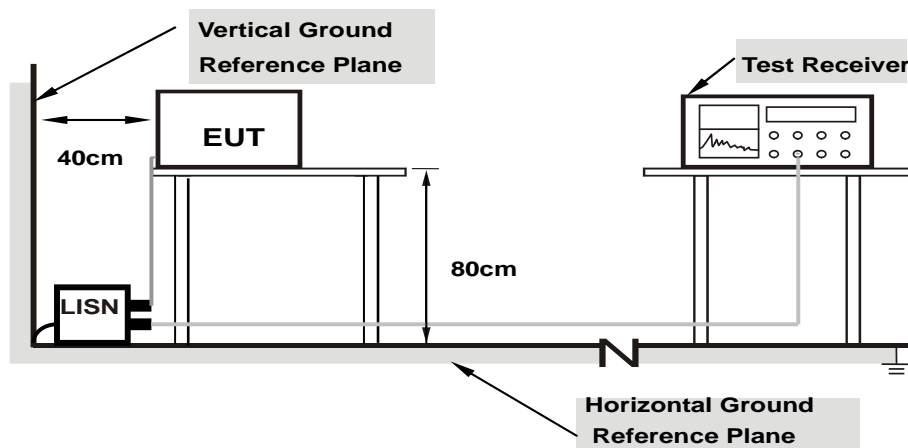
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 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.

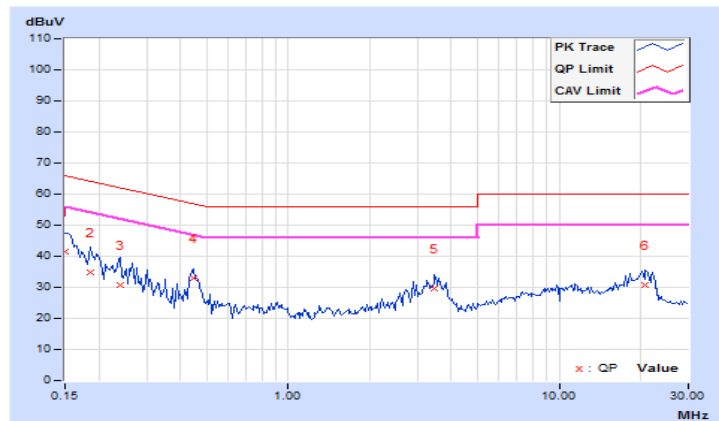
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.03	31.59	18.66	41.62	28.69	66.00	56.00	-24.38	-27.31
2	0.18516	10.04	24.88	8.90	34.92	18.94	64.25	54.25	-29.33	-35.31
3	0.23984	10.06	20.60	10.85	30.66	20.91	62.10	52.10	-31.44	-31.19
4	0.44688	10.08	22.94	15.22	33.02	25.30	56.93	46.93	-23.91	-21.63
5	3.48047	10.29	19.36	9.19	29.65	19.48	56.00	46.00	-26.35	-26.52
6	20.82422	11.38	19.41	13.71	30.79	25.09	60.00	50.00	-29.21	-24.91

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

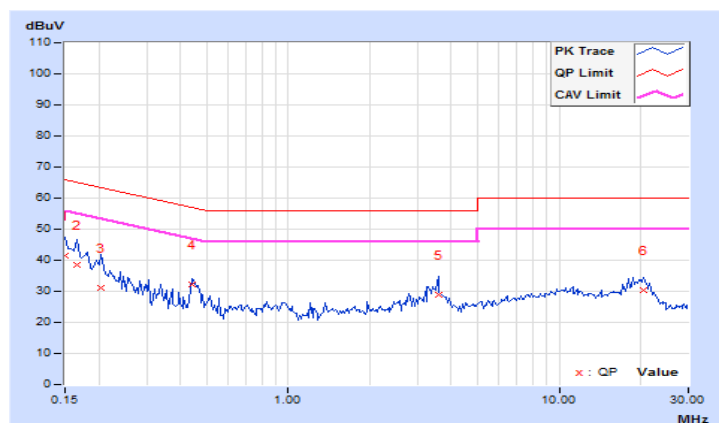


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.15000	9.94	31.39	16.20	41.33	26.14	66.00	56.00	-24.67
2	0.16562	9.94	28.46	11.87	38.40	21.81	65.18	55.18	-26.78	-33.37
3	0.20469	9.95	21.28	8.06	31.23	18.01	63.42	53.42	-32.19	-35.41
4	0.44297	9.98	22.22	18.73	32.20	28.71	57.01	47.01	-24.81	-18.30
5	3.58203	10.15	18.65	8.44	28.80	18.59	56.00	46.00	-27.20	-27.41
6	20.58203	11.15	19.17	12.75	30.32	23.90	60.00	50.00	-29.68	-26.10

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 \leq 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

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} ;

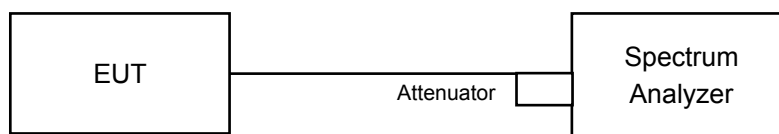
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

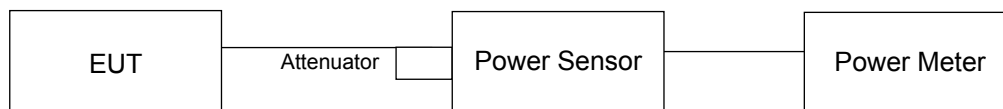
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

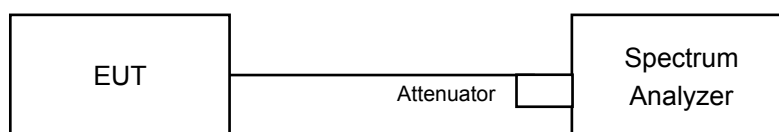
For channel straddling 5725MHz:



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-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW $\geq 3 \times$ 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

Non-Beamforming Mode
802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	22.75	22.03	21.83	21.72	648.952	28.12	30.00	Pass
40	5200	22.74	21.85	21.84	21.68	641.029	28.07	30.00	Pass
48	5240	22.64	21.77	21.74	21.59	627.459	27.98	30.00	Pass
52	5260	16.44	15.86	16.23	15.82	162.773	22.12	24.00	Pass
60	5300	16.35	15.71	16.08	15.62	157.417	21.97	24.00	Pass
64	5320	16.43	15.62	16.01	15.67	157.229	21.97	24.00	Pass
100	5500	16.05	15.84	16.19	16.05	160.506	22.05	24.00	Pass
116	5580	15.95	15.92	16.03	15.22	151.792	21.81	24.00	Pass
140	5700	16.07	15.74	16.17	16.03	159.442	22.03	24.00	Pass
*144 (U-NII-2C Band)	5720	12.92	12.65	11.86	12.23	73.932	18.69	22.96	Pass
*144 (U-NII-3 Band)	5720	7.04	6.63	5.75	6.04	18.402	12.65	30.00	Pass
149	5745	24.11	23.74	23.39	23.35	928.769	29.68	30.00	Pass
157	5785	24.05	23.71	23.37	23.25	917.679	29.63	30.00	Pass
165	5825	24.22	23.64	23.53	23.42	940.657	29.73	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	92.334	19.65

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.69	21.60	21.66	21.55
60	5300	21.76	21.81	21.55	21.56
64	5320	21.73	21.78	21.79	21.52
100	5500	21.66	21.81	21.72	21.68
116	5580	21.67	21.78	21.61	21.71
140	5700	21.73	21.68	21.71	21.64
144 (U-NII-2C Band)	5720	15.97	15.97	15.81	15.72

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	21.55	24.33 > 24
60	5300	21.55	24.33 > 24
64	5320	21.52	24.32 > 24
100	5500	21.66	24.35 > 24
116	5580	21.61	24.34 > 24
140	5700	21.64	24.35 > 24
144 (U-NII-2C Band)	5720	15.72	22.96 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.44	21.08	20.74	20.27	492.54	26.92	30.00	Pass
40	5200	22.41	21.92	21.52	21.57	615.233	27.89	30.00	Pass
48	5240	22.56	22.24	21.55	21.49	631.614	28.00	30.00	Pass
52	5260	16.50	15.87	15.90	15.85	160.669	22.06	24.00	Pass
60	5300	16.57	15.72	15.73	15.84	158.501	22.00	24.00	Pass
64	5320	16.47	15.70	15.90	15.98	160.048	22.04	24.00	Pass
100	5500	15.93	15.81	16.29	16.12	160.767	22.06	24.00	Pass
116	5580	15.97	15.85	16.27	16.12	161.286	22.08	24.00	Pass
140	5700	15.84	15.63	16.03	15.69	152.085	21.82	24.00	Pass
*144 (U-NII-2C Band)	5720	13.21	12.36	12.20	12.21	72.944	18.63	23.03	Pass
*144 (U-NII-3 Band)	5720	7.55	6.83	6.37	6.53	19.762	12.96	30.00	Pass
149	5745	24.12	23.74	23.54	23.26	932.598	29.70	30.00	Pass
157	5785	24.06	23.65	23.50	23.06	912.596	29.60	30.00	Pass
165	5825	24.15	23.74	23.39	23.16	921.895	29.65	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	92.706	19.67

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	22.02	22.03	22.00	22.04
60	5300	21.89	22.01	21.97	22.03
64	5320	22.00	22.08	21.95	22.04
100	5500	22.05	21.98	21.92	21.95
116	5580	22.03	21.96	21.97	21.98
140	5700	22.04	21.99	21.82	21.98
144 (U-NII-2C Band)	5720	16.01	15.99	16.04	15.99

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	22.00	24.42 > 24
60	5300	21.89	24.4 > 24
64	5320	21.95	24.41 > 24
100	5500	21.92	24.4 > 24
116	5580	21.96	24.41 > 24
140	5700	21.82	24.38 > 24
144 (U-NII-2C Band)	5720	15.99	23.03 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.22	14.31	14.13	14.02	111.36	20.47	30.00	Pass
46	5230	21.32	20.54	20.09	20.25	456.778	26.60	30.00	Pass
54	5270	18.08	17.45	17.63	17.37	232.378	23.66	24.00	Pass
62	5310	14.10	13.64	13.80	13.59	95.669	19.81	24.00	Pass
102	5510	15.38	15.52	16.05	15.72	147.756	21.70	24.00	Pass
110	5550	17.29	17.48	18.04	17.94	235.466	23.72	24.00	Pass
134	5670	17.44	17.61	17.84	17.64	232.03	23.66	24.00	Pass
*142 (U-NII-2C Band)	5710	15.55	14.75	14.78	15.11	131.056	21.17	24.00	Pass
*142 (U-NII-3 Band)	5710	5.15	4.50	4.29	4.75	12.019	10.80	30.00	Pass
151	5755	23.69	23.63	23.80	23.51	928.83	29.68	30.00	Pass
159	5795	23.64	23.83	23.70	23.29	920.479	29.64	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	143.075	21.56

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	41.66	41.72	41.91	41.72
62	5310	41.85	41.69	41.95	41.72
102	5510	41.71	41.75	41.82	41.76
110	5550	41.75	41.65	41.68	41.68
134	5670	41.83	41.60	41.67	41.82
142 (U-NII-2C Band)	5710	36.02	36.01	35.87	35.93

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	41.66	27.19 > 24
62	5310	41.69	27.2 > 24
102	5510	41.71	27.2 > 24
110	5550	41.65	27.19 > 24
134	5670	41.60	27.19 > 24
142 (U-NII-2C Band)	5710	35.87	26.54 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	14.28	14.17	14.13	14.07	104.323	20.18	30.00	Pass
58	5290	11.58	11.20	11.38	11.40	55.115	17.41	24.00	Pass
106	5530	14.58	14.79	15.09	15.06	123.186	20.91	24.00	Pass
122	5610	17.68	17.75	17.90	17.90	241.5	23.83	24.00	Pass
*138 (U-NII-2C Band)	5690	15.85	11.44	15.36	15.17	122.167	20.87	24.00	Pass
*138 (U-NII-3 Band)	5690	1.70	-4.06	1.19	1.19	4.5975	6.63	30.00	Pass
155	5775	21.57	21.43	21.37	21.02	546.106	27.37	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	126.7645	21.03

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	82.38	82.54	83.05	82.35
106	5530	82.30	82.59	82.50	82.35
122	5610	82.89	82.88	82.65	82.75
138 (U-NII-2C Band)	5690	76.23	76.36	76.05	76.36

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	82.35	30.15 > 24
106	5530	82.30	30.15 > 24
122	5610	82.65	30.17 > 24
138 (U-NII-2C Band)	5690	76.05	29.81 > 24

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Maximum Conducted 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	7.51	7.64	6.43	6.50	22.634	13.55	30.00	Pass
*50 (U-NII-2A Band)	5250	8.11	7.84	7.28	6.92	25.434	14.05	24.00	Pass
114	5570	13.62	13.50	12.94	12.88	84.489	19.27	24.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
50	5250	48.068	16.82

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A Band)	5250	81.88	81.57	81.96	81.65
114	5570	163.52	163.83	161.85	162.05

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)
50 (U-NII-2A Band)	5250	81.56	30.11 > 24
114	5570	161.85	33.09 > 24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.64	21.25	20.85	20.43	511.26	27.09	30.00	Pass
40	5200	22.55	22.07	21.68	21.76	638.151	28.05	30.00	Pass
48	5240	22.74	22.36	21.71	21.62	653.582	28.15	30.00	Pass
52	5260	16.61	16.03	16.08	15.97	165.989	22.20	24.00	Pass
60	5300	16.75	15.87	15.92	15.96	164.482	22.16	24.00	Pass
64	5320	16.58	15.85	16.03	16.10	164.783	22.17	24.00	Pass
100	5500	16.11	15.99	16.44	16.24	166.679	22.22	24.00	Pass
116	5580	16.09	16.04	16.40	16.28	166.937	22.23	24.00	Pass
140	5700	16.00	15.76	16.16	15.89	157.601	21.98	24.00	Pass
*144 (U-NII-2C Band)	5720	13.05	12.07	12.24	12.27	71.981	18.57	22.97	Pass
*144 (U-NII-3 Band)	5720	7.78	6.94	6.90	6.99	21.458	13.32	30.00	Pass
149	5745	24.27	23.87	23.70	23.37	962.775	29.84	30.00	Pass
157	5785	24.21	23.78	23.64	23.24	944.483	29.75	30.00	Pass
165	5825	24.28	23.90	23.56	23.34	956.148	29.81	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	93.439	19.71

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.67	21.87	21.63	21.64
60	5300	21.67	21.82	21.72	21.72
64	5320	21.91	21.90	21.72	21.69
100	5500	21.72	21.96	21.69	21.68
116	5580	21.73	21.85	21.75	21.75
140	5700	21.77	21.83	21.74	21.66
144 (U-NII-2C Band)	5720	15.80	15.90	15.74	15.82

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	21.63	24.35 > 24
60	5300	21.67	24.35 > 24
64	5320	21.69	24.36 > 24
100	5500	21.68	24.36 > 24
116	5580	21.73	24.37 > 24
140	5700	21.66	24.35 > 24
144 (U-NII-2C Band)	5720	15.74	22.97 < 24

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.33	14.51	14.25	14.14	114.917	20.60	30.00	Pass
46	5230	21.51	20.70	20.28	20.39	475.125	26.77	30.00	Pass
54	5270	18.23	17.57	17.78	17.57	240.802	23.82	24.00	Pass
62	5310	14.26	13.81	13.98	13.78	99.594	19.98	24.00	Pass
102	5510	15.54	15.68	16.17	15.91	153.187	21.85	24.00	Pass
110	5550	17.41	17.58	18.16	18.10	242.39	23.85	24.00	Pass
134	5670	17.63	17.77	17.96	17.80	240.557	23.81	24.00	Pass
*142 (U-NII-2C Band)	5710	15.32	15.05	14.67	14.69	128.465	21.09	24.00	Pass
*142 (U-NII-3 Band)	5710	5.48	5.60	4.76	4.86	13.607	11.34	30.00	Pass
151	5755	23.87	23.82	23.94	23.68	965.86	29.85	30.00	Pass
159	5795	23.80	23.94	23.86	23.45	952.154	29.79	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	142.072	21.53

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	41.87	41.84	41.69	41.55
62	5310	41.66	41.65	41.46	41.55
102	5510	41.72	41.76	41.55	41.52
110	5550	41.56	41.83	41.39	41.56
134	5670	41.76	41.52	41.65	41.65
142 (U-NII-2C Band)	5710	35.87	35.74	35.92	35.73

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	41.55	27.18 > 24
62	5310	41.46	27.17 > 24
102	5510	41.52	27.18 > 24
110	5550	41.39	27.16 > 24
134	5670	41.52	27.18 > 24
142 (U-NII-2C Band)	5710	35.73	26.53 > 24

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	14.40	14.28	14.27	14.17	107.186	20.30	30.00	Pass
58	5290	11.70	11.35	11.49	11.54	56.786	17.54	24.00	Pass
106	5530	14.74	14.95	15.27	15.25	128.194	21.08	24.00	Pass
122	5610	17.79	17.87	18.06	18.02	248.712	23.96	24.00	Pass
*138 (U-NII-2C Band)	5690	15.79	9.80	15.08	15.46	117.949	20.72	24.00	Pass
*138 (U-NII-3 Band)	5690	2.42	-2.38	1.45	1.97	5.4373	7.35	30.00	Pass
155	5775	21.75	21.60	21.54	21.19	568.251	27.55	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	123.3863	20.91

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	82.51	83.06	82.27	82.37
106	5530	81.70	82.70	82.62	81.95
122	5610	82.26	82.98	82.33	82.02
138 (U-NII-2C Band)	5690	75.92	76.34	76.03	76.31

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	82.27	30.15 > 24
106	5530	81.70	30.12 > 24
122	5610	82.02	30.13 > 24
138 (U-NII-2C Band)	5690	75.92	29.8 > 24

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Maximum Conducted 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	7.58	7.71	6.49	6.64	23.377	13.69	30.00	Pass
*50 (U-NII-2A Band)	5250	8.17	7.86	7.37	7.13	26.304	14.20	24.00	Pass
114	5570	13.71	13.62	13.99	12.91	91.114	19.60	24.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. The max. gain is 3.45dBi < 6dBi, so the power limit shall not be reduced.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
50	5250	49.681	16.96

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A Band)	5250	82.22	81.61	81.59	81.95
114	5570	162.58	162.37	162.03	162.33

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)
50 (U-NII-2A Band)	5250	81.59	30.11 > 24
114	5570	162.03	33.09 > 24

Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.44	21.08	20.74	20.27	492.54	26.92	28.30	Pass
40	5200	22.41	21.92	21.52	21.57	615.233	27.89	28.30	Pass
48	5240	22.56	22.24	21.55	21.49	631.614	28.00	28.30	Pass
52	5260	16.50	15.87	15.90	15.85	160.669	22.06	22.30	Pass
60	5300	16.57	15.72	15.73	15.84	158.501	22.00	22.30	Pass
64	5320	16.47	15.70	15.90	15.98	160.048	22.04	22.30	Pass
100	5500	15.93	15.81	16.29	16.12	160.767	22.06	22.30	Pass
116	5580	15.97	15.85	16.27	16.12	161.286	22.08	22.30	Pass
140	5700	15.84	15.63	16.03	15.69	152.085	21.82	22.30	Pass
*144 (U-NII-2C Band)	5720	13.21	12.36	12.20	12.21	72.944	18.63	21.33	Pass
*144 (U-NII-3 Band)	5720	7.55	6.83	6.37	6.53	19.762	12.96	28.30	Pass
149	5745	22.52	22.08	21.86	21.64	639.428	28.06	28.30	Pass
157	5785	22.37	22.12	21.93	21.66	638.024	28.05	28.30	Pass
165	5825	22.46	22.14	21.90	21.63	640.308	28.06	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to $30-(7.7-6) = 28.3\text{dBm}$.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	92.706	19.67

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	22.02	22.03	22.00	22.04
60	5300	21.89	22.01	21.97	22.03
64	5320	22.00	22.08	21.95	22.04
100	5500	22.05	21.98	21.92	21.95
116	5580	22.03	21.96	21.97	21.98
140	5700	22.04	21.99	21.82	21.98
144 (U-NII-2C Band)	5720	16.01	15.99	16.04	15.99

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	22.00	24.42 > 24
60	5300	21.89	24.4 > 24
64	5320	21.95	24.41 > 24
100	5500	21.92	24.4 > 24
116	5580	21.96	24.41 > 24
140	5700	21.82	24.38 > 24
144 (U-NII-2C Band)	5720	15.99	23.03 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.22	14.31	14.13	14.02	111.36	20.47	28.30	Pass
46	5230	21.32	20.54	20.09	20.25	456.778	26.60	28.30	Pass
54	5270	16.68	15.95	16.17	15.97	166.851	22.22	22.30	Pass
62	5310	14.10	13.64	13.80	13.59	95.669	19.81	22.30	Pass
102	5510	15.38	15.52	16.05	15.72	147.756	21.70	22.30	Pass
110	5550	15.77	15.92	16.39	16.42	164.245	22.15	22.30	Pass
134	5670	15.72	15.91	16.36	16.34	162.623	22.11	22.30	Pass
*142 (U-NII-2C Band)	5710	12.85	12.84	10.48	10.45	62.101	17.93	22.30	Pass
*142 (U-NII-3 Band)	5710	2.46	2.61	-0.18	-0.19	5.6233	7.50	28.30	Pass
151	5755	22.07	22.15	22.24	22.01	651.473	28.14	28.30	Pass
159	5795	22.13	22.29	22.14	21.92	652.018	28.14	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to $30-(7.7-6) = 28.3\text{dBm}$.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	67.7243	18.31

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	41.66	41.72	41.91	41.72
62	5310	41.85	41.69	41.95	41.72
102	5510	41.71	41.75	41.82	41.76
110	5550	41.75	41.65	41.68	41.68
134	5670	41.83	41.60	41.67	41.82
142 (U-NII-2C Band)	5710	36.02	36.01	35.87	35.93

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	41.66	27.19 > 24
62	5310	41.69	27.2 > 24
102	5510	41.71	27.2 > 24
110	5550	41.65	27.19 > 24
134	5670	41.60	27.19 > 24
142 (U-NII-2C Band)	5710	35.87	26.54 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	14.28	14.17	14.13	14.07	104.323	20.18	28.30	Pass
58	5290	11.58	11.20	11.38	11.40	55.115	17.41	22.30	Pass
106	5530	14.58	14.79	15.09	15.06	123.186	20.91	22.30	Pass
122	5610	16.02	15.99	16.09	16.28	162.819	22.12	22.30	Pass
*138 (U-NII-2C Band)	5690	9.03	8.90	8.64	8.98	31.634	15.00	22.30	Pass
*138 (U-NII-3 Band)	5690	-5.22	-4.23	-5.91	-5.09	1.2707	1.04	28.30	Pass
155	5775	21.57	21.43	21.37	21.02	546.106	27.37	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to 30-(7.7-6) = 28.3dBm.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	32.9047	15.17

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	82.38	82.54	83.05	82.35
106	5530	82.30	82.59	82.50	82.35
122	5610	82.89	82.88	82.65	82.75
138 (U-NII-2C Band)	5690	76.23	76.36	76.05	76.36

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	82.35	30.15 > 24
106	5530	82.30	30.15 > 24
122	5610	82.65	30.17 > 24
138 (U-NII-2C Band)	5690	76.05	29.81 > 24

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Maximum Conducted 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	7.51	7.64	6.43	6.50	22.634	13.55	28.30	Pass
*50 (U-NII-2A Band)	5250	8.11	7.84	7.28	6.92	25.434	14.05	22.30	Pass
114	5570	13.62	13.50	12.94	12.88	84.489	19.27	22.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to 30-(7.7-6) = 28.3dBm.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
50	5250	48.068	16.82

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A Band)	5250	81.88	81.57	81.96	81.65
114	5570	163.52	163.83	161.85	162.05

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)
50 (U-NII-2A Band)	5250	81.57	30.11 > 24
114	5570	161.85	33.09 > 24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.64	21.25	20.85	20.43	511.26	27.09	28.30	Pass
40	5200	22.55	22.07	21.68	21.76	638.151	28.05	28.30	Pass
48	5240	22.74	22.36	21.71	21.62	653.582	28.15	28.30	Pass
52	5260	16.61	16.03	16.08	15.97	165.989	22.20	22.30	Pass
60	5300	16.75	15.87	15.92	15.96	164.482	22.16	22.30	Pass
64	5320	16.58	15.85	16.03	16.10	164.783	22.17	22.30	Pass
100	5500	16.11	15.99	16.44	16.24	166.679	22.22	22.30	Pass
116	5580	16.09	16.04	16.40	16.28	166.937	22.23	22.30	Pass
140	5700	16.00	15.76	16.16	15.89	157.601	21.98	22.30	Pass
*144 (U-NII-2C Band)	5720	13.05	12.07	12.24	12.27	71.981	18.57	21.27	Pass
*144 (U-NII-3 Band)	5720	7.78	6.94	6.90	6.99	21.458	13.32	28.30	Pass
149	5745	22.64	22.25	22.04	21.78	662.151	28.21	28.30	Pass
157	5785	22.56	22.25	22.11	21.84	663.494	28.22	28.30	Pass
165	5825	22.62	22.27	22.03	21.79	662.061	28.21	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to $30-(7.7-6) = 28.3\text{dBm}$.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	93.439	19.71

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	21.71	22.09	21.72	21.70
40	5200	21.81	21.74	21.72	21.63
48	5240	21.78	21.93	21.75	21.76
52	5260	21.67	21.87	21.63	21.64
60	5300	21.67	21.82	21.72	21.72
64	5320	21.91	21.90	21.72	21.69
100	5500	21.72	21.96	21.69	21.68
116	5580	21.73	21.85	21.75	21.75
140	5700	21.77	21.83	21.74	21.66
144 (U-NII-2C Band)	5720	15.80	15.90	15.74	15.82

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	21.63	24.35 > 24
60	5300	21.67	24.35 > 24
64	5320	21.69	24.36 > 24
100	5500	21.68	24.36 > 24
116	5580	21.73	24.37 > 24
140	5700	21.66	24.35 > 24
144 (U-NII-2C Band)	5720	15.74	22.97 < 24

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.33	14.51	14.25	14.14	114.917	20.60	28.30	Pass
46	5230	21.51	20.70	20.28	20.39	475.125	26.77	28.30	Pass
54	5270	16.70	16.02	16.25	16.03	169.025	22.28	22.30	Pass
62	5310	14.26	13.81	13.98	13.78	99.594	19.98	22.30	Pass
102	5510	15.54	15.68	16.17	15.91	153.187	21.85	22.30	Pass
110	5550	15.92	16.03	16.54	16.55	169.439	22.29	22.30	Pass
134	5670	15.92	16.11	16.47	16.52	169.152	22.28	22.30	Pass
*142 (U-NII-2C Band)	5710	13.17	12.98	12.52	12.69	79.327	18.99	22.30	Pass
*142 (U-NII-3 Band)	5710	4.03	3.72	2.66	3.38	9.17	9.62	28.30	Pass
151	5755	22.18	22.32	22.38	22.16	673.223	28.28	28.30	Pass
159	5795	22.28	22.41	22.34	22.03	674.209	28.29	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to $30-(7.7-6) = 28.3\text{dBm}$.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	88.497	19.47

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	41.71	41.80	41.84	41.48
46	5230	41.48	41.55	41.68	41.50
54	5270	41.87	41.84	41.69	41.55
62	5310	41.66	41.65	41.46	41.55
102	5510	41.72	41.76	41.55	41.52
110	5550	41.56	41.83	41.39	41.56
134	5670	41.76	41.52	41.65	41.65
142 (U-NII-2C Band)	5710	35.87	35.74	35.92	35.73

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	41.55	27.18 > 24
62	5310	41.46	27.17 > 24
102	5510	41.52	27.18 > 24
110	5550	41.39	27.16 > 24
134	5670	41.52	27.18 > 24
142 (U-NII-2C Band)	5710	35.73	26.53 > 24

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	14.40	14.28	14.27	14.17	107.186	20.30	28.30	Pass
58	5290	11.70	11.35	11.49	11.54	56.786	17.54	22.30	Pass
106	5530	14.74	14.95	15.27	15.25	128.194	21.08	22.30	Pass
122	5610	16.22	16.14	16.22	16.42	168.726	22.27	22.30	Pass
*138 (U-NII-2C Band)	5690	8.08	8.09	7.89	7.93	25.911	14.13	22.30	Pass
*138 (U-NII-3 Band)	5690	-4.97	-5.37	-5.69	-5.60	1.1852	0.74	28.30	Pass
155	5775	21.75	21.60	21.54	21.19	568.251	27.55	28.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1, U-NII-3: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to 30-(7.7-6) = 28.3dBm.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	27.0962	14.33

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	82.22	82.85	81.75	82.06
58	5290	82.51	83.06	82.27	82.37
106	5530	81.70	82.70	82.62	81.95
122	5610	82.26	82.98	82.33	82.02
138 (U-NII-2C Band)	5690	75.92	76.34	76.03	76.31

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	82.27	30.15 > 24
106	5530	81.70	30.12 > 24
122	5610	82.02	30.13 > 24
138 (U-NII-2C Band)	5690	75.92	29.8 > 24

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Maximum Conducted 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	7.58	7.71	6.49	6.64	23.377	13.69	28.30	Pass
*50 (U-NII-2A Band)	5250	8.17	7.86	7.37	7.13	26.304	14.20	22.30	Pass
114	5570	13.71	13.62	13.99	12.91	91.114	19.60	22.30	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. For U-NII-1: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to 30-(7.7-6) = 28.3dBm.
2. For U-NII-2A, U-NII-2C: The directional gain is 7.7dBi > 6dBi, so the power limit shall be reduced to "Determined Conducted Limit- (7.7-6)".

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
50	5250	49.681	16.96

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

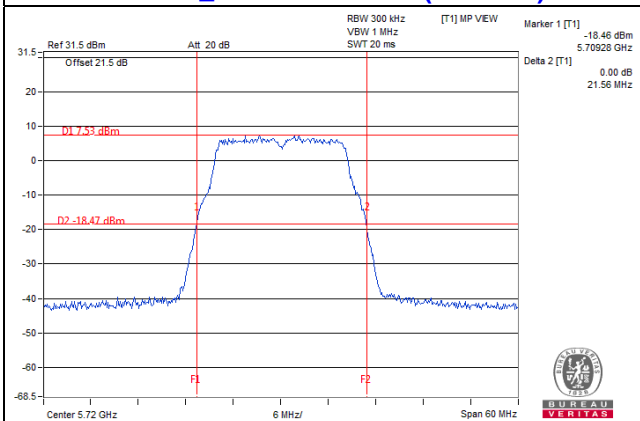
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A Band)	5250	82.22	81.61	81.59	81.95
114	5570	162.58	162.37	162.03	162.33

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

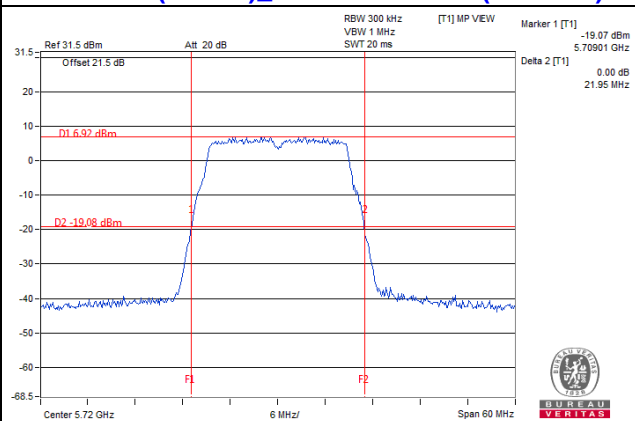
Power Limit = 11dBm + 10logB <U-NII-2A, U-NII-2C>			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
50 (U-NII-2A Band)	5250	81.59	30.11 > 24
114	5570	162.03	33.09 > 24

Spectrum Plot of Worst Value

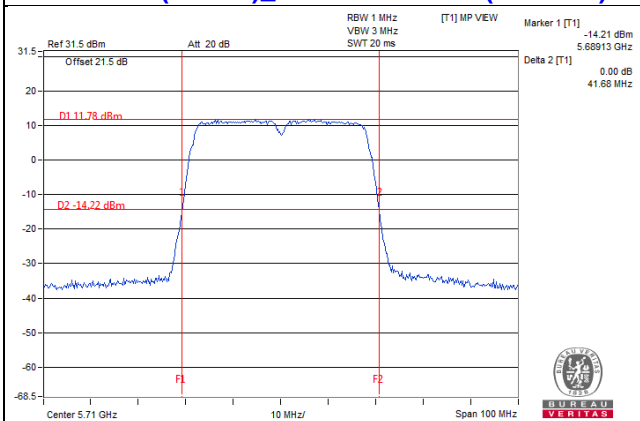
802.11a_Chain 3 / CH144 (U-NII-2C)



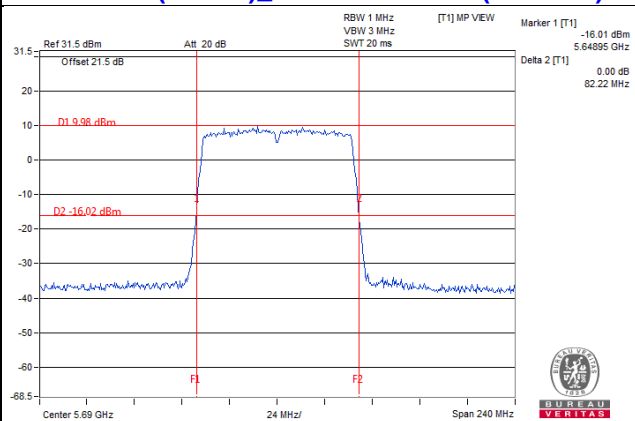
802.11ac (VHT20)_Chain 3 / CH144 (U-NII-2C)



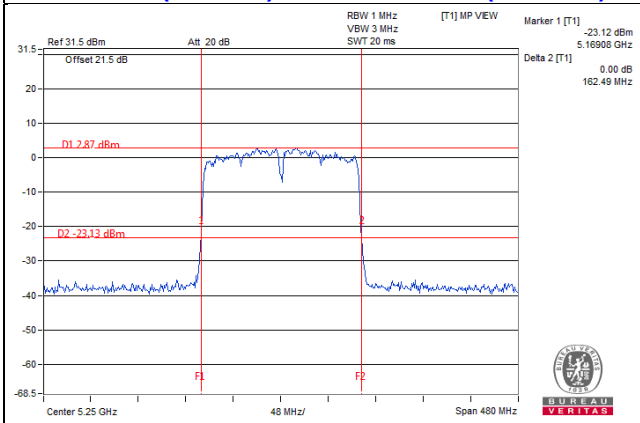
802.11ac (VHT40)_Chain 2 / CH142 (U-NII-2C)



802.11ac (VHT80)_Chain 2 / CH138 (U-NII-2C)



802.11ac (VHT160)_Chain 1 / CH50 (U-NII-2A)

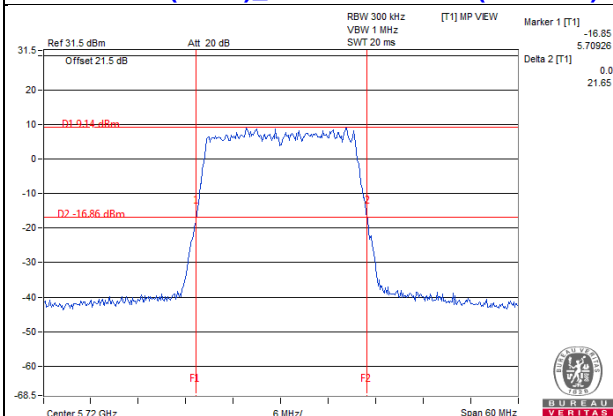


Note:

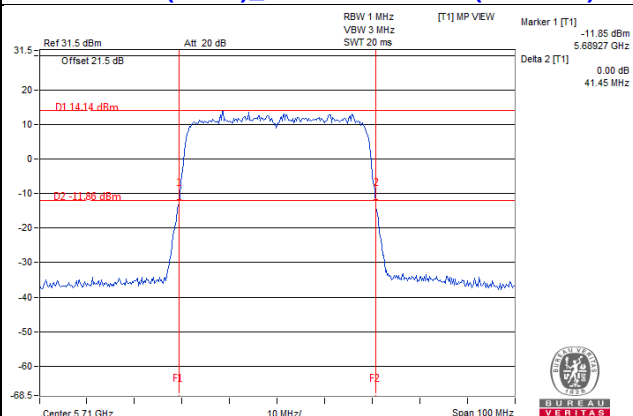
- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1
- For CH50 (U-NII-2A) = Marker 1 + Delta 2 – 5250MHz

Spectrum Plot of Worst Value

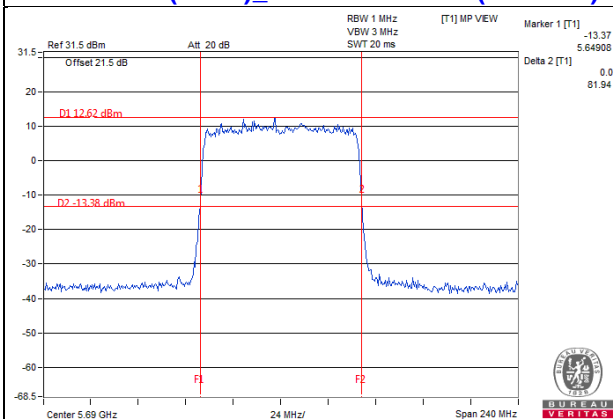
802.11ax (HE20)_Chain 2 / CH144 (U-NII-2C)



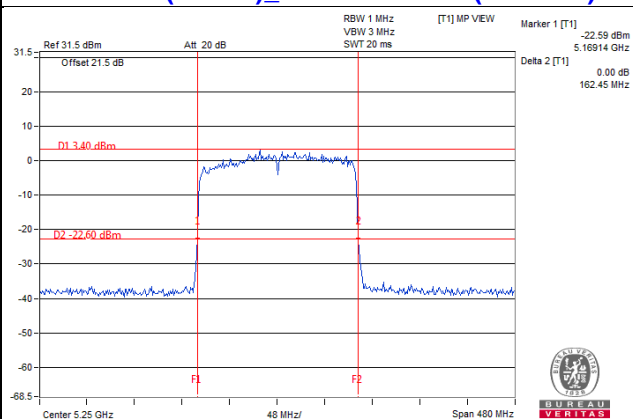
802.11ax (HE40)_Chain 3 / CH142 (U-NII-2C)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C)



802.11ax (HE160)_Chain 2 / CH50 (U-NII-2A)

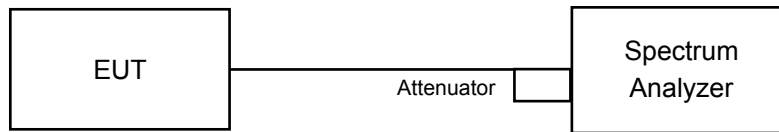


Note:

- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1
- For CH50 (U-NII-2A) = Marker 1 + Delta 2 – 5250MHz

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Results

Non-Beamforming Mode

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.04	17.04	17.04	16.92
40	5200	17.04	17.04	16.92	17.04
48	5240	17.16	17.04	16.92	16.92
52	5260	16.80	16.92	16.92	16.92
60	5300	17.04	17.04	16.92	16.92
64	5320	17.04	17.04	16.92	16.68
100	5500	16.92	17.04	17.16	16.80
116	5580	17.04	17.04	16.92	16.92
140	5700	16.92	16.92	16.80	16.92
144 (U-NII-2C Band)	5720	13.52	13.52	13.76	13.52
144 (U-NII-3 Band)	5720	3.40	3.52	3.40	3.52
149	5745	17.04	16.92	16.80	16.92
157	5785	17.04	16.92	16.80	16.92
165	5825	17.04	17.04	17.04	16.92

802.11ax (HE20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	19.08	19.08	19.08
40	5200	19.08	19.08	19.20	19.08
48	5240	19.20	19.08	19.08	19.08
52	5260	19.20	19.08	19.08	19.08
60	5300	19.08	19.08	19.08	19.08
64	5320	19.08	19.08	19.08	19.20
100	5500	19.08	19.20	19.08	19.08
116	5580	19.20	19.08	19.08	19.08
140	5700	19.08	19.08	19.08	19.08
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.48	4.48	4.48	4.48
149	5745	19.32	19.20	19.08	19.08
157	5785	19.08	19.08	19.08	19.20
165	5825	19.20	19.08	19.08	19.08

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.92	37.92	37.92	37.92
46	5230	37.92	37.92	37.92	38.16
54	5270	37.68	37.92	37.92	37.68
62	5310	37.92	37.92	38.16	37.68
102	5510	38.16	37.92	38.16	38.16
110	5550	37.92	37.92	38.16	38.16
134	5670	37.68	38.16	38.16	37.68
142 (U-NII-2C Band)	5710	34.00	34.00	34.20	34.00
142 (U-NII-3 Band)	5710	4.00	3.80	3.80	3.80
151	5755	38.16	37.92	38.16	37.92
159	5795	37.92	38.16	38.16	38.16

802.11ax (HE80)

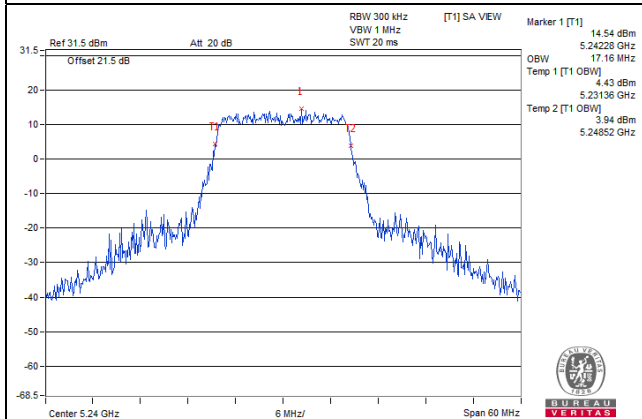
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	76.80	77.28
58	5290	77.28	77.28	77.28	77.28
106	5530	76.80	77.28	77.28	76.80
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.40	73.40
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40
155	5775	77.28	77.28	77.28	77.28

802.11ax (HE160)

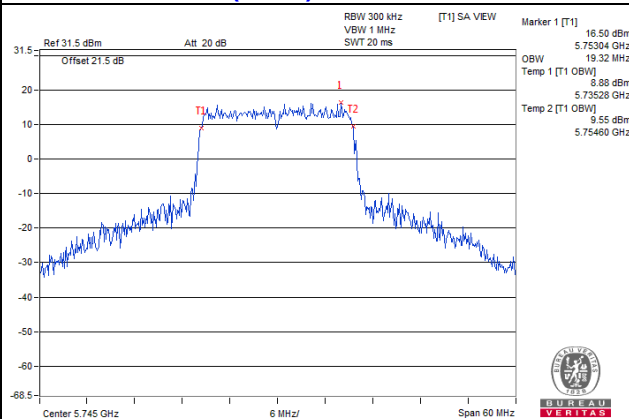
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1 Band)	5250	77.76	77.76	76.80	77.76
50 (U-NII-2A Band)	5250	76.80	76.80	76.80	76.80
114	5570	154.56	154.56	154.56	154.56

Spectrum Plot of Max. Value

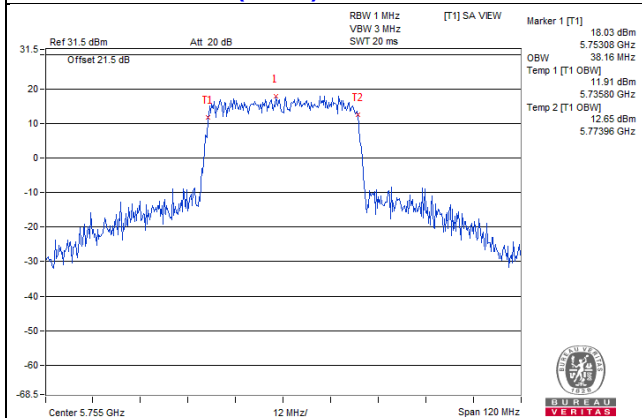
802.11a_Chain 0 / CH48



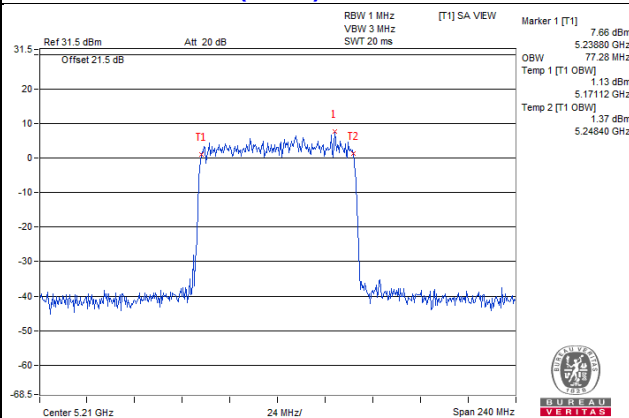
802.11ax (HE20)_Chain 0 / CH149



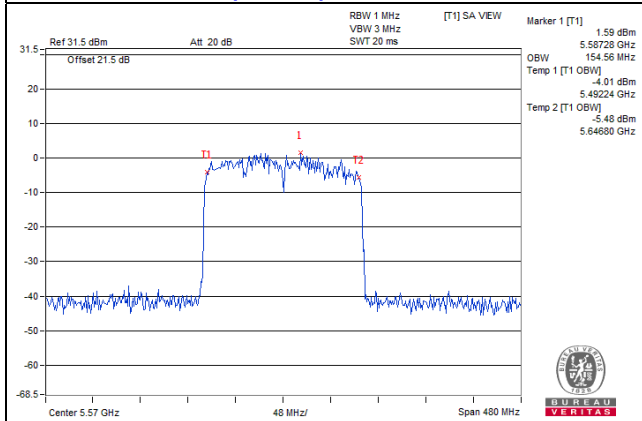
802.11ax (HE40)_Chain 0 / CH151



802.11ax (HE80)_Chain 0 / CH42

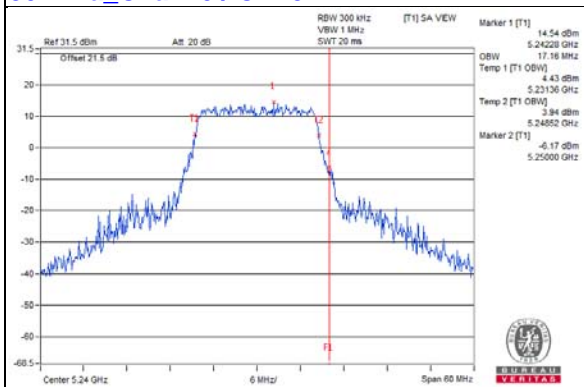


802.11ax (HE160)_Chain 0 / CH114

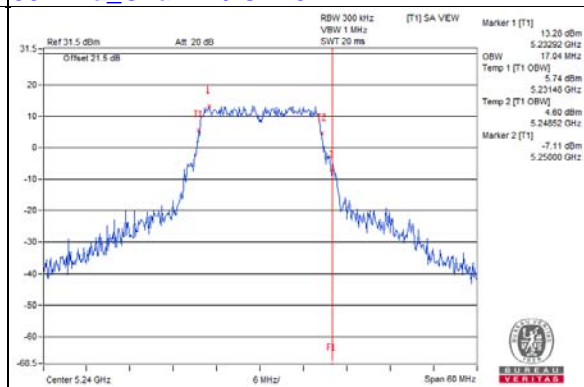


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

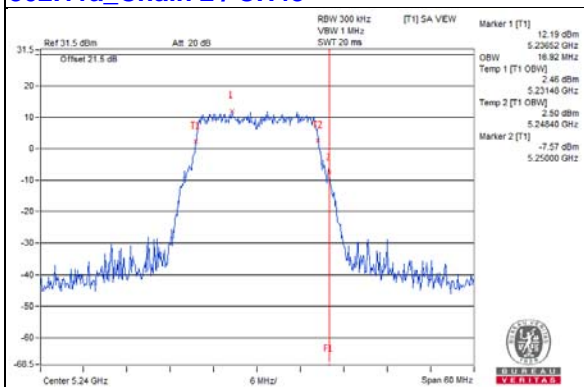
802.11a_Chain 0 / CH48



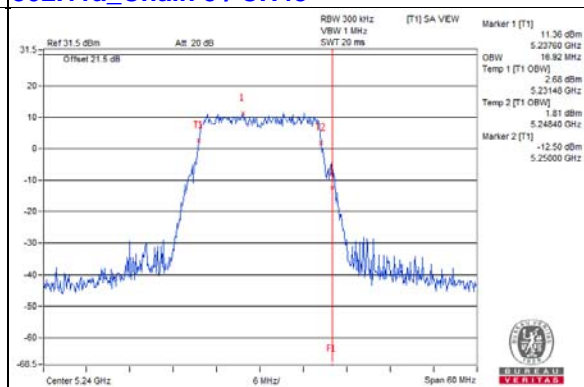
802.11a_Chain 1 / CH48



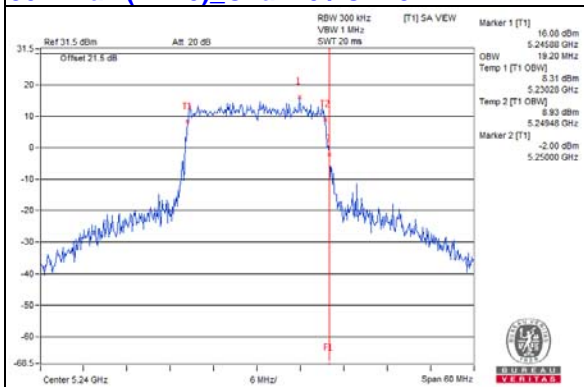
802.11a_Chain 2 / CH48



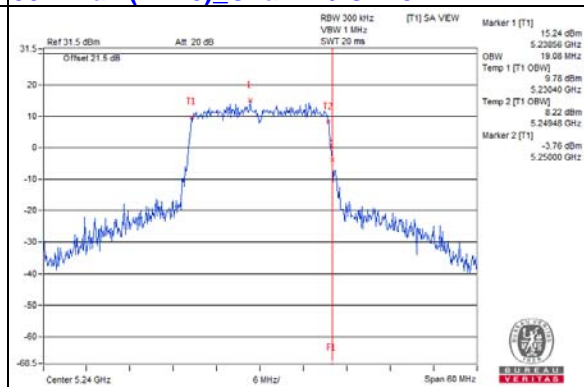
802.11a_Chain 3 / CH48



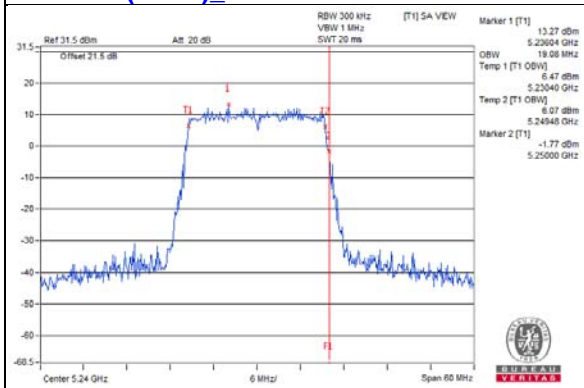
802.11ax (HE20)_Chain 0 / CH48



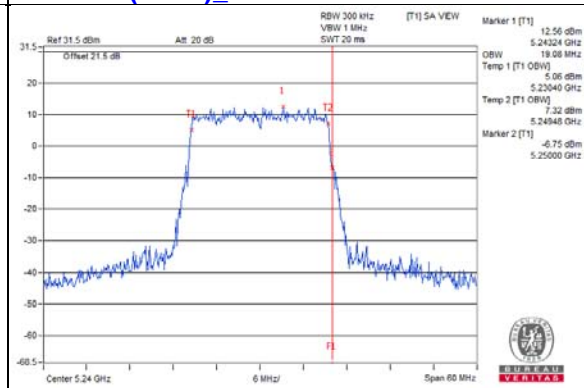
802.11ax (HE20)_Chain 1 / CH48



802.11ax (HE20)_Chain 2 / CH48

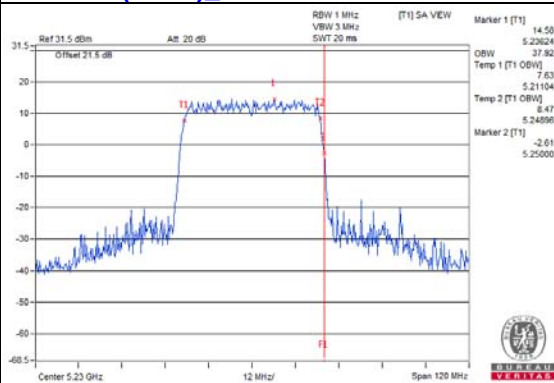


802.11ax (HE20)_Chain 3 / CH48

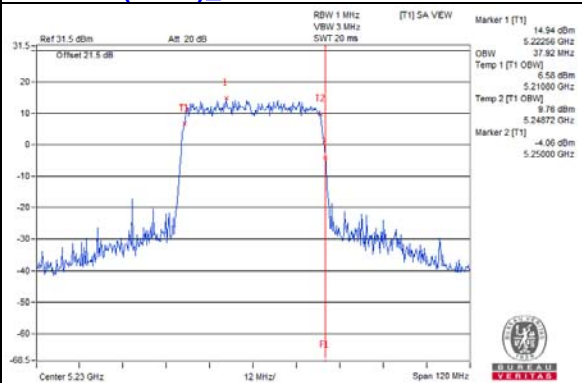


**Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)**

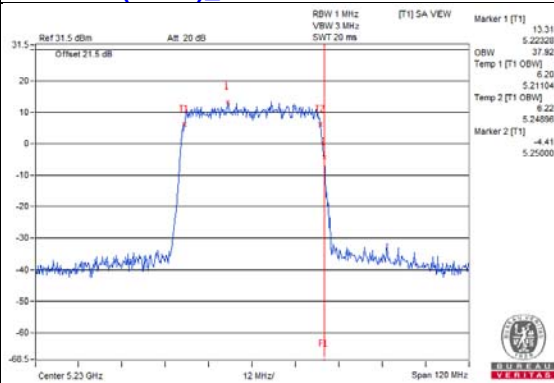
802.11ax (HE40)_Chain 0 / CH46



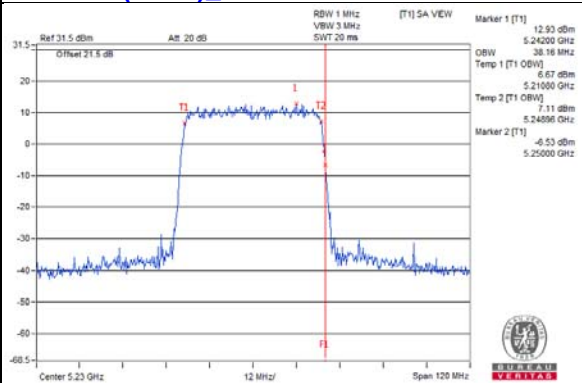
802.11ax (HE40)_Chain 1 / CH46



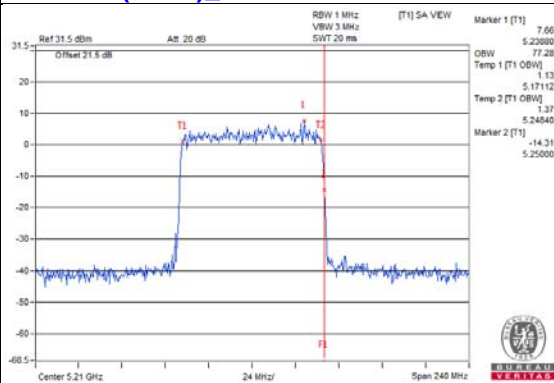
802.11ax (HE40)_Chain 2 / CH46



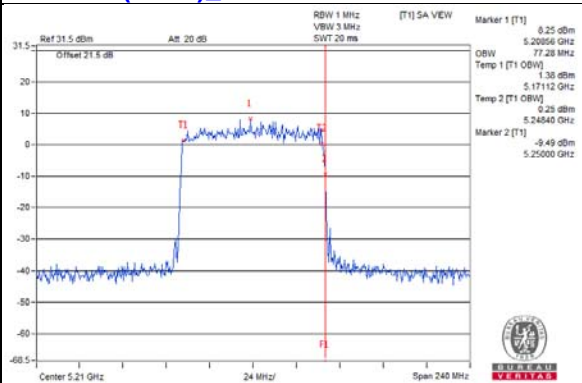
802.11ax (HE40)_Chain 3 / CH46



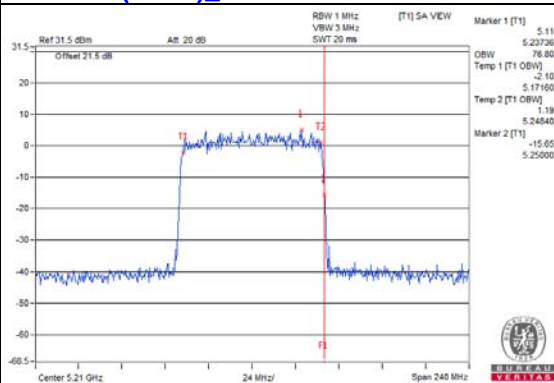
802.11ax (HE80)_Chain 0 / CH42



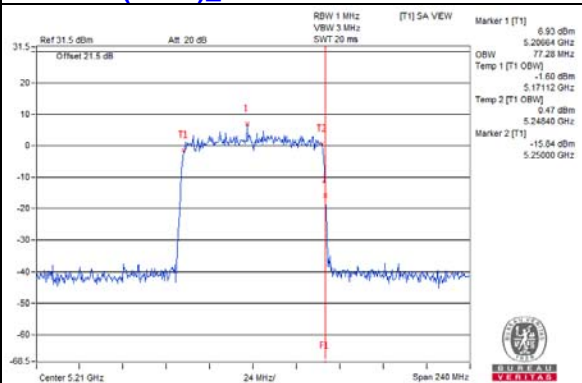
802.11ax (HE80)_Chain 1 / CH42



802.11ax (HE80)_Chain 2 / CH42

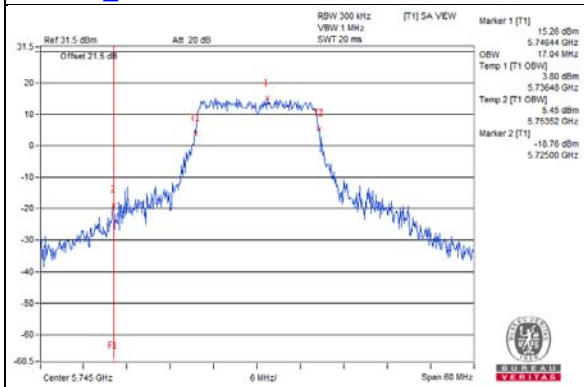


802.11ax (HE80)_Chain 3 / CH42

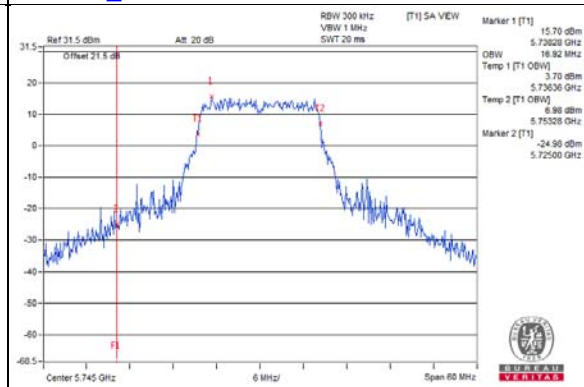


**Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)**

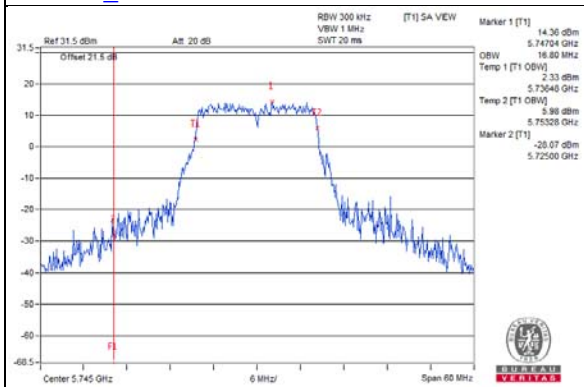
802.11a_Chain 0 / CH149



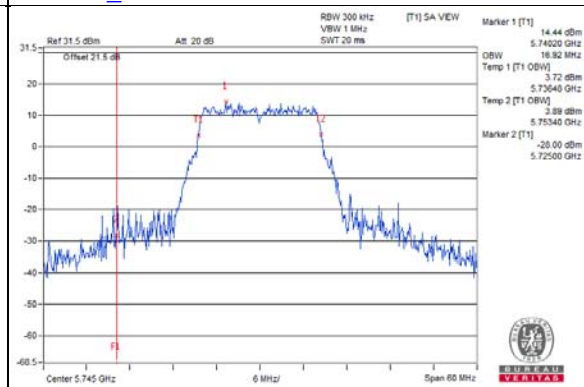
802.11a_Chain 1 / CH149



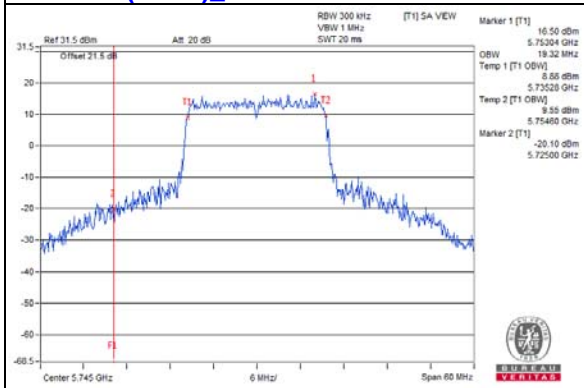
802.11a_Chain 2 / CH149



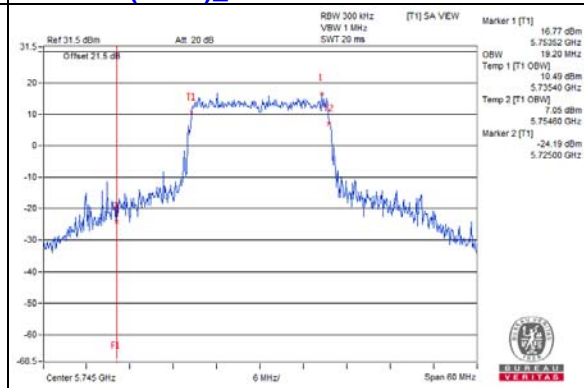
802.11a_Chain 3 / CH149



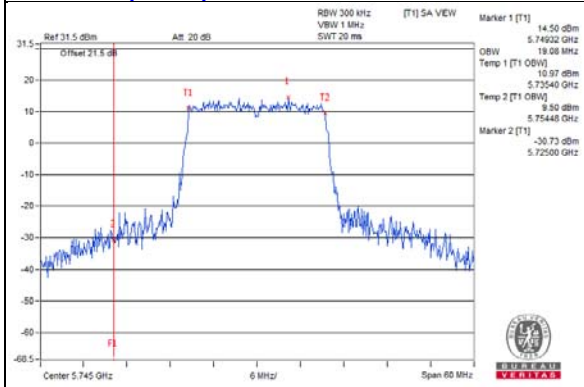
802.11ax (HE20)_Chain 0 / CH149



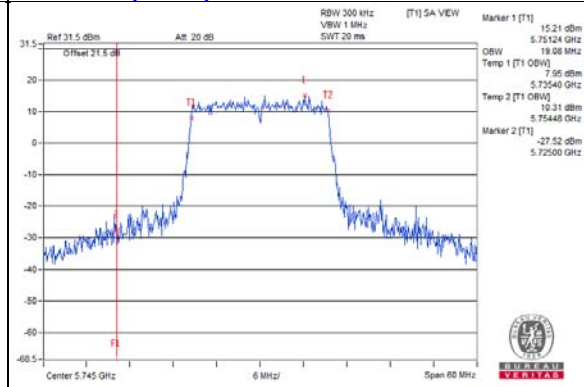
802.11ax (HE20)_Chain 1 / CH149



802.11ax (HE20)_Chain 2 / CH149

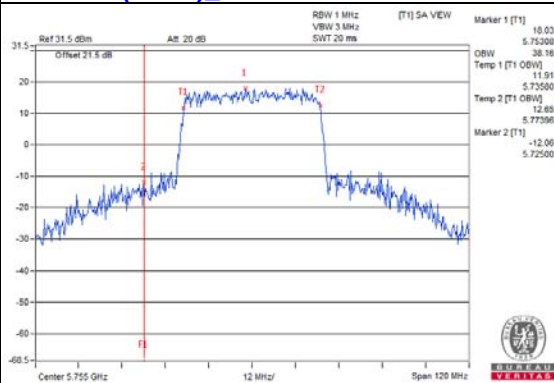


802.11ax (HE20)_Chain 3 / CH149

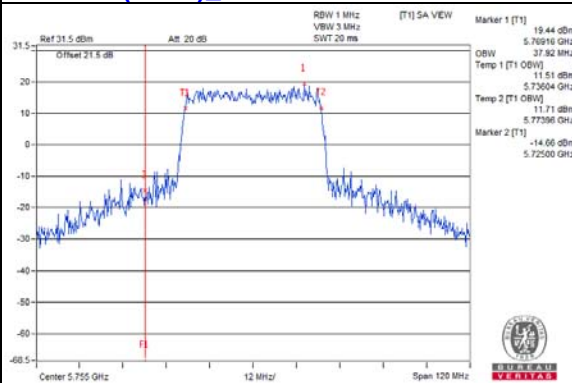


**Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)**

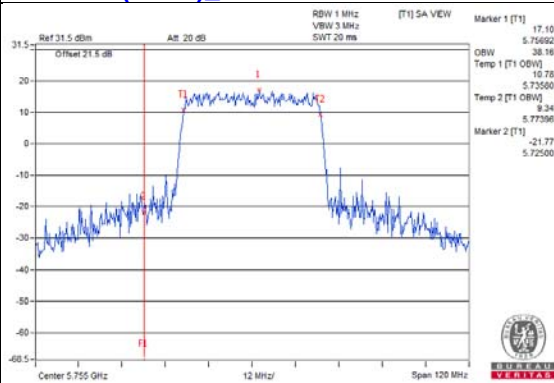
802.11ax (HE40)_Chain 0 / CH151



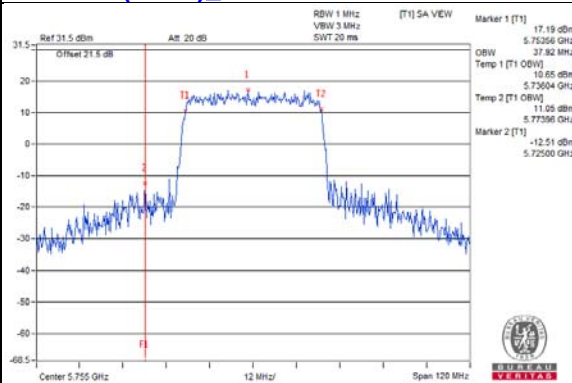
802.11ax (HE40)_Chain 1 / CH151



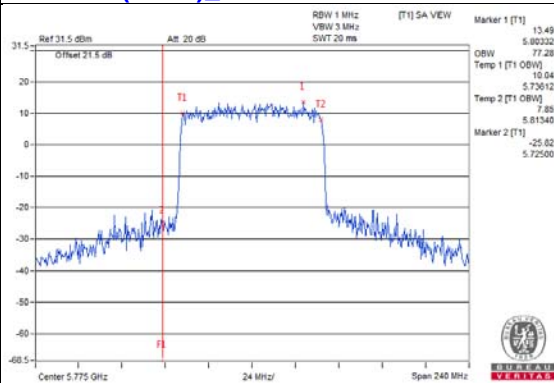
802.11ax (HE40)_Chain 2 / CH151



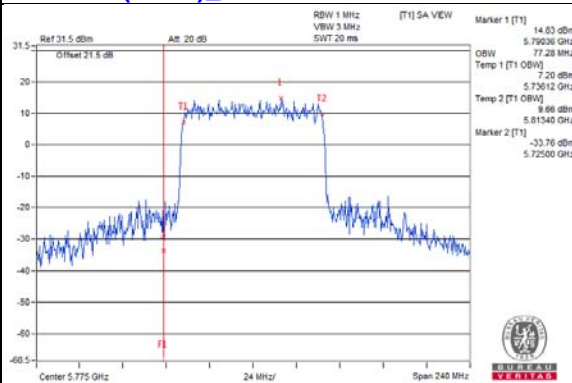
802.11ax (HE40)_Chain 3 / CH151



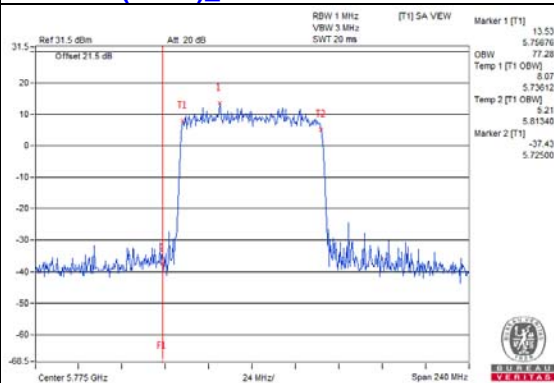
802.11ax (HE80)_Chain 0 / CH155



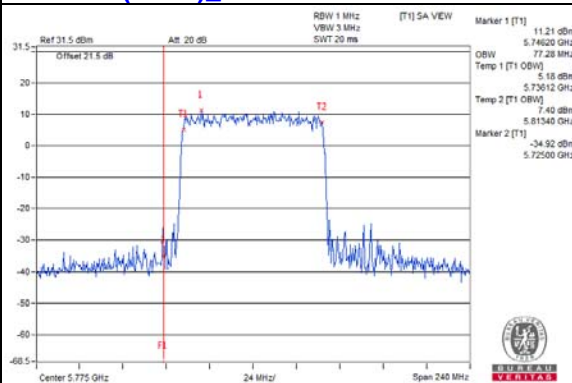
802.11ax (HE80)_Chain 1 / CH155



802.11ax (HE80)_Chain 2 / CH155



802.11ax (HE80)_Chain 3 / CH155

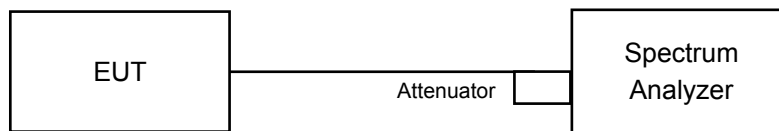


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Indoor Access Point	
		Client device	11dBm/ MHz
U-NII-2A		√	11dBm/ MHz
U-NII-2C		√	11dBm/ MHz
U-NII-3		√	30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

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

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500\text{kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

Non-Beamforming Mode

For U-NII-1, U-NII-2A, U-NII-2C:

802.11a

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	8.23	8.21	5.41	6.02	0.23	13.40	15.30	Pass
40	5200	9.74	9.76	7.63	7.24	0.23	15.00	15.30	Pass
48	5240	9.59	9.61	7.42	7.37	0.23	14.89	15.30	Pass
52	5260	3.01	3.12	1.90	2.19	0.23	8.84	9.30	Pass
60	5300	3.41	2.84	1.96	2.17	0.23	8.88	9.30	Pass
64	5320	3.33	3.10	2.08	1.65	0.23	8.85	9.30	Pass
100	5500	3.08	3.03	2.54	2.42	0.23	9.03	9.30	Pass
116	5580	1.88	2.77	2.25	2.54	0.23	8.62	9.30	Pass
140	5700	2.87	2.71	2.18	1.82	0.23	8.67	9.30	Pass
144 (U-NII-2C Band)	5720	2.90	2.97	1.68	1.97	0.23	8.67	9.30	Pass

- Note:**
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For U-NII-1: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $17-(7.7-6) = 15.3\text{dBm}$.
 - For U-NII-2A, U-NII-2C: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $11-(7.7-6) = 9.3\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	6.88	6.86	5.34	4.72	0.13	12.20	15.30	Pass
40	5200	9.35	8.99	7.36	7.08	0.13	14.46	15.30	Pass
48	5240	9.30	8.76	6.97	7.00	0.13	14.28	15.30	Pass
52	5260	3.25	2.89	1.40	1.48	0.13	8.48	9.30	Pass
60	5300	2.86	2.78	1.26	1.27	0.13	8.26	9.30	Pass
64	5320	2.56	2.90	1.11	1.07	0.13	8.14	9.30	Pass
100	5500	2.16	2.02	1.79	2.19	0.13	8.19	9.30	Pass
116	5580	2.42	2.21	1.82	1.81	0.13	8.22	9.30	Pass
140	5700	2.36	2.21	1.73	1.73	0.13	8.17	9.30	Pass
144 (U-NII-2C Band)	5720	2.34	2.28	1.58	1.73	0.13	8.15	9.30	Pass

- Note:**
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 2. For U-NII-1: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $17-(7.7-6) = 15.3\text{dBm}$.
 3. For U-NII-2A, U-NII-2C: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $11-(7.7-6) = 9.3\text{dBm}$.
 4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	-0.73	-0.61	-2.02	-1.80	0.13	4.91	15.30	Pass
46	5230	4.04	3.93	2.01	2.20	0.13	9.30	15.30	Pass
54	5270	1.54	1.34	0.09	0.35	0.13	7.02	9.30	Pass
62	5310	-0.68	-0.85	-2.25	-2.41	0.13	4.67	9.30	Pass
102	5510	-0.68	-0.70	-0.98	-0.97	0.13	5.32	9.30	Pass
110	5550	1.38	1.32	0.83	1.11	0.13	7.32	9.30	Pass
134	5670	1.20	1.05	0.64	0.61	0.13	7.03	9.30	Pass
142 (U-NII-2C Band)	5710	1.06	1.53	0.61	0.55	0.13	7.11	9.30	Pass

- Note:**
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For U-NII-1: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $17-(7.7-6) = 15.3\text{dBm}$.
 - For U-NII-2A, U-NII-2C: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $11-(7.7-6) = 9.3\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-3.78	-7.38	-5.81	-5.67	0.12	0.67	15.30	Pass
58	5290	-5.03	-5.47	-6.27	-6.17	0.12	0.44	9.30	Pass
106	5530	-3.82	-7.29	-4.50	-4.73	0.12	1.24	9.30	Pass
122	5610	-4.41	-5.38	-5.00	-5.34	0.12	1.13	9.30	Pass
138 (U-NII-2C Band)	5690	-1.86	-3.23	-2.50	-2.38	0.12	3.68	9.30	Pass

- Note:**
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For U-NII-1: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $17-(7.7-6) = 15.3\text{dBm}$.
 - For U-NII-2A, U-NII-2C: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $11-(7.7-6) = 9.3\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

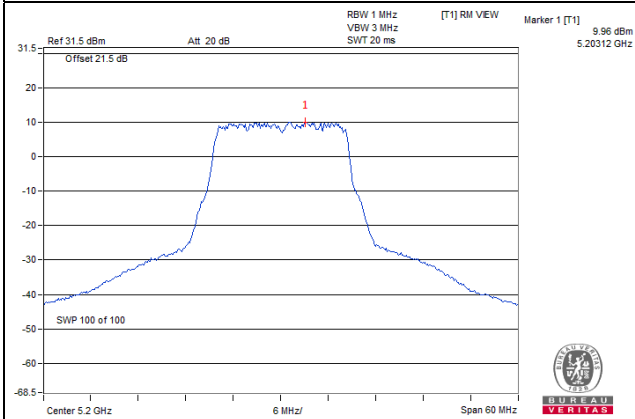
802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50 (U-NII-1 Band)	5250	-8.79	-9.01	-10.13	-10.00	0.53	-2.89	15.30	Pass
50 (U-NII-2A Band)	5250	-8.76	-9.22	-9.77	-9.70	0.53	-2.79	9.30	Pass
114	5570	-8.17	-8.67	-9.09	-9.11	0.53	-2.19	9.30	Pass

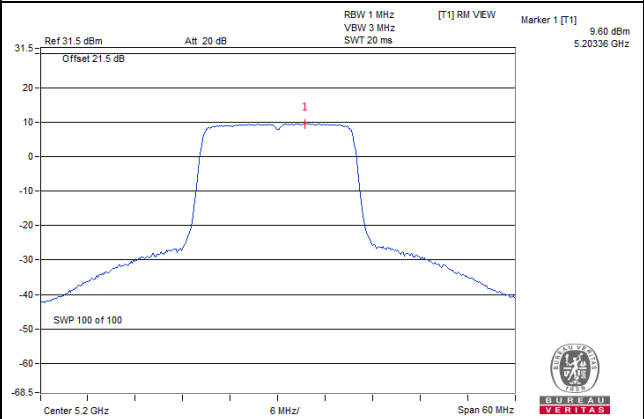
- Note:**
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 2. For U-NII-1: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $17-(7.7-6) = 15.3\text{dBm}$.
 3. For U-NII-2A, U-NII-2C: The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $11-(7.7-6) = 9.3\text{dBm}$.
 4. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

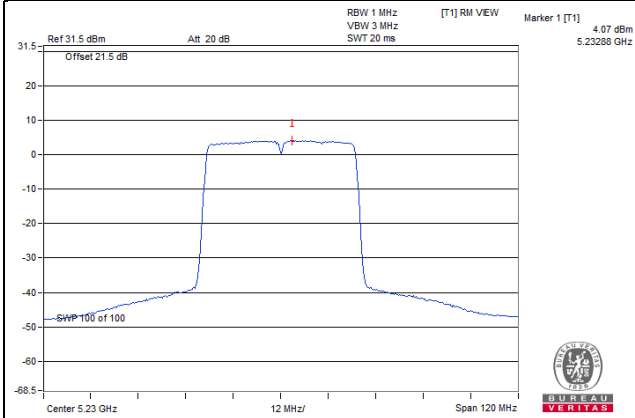
802.11a_Chain 1 / CH40



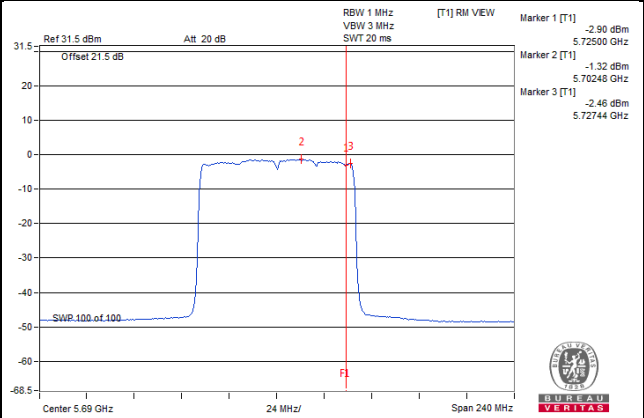
802.11ax (HE20)_Chain 0 / CH40



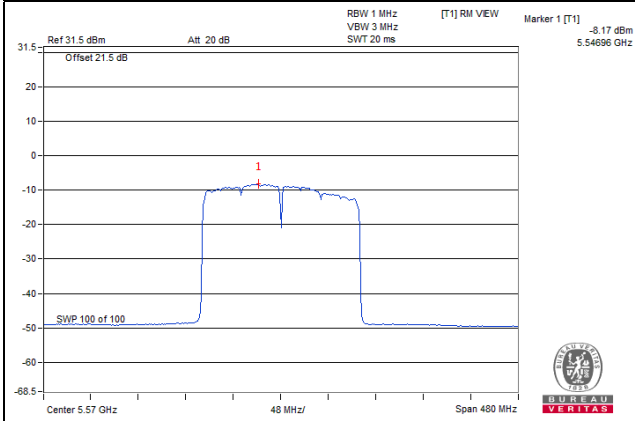
802.11ax (HE40)_Chain 0 / CH46



802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C)



802.11ax (HE160)_Chain 0 / CH114



For U-NII-3:

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
144 (U-NII-3 Band)	5720	-5.85	-5.70	-6.48	-6.55	0.23	1.0294	0.13	2.35	28.30	Pass
149	5745	3.24	2.99	2.05	1.63	0.23	7.5543	8.78	11.00	28.30	Pass
157	5785	2.82	3.29	1.89	1.53	0.23	7.4033	8.69	10.91	28.30	Pass
165	5825	2.86	2.85	1.56	1.24	0.23	6.9888	8.44	10.66	28.30	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.7 - 6) = 28.3\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
144 (U-NII-3 Band)	5720	-6.37	-6.91	-7.12	-7.15	0.13	0.8456	-0.73	1.49	28.30	Pass
149	5745	2.13	2.06	0.30	0.52	0.13	5.6002	7.48	9.70	28.30	Pass
157	5785	2.34	1.88	0.62	0.44	0.13	5.6795	7.54	9.76	28.30	Pass
165	5825	1.92	1.62	0.24	0.71	0.13	5.3982	7.32	9.54	28.30	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.7 - 6) = 28.3\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
142 (U-NII-3 Band)	5710	-8.01	-7.81	-8.85	-8.64	0.13	0.6082	-2.16	0.06	28.30	Pass
151	5755	-1.03	-1.08	-2.23	-2.18	0.13	2.8543	4.55	6.77	28.30	Pass
159	5795	-1.33	-1.26	-2.44	-2.29	0.13	2.7228	4.35	6.57	28.30	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.7 - 6) = 28.3\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

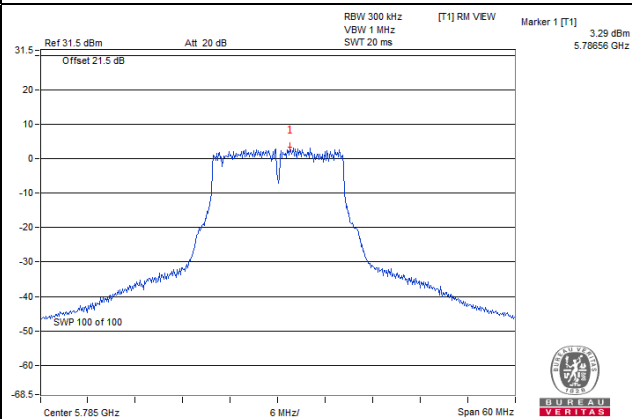
802.11ax (HE80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
138 (U-NII-3 Band)	5690	-11.58	-12.19	-12.44	-11.73	0.12	0.26092	-5.83	-3.61	28.30	Pass
155	5775	-5.75	-6.16	-7.30	-7.40	0.12	0.9	-0.46	1.76	28.30	Pass

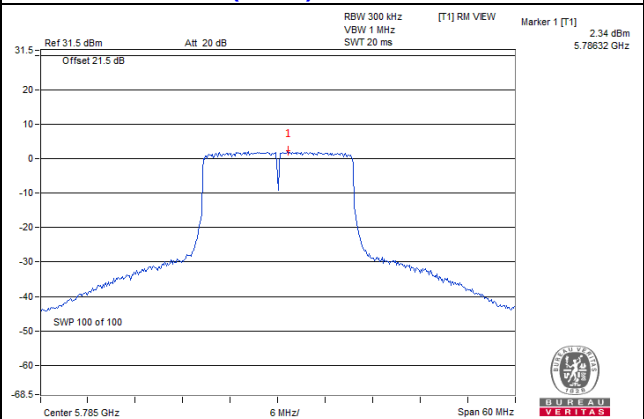
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = 7.7dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.7 - 6) = 28.3\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

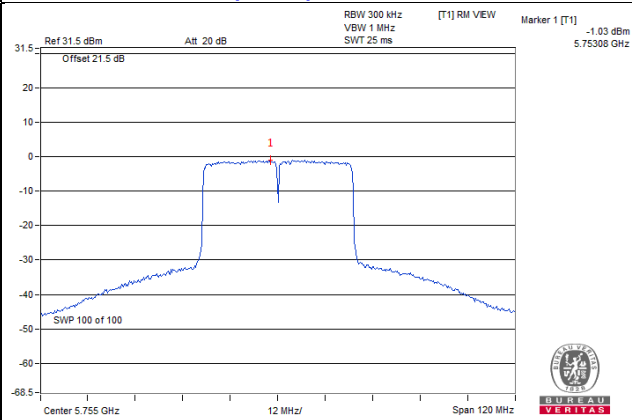
802.11a_Chain 1 / CH157



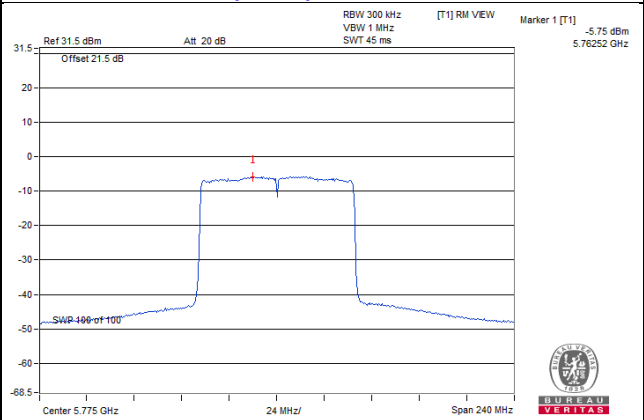
802.11ax (HE20)_Chain 0 / CH157



802.11ax (HE40)_Chain 0 / CH151



802.11ax (HE80)_Chain 0 / CH155

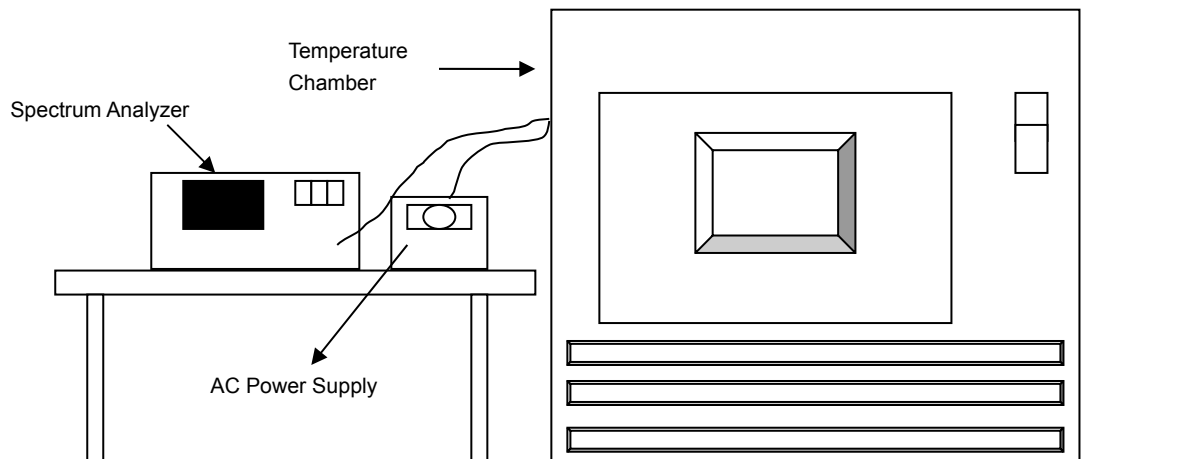


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5180.0065	Pass	5180.0113	Pass	5180.0101	Pass	5180.0091	Pass
40	120	5180.0122	Pass	5180.0133	Pass	5180.0164	Pass	5180.0135	Pass
30	120	5179.9974	Pass	5180.0009	Pass	5179.9981	Pass	5180.0003	Pass
20	120	5179.9952	Pass	5179.9935	Pass	5179.9927	Pass	5179.9942	Pass
10	120	5179.9814	Pass	5179.982	Pass	5179.9808	Pass	5179.9815	Pass
0	120	5180.0159	Pass	5180.0158	Pass	5180.0144	Pass	5180.0187	Pass
-10	120	5179.9962	Pass	5179.9984	Pass	5179.9964	Pass	5179.9999	Pass
-20	120	5180.0112	Pass	5180.0094	Pass	5180.0072	Pass	5180.0074	Pass
-30	120	5179.9897	Pass	5179.9902	Pass	5179.9888	Pass	5179.9906	Pass

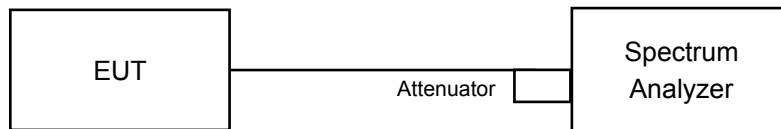
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5179.9958	Pass	5179.9935	Pass	5179.9936	Pass	5179.9939	Pass
	120	5179.9952	Pass	5179.9935	Pass	5179.9927	Pass	5179.9942	Pass
	102	5179.9955	Pass	5179.9934	Pass	5179.9927	Pass	5179.995	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

Non-Beamforming Mode
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3 Band)	5720	3.20	3.21	3.19	3.19	0.5	Pass
149	5745	16.44	16.44	16.41	16.44	0.5	Pass
157	5785	16.43	16.43	16.44	16.45	0.5	Pass
165	5825	16.43	16.44	16.44	16.43	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3 Band)	5720	4.52	4.51	4.51	4.51	0.5	Pass
149	5745	19.05	19.10	19.08	19.06	0.5	Pass
157	5785	19.06	19.12	19.05	19.02	0.5	Pass
165	5825	19.06	19.07	19.07	19.06	0.5	Pass

802.11ax (HE40)

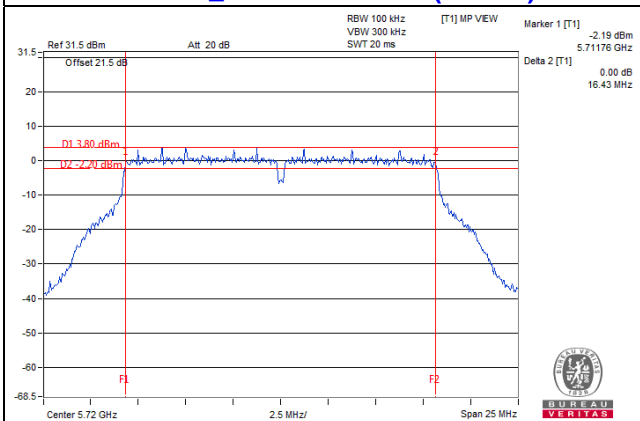
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3 Band)	5710	3.97	3.90	4.00	4.00	0.5	Pass
151	5755	37.96	37.60	37.88	37.92	0.5	Pass
159	5795	37.85	37.49	37.93	37.85	0.5	Pass

802.11ax (HE80)

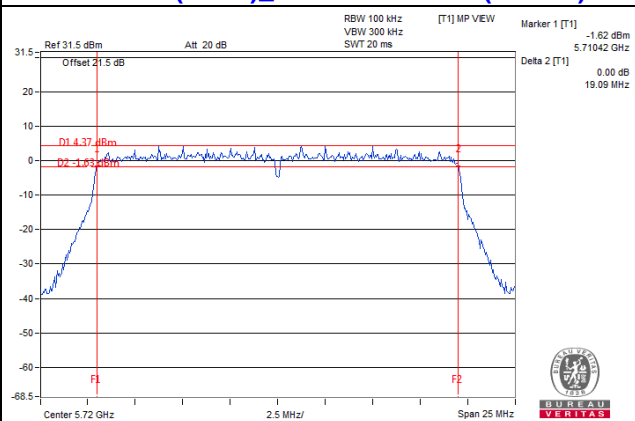
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3 Band)	5690	3.73	3.32	4.01	3.78	0.5	Pass
155	5775	77.39	76.83	77.74	77.80	0.5	Pass

Spectrum Plot of Worst Value

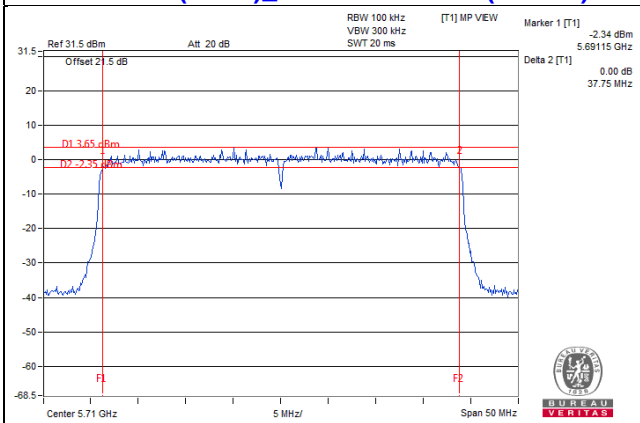
802.11a_Chain 2 / CH144 (U-NII-3)



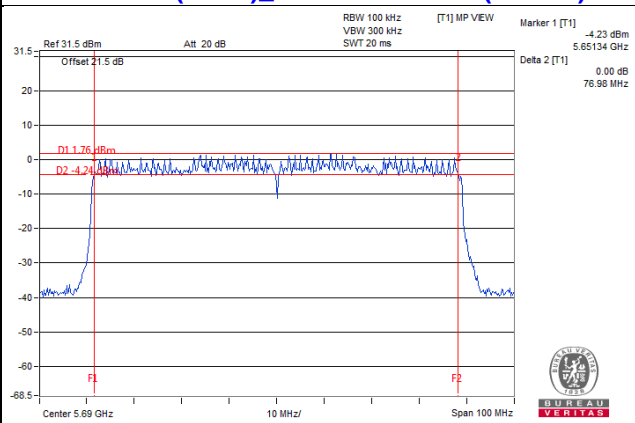
802.11ax (HE20)_Chain 1 / CH144 (U-NII-3)



802.11ax (HE40)_Chain 1 / CH142 (U-NII-3)



802.11ax (HE80)_Chain 1 / CH138 (U-NII-3)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5 Pictures of Test Arrangements

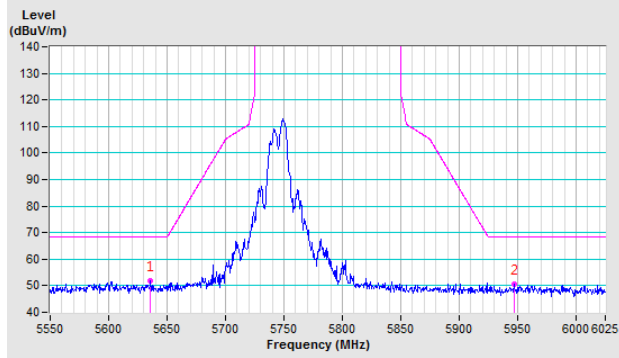
Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

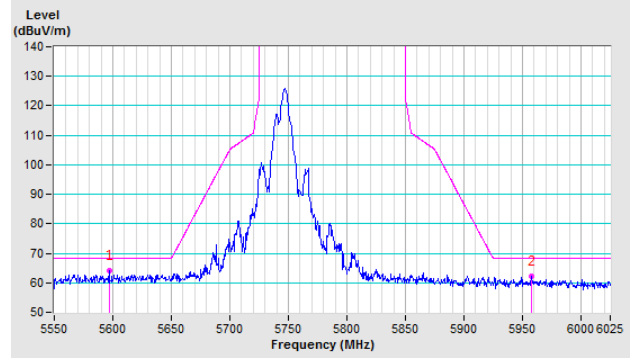
802.11a

CH 149 5745 MHz

Horizontal

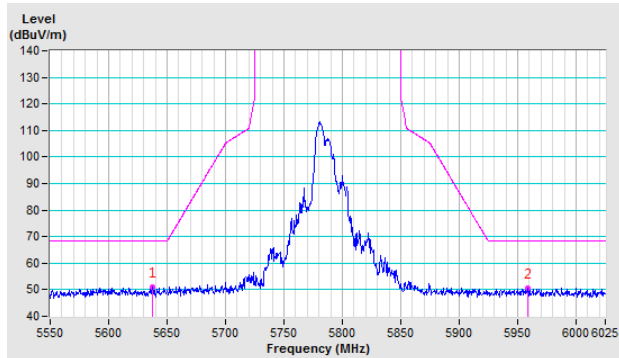


Vertical

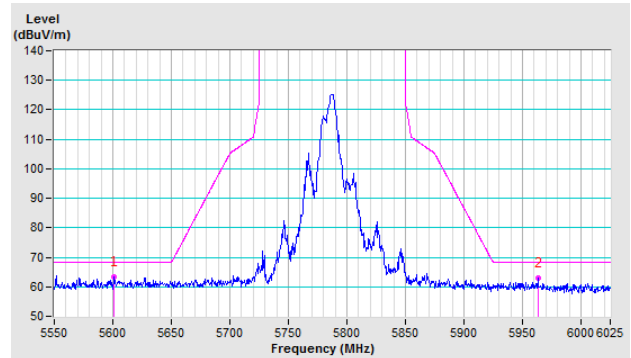


CH 157 5785 MHz

Horizontal

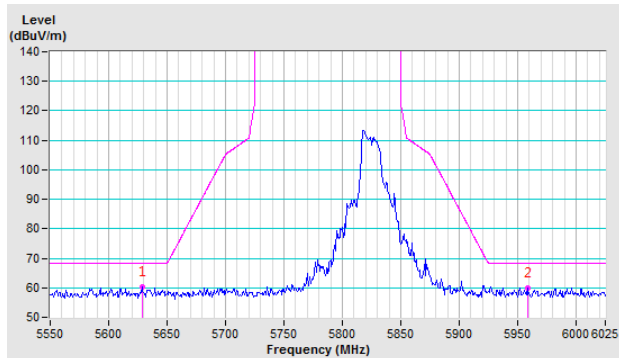


Vertical

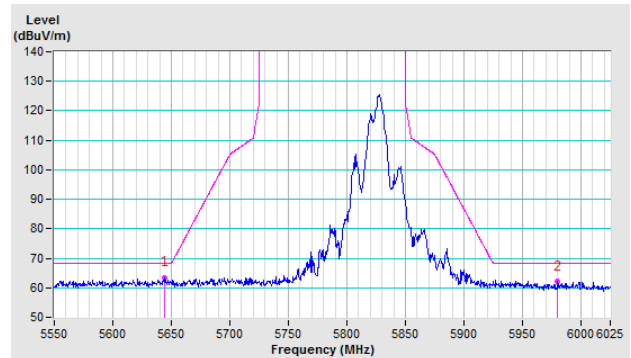


CH 165 5825 MHz

Horizontal



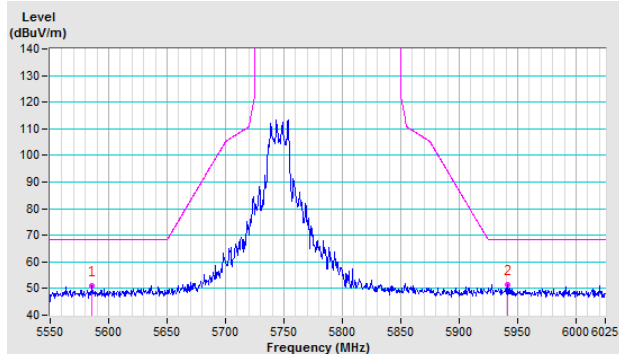
Vertical



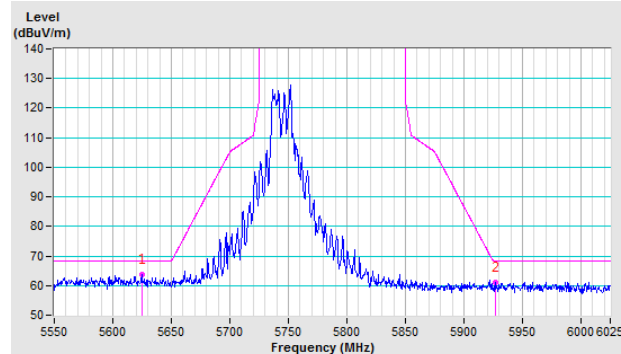
802.11ax (HE20)

CH 149 5745 MHz

Horizontal

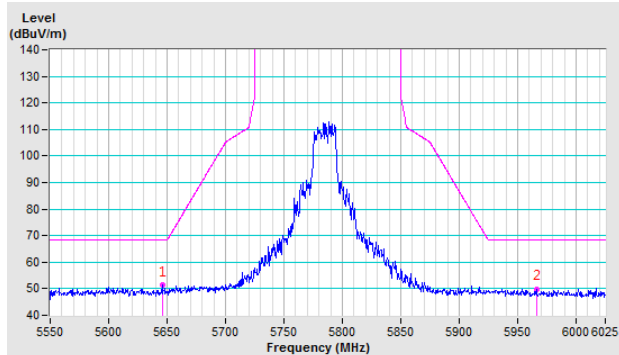


Vertical

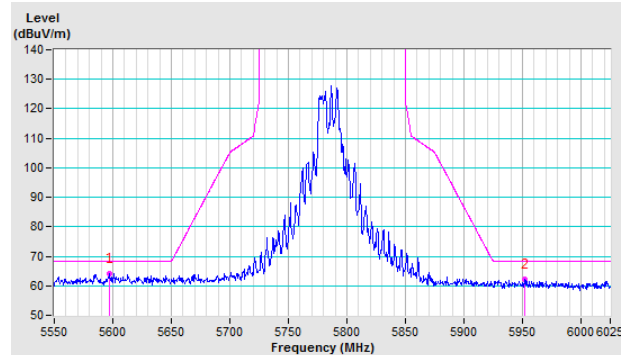


CH 157 5785 MHz

Horizontal

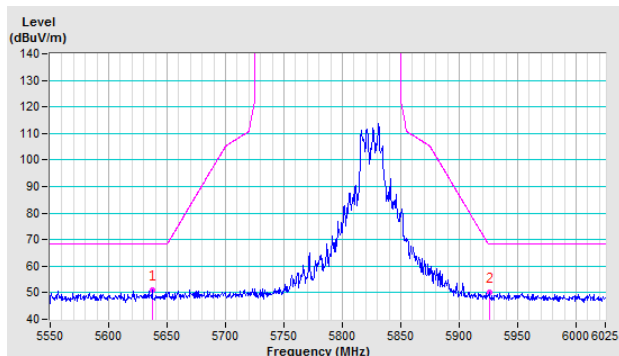


Vertical

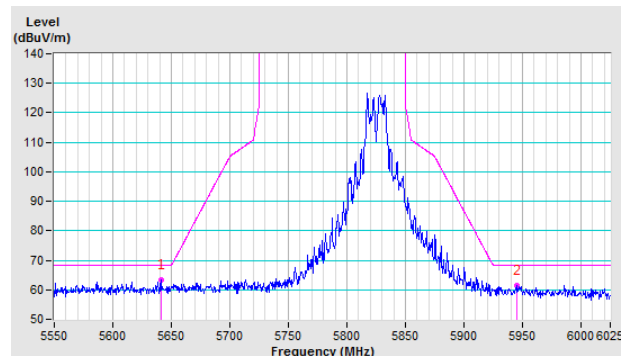


CH 165 5825 MHz

Horizontal



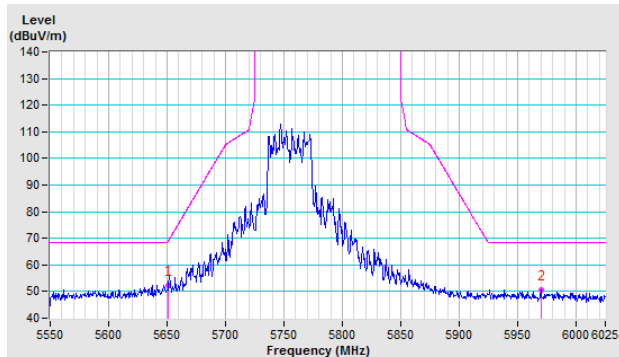
Vertical



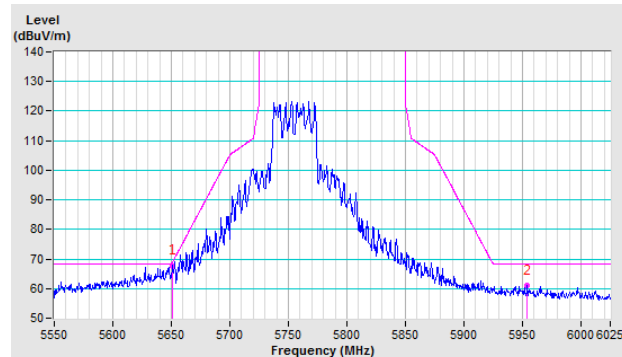
802.11ax (HE40)

CH 151 5755 MHz

Horizontal

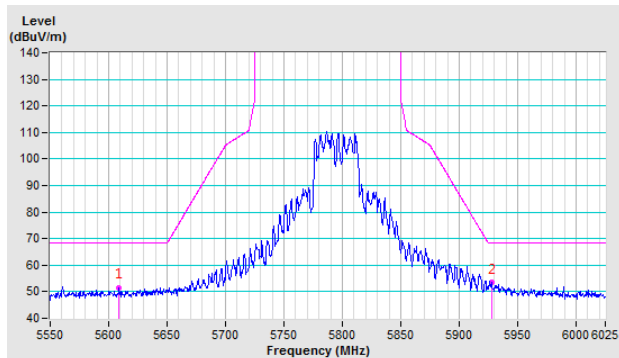


Vertical

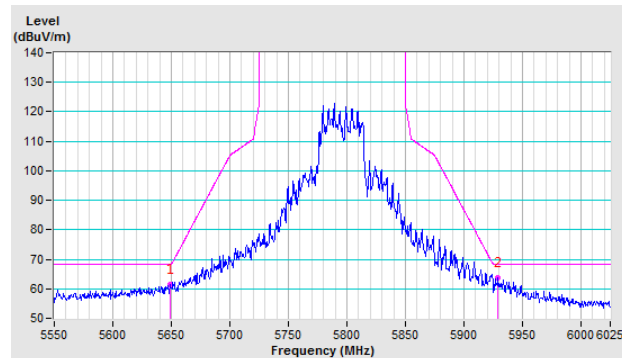


CH 159 5795 MHz

Horizontal



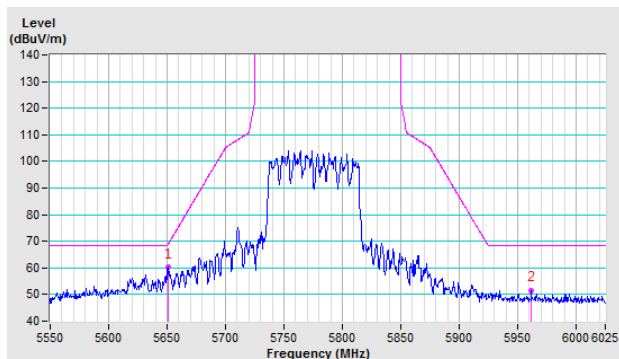
Vertical



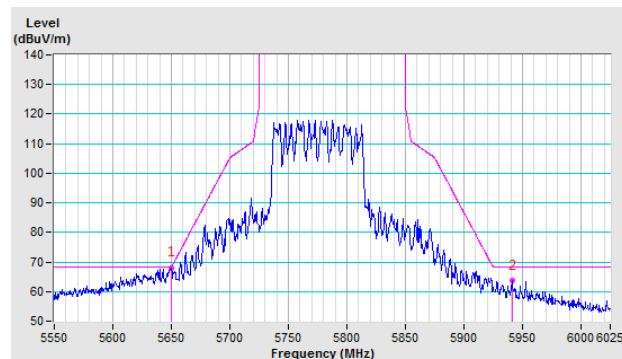
802.11ax (HE80)

CH 155 5775 MHz

Horizontal



Vertical



Appendix – Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

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Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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