FCC RADIO TEST REPORT

FCC ID	:	**UZ7ET51CE**
Equipment	:	**Tablet**
Brand Name	:	**Zebra**
Model name	:	**ET51CE**
Applicant	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jan. 16, 2019 and testing was started from May 15, 2019 and completed on Jun. 20, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR911633F	01	Initial issue of report	Jun. 25, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.42 dB at 5647.400 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 15.57 dB at 0.166 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Aileen Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	Zebra
Model Name	ET51CE
FCC ID	UZ7ET51CE
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV1
SW Version	Android version 8.1.0
FW Version	01-19-08.00-OG-U00-PLT
MFD	19MAY01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
Spare Standard Battery 24.13Wh	**Brand Name**	Zebra	**Model Name**	BT-000393

Supported Unit Used in Test Configuration and System				
Cradle (Dock)	**Brand Name**	Zebra	**Part Number**	CRD-ET5X-1SCG1
Adapter	**Brand Name**	Zebra	**Part Number**	PWRBGA12V50W0WW
DC Cable	**Brand Name**	Zebra	**Part Number**	CBL-DC-388A1-01

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power <CDD Modes>	**<Ant. 1>** 802.11a : 18.30 dBm / 0.0676 W 802.11n HT20 : 18.30 dBm / 0.0676 W 802.11n HT40 : 18.40 dBm / 0.0692 W 802.11ac VHT20: 18.40 dBm / 0.0692 W 802.11ac VHT40: 18.50 dBm / 0.0708 W 802.11ac VHT80: 18.30 dBm / 0.0676 W **<Ant. 2>** 802.11a : 18.40 dBm / 0.0692 W 802.11n HT20 : 18.40 dBm / 0.0692 W 802.11n HT40 : 18.30 dBm / 0.0676 W 802.11ac VHT20: 18.50 dBm / 0.0708 W 802.11ac VHT40: 18.40 dBm / 0.0692 W 802.11ac VHT80: 18.40 dBm / 0.0692 W **MIMO <Ant. 1 + 2>** 802.11a : 21.46 dBm / 0.1400 W 802.11n HT20 : 21.36 dBm / 0.1368 W 802.11n HT40 : 21.36 dBm / 0.1368 W 802.11ac VHT20: 21.46 dBm / 0.1400 W 802.11ac VHT40: 21.46 dBm / 0.1400 W 802.11ac VHT80: 21.46 dBm / 0.1400 W
Maximum Output Power <TXBF Modes>	**MIMO <Ant. 1 + 2>** 802.11ac VHT20: 21.31 dBm / 0.1352 W 802.11ac VHT40: 21.46 dBm / 0.1400 W 802.11ac VHT80: 21.41 dBm / 0.1384 W
99% Occupied Bandwidth <CDD Modes>	**<Ant. 1>** 802.11a : 17.10 MHz 802.11ac VHT20 : 18.25 MHz 802.11ac VHT40 : 37.20 MHz 802.11ac VHT80 : 77.40 MHz **<Ant. 2>** 802.11a : 16.95 MHz 802.11ac VHT20 : 18.05 MHz 802.11ac VHT40 : 37.00 MHz 802.11ac VHT80 : 77.28 MHz **MIMO <Ant. 1>** 802.11a : 17.15 MHz 802.11ac VHT20 : 18.35 MHz 802.11ac VHT40 : 37.40 MHz 802.11ac VHT80 : 77.52 MHz **MIMO <Ant. 2>** 802.11a : 16.75 MHz 802.11ac VHT20 : 18.05 MHz 802.11ac VHT40 : 37.10 MHz 802.11ac VHT80 : 77.16 MHz

Standards-related Product Specification	
99% Occupied Bandwidth <TXBF Modes>	**MIMO <Ant. 1>** 802.11ac VHT20 : 19.13 MHz 802.11ac VHT40 : 44.16 MHz 802.11ac VHT80 : 78.52 MHz **MIMO <Ant. 2>** 802.11ac VHT20 : 18.38 MHz 802.11ac VHT40 : 39.56 MHz 802.11ac VHT80 : 78.04 MHz
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Type / Gain	<Ant. 1> : Chip Antenna with gain 3.99 dBi <Ant. 2> : Chip Antenna with gain 2.75 dBi
Antenna Function Description	

	Ant. 1	Ant. 2
802.11 a/n/ac	V	V
802.11 n/ac MIMO	V	V
802.11ac TXBF	V	V

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH13-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Single Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20 (Covered by VHT20)	**MCS0**
802.11n HT40 (Covered by VHT40)	**MCS0**
802.11ac VHT20	**MCS0**
802.11ac VHT40	**MCS0**
802.11ac VHT80	**MCS0**

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

TXBF Mode

Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + USB Cable (Type C) + USB (Type C) with LCD Monitor + AC Adaptor (PWRBGA12V50W0WW) with DC Cable (CBL-DC-388A1-01) + Dock (CRD-ET5X-1SCG1) (Charging with EUT) + MPEG4 (Color Bar) + NFC On + SD Card (Load)

<CDD Mode>

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

Ch. #		Band IV：5725-5850 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

<CDD Mode>

<Ant. 1>

802.11a RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps)	channel	Data Rate (bps)							
		6M		9M	12M	18M	24M	36M	48M	54M	
CH 149	5745	18.20	CH 157	18.20	17.90	18.00	17.90	17.90	18.00	17.90	
CH 157	5785	**18.30**									
CH 165	5825	18.10									

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**18.30**	CH 149	18.20	17.90	17.90	17.90	17.90	18.00	17.90
CH 157	5785	18.10								
CH 165	5825	18.20								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	18.10	CH 159	18.00	18.00	18.00	18.00	18.00	18.00	18.00
CH 159	5795	**18.40**								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**18.40**	CH 149	18.30	18.00	18.00	18.00	18.00	18.10	18.00	18.00
CH 157	5785	18.20									
CH 165	5825	18.30									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	18.20	CH 159	18.10	18.10	18.10	18.10	18.10	18.10	18.10	18.10	18.10
CH 159	5795	**18.50**										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	**18.30**	CH155	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90	17.90

<Ant. 2>

802.11a RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps)	channel	Data Rate (bps)							
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	**18.40**	CH 157	18.30	18.30	18.00	18.30	18.30	18.30	18.30
CH 157	5785	**18.40**								
CH 165	5825	18.20								

802.11n HT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	18.10	CH 157	18.30	18.30	18.30	18.30	18.30	18.30	18.30
CH 157	5785	**18.40**								
CH 165	5825	18.30								

802.11n HT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	18.20	CH 159	18.20	18.20	18.20	18.20	18.20	18.20	18.20
CH 159	5795	**18.30**								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	18.20	CH 157	18.40	18.40	18.40	18.40	18.40	18.40	18.40	18.40
CH 157	5785	**18.50**									
CH 165	5825	18.40									

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	18.30	CH 159	18.30	18.30	18.30	18.30	18.30	18.30	18.30	18.30	18.30
CH 159	5795	**18.40**										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	**18.40**	CH155	18.30	18.30	18.30	18.20	18.20	18.30	18.30	18.30	18.30

MIMO <Ant. 1 + 2>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	**21.46**	CH 149	21.06	21.01	21.16	21.01	21.06	21.11	21.11
CH 157	5785	21.26								
CH 165	5825	**21.46**								

802.11n HT20 RF Output Power (dBm)									
Power vs. Channel			Power vs Data Rate						
Channel	Frequency (MHz)	MCS Index	channel	MCS Index					
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**21.36**	CH 149	20.91	20.96	20.96	20.96	21.01	21.01	20.96
CH 157	5785	21.16								
CH 165	5825	21.31								

802.11n HT40 RF Output Power (dBm)									
Power vs. Channel			Power vs Data Rate						
Channel	Frequency (MHz)	MCS Index	channel	MCS Index					
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	**21.36**	CH 151	21.31	21.31	21.01	21.01	21.01	21.01	20.91
CH 159	5795	21.16								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**21.46**	CH 149	21.01	21.06	21.06	21.06	21.11	21.11	21.06	21.11
CH 157	5785	21.26									
CH 165	5825	21.41									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**21.46**	CH 151	21.41	21.41	21.11	21.11	21.11	21.11	21.01	21.11	21.06
CH 159	5795	21.26										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	**21.46**	CH155	21.41	21.41	21.41	21.41	21.36	21.36	21.36	21.36	21.41

<TXBF Mode>

MIMO <Ant. 1 + 2>

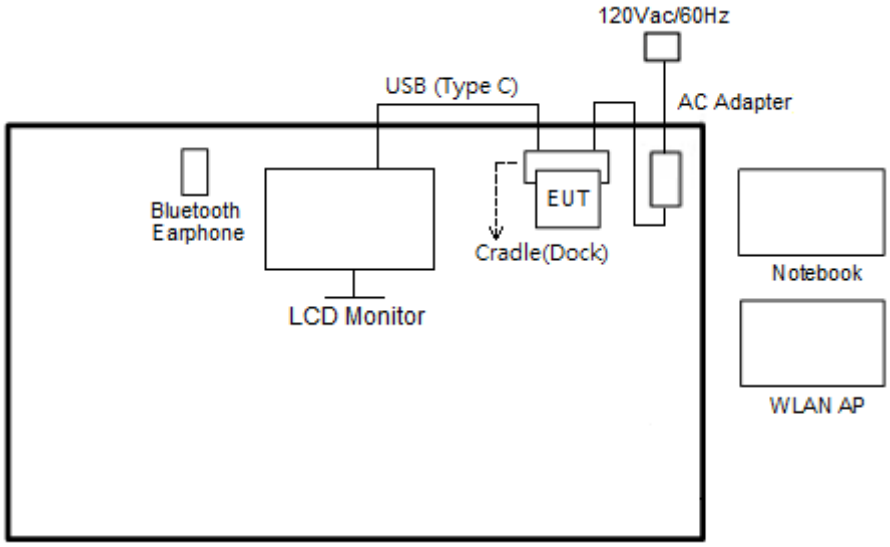
802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	21.17	CH 157	21.21	21.26	21.26	21.26	21.26	21.26	21.21	21.21
CH 157	5785	**21.31**									
CH 165	5825	21.12									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**21.46**	CH 151	21.41	21.41	21.41	21.41	21.41	21.36	21.36	21.36	21.31
CH 159	5795	21.41										

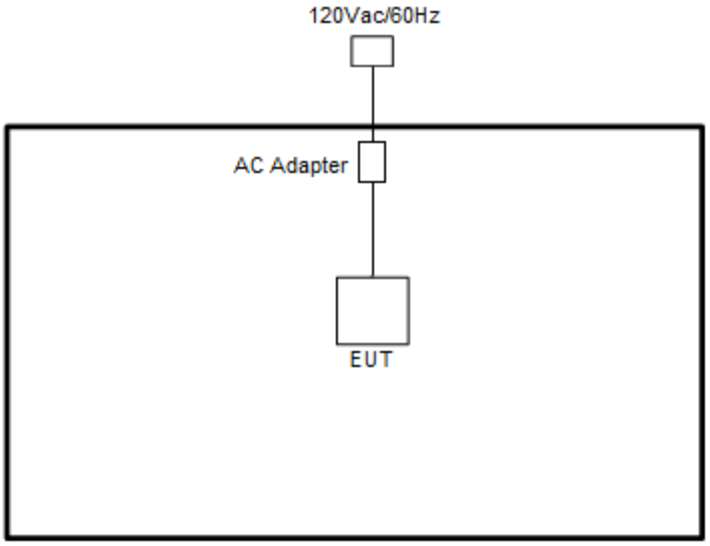
802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	**21.41**	CH155	21.36	21.31	21.36	21.36	21.36	21.41	21.36	21.36	21.36

2.3 Connection Diagram of Test System

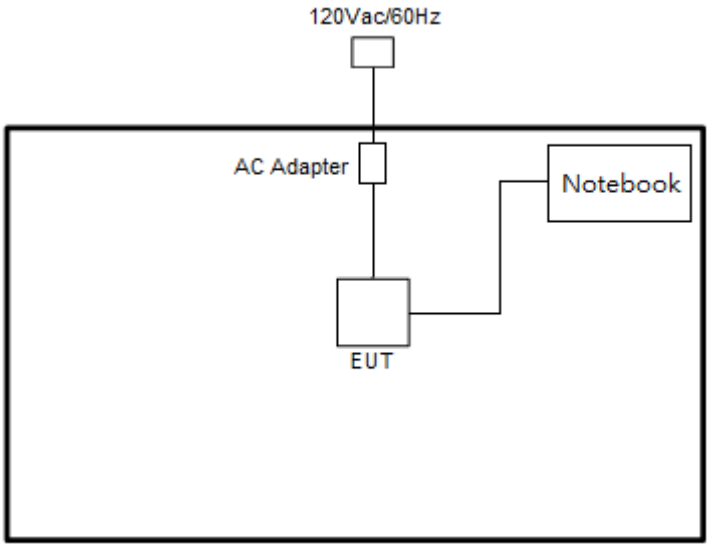
<AC Conducted Emission Mode>



<WLAN CDD Mode>



<WLAN TXBF Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	LCD Monitor	DELL	P2715Qt	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT_qud.win.1.1_installer_10044.7” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “adb” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

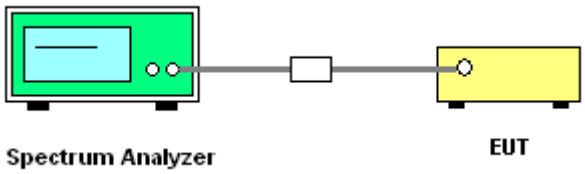
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



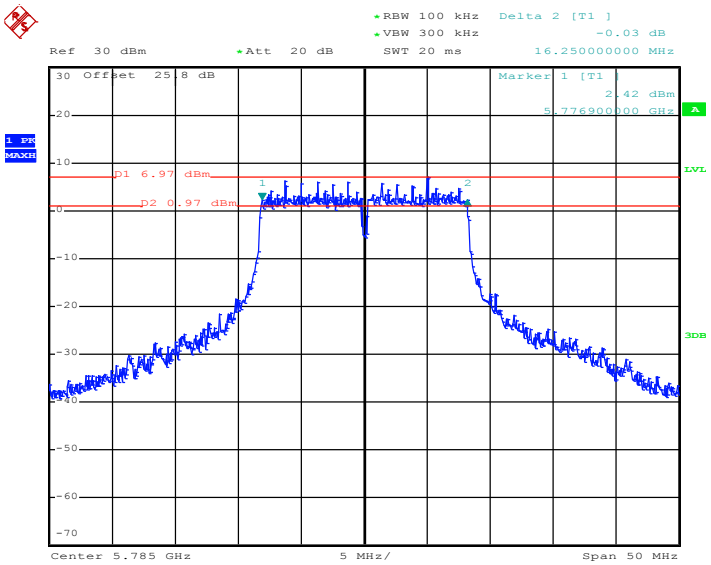
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<CDD Mode>

Test Engineer :	Creed Wu and Shiming Liu	Temperature :	21~25℃
		Relative Humidity :	51~54%

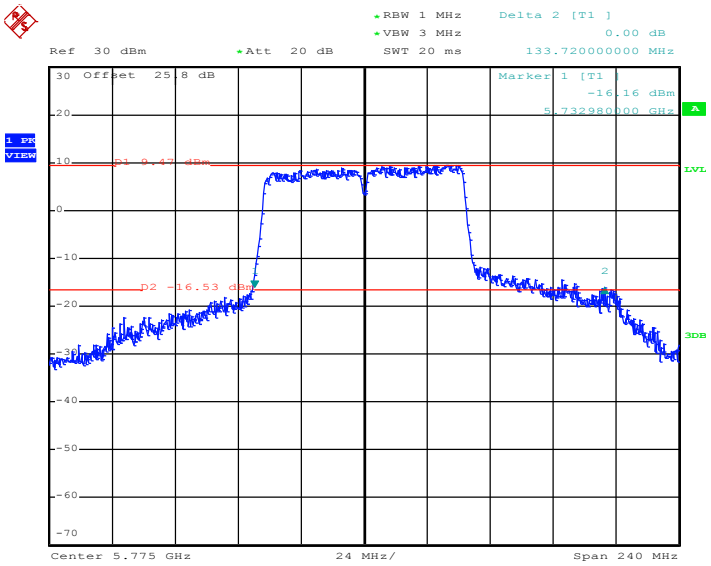
Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	17.05	16.85	35.45	28.35	16.30	16.30	0.5	Pass
11a	6Mbps	1	157	5785	17.00	16.95	33.85	26.65	16.40	16.40	0.5	Pass
11a	6Mbps	1	165	5825	17.10	16.85	34.50	26.25	16.30	16.30	0.5	Pass
VHT20	MCS0	1	149	5745	18.20	18.05	35.90	25.90	17.60	17.60	0.5	Pass
VHT20	MCS0	1	157	5785	18.10	18.05	32.70	28.80	17.50	17.55	0.5	Pass
VHT20	MCS0	1	165	5825	18.25	18.05	39.15	28.65	17.65	17.65	0.5	Pass
VHT40	MCS0	1	151	5755	37.10	37.00	70.84	44.37	36.38	36.28	0.5	Pass
VHT40	MCS0	1	159	5795	37.20	37.00	65.94	53.20	36.27	36.18	0.5	Pass
VHT80	MCS0	1	155	5775	77.40	77.28	**133.72**	97.04	76.04	76.32	0.5	Pass
11a	6Mbps	2	149	5745	17.05	16.75	34.90	25.25	16.30	16.30	0.5	Pass
11a	6Mbps	2	157	5785	17.05	16.75	34.10	28.25	16.30	**16.25**	0.5	Pass
11a	6Mbps	2	165	5825	17.15	16.70	38.80	26.15	16.30	16.30	0.5	Pass
VHT20	MCS0	2	149	5745	18.10	18.00	38.70	29.30	17.50	17.60	0.5	Pass
VHT20	MCS0	2	157	5785	18.20	18.05	39.10	29.30	17.45	17.45	0.5	Pass
VHT20	MCS0	2	165	5825	18.35	17.95	39.40	29.70	17.55	17.50	0.5	Pass
VHT40	MCS0	2	151	5755	37.20	37.10	75.13	52.68	36.28	35.92	0.5	Pass
VHT40	MCS0	2	159	5795	37.40	37.10	69.93	48.99	36.24	36.23	0.5	Pass
VHT80	MCS0	2	155	5775	**77.52**	77.16	133.39	93.76	75.80	76.26	0.5	Pass

Minimum 6dB Bandwidth



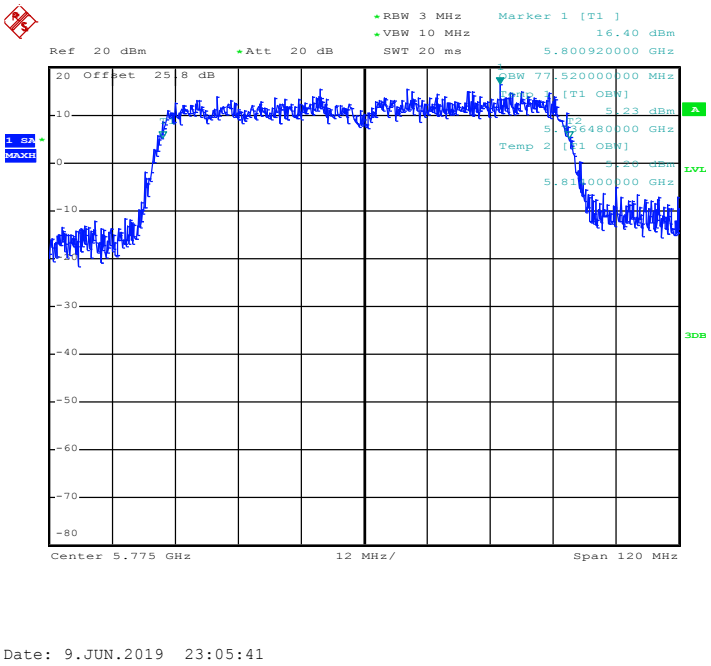
Date: 9.JUN.2019 20:20:36

Maximum 26dB Bandwidth



Date: 9.JUN.2019 22:52:15

Maximum 99% Occupied Bandwidth



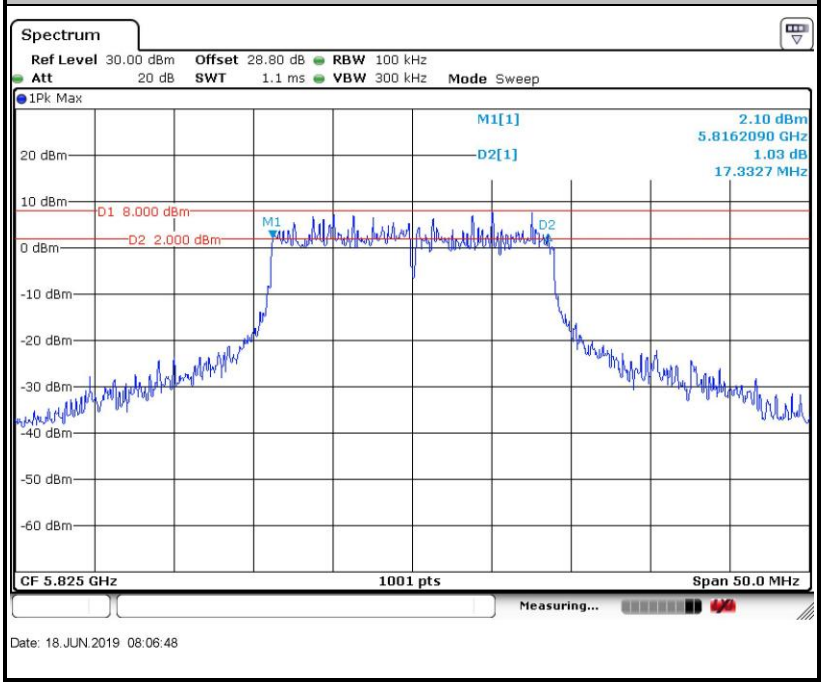
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

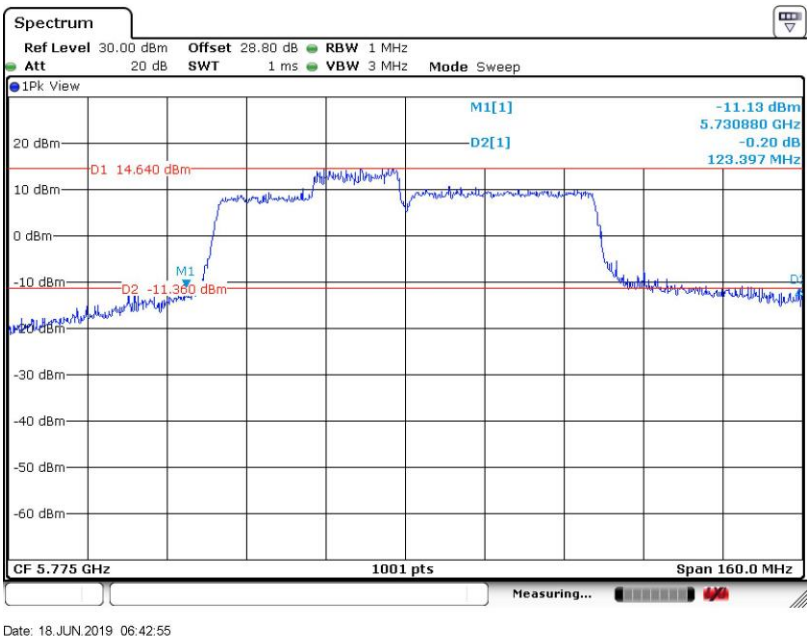
Test Engineer :	Kai Liao	Temperature :	21~25℃
		Relative Humidity :	51~54%

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
VHT20	MCS0	2	149	5745	18.58	18.23	39.21	39.01	17.73	17.68	0.5	Pass
VHT20	MCS0	2	157	5785	18.68	18.38	44.56	40.61	17.73	17.68	0.5	Pass
VHT20	MCS0	2	165	5825	19.13	17.93	45.10	35.46	17.73	**17.33**	0.5	Pass
VHT40	MCS0	2	151	5755	43.46	39.56	80.83	83.35	36.41	36.95	0.5	Pass
VHT40	MCS0	2	159	5795	44.16	39.36	87.66	78.13	36.41	36.86	0.5	Pass
VHT80	MCS0	2	155	5775	**78.52**	78.04	**123.40**	115.41	72.57	75.13	0.5	Pass

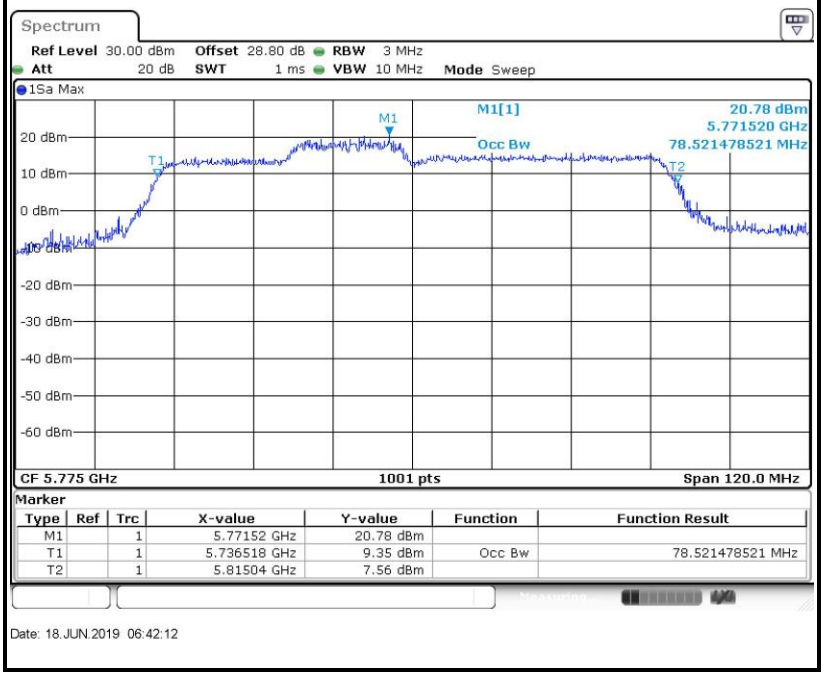
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<CDD Modes>

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.

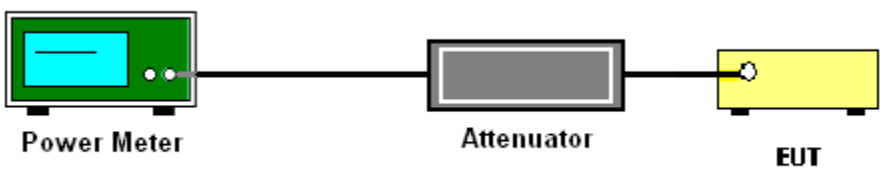
<TXBF Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

<CDD Mode>

Test Engineer :	Creed Wu and Shiming Liu	Temperature :	21~25℃
		Relative Humidity :	51~54%

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	18.20	18.40		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	1	157	5785	18.30	18.40		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	1	165	5825	18.10	18.20		30.00	30.00	3.99	2.75	Pass
HT20	MCS0	1	149	5745	18.30	18.10		30.00	30.00	3.99	2.75	Pass
HT20	MCS0	1	157	5785	18.10	18.40		30.00	30.00	3.99	2.75	Pass
HT20	MCS0	1	165	5825	18.20	18.30		30.00	30.00	3.99	2.75	Pass
HT40	MCS0	1	151	5755	18.10	18.20		30.00	30.00	3.99	2.75	Pass
HT40	MCS0	1	159	5795	18.40	18.30		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	149	5745	18.40	18.20		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	157	5785	18.20	18.50		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	165	5825	18.30	18.40		30.00	30.00	3.99	2.75	Pass
VHT40	MCS0	1	151	5755	18.20	18.30		30.00	30.00	3.99	2.75	Pass
VHT40	MCS0	1	159	5795	18.50	18.40		30.00	30.00	3.99	2.75	Pass
VHT80	MCS0	1	155	5775	18.30	18.40		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	2	149	5745	18.50	18.40	21.46	30.00		3.99		Pass
11a	6Mbps	2	157	5785	18.30	18.20	21.26	30.00		3.99		Pass
11a	6Mbps	2	165	5825	18.50	18.40	21.46	30.00		3.99		Pass
HT20	MCS0	2	149	5745	18.30	18.40	21.36	30.00		3.99		Pass
HT20	MCS0	2	157	5785	18.10	18.20	21.16	30.00		3.99		Pass
HT20	MCS0	2	165	5825	18.30	18.30	21.31	30.00		3.99		Pass
HT40	MCS0	2	151	5755	18.40	18.30	21.36	30.00		3.99		Pass
HT40	MCS0	2	159	5795	18.20	18.10	21.16	30.00		3.99		Pass
VHT20	MCS0	2	149	5745	18.40	18.50	21.46	30.00		3.99		Pass
VHT20	MCS0	2	157	5785	18.20	18.30	21.26	30.00		3.99		Pass
VHT20	MCS0	2	165	5825	18.40	18.40	21.41	30.00		3.99		Pass
VHT40	MCS0	2	151	5755	18.50	18.40	21.46	30.00		3.99		Pass
VHT40	MCS0	2	159	5795	18.30	18.20	21.26	30.00		3.99		Pass
VHT80	MCS0	2	155	5775	18.40	18.50	21.46	30.00		3.99		Pass

<TXBF Mode>

Test Engineer :	Kai Liao	Temperature :	21~25℃
		Relative Humidity :	51~54%

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	18.40	17.90	21.17	29.60		6.40		Pass
VHT20	MCS0	2	157	5785	18.50	18.10	21.31	29.60		6.40		Pass
VHT20	MCS0	2	165	5825	18.40	17.80	21.12	29.60		6.40		Pass
VHT40	MCS0	2	151	5755	18.40	18.50	21.46	29.60		6.40		Pass
VHT40	MCS0	2	159	5795	18.40	18.40	21.41	29.60		6.40		Pass
VHT80	MCS0	2	155	5775	18.50	18.30	21.41	29.60		6.40		Pass

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

<CDD Modes>

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(500kHz/RBW) to the test result.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Modes>

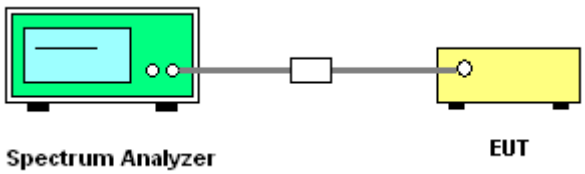
 # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (c): Measure and add 10 log(N_{ANT}) dB.
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than 1/N_{ANT} th of the PSD limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

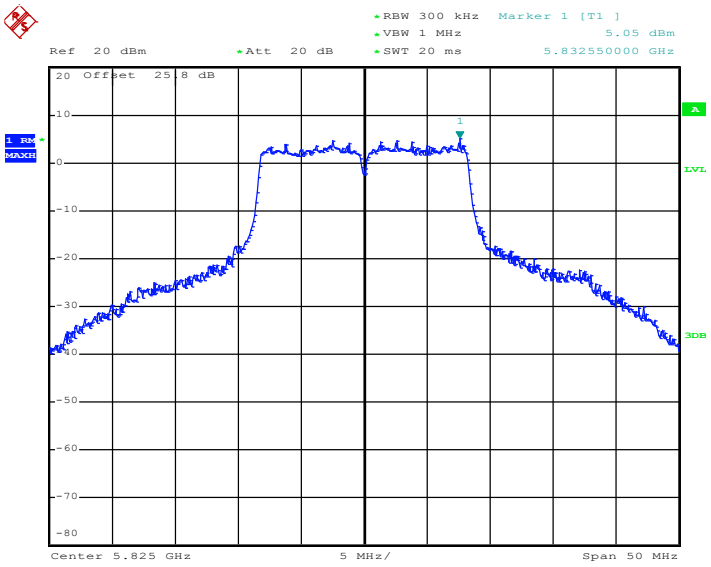
<CDD Mode>

Test Engineer :	Creed Wu and Shiming Liu	Temperature :	21~25℃
		Relative Humidity :	51~54%

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.20	0.19	2.22	2.22	7.09	7.15		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	1	157	5785	0.20	0.19	2.22	2.22	7.19	7.35		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	1	165	5825	0.20	0.19	2.22	2.22	7.36	6.71		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	149	5745	0.21	0.21	2.22	2.22	6.81	6.50		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	157	5785	0.21	0.21	2.22	2.22	6.85	6.57		30.00	30.00	3.99	2.75	Pass
VHT20	MCS0	1	165	5825	0.21	0.21	2.22	2.22	7.17	6.95		30.00	30.00	3.99	2.75	Pass
VHT40	MCS0	1	151	5755	0.22	0.23	2.22	2.22	4.19	3.91		30.00	30.00	3.99	2.75	Pass
VHT40	MCS0	1	159	5795	0.22	0.23	2.22	2.22	4.10	3.96		30.00	30.00	3.99	2.75	Pass
VHT80	MCS0	1	155	5775	0.46	0.50	2.22	2.22	1.60	1.23		30.00	30.00	3.99	2.75	Pass
11a	6Mbps	2	149	5745	0.19	0.19	2.22		6.77	7.00	10.01	29.60		6.40		Pass
11a	6Mbps	2	157	5785	0.19	0.19	2.22		6.93	6.71	9.94	29.60		6.40		Pass
11a	6Mbps	2	165	5825	0.19	0.19	2.22		7.27	6.89	**10.28**	29.60		6.40		Pass
VHT20	MCS0	2	149	5745	0.21	0.20	2.22		6.89	6.68	9.90	29.60		6.40		Pass
VHT20	MCS0	2	157	5785	0.21	0.20	2.22		6.60	7.00	10.01	29.60		6.40		Pass
VHT20	MCS0	2	165	5825	0.21	0.20	2.22		7.16	7.07	10.17	29.60		6.40		Pass
VHT40	MCS0	2	151	5755	0.23	0.25	2.22		4.28	4.44	7.45	29.60		6.40		Pass
VHT40	MCS0	2	159	5795	0.23	0.25	2.22		3.80	4.06	7.07	29.60		6.40		Pass
VHT80	MCS0	2	155	5775	0.43	0.46	2.22		1.49	1.52	4.53	29.60		6.40		Pass

Note: PSD Sum = Max PSD (Ant. 1, Ant. 2) + 10 log (n)

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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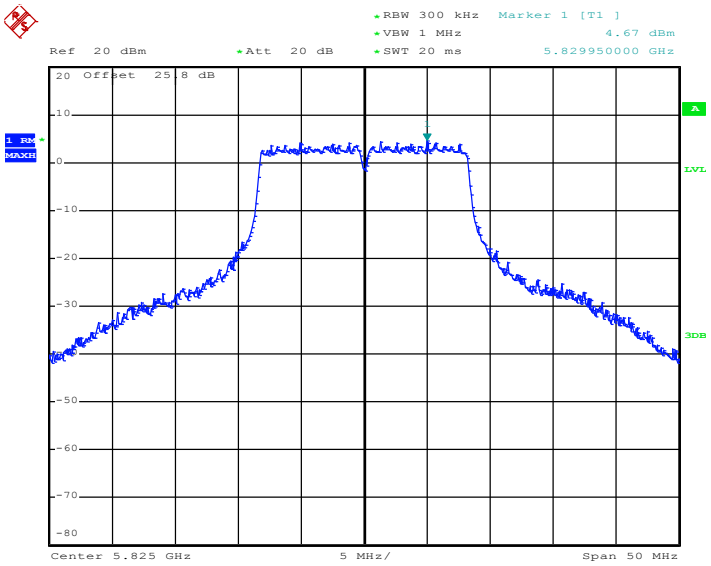
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



Date: 5.JUN.2019 01:09:28

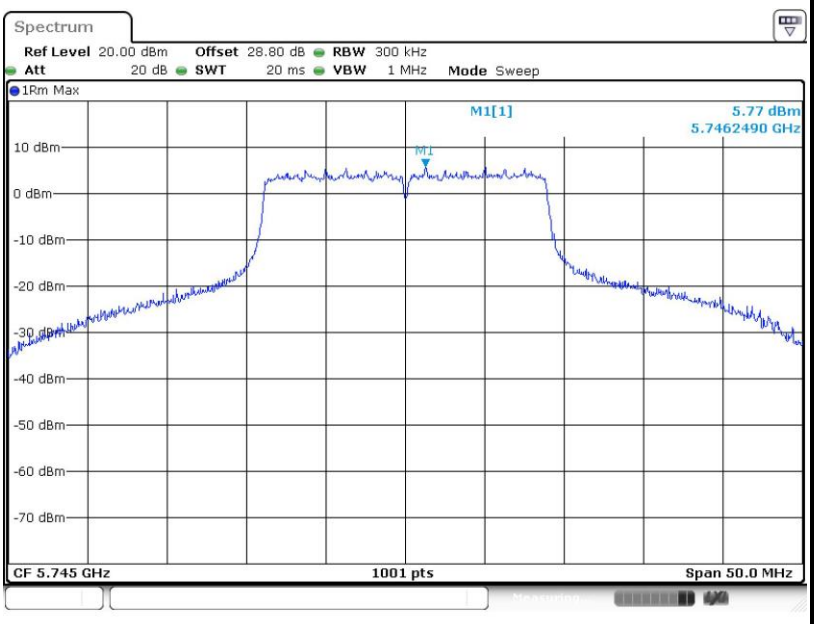
<TXBF Modes>

Test Engineer :	Kai Liao	Temperature :	21~25℃
		Relative Humidity :	51~54%

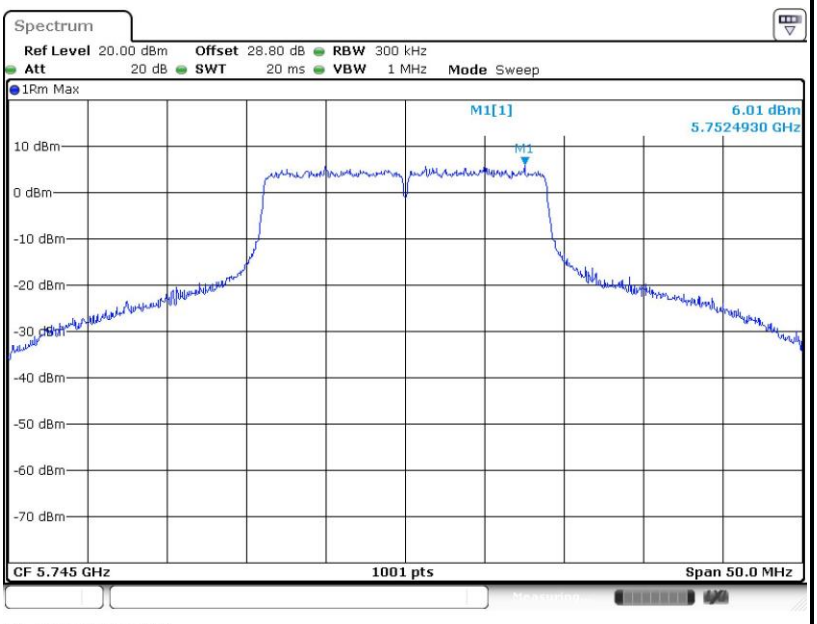
Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	2.22		7.99	8.23	**11.24**	29.60		6.40		Pass
VHT20	MCS0	2	157	5785	2.22		7.70	8.22	11.23	29.60		6.40		Pass
VHT20	MCS0	2	165	5825	2.22		7.59	7.91	10.92	29.60		6.40		Pass
VHT40	MCS0	2	151	5755	2.22		5.82	5.98	8.99	29.60		6.40		Pass
VHT40	MCS0	2	159	5795	2.22		4.79	5.65	8.66	29.60		6.40		Pass
VHT80	MCS0	2	155	5775	2.22		6.36	7.27	10.28	29.60		6.40		Pass

Note: PSD Sum = Max PSD (Ant. 1, Ant. 2) + 10 log (n)

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (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: The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.3

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

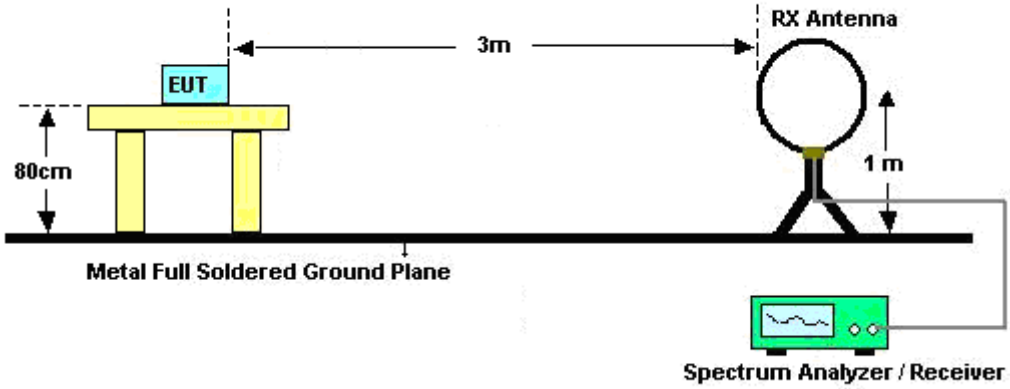
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

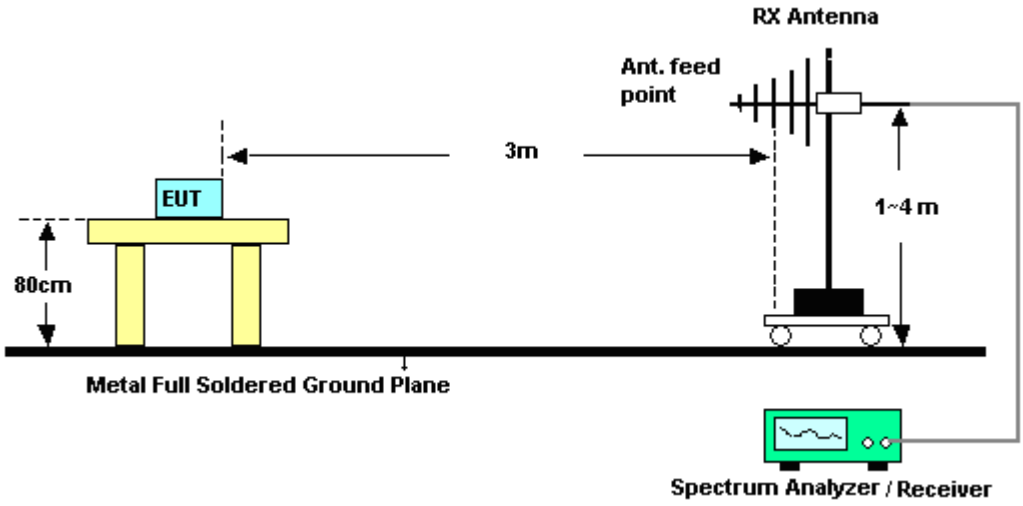
3.4.4 Test Setup

For radiated emissions below 30MHz

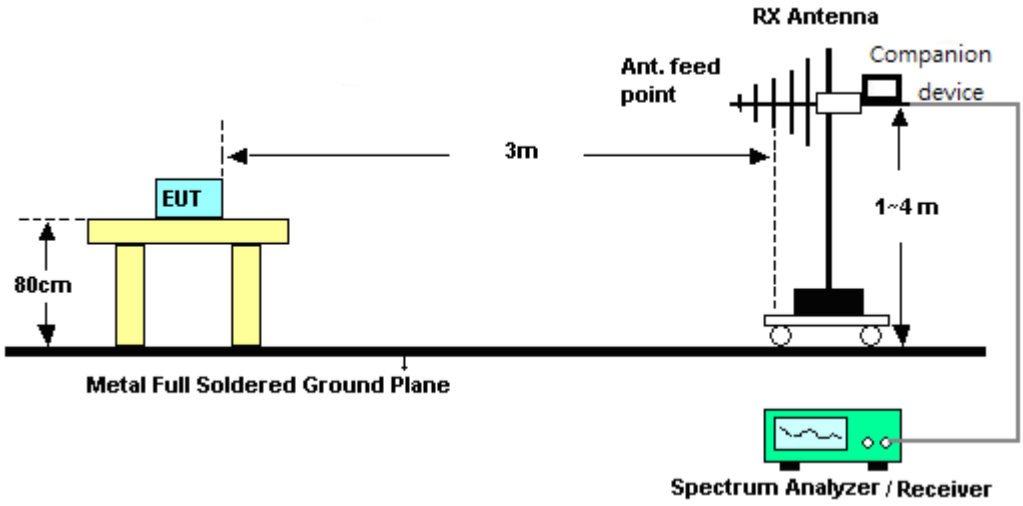


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

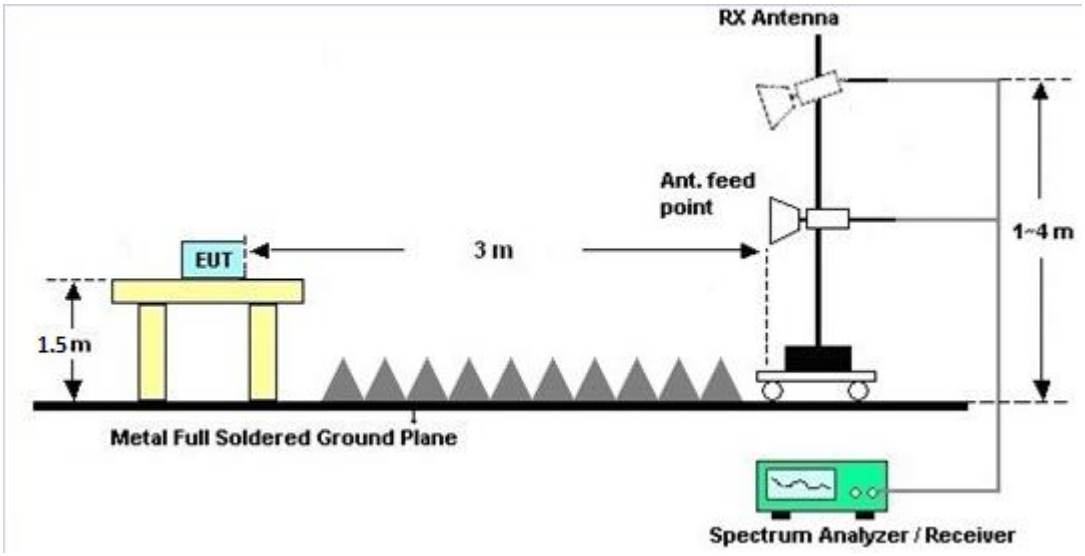


<TXBF Modes>

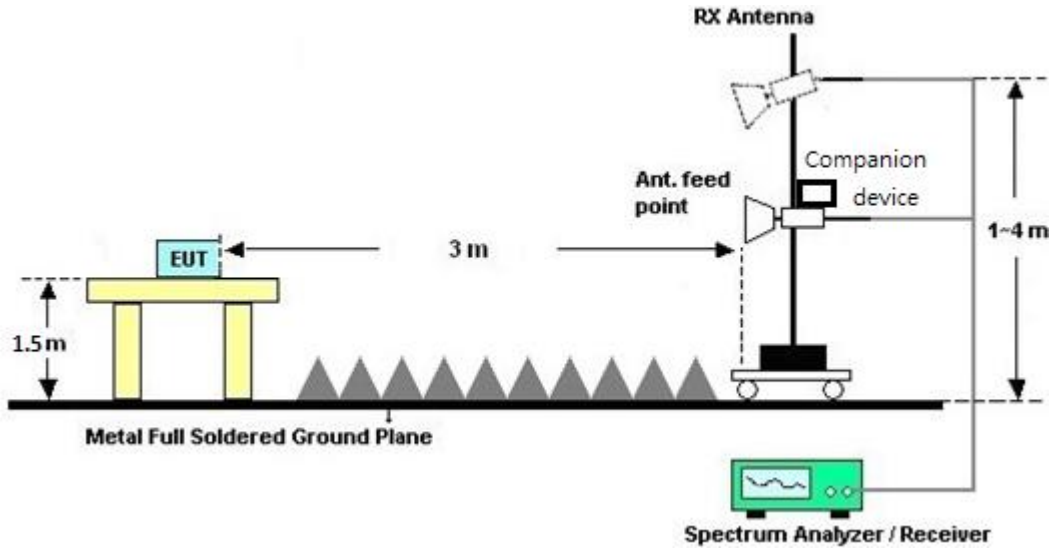


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>



3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

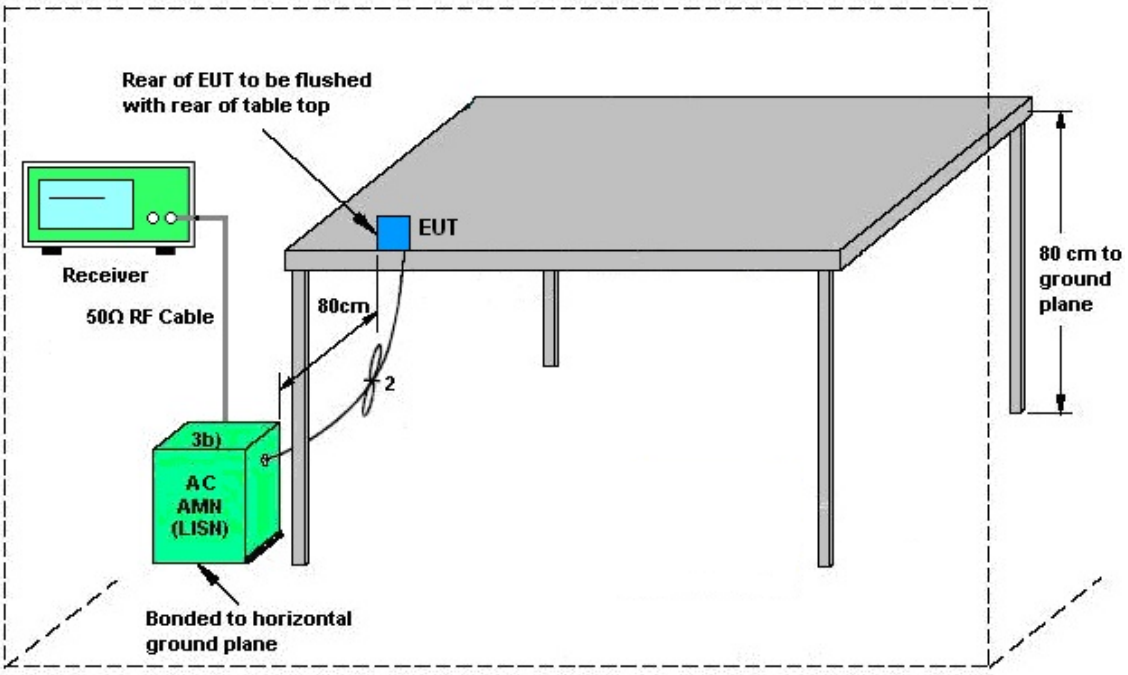
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

<CDD Modes>

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	3.99	2.75	3.99	6.40	0.00	0.40

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	3.99	2.75	6.40	6.40	0.40	0.40

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 21, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	May 21, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	May 21, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	May 21, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 21, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	May 21, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	May 21, 2019	Dec. 30, 2019	Conduction (CO05-HY)
<CDD Mode>								
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 19, 2018	May 31, 2019~ Jun. 20, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	May 31, 2019~ Jun. 20, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW1070903	N/A	Dec 19,2018	May 31, 2019~ Jun. 20, 2019	Dec 18 2019	Conducted (TH05-HY)
<TXBF Mode>								
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	May 15, 2019~ Jun. 20, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	May 15, 2019~ Jun. 20, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	May 15, 2019~ Jun. 20, 2019	Mar. 26, 2020	Conducted (TH05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Jun. 01, 2019~ Jun. 18, 2019	Jan. 06, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jun. 29, 2018	Jun. 01, 2019~ Jun. 18, 2019	Jun. 28, 2019	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Jun. 01, 2019~ Jun. 18, 2019	Oct. 12, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jun. 01, 2019~ Jun. 18, 2019	Dec. 04, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Jun. 01, 2019~ Jun. 18, 2019	Nov. 13, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 20, 2019	Jun. 01, 2019~ Jun. 18, 2019	May 19, 2020	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 18, 2018	Jun. 01, 2019~ Jun. 18, 2019	Dec. 17, 2019	Radiation (03CH13-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jun. 01, 2019~ Jun. 18, 2019	Jul. 15, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Mar. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Mar. 12, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 19, 2019	Jun. 01, 2019~ Jun. 18, 2019	Mar. 18, 2020	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 01, 2019~ Jun. 18, 2019	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 01, 2019~ Jun. 18, 2019	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Jun. 01, 2019~ Jun. 18, 2019	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Jun. 01, 2019~ Jun. 18, 2019	Oct. 31, 2019	Radiation (03CH13-HY)
Filter	Woken	WHKX8-5272.5-6750-18000-40ST	SN5	6.75G Highpass	Mar.13, 2019	Jun. 01, 2019~ Jun. 18, 2019	Mar. 12, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60ST	SN3	1.2G Low Pass	Jul. 05, 2018	Jun. 01, 2019~ Jun. 18, 2019	Jul. 04, 2019	Radiation (03CH13-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.2**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.9**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

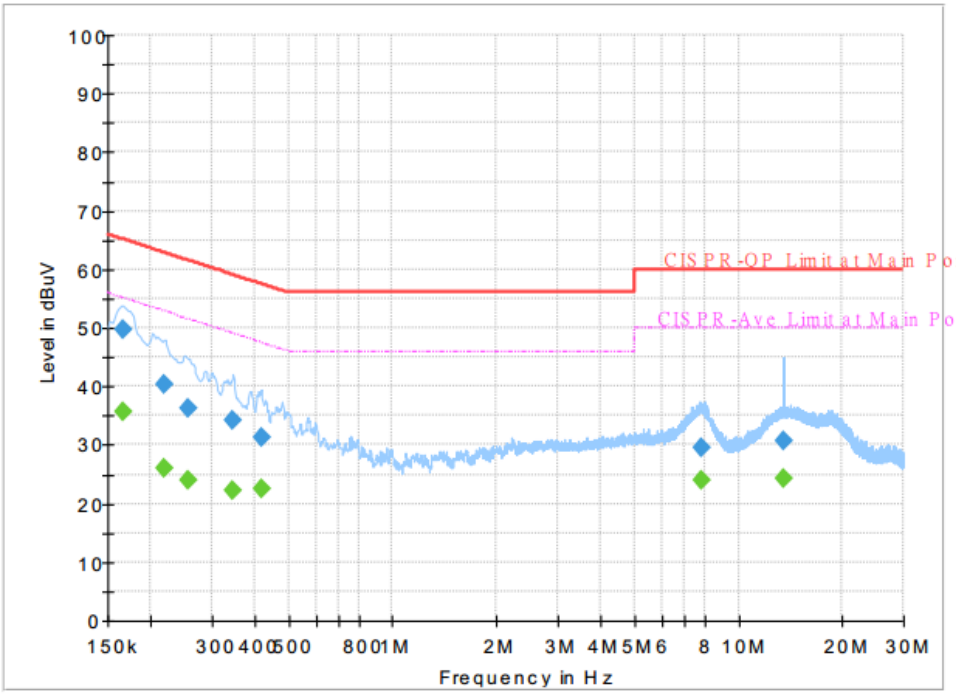
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**

Appendix A. AC Conducted Emission Test Results

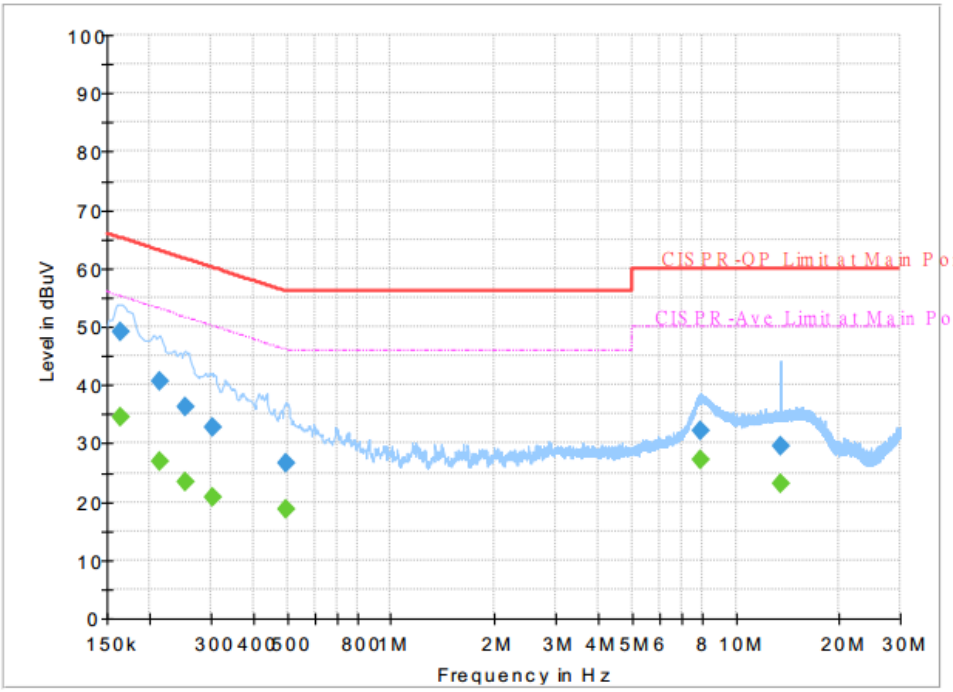
Test Engineer :	Eric Jeng	Temperature :	22~25℃
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	35.61	55.17	19.56	L1	OFF	19.5
0.165750	49.60	---	65.17	15.57	L1	OFF	19.5
0.217500	---	25.88	52.91	27.03	L1	OFF	19.5
0.217500	40.30	---	62.91	22.61	L1	OFF	19.5
0.255750	---	23.96	51.57	27.61	L1	OFF	19.5
0.255750	36.24	---	61.57	25.33	L1	OFF	19.5
0.343500	---	22.26	49.12	26.86	L1	OFF	19.5
0.343500	34.19	---	59.12	24.93	L1	OFF	19.5
0.417750	---	22.46	47.49	25.03	L1	OFF	19.5
0.417750	31.41	---	57.49	26.08	L1	OFF	19.5
7.838250	---	23.90	50.00	26.10	L1	OFF	19.7
7.838250	29.46	---	60.00	30.54	L1	OFF	19.7
13.560000	---	24.39	50.00	25.61	L1	OFF	19.7
13.560000	30.58	---	60.00	29.42	L1	OFF	19.7

Test Engineer :	Eric Jeng	Temperature :	22~25℃
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	34.64	55.28	20.64	N	OFF	19.5
0.163500	49.22	---	65.28	16.06	N	OFF	19.5
0.213000	---	26.81	53.09	26.28	N	OFF	19.5
0.213000	40.69	---	63.09	22.40	N	OFF	19.5
0.253500	---	23.29	51.64	28.35	N	OFF	19.5
0.253500	36.39	---	61.64	25.25	N	OFF	19.5
0.303000	---	20.83	50.16	29.33	N	OFF	19.5
0.303000	32.61	---	60.16	27.55	N	OFF	19.5
0.494250	---	18.85	46.10	27.25	N	OFF	19.5
0.494250	26.47	---	56.10	29.63	N	OFF	19.5
7.953000	---	27.22	50.00	22.78	N	OFF	19.7
7.953000	32.05	---	60.00	27.95	N	OFF	19.7
13.560000	---	23.18	50.00	26.82	N	OFF	19.8
13.560000	29.51	---	60.00	30.49	N	OFF	19.8

Appendix B. Radiated Spurious Emission

Test Engineer :	Andy Yang, JC Liang and Wilson Wu	Temperature :	24.5~24.6°C
		Relative Humidity :	50%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5645	50.42	-17.78	68.2	41.54	32.09	6.34	29.55	100	233	P	H
		5699	58.88	-45.58	104.46	49.9	32.17	6.36	29.55	100	233	P	H
		5719	69.91	-40.61	110.52	60.88	32.21	6.37	29.55	100	233	P	H
		5724.4	84.13	-36.7	120.83	75.1	32.21	6.37	29.55	100	233	P	H
	*	5745	115.51	-	-	106.44	32.24	6.38	29.55	100	233	P	H
	*	5745	107.42	-	-	98.35	32.24	6.38	29.55	100	233	A	H
													H
													H
		5615.4	48.19	-20.01	68.2	39.37	32.04	6.33	29.55	331	352	P	V
		5697.8	51.08	-52.5	103.58	42.1	32.17	6.36	29.55	331	352	P	V
		5719.4	67.83	-42.8	110.63	58.8	32.21	6.37	29.55	331	352	P	V
		5725	78.39	-43.81	122.2	69.36	32.21	6.37	29.55	331	352	P	V
	*	5745	109.47	-	-	100.4	32.24	6.38	29.55	331	352	P	V
	*	5745	102.05	-	-	92.98	32.24	6.38	29.55	331	352	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5630.2	49.27	-18.93	68.2	40.42	32.07	6.33	29.55	100	233	P	H
		5687	49.72	-45.89	95.61	40.75	32.17	6.35	29.55	100	233	P	H
		5705	51.11	-55.49	106.6	42.11	32.19	6.36	29.55	100	233	P	H
		5723.2	52.07	-66.03	118.1	43.04	32.21	6.37	29.55	100	233	P	H
	*	5785	114.34	-	-	105.22	32.29	6.39	29.56	100	233	P	H
	*	5785	106.96	-	-	97.84	32.29	6.39	29.56	100	233	A	H
		5851.6	52.91	-65.64	118.55	43.65	32.38	6.44	29.56	100	233	P	H
		5862.4	51.34	-57.39	108.73	42.04	32.41	6.45	29.56	100	233	P	H
		5898.6	51.59	-36.11	87.7	42.21	32.46	6.48	29.56	100	233	P	H
		5934.6	51	-17.2	68.2	41.55	32.5	6.51	29.56	100	233	P	H
													H
802.11a CH 157 5785MHz													H
		5646.8	48.66	-19.54	68.2	39.78	32.09	6.34	29.55	347	352	P	V
		5696.2	49.32	-53.08	102.4	40.34	32.17	6.36	29.55	347	352	P	V
		5711.6	48.84	-59.61	108.45	39.84	32.19	6.36	29.55	347	352	P	V
		5722.6	49.63	-67.1	116.73	40.6	32.21	6.37	29.55	347	352	P	V
	*	5785	109.99	-	-	100.87	32.29	6.39	29.56	347	352	P	V
	*	5785	102.34	-	-	93.22	32.29	6.39	29.56	347	352	A	V
		5853.2	49.56	-65.34	114.9	40.3	32.38	6.44	29.56	347	352	P	V
		5862.8	49.51	-59.1	108.61	40.21	32.41	6.45	29.56	347	352	P	V
		5913.6	50.28	-26.33	76.61	40.87	32.48	6.49	29.56	347	352	P	V
		5941.8	50.75	-17.45	68.2	41.27	32.53	6.51	29.56	347	352	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	114.33	-	-	105.11	32.36	6.42	29.56	102	231	P	H
	*	5825	106.78	-	-	97.56	32.36	6.42	29.56	102	231	A	H
		5852.4	74.71	-42.02	116.73	65.45	32.38	6.44	29.56	102	231	P	H
		5855.2	72.13	-38.61	110.74	62.84	32.41	6.44	29.56	102	231	P	H
		5875.4	56.29	-48.61	104.9	46.96	32.43	6.46	29.56	102	231	P	H
		5929	50.64	-17.56	68.2	41.2	32.5	6.5	29.56	102	231	P	H
													H
802.11a													H
CH 165	*	5825	109.69	-	-	100.47	32.36	6.42	29.56	327	351	P	V
5825MHz	*	5825	102.26	-	-	93.04	32.36	6.42	29.56	327	351	A	V
		5851	74.6	-45.32	119.92	65.34	32.38	6.44	29.56	327	351	P	V
		5855	66.92	-43.88	110.8	57.63	32.41	6.44	29.56	327	351	P	V
		5876.2	52.48	-51.83	104.31	43.15	32.43	6.46	29.56	327	351	P	V
		5928.4	48.63	-19.57	68.2	39.19	32.5	6.5	29.56	327	351	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.9	-27.1	74	52.82	39.92	10.46	56.3	100	0	P	H
		17235	48.23	-19.97	68.2	51.01	40.84	12.95	56.57	100	0	P	H
													H
													H
		11490	46.48	-27.52	74	52.4	39.92	10.46	56.3	100	0	P	V
		17235	48.19	-20.01	68.2	50.97	40.84	12.95	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	46.36	-27.64	74	52.4	39.76	10.5	56.3	100	0	P	H
		17355	49.72	-18.48	68.2	52.19	41.26	13.08	56.81	100	0	P	H
													H
													H
		11570	46.52	-27.48	74	52.56	39.76	10.5	56.3	100	0	P	V
		17355	49.53	-18.67	68.2	52	41.26	13.08	56.81	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.34	-27.66	74	52.48	39.62	10.54	56.3	100	0	P	H
		17475	49.45	-18.75	68.2	51.61	41.68	13.21	57.05	100	0	P	H
													H
													H
		11650	48.64	-25.36	74	54.78	39.62	10.54	56.3	100	0	P	V
		17475	50.02	-18.18	68.2	52.18	41.68	13.21	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5615.8	49.36	-18.84	68.2	40.51	32.07	6.33	29.55	100	232	P	H
		5700	58.24	-46.96	105.2	49.26	32.17	6.36	29.55	100	232	P	H
		5719.6	70.21	-40.48	110.69	61.18	32.21	6.37	29.55	100	232	P	H
		5723.8	85.93	-33.53	119.46	76.9	32.21	6.37	29.55	100	232	P	H
	*	5745	114.64	-	-	105.57	32.24	6.38	29.55	100	232	P	H
	*	5745	107.35	-	-	98.28	32.24	6.38	29.55	100	232	A	H
802.11ac													H
VHT20													H
CH 149		5624.6	48.87	-19.33	68.2	40.02	32.07	6.33	29.55	349	347	P	V
5745MHz		5697	51.79	-51.2	102.99	42.81	32.17	6.36	29.55	349	347	P	V
		5720	66.35	-44.45	110.8	57.32	32.21	6.37	29.55	349	347	P	V
		5724.6	81.78	-39.51	121.29	72.75	32.21	6.37	29.55	349	347	P	V
	*	5745	109.55	-	-	100.48	32.24	6.38	29.55	349	347	P	V
	*	5745	102.16	-	-	93.09	32.24	6.38	29.55	349	347	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.4	49.12	-19.08	68.2	40.24	32.09	6.34	29.55	105	233	P	H
		5687.2	50.27	-45.49	95.76	41.3	32.17	6.35	29.55	105	233	P	H
		5713	52.45	-56.39	108.84	43.44	32.19	6.37	29.55	105	233	P	H
		5722.2	52.43	-63.39	115.82	43.4	32.21	6.37	29.55	105	233	P	H
	*	5785	114.13	-	-	105.01	32.29	6.39	29.56	105	233	P	H
	*	5785	106.73	-	-	97.61	32.29	6.39	29.56	105	233	A	H
		5852.2	54.11	-63.07	117.18	44.85	32.38	6.44	29.56	105	233	P	H
		5858.6	53.61	-56.18	109.79	44.31	32.41	6.45	29.56	105	233	P	H
		5903	52.03	-32.41	84.44	42.65	32.46	6.48	29.56	105	233	P	H
		5935.4	50.69	-17.51	68.2	41.24	32.5	6.51	29.56	105	233	P	H
802.11ac													H
VHT20													H
CH 157		5635.8	49.46	-18.74	68.2	40.59	32.09	6.33	29.55	346	353	P	V
5785MHz		5689	49.45	-47.64	97.09	40.47	32.17	6.36	29.55	346	353	P	V
		5714	48.58	-60.54	109.12	39.57	32.19	6.37	29.55	346	353	P	V
		5720.2	48.94	-62.32	111.26	39.91	32.21	6.37	29.55	346	353	P	V
	*	5785	109.21	-	-	100.09	32.29	6.39	29.56	346	353	P	V
	*	5785	102.03	-	-	92.91	32.29	6.39	29.56	346	353	A	V
		5852.4	49.89	-66.84	116.73	40.63	32.38	6.44	29.56	346	353	P	V
		5871.8	51.43	-54.66	106.09	42.1	32.43	6.46	29.56	346	353	P	V
		5879.6	50	-51.78	101.78	40.67	32.43	6.46	29.56	346	353	P	V
		5935.8	49.44	-18.76	68.2	39.99	32.5	6.51	29.56	346	353	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	113.61	-	-	104.39	32.36	6.42	29.56	100	233	P	H
	*	5825	106.45	-	-	97.23	32.36	6.42	29.56	100	233	A	H
		5852.8	78.31	-37.51	115.82	69.05	32.38	6.44	29.56	100	233	P	H
		5861.4	71.79	-37.22	109.01	62.49	32.41	6.45	29.56	100	233	P	H
		5875.8	60.44	-44.17	104.61	51.11	32.43	6.46	29.56	100	233	P	H
		5925.2	50.81	-17.39	68.2	41.37	32.5	6.5	29.56	100	233	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	109.83	-	-	100.61	32.36	6.42	29.56	380	354	P	V
5825MHz	*	5825	102.23	-	-	93.01	32.36	6.42	29.56	380	354	A	V
		5851.6	74.43	-44.12	118.55	65.17	32.38	6.44	29.56	380	354	P	V
		5856.8	68.87	-41.43	110.3	59.57	32.41	6.45	29.56	380	354	P	V
		5882	55.21	-44.79	100	45.87	32.43	6.47	29.56	380	354	P	V
		5943.6	50.2	-18	68.2	40.72	32.53	6.51	29.56	380	354	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	48.53	-25.47	74	54.45	39.92	10.46	56.3	100	0	P	H
		17235	49.15	-19.05	68.2	51.93	40.84	12.95	56.57	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	46.5	-27.5	74	52.42	39.92	10.46	56.3	100	0	P	V
5745MHz		17235	47.86	-20.34	68.2	50.64	40.84	12.95	56.57	100	0	P	V
													V
													V
		11570	46.51	-27.49	74	52.55	39.76	10.5	56.3	100	0	P	H
		17355	49.06	-19.14	68.2	51.53	41.26	13.08	56.81	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	47.23	-26.77	74	53.27	39.76	10.5	56.3	100	0	P	V
5785MHz		17355	49.69	-18.51	68.2	52.16	41.26	13.08	56.81	100	0	P	V
													V
													V
		11650	46.08	-27.92	74	52.22	39.62	10.54	56.3	100	0	P	H
		17475	49.52	-18.68	68.2	51.68	41.68	13.21	57.05	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	46.65	-27.35	74	52.79	39.62	10.54	56.3	100	0	P	V
5825MHz		17475	49.82	-18.38	68.2	51.98	41.68	13.21	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.4	52.88	-15.32	68.2	44	32.09	6.34	29.55	100	232	P	H
		5698.4	67.49	-36.53	104.02	58.51	32.17	6.36	29.55	100	232	P	H
		5718.6	85.36	-25.05	110.41	76.33	32.21	6.37	29.55	100	232	P	H
		5722	88.28	-27.08	115.36	79.25	32.21	6.37	29.55	100	232	P	H
	*	5755	111.8	-	-	102.72	32.26	6.38	29.56	100	232	P	H
	*	5755	104.8	-	-	95.72	32.26	6.38	29.56	100	232	A	H
		5853.2	60.97	-53.93	114.9	51.71	32.38	6.44	29.56	100	232	P	H
		5861.6	57.59	-51.36	108.95	48.29	32.41	6.45	29.56	100	232	P	H
		5879.8	54.61	-47.02	101.63	45.28	32.43	6.46	29.56	100	232	P	H
		5927.8	51.35	-16.85	68.2	41.91	32.5	6.5	29.56	100	232	P	H
802.11ac													H
VHT40													H
CH 151		5610	50.05	-18.15	68.2	41.24	32.04	6.32	29.55	350	349	P	V
5755MHz		5700	61.91	-43.29	105.2	52.93	32.17	6.36	29.55	350	349	P	V
		5715	77.22	-32.18	109.4	68.21	32.19	6.37	29.55	350	349	P	V
		5724.4	80.18	-40.65	120.83	71.15	32.21	6.37	29.55	350	349	P	V
	*	5755	106.65	-	-	97.57	32.26	6.38	29.56	350	349	P	V
	*	5755	99.89	-	-	90.81	32.26	6.38	29.56	350	349	A	V
		5853	54.88	-60.48	115.36	45.62	32.38	6.44	29.56	350	349	P	V
		5866	52.92	-54.8	107.72	43.62	32.41	6.45	29.56	350	349	P	V
		5885.4	50.62	-46.86	97.48	41.28	32.43	6.47	29.56	350	349	P	V
		5941.4	49.72	-18.48	68.2	40.24	32.53	6.51	29.56	350	349	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5612.8	49.21	-18.99	68.2	40.39	32.04	6.33	29.55	100	232	P	H
		5697.6	53.95	-49.48	103.43	44.97	32.17	6.36	29.55	100	232	P	H
		5719.8	58.67	-52.07	110.74	49.64	32.21	6.37	29.55	100	232	P	H
		5724.8	62.7	-59.04	121.74	53.67	32.21	6.37	29.55	100	232	P	H
	*	5795	111	-	-	101.85	32.31	6.4	29.56	100	232	P	H
	*	5795	103.59	-	-	94.44	32.31	6.4	29.56	100	232	A	H
		5850.6	76.45	-44.38	120.83	67.19	32.38	6.44	29.56	100	232	P	H
		5855	72.23	-38.57	110.8	62.94	32.41	6.44	29.56	100	232	P	H
		5878	63.81	-39.16	102.97	54.48	32.43	6.46	29.56	100	232	P	H
		5930	51.5	-16.7	68.2	42.06	32.5	6.5	29.56	100	232	P	H
802.11ac													H
VHT40													H
CH 159		5628.6	48.66	-19.54	68.2	39.81	32.07	6.33	29.55	397	138	P	V
5795MHz		5699.8	49.59	-55.46	105.05	40.61	32.17	6.36	29.55	397	138	P	V
		5717.8	52.64	-57.54	110.18	43.61	32.21	6.37	29.55	397	138	P	V
		5721.4	52.8	-61.19	113.99	43.77	32.21	6.37	29.55	397	138	P	V
	*	5795	105.93	-	-	96.78	32.31	6.4	29.56	397	138	P	V
	*	5795	98.63	-	-	89.48	32.31	6.4	29.56	397	138	A	V
		5850	69.03	-53.17	122.2	59.77	32.38	6.44	29.56	397	138	P	V
		5856.2	65.53	-44.93	110.46	56.24	32.41	6.44	29.56	397	138	P	V
		5876.2	54.24	-50.07	104.31	44.91	32.43	6.46	29.56	397	138	P	V
		5934	50.43	-17.77	68.2	40.98	32.5	6.51	29.56	397	138	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	47.3	-26.7	74	53.23	39.9	10.47	56.3	100	0	P	H
		17265	48.29	-19.91	68.2	50.98	40.96	12.98	56.63	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	46.69	-27.31	74	52.62	39.9	10.47	56.3	100	0	P	V
5755MHz		17265	49.35	-18.85	68.2	52.04	40.96	12.98	56.63	100	0	P	V
													V
													V
		11590	45.7	-28.3	74	51.76	39.73	10.51	56.3	100	0	P	H
		17385	49.45	-18.75	68.2	51.83	41.38	13.11	56.87	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	46.6	-27.4	74	52.66	39.73	10.51	56.3	100	0	P	V
5795MHz		17385	50.36	-17.84	68.2	52.74	41.38	13.11	56.87	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.6	57.18	-11.02	68.2	48.3	32.09	6.34	29.55	100	245	P	H
		5693.4	77.64	-22.69	100.33	68.66	32.17	6.36	29.55	100	245	P	H
		5718.4	81.07	-29.28	110.35	72.04	32.21	6.37	29.55	100	245	P	H
		5724	81.44	-38.48	119.92	72.41	32.21	6.37	29.55	100	245	P	H
	*	5775	106.76	-	-	97.64	32.29	6.39	29.56	100	245	P	H
	*	5775	99.95	-	-	90.83	32.29	6.39	29.56	100	245	A	H
		5853.6	82.05	-31.94	113.99	72.76	32.41	6.44	29.56	100	245	P	H
		5857	82.1	-28.14	110.24	72.8	32.41	6.45	29.56	100	245	P	H
		5876.2	75.99	-28.32	104.31	66.66	32.43	6.46	29.56	100	245	P	H
		5929.6	65.62	-2.58	68.2	56.18	32.5	6.5	29.56	100	245	P	H
802.11ac													H
VHT80													H
CH 155		5649.2	54.02	-14.18	68.2	45.14	32.09	6.34	29.55	399	138	P	V
5775MHz		5681.6	71.32	-20.3	91.62	62.38	32.14	6.35	29.55	399	138	P	V
		5716	73.64	-36.04	109.68	64.63	32.19	6.37	29.55	399	138	P	V
		5724.2	75	-45.38	120.38	65.97	32.21	6.37	29.55	399	138	P	V
	*	5775	103.48	-	-	94.36	32.29	6.39	29.56	399	138	P	V
	*	5775	96.41	-	-	87.29	32.29	6.39	29.56	399	138	A	V
		5851.4	77.73	-41.28	119.01	68.47	32.38	6.44	29.56	399	138	P	V
		5856.6	76.21	-34.14	110.35	66.91	32.41	6.45	29.56	399	138	P	V
		5877	71.13	-32.58	103.71	61.8	32.43	6.46	29.56	399	138	P	V
		5932.8	62.62	-5.58	68.2	53.17	32.5	6.51	29.56	399	138	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	46.16	-27.84	74	52.17	39.8	10.49	56.3	100	0	P	H
		17325	48.75	-19.45	68.2	51.32	41.14	13.04	56.75	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	45.89	-28.11	74	51.9	39.8	10.49	56.3	100	0	P	V
5775MHz		17325	48.99	-19.21	68.2	51.56	41.14	13.04	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		106.63	27.64	-15.86	43.5	42.72	16.26	0.81	32.21	-	-	P	H
		114.39	27.49	-16.01	43.5	41.93	16.84	0.85	32.2	-	-	P	H
		285.11	25.46	-20.54	46	37.59	18.6	1.33	32.15	-	-	P	H
		832.19	31.79	-14.21	46	32.63	28.34	2.4	31.74	-	-	P	H
		896.21	38.45	-7.55	46	38.57	28.7	2.44	31.43	100	0	P	H
		945.68	33.5	-12.5	46	31.62	30.24	2.45	31.02	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		31.94	32.2	-7.8	40	40.39	23.64	0.45	32.29	100	0	P	V
LF		90.14	26.02	-17.48	43.5	43.09	14.4	0.72	32.23	-	-	P	V
		96.93	27.18	-16.32	43.5	43.21	15.38	0.74	32.21	-	-	P	V
		118.27	26.32	-17.18	43.5	40.55	17.03	0.87	32.2	-	-	P	V
		738.1	30.32	-15.68	46	32.39	27.62	2.18	32.01	-	-	P	V
		949.56	34.03	-11.97	46	31.89	30.47	2.45	30.99	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5648.4	49.73	-18.47	68.2	40.85	32.09	6.34	29.55	100	294	P	H
		5686	54.86	-40.01	94.87	45.89	32.17	6.35	29.55	100	294	P	H
		5718.8	62.61	-47.85	110.46	53.58	32.21	6.37	29.55	100	294	P	H
		5724.2	77.28	-43.1	120.38	68.25	32.21	6.37	29.55	100	294	P	H
	*	5745	111.92	-	-	102.85	32.24	6.38	29.55	100	294	P	H
	*	5745	104.43	-	-	95.36	32.24	6.38	29.55	100	294	A	H
													H
802.11a													H
CH 149		5645	49.83	-18.37	68.2	40.95	32.09	6.34	29.55	316	162	P	V
5745MHz		5690.8	52.25	-46.17	98.42	43.27	32.17	6.36	29.55	316	162	P	V
		5717.8	62.33	-47.85	110.18	53.3	32.21	6.37	29.55	316	162	P	V
		5724.8	75.27	-46.47	121.74	66.24	32.21	6.37	29.55	316	162	P	V
	*	5745	110.29	-	-	101.22	32.24	6.38	29.55	316	162	P	V
	*	5745	102.81	-	-	93.74	32.24	6.38	29.55	316	162	A	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5634.4	49.14	-19.06	68.2	40.27	32.09	6.33	29.55	112	290	P	H
		5699.6	49.55	-55.36	104.91	40.57	32.17	6.36	29.55	112	290	P	H
		5716.4	51.45	-58.34	109.79	42.44	32.19	6.37	29.55	112	290	P	H
		5724.2	51.07	-69.31	120.38	42.04	32.21	6.37	29.55	112	290	P	H
	*	5785	111.58	-	-	102.46	32.29	6.39	29.56	112	290	P	H
	*	5785	104.09	-	-	94.97	32.29	6.39	29.56	112	290	A	H
		5855	53.05	-57.75	110.8	43.76	32.41	6.44	29.56	112	290	P	H
		5855	53.05	-57.75	110.8	43.76	32.41	6.44	29.56	112	290	P	H
		5884.6	51.83	-46.24	98.07	42.49	32.43	6.47	29.56	112	290	P	H
		5939.6	49.95	-18.25	68.2	40.47	32.53	6.51	29.56	112	290	P	H
													H
802.11a CH 157 5785MHz													H
		5645.8	48.67	-19.53	68.2	39.79	32.09	6.34	29.55	310	162	P	V
		5659	49.7	-25.18	74.88	40.79	32.12	6.34	29.55	310	162	P	V
		5719.4	50.14	-60.49	110.63	41.11	32.21	6.37	29.55	310	162	P	V
		5723.6	51.28	-67.73	119.01	42.25	32.21	6.37	29.55	310	162	P	V
	*	5785	109.23	-	-	100.11	32.29	6.39	29.56	310	162	P	V
	*	5785	101.9	-	-	92.78	32.29	6.39	29.56	310	162	A	V
		5850.8	50.57	-69.81	120.38	41.31	32.38	6.44	29.56	310	162	P	V
		5868	51.28	-55.88	107.16	41.98	32.41	6.45	29.56	310	162	P	V
		5880.6	50.87	-50.17	101.04	41.54	32.43	6.46	29.56	310	162	P	V
		5935.8	49.62	-18.58	68.2	40.17	32.5	6.51	29.56	310	162	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	111.39	-	-	102.17	32.36	6.42	29.56	100	290	P	H
	*	5825	104.17	-	-	94.95	32.36	6.42	29.56	100	290	A	H
		5850.4	61.45	-59.84	121.29	52.19	32.38	6.44	29.56	100	290	P	H
		5858.2	57.99	-51.91	109.9	48.69	32.41	6.45	29.56	100	290	P	H
		5883.6	54.03	-44.78	98.81	44.69	32.43	6.47	29.56	100	290	P	H
		5940.2	50.75	-17.45	68.2	41.27	32.53	6.51	29.56	100	290	P	H
													H
802.11a													H
CH 165	*	5825	109.37	-	-	100.15	32.36	6.42	29.56	305	162	P	V
5825MHz	*	5825	102.11	-	-	92.89	32.36	6.42	29.56	305	162	A	V
		5850.4	63.97	-57.32	121.29	54.71	32.38	6.44	29.56	305	162	P	V
		5855.8	55.62	-54.96	110.58	46.33	32.41	6.44	29.56	305	162	P	V
		5888.8	52.09	-42.87	94.96	42.72	32.46	6.47	29.56	305	162	P	V
		5930.2	49.78	-18.42	68.2	40.34	32.5	6.5	29.56	305	162	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.53	-27.47	74	52.45	39.92	10.46	56.3	100	0	P	H
		17235	48.93	-19.27	68.2	51.71	40.84	12.95	56.57	100	0	P	H
													H
													H
		11490	46.99	-27.01	74	52.91	39.92	10.46	56.3	100	0	P	V
		17235	48.21	-19.99	68.2	50.99	40.84	12.95	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	45.79	-28.21	74	51.83	39.76	10.5	56.3	100	0	P	H
		17355	48.85	-19.35	68.2	51.32	41.26	13.08	56.81	100	0	P	H
													H
													H
		11570	45.57	-28.43	74	51.61	39.76	10.5	56.3	100	0	P	V
		17355	48.54	-19.66	68.2	51.01	41.26	13.08	56.81	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.74	-27.26	74	52.88	39.62	10.54	56.3	100	0	P	H
		17475	49.65	-18.55	68.2	51.81	41.68	13.21	57.05	100	0	P	H
													H
													H
		11650	46.83	-27.17	74	52.97	39.62	10.54	56.3	100	0	P	V
		17475	49.47	-18.73	68.2	51.63	41.68	13.21	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5616.2	49.54	-18.66	68.2	40.69	32.07	6.33	29.55	108	293	P	H
		5694	54.64	-46.14	100.78	45.66	32.17	6.36	29.55	108	293	P	H
		5720	71.94	-38.86	110.8	62.91	32.21	6.37	29.55	108	293	P	H
		5723.6	82.84	-36.17	119.01	73.81	32.21	6.37	29.55	108	293	P	H
	*	5745	112.13	-	-	103.06	32.24	6.38	29.55	108	293	P	H
	*	5745	104.38	-	-	95.31	32.24	6.38	29.55	108	293	A	H
802.11ac													H
VHT20													H
CH 149		5605.6	49.08	-19.12	68.2	40.27	32.04	6.32	29.55	302	164	P	V
5745MHz		5699.2	52.6	-52.01	104.61	43.62	32.17	6.36	29.55	302	164	P	V
		5719.8	68.95	-41.79	110.74	59.92	32.21	6.37	29.55	302	164	P	V
		5723.4	82.74	-35.81	118.55	73.71	32.21	6.37	29.55	302	164	P	V
	*	5745	109.85	-	-	100.78	32.24	6.38	29.55	302	164	P	V
	*	5745	102.46	-	-	93.39	32.24	6.38	29.55	302	164	A	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5619.8	49.89	-18.31	68.2	41.04	32.07	6.33	29.55	102	291	P	H
		5689.2	50.18	-47.06	97.24	41.2	32.17	6.36	29.55	102	291	P	H
		5709.2	51.34	-56.44	107.78	42.34	32.19	6.36	29.55	102	291	P	H
		5725	51.13	-71.07	122.2	42.1	32.21	6.37	29.55	102	291	P	H
	*	5785	111.48	-	-	102.36	32.29	6.39	29.56	102	291	P	H
	*	5785	104.22	-	-	95.1	32.29	6.39	29.56	102	291	A	H
		5850	52.31	-69.89	122.2	43.05	32.38	6.44	29.56	102	291	P	H
		5856.2	52.92	-57.54	110.46	43.63	32.41	6.44	29.56	102	291	P	H
		5876	50.93	-53.53	104.46	41.6	32.43	6.46	29.56	102	291	P	H
		5949.6	51.31	-16.89	68.2	41.82	32.53	6.52	29.56	102	291	P	H
802.11ac													H
VHT20													H
CH 157		5649.8	49.92	-18.28	68.2	41.01	32.12	6.34	29.55	310	161	P	V
5785MHz		5699.2	49.9	-54.71	104.61	40.92	32.17	6.36	29.55	310	161	P	V
		5709.2	51.03	-56.75	107.78	42.03	32.19	6.36	29.55	310	161	P	V
		5723.2	50.86	-67.24	118.1	41.83	32.21	6.37	29.55	310	161	P	V
	*	5785	109.39	-	-	100.27	32.29	6.39	29.56	310	161	P	V
	*	5785	102.15	-	-	93.03	32.29	6.39	29.56	310	161	A	V
		5850	50.53	-71.67	122.2	41.27	32.38	6.44	29.56	310	161	P	V
		5862.4	50.97	-57.76	108.73	41.67	32.41	6.45	29.56	310	161	P	V
		5888.4	49.89	-45.36	95.25	40.52	32.46	6.47	29.56	310	161	P	V
		5930	50.11	-18.09	68.2	40.67	32.5	6.5	29.56	310	161	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	111.16	-	-	101.94	32.36	6.42	29.56	100	291	P	H
	*	5825	103.77	-	-	94.55	32.36	6.42	29.56	100	291	A	H
		5850	68.29	-53.91	122.2	59.03	32.38	6.44	29.56	100	291	P	H
		5855.2	62.22	-48.52	110.74	52.93	32.41	6.44	29.56	100	291	P	H
		5880.8	55.13	-45.76	100.89	45.8	32.43	6.46	29.56	100	291	P	H
		5926.8	50.1	-18.1	68.2	40.66	32.5	6.5	29.56	100	291	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	108.97	-	-	99.75	32.36	6.42	29.56	305	162	P	V
5825MHz	*	5825	101.73	-	-	92.51	32.36	6.42	29.56	305	162	A	V
		5850	68.5	-53.7	122.2	59.24	32.38	6.44	29.56	305	162	P	V
		5858.4	57.64	-52.21	109.85	48.34	32.41	6.45	29.56	305	162	P	V
		5885.8	53.1	-44.08	97.18	43.76	32.43	6.47	29.56	305	162	P	V
		5926.2	49.59	-18.61	68.2	40.15	32.5	6.5	29.56	305	162	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	46.49	-27.51	74	52.41	39.92	10.46	56.3	100	0	P	H
		17235	48.64	-19.56	68.2	51.42	40.84	12.95	56.57	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	47.42	-26.58	74	53.34	39.92	10.46	56.3	100	0	P	V
5745MHz		17235	49.23	-18.97	68.2	52.01	40.84	12.95	56.57	100	0	P	V
													V
													V
		11570	46.14	-27.86	74	52.18	39.76	10.5	56.3	100	0	P	H
		17355	49.08	-19.12	68.2	51.55	41.26	13.08	56.81	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	46.23	-27.77	74	52.27	39.76	10.5	56.3	100	0	P	V
5785MHz		17355	49.01	-19.19	68.2	51.48	41.26	13.08	56.81	100	0	P	V
													V
													V
		11650	46.97	-27.03	74	53.11	39.62	10.54	56.3	100	0	P	H
		17475	49.6	-18.6	68.2	51.76	41.68	13.21	57.05	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	46.06	-27.94	74	52.2	39.62	10.54	56.3	100	0	P	V
5825MHz		17475	48.95	-19.25	68.2	51.11	41.68	13.21	57.05	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5632.8	50.84	-17.36	68.2	41.97	32.09	6.33	29.55	104	291	P	H
		5697.2	65.77	-37.37	103.14	56.79	32.17	6.36	29.55	104	291	P	H
		5718.4	80.25	-30.1	110.35	71.22	32.21	6.37	29.55	104	291	P	H
		5721.8	83.43	-31.47	114.9	74.4	32.21	6.37	29.55	104	291	P	H
	*	5755	108.95	-	-	99.87	32.26	6.38	29.56	104	291	P	H
	*	5755	101.46	-	-	92.38	32.26	6.38	29.56	104	291	A	H
		5855	52.8	-58	110.8	43.51	32.41	6.44	29.56	104	291	P	H
		5855.2	52.89	-57.85	110.74	43.6	32.41	6.44	29.56	104	291	P	H
		5902.6	50.89	-33.85	84.74	41.51	32.46	6.48	29.56	104	291	P	H
		5935.4	50.22	-17.98	68.2	40.77	32.5	6.51	29.56	104	291	P	H
802.11ac													H
VHT40													H
CH 151		5642	50.33	-17.87	68.2	41.45	32.09	6.34	29.55	328	162	P	V
5755MHz		5695.6	60.35	-41.61	101.96	51.37	32.17	6.36	29.55	328	162	P	V
		5719.2	77.77	-32.81	110.58	68.74	32.21	6.37	29.55	328	162	P	V
		5724	80.08	-39.84	119.92	71.05	32.21	6.37	29.55	328	162	P	V
	*	5755	106.68	-	-	97.6	32.26	6.38	29.56	328	162	P	V
	*	5755	99.45	-	-	90.37	32.26	6.38	29.56	328	162	A	V
		5850.2	51.43	-70.31	121.74	42.17	32.38	6.44	29.56	328	162	P	V
		5858.6	51.3	-58.49	109.79	42	32.41	6.45	29.56	328	162	P	V
		5897.2	50.64	-38.09	88.73	41.26	32.46	6.48	29.56	328	162	P	V
		5931.8	49.17	-19.03	68.2	39.72	32.5	6.51	29.56	328	162	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5638.2	49.03	-19.17	68.2	40.15	32.09	6.34	29.55	100	292	P	H
		5690.8	51.18	-47.24	98.42	42.2	32.17	6.36	29.55	100	292	P	H
		5708.4	53.09	-54.46	107.55	44.09	32.19	6.36	29.55	100	292	P	H
		5720.8	56.54	-56.08	112.62	47.51	32.21	6.37	29.55	100	292	P	H
	*	5795	107.89	-	-	98.74	32.31	6.4	29.56	100	292	P	H
	*	5795	100.93	-	-	91.78	32.31	6.4	29.56	100	292	A	H
		5850	60.45	-61.75	122.2	51.19	32.38	6.44	29.56	100	292	P	H
		5855.2	60.25	-50.49	110.74	50.96	32.41	6.44	29.56	100	292	P	H
		5875	54.23	-50.97	105.2	44.9	32.43	6.46	29.56	100	292	P	H
		5947.8	50.92	-17.28	68.2	41.43	32.53	6.52	29.56	100	292	P	H
802.11ac													H
VHT40													H
CH 159		5628.6	49	-19.2	68.2	40.15	32.07	6.33	29.55	309	164	P	V
5795MHz		5677	50.08	-38.14	88.22	41.14	32.14	6.35	29.55	309	164	P	V
		5720	52.44	-58.36	110.8	43.41	32.21	6.37	29.55	309	164	P	V
		5723.8	52.86	-66.6	119.46	43.83	32.21	6.37	29.55	309	164	P	V
	*	5795	106.02	-	-	96.87	32.31	6.4	29.56	309	164	P	V
	*	5795	98.91	-	-	89.76	32.31	6.4	29.56	309	164	A	V
		5851.6	57.43	-61.12	118.55	48.17	32.38	6.44	29.56	309	164	P	V
		5858.6	56.08	-53.71	109.79	46.78	32.41	6.45	29.56	309	164	P	V
		5875.8	52.8	-51.81	104.61	43.47	32.43	6.46	29.56	309	164	P	V
		5941	50.09	-18.11	68.2	40.61	32.53	6.51	29.56	309	164	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	46.93	-27.07	74	52.86	39.9	10.47	56.3	100	0	P	H
		17265	48.25	-19.95	68.2	50.94	40.96	12.98	56.63	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	46.92	-27.08	74	52.85	39.9	10.47	56.3	100	0	P	V
5755MHz		17265	49.32	-18.88	68.2	52.01	40.96	12.98	56.63	100	0	P	V
													V
													V
		11590	46.46	-27.54	74	52.52	39.73	10.51	56.3	100	0	P	H
		17385	50.42	-17.78	68.2	52.8	41.38	13.11	56.87	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	45.87	-28.13	74	51.93	39.73	10.51	56.3	100	0	P	V
5795MHz		17385	49.03	-19.17	68.2	51.41	41.38	13.11	56.87	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5646.2	55.6	-12.6	68.2	46.72	32.09	6.34	29.55	100	290	P	H
		5697.2	75.25	-27.89	103.14	66.27	32.17	6.36	29.55	100	290	P	H
		5718	77.16	-33.08	110.24	68.13	32.21	6.37	29.55	100	290	P	H
		5724.2	80.91	-39.47	120.38	71.88	32.21	6.37	29.55	100	290	P	H
	*	5775	105.52	-	-	96.4	32.29	6.39	29.56	100	290	P	H
	*	5775	98.53	-	-	89.41	32.29	6.39	29.56	100	290	A	H
		5853.8	78	-35.54	113.54	68.71	32.41	6.44	29.56	100	290	P	H
		5855	75.44	-35.36	110.8	66.15	32.41	6.44	29.56	100	290	P	H
		5877.6	70.75	-32.52	103.27	61.42	32.43	6.46	29.56	100	290	P	H
		5925	57.43	-10.77	68.2	47.99	32.5	6.5	29.56	100	290	P	H
802.11ac													H
VHT80													H
CH 155		5647.6	53.58	-14.62	68.2	44.7	32.09	6.34	29.55	323	163	P	V
5775MHz		5695.4	73.04	-28.77	101.81	64.06	32.17	6.36	29.55	323	163	P	V
		5718.2	75.55	-34.75	110.3	66.52	32.21	6.37	29.55	323	163	P	V
		5724.2	76.81	-43.57	120.38	67.78	32.21	6.37	29.55	323	163	P	V
	*	5775	102.96	-	-	93.84	32.29	6.39	29.56	323	163	P	V
	*	5775	96.38	-	-	87.26	32.29	6.39	29.56	323	163	A	V
		5853.8	76.07	-37.47	113.54	66.78	32.41	6.44	29.56	323	163	P	V
		5867.8	72.89	-34.32	107.21	63.59	32.41	6.45	29.56	323	163	P	V
		5875.8	65.22	-39.39	104.61	55.89	32.43	6.46	29.56	323	163	P	V
		5935.6	53.44	-14.76	68.2	43.99	32.5	6.51	29.56	323	163	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	45.84	-28.16	74	51.85	39.8	10.49	56.3	100	0	P	H
		17325	48.95	-19.25	68.2	51.52	41.14	13.04	56.75	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	45.61	-28.39	74	51.62	39.8	10.49	56.3	100	0	P	V
5775MHz		17325	49.37	-18.83	68.2	51.94	41.14	13.04	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		106.63	28.74	-14.76	43.5	43.82	16.26	0.81	32.21	-	-	P	H
		286.08	25.08	-20.92	46	37.19	18.62	1.33	32.15	-	-	P	H
		551.86	26.84	-19.16	46	31.83	25.22	1.91	32.21	-	-	P	H
		727.43	29.91	-16.09	46	32.46	27.2	2.16	32.04	-	-	P	H
		854.5	31.82	-14.18	46	32.03	28.8	2.46	31.63	-	-	P	H
		957.32	33.61	-12.39	46	31.2	30.65	2.46	30.92	100	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		31.94	31.81	-8.19	40	40	23.64	0.45	32.29	100	0	P	V
LF		94.99	26.32	-17.18	43.5	42.76	15	0.72	32.22	-	-	P	V
		119.24	25.13	-18.37	43.5	39.28	17.1	0.88	32.2	-	-	P	V
		291.9	24.35	-21.65	46	36.32	18.74	1.35	32.15	-	-	P	V
		864.2	31.56	-14.44	46	31.81	28.72	2.45	31.58	-	-	P	V
		933.07	33.57	-12.43	46	32.47	29.58	2.45	31.13	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5649.2	50.09	-18.11	68.2	41.21	32.09	6.34	29.55	100	233	P	H
		5697.2	53.35	-49.79	103.14	44.37	32.17	6.36	29.55	100	233	P	H
		5716.6	58.04	-51.81	109.85	49.03	32.19	6.37	29.55	100	233	P	H
		5723.8	63.56	-55.9	119.46	54.53	32.21	6.37	29.55	100	233	P	H
	*	5745	112.07	-	-	103	32.24	6.38	29.55	100	233	P	H
	*	5745	104.91	-	-	95.84	32.24	6.38	29.55	100	233	A	H
													H
802.11a													H
CH 149		5639	49.44	-18.76	68.2	40.56	32.09	6.34	29.55	319	165	P	V
5745MHz		5693.4	51.15	-49.18	100.33	42.17	32.17	6.36	29.55	319	165	P	V
		5719.6	54.5	-56.19	110.69	45.47	32.21	6.37	29.55	319	165	P	V
		5725	66.01	-56.19	122.2	56.98	32.21	6.37	29.55	319	165	P	V
	*	5745	108.29	-	-	99.22	32.24	6.38	29.55	319	165	P	V
	*	5745	101.01	-	-	91.94	32.24	6.38	29.55	319	165	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5630	50.07	-18.13	68.2	41.22	32.07	6.33	29.55	102	235	P	H
		5663.2	50.26	-27.74	78	41.34	32.12	6.35	29.55	102	235	P	H
		5716	51.1	-58.58	109.68	42.09	32.19	6.37	29.55	102	235	P	H
		5724.4	51.8	-69.03	120.83	42.77	32.21	6.37	29.55	102	235	P	H
	*	5785	111.2	-	-	102.08	32.29	6.39	29.56	102	235	P	H
	*	5785	104.27	-	-	95.15	32.29	6.39	29.56	102	235	A	H
		5850.8	51.24	-69.14	120.38	41.98	32.38	6.44	29.56	102	235	P	H
		5857.6	51.01	-59.06	110.07	41.71	32.41	6.45	29.56	102	235	P	H
		5895	50.5	-39.86	90.36	41.12	32.46	6.48	29.56	102	235	P	H
		5947.8	50.99	-17.21	68.2	41.5	32.53	6.52	29.56	102	235	P	H
													H
802.11a CH 157 5785MHz													H
		5613.6	49.15	-19.05	68.2	40.33	32.04	6.33	29.55	350	172	P	V
		5652.6	50.07	-20.06	70.13	41.16	32.12	6.34	29.55	350	172	P	V
		5718.6	48.94	-61.47	110.41	39.91	32.21	6.37	29.55	350	172	P	V
		5721.2	49.11	-64.43	113.54	40.08	32.21	6.37	29.55	350	172	P	V
	*	5785	107.66	-	-	98.54	32.29	6.39	29.56	350	172	P	V
	*	5785	100.45	-	-	91.33	32.29	6.39	29.56	350	172	A	V
		5850.2	50.78	-70.96	121.74	41.52	32.38	6.44	29.56	350	172	P	V
		5856.6	49.72	-60.63	110.35	40.42	32.41	6.45	29.56	350	172	P	V
		5901.2	50.12	-35.65	85.77	40.74	32.46	6.48	29.56	350	172	P	V
		5930.8	49.83	-18.37	68.2	40.39	32.5	6.5	29.56	350	172	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	111.29	-	-	102.07	32.36	6.42	29.56	100	232	P	H
	*	5825	104.35	-	-	95.13	32.36	6.42	29.56	100	232	A	H
		5854	65.19	-47.89	113.08	55.9	32.41	6.44	29.56	100	232	P	H
		5858.4	59.69	-50.16	109.85	50.39	32.41	6.45	29.56	100	232	P	H
		5903.8	54.34	-29.51	83.85	44.96	32.46	6.48	29.56	100	232	P	H
		5930	51.02	-17.18	68.2	41.58	32.5	6.5	29.56	100	232	P	H
													H
802.11a													H
CH 165	*	5825	108.65	-	-	99.43	32.36	6.42	29.56	312	168	P	V
5825MHz	*	5825	100.91	-	-	91.69	32.36	6.42	29.56	312	168	A	V
		5851.6	56.05	-62.5	118.55	46.79	32.38	6.44	29.56	312	168	P	V
		5856	56.32	-54.2	110.52	47.03	32.41	6.44	29.56	312	168	P	V
		5876.8	51.14	-52.72	103.86	41.81	32.43	6.46	29.56	312	168	P	V
		5930.8	50.13	-18.07	68.2	40.69	32.5	6.5	29.56	312	168	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.72	-27.28	74	52.64	39.92	10.46	56.3	100	0	P	H
		17235	48.6	-19.6	68.2	51.38	40.84	12.95	56.57	100	0	P	H
													H
													H
		11490	46.27	-27.73	74	52.19	39.92	10.46	56.3	100	0	P	V
		17235	49.16	-19.04	68.2	51.94	40.84	12.95	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	45.47	-28.53	74	51.51	39.76	10.5	56.3	100	0	P	H
		17355	49.03	-19.17	68.2	51.5	41.26	13.08	56.81	100	0	P	H
													H
													H
		11570	46.58	-27.42	74	52.62	39.76	10.5	56.3	100	0	P	V
		17355	49.56	-18.64	68.2	52.03	41.26	13.08	56.81	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.9	-27.1	74	53.04	39.62	10.54	56.3	100	0	P	H
		17475	50.77	-17.43	68.2	52.93	41.68	13.21	57.05	100	0	P	H
													H
													H
		11650	46.74	-27.26	74	52.88	39.62	10.54	56.3	100	0	P	V
		17475	49.61	-18.59	68.2	51.77	41.68	13.21	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5603	50.66	-17.54	68.2	41.85	32.04	6.32	29.55	100	232	P	H
		5699.2	53.36	-51.25	104.61	44.38	32.17	6.36	29.55	100	232	P	H
		5720	60.35	-50.45	110.8	51.32	32.21	6.37	29.55	100	232	P	H
		5725	67.86	-54.34	122.2	58.83	32.21	6.37	29.55	100	232	P	H
	*	5745	111.79	-	-	102.72	32.24	6.38	29.55	100	232	P	H
	*	5745	104.39	-	-	95.32	32.24	6.38	29.55	100	232	A	H
802.11ac													H
VHT20													H
CH 149		5609.8	48.68	-19.52	68.2	39.87	32.04	6.32	29.55	319	160	P	V
5745MHz		5698.4	51.67	-52.35	104.02	42.69	32.17	6.36	29.55	319	160	P	V
		5715.6	57.26	-52.31	109.57	48.25	32.19	6.37	29.55	319	160	P	V
		5723.4	57.01	-61.54	118.55	47.98	32.21	6.37	29.55	319	160	P	V
	*	5745	107.7	-	-	98.63	32.24	6.38	29.55	319	160	P	V
	*	5745	100.43	-	-	91.36	32.24	6.38	29.55	319	160	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5636.8	49.68	-18.52	68.2	40.81	32.09	6.33	29.55	101	232	P	H
		5670.8	49.39	-34.24	83.63	40.45	32.14	6.35	29.55	101	232	P	H
		5705.6	50.26	-56.51	106.77	41.26	32.19	6.36	29.55	101	232	P	H
		5723	50.94	-66.7	117.64	41.91	32.21	6.37	29.55	101	232	P	H
	*	5785	111.88	-	-	102.76	32.29	6.39	29.56	101	232	P	H
	*	5785	104.6	-	-	95.48	32.29	6.39	29.56	101	232	A	H
		5855	51.49	-59.31	110.8	42.2	32.41	6.44	29.56	101	232	P	H
		5856.8	52.47	-57.83	110.3	43.17	32.41	6.45	29.56	101	232	P	H
		5875.4	51.84	-53.06	104.9	42.51	32.43	6.46	29.56	101	232	P	H
		5946.4	50.17	-18.03	68.2	40.68	32.53	6.52	29.56	101	232	P	H
802.11ac													H
VHT20													H
CH 157		5612.8	49.69	-18.51	68.2	40.87	32.04	6.33	29.55	297	166	P	V
5785MHz		5664.2	49.21	-29.53	78.74	40.29	32.12	6.35	29.55	297	166	P	V
		5717.2	49.69	-60.33	110.02	40.68	32.19	6.37	29.55	297	166	P	V
		5724.4	50.03	-70.8	120.83	41	32.21	6.37	29.55	297	166	P	V
	*	5785	107.39	-	-	98.27	32.29	6.39	29.56	297	166	P	V
	*	5785	100.31	-	-	91.19	32.29	6.39	29.56	297	166	A	V
		5853.8	49.93	-63.61	113.54	40.64	32.41	6.44	29.56	297	166	P	V
		5866.6	49.01	-58.54	107.55	39.71	32.41	6.45	29.56	297	166	P	V
		5915.4	50.18	-25.1	75.28	40.77	32.48	6.49	29.56	297	166	P	V
		5930.2	49.37	-18.83	68.2	39.93	32.5	6.5	29.56	297	166	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	111.05	-	-	101.83	32.36	6.42	29.56	100	231	P	H
	*	5825	103.89	-	-	94.67	32.36	6.42	29.56	100	231	A	H
		5850.2	61.77	-59.97	121.74	52.51	32.38	6.44	29.56	100	231	P	H
		5855	58.04	-52.76	110.8	48.75	32.41	6.44	29.56	100	231	P	H
		5878	53.69	-49.28	102.97	44.36	32.43	6.46	29.56	100	231	P	H
		5931.8	50.77	-17.43	68.2	41.32	32.5	6.51	29.56	100	231	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	107.64	-	-	98.42	32.36	6.42	29.56	308	166	P	V
5825MHz	*	5825	100.37	-	-	91.15	32.36	6.42	29.56	308	166	A	V
		5850	56.96	-65.24	122.2	47.7	32.38	6.44	29.56	308	166	P	V
		5859.8	56.6	-52.85	109.45	47.3	32.41	6.45	29.56	308	166	P	V
		5877.4	52.12	-51.3	103.42	42.79	32.43	6.46	29.56	308	166	P	V
		5948.6	50.49	-17.71	68.2	41	32.53	6.52	29.56	308	166	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	46.4	-27.6	74	52.32	39.92	10.46	56.3	100	0	P	H
		17235	49.79	-18.41	68.2	52.57	40.84	12.95	56.57	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	46.73	-27.27	74	52.65	39.92	10.46	56.3	100	0	P	V
5745MHz		17235	48.06	-20.14	68.2	50.84	40.84	12.95	56.57	100	0	P	V
													V
													V
		11570	46.35	-27.65	74	52.39	39.76	10.5	56.3	100	0	P	H
		17355	48.97	-19.23	68.2	51.44	41.26	13.08	56.81	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	45.47	-28.53	74	51.51	39.76	10.5	56.3	100	0	P	V
5785MHz		17355	49.3	-18.9	68.2	51.77	41.26	13.08	56.81	100	0	P	V
													V
													V
		11650	47.89	-26.11	74	54.03	39.62	10.54	56.3	100	0	P	H
		17475	49.75	-18.45	68.2	51.91	41.68	13.21	57.05	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	46.8	-27.2	74	52.94	39.62	10.54	56.3	100	0	P	V
5825MHz		17475	50.08	-18.12	68.2	52.24	41.68	13.21	57.05	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5615.8	51.33	-16.87	68.2	42.48	32.07	6.33	29.55	100	234	P	H
		5698.6	58.27	-45.9	104.17	49.29	32.17	6.36	29.55	100	234	P	H
		5712.2	69.57	-39.05	108.62	60.57	32.19	6.36	29.55	100	234	P	H
		5724.8	71.23	-50.51	121.74	62.2	32.21	6.37	29.55	100	234	P	H
	*	5755	109.08	-	-	100	32.26	6.38	29.56	100	234	P	H
	*	5755	101.85	-	-	92.77	32.26	6.38	29.56	100	234	A	H
		5852.2	51.57	-65.61	117.18	42.31	32.38	6.44	29.56	100	234	P	H
		5856.2	52.07	-58.39	110.46	42.78	32.41	6.44	29.56	100	234	P	H
		5894.6	52.48	-38.18	90.66	43.1	32.46	6.48	29.56	100	234	P	H
		5940.2	50.7	-17.5	68.2	41.22	32.53	6.51	29.56	100	234	P	H
802.11ac													H
VHT40													H
CH 151		5625.2	49.69	-18.51	68.2	40.84	32.07	6.33	29.55	337	169	P	V
5755MHz		5697.6	52.21	-51.22	103.43	43.23	32.17	6.36	29.55	337	169	P	V
		5719.4	65.75	-44.88	110.63	56.72	32.21	6.37	29.55	337	169	P	V
		5724.6	66	-55.29	121.29	56.97	32.21	6.37	29.55	337	169	P	V
	*	5755	105.24	-	-	96.16	32.26	6.38	29.56	337	169	P	V
	*	5755	97.89	-	-	88.81	32.26	6.38	29.56	337	169	A	V
		5850.2	51.42	-70.32	121.74	42.16	32.38	6.44	29.56	337	169	P	V
		5861	50.02	-59.1	109.12	40.72	32.41	6.45	29.56	337	169	P	V
		5886	50.67	-46.36	97.03	41.33	32.43	6.47	29.56	337	169	P	V
		5948.6	49.45	-18.75	68.2	39.96	32.53	6.52	29.56	337	169	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5637.6	48.74	-19.46	68.2	39.86	32.09	6.34	29.55	110	234	P	H
		5676.6	49.93	-37.99	87.92	40.99	32.14	6.35	29.55	110	234	P	H
		5709.8	51.97	-55.98	107.95	42.97	32.19	6.36	29.55	110	234	P	H
		5723.4	51.69	-66.86	118.55	42.66	32.21	6.37	29.55	110	234	P	H
	*	5795	108.57	-	-	99.42	32.31	6.4	29.56	110	234	P	H
	*	5795	101.44	-	-	92.29	32.31	6.4	29.56	110	234	A	H
		5851.2	58.76	-60.7	119.46	49.5	32.38	6.44	29.56	110	234	P	H
		5856.2	57.15	-53.31	110.46	47.86	32.41	6.44	29.56	110	234	P	H
		5877.2	54.27	-49.3	103.57	44.94	32.43	6.46	29.56	110	234	P	H
		5933.6	51.48	-16.72	68.2	42.03	32.5	6.51	29.56	110	234	P	H
802.11ac													H
VHT40													H
CH 159		5644.8	49.16	-19.04	68.2	40.28	32.09	6.34	29.55	314	167	P	V
5795MHz		5693	48.39	-51.65	100.04	39.41	32.17	6.36	29.55	314	167	P	V
		5708.4	49.04	-58.51	107.55	40.04	32.19	6.36	29.55	314	167	P	V
		5724.6	50.78	-70.51	121.29	41.75	32.21	6.37	29.55	314	167	P	V
	*	5795	104.76	-	-	95.61	32.31	6.4	29.56	314	167	P	V
	*	5795	97.66	-	-	88.51	32.31	6.4	29.56	314	167	A	V
		5851.4	52.17	-66.84	119.01	42.91	32.38	6.44	29.56	314	167	P	V
		5862.2	50.8	-57.98	108.78	41.5	32.41	6.45	29.56	314	167	P	V
		5877.8	50.71	-52.41	103.12	41.38	32.43	6.46	29.56	314	167	P	V
		5941.4	49.6	-18.6	68.2	40.12	32.53	6.51	29.56	314	167	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	46.62	-27.38	74	52.55	39.9	10.47	56.3	100	0	P	H
		17265	48.29	-19.91	68.2	50.98	40.96	12.98	56.63	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	47.01	-26.99	74	52.94	39.9	10.47	56.3	100	0	P	V
5755MHz		17265	48.67	-19.53	68.2	51.36	40.96	12.98	56.63	100	0	P	V
													V
													V
		11590	45.25	-28.75	74	51.31	39.73	10.51	56.3	100	0	P	H
		17385	50.3	-17.9	68.2	52.68	41.38	13.11	56.87	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	46.28	-27.72	74	52.34	39.73	10.51	56.3	100	0	P	V
5795MHz		17385	50.78	-17.42	68.2	53.16	41.38	13.11	56.87	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.2	53.23	-14.97	68.2	44.35	32.09	6.34	29.55	329	232	P	H
		5685.4	63.54	-30.89	94.43	54.57	32.17	6.35	29.55	329	232	P	H
		5708.8	68.67	-39	107.67	59.67	32.19	6.36	29.55	329	232	P	H
		5725	70.42	-51.78	122.2	61.39	32.21	6.37	29.55	329	232	P	H
	*	5775	106.35	-	-	97.23	32.29	6.39	29.56	329	232	P	H
	*	5775	99.5	-	-	90.38	32.29	6.39	29.56	329	232	A	H
		5853.4	71.59	-42.86	114.45	62.33	32.38	6.44	29.56	329	232	P	H
		5870.2	70.34	-36.2	106.54	61.03	32.41	6.46	29.56	329	232	P	H
		5875.4	61.74	-43.16	104.9	52.41	32.43	6.46	29.56	329	232	P	H
		5939.4	51.6	-16.6	68.2	42.12	32.53	6.51	29.56	329	232	P	H
802.11ac													H
VHT80													H
CH 155		5648.8	49.42	-18.78	68.2	40.54	32.09	6.34	29.55	298	125	P	V
5775MHz		5698.4	62.52	-41.5	104.02	53.54	32.17	6.36	29.55	298	125	P	V
		5718.8	65.67	-44.79	110.46	56.64	32.21	6.37	29.55	298	125	P	V
		5723.2	66.85	-51.25	118.1	57.82	32.21	6.37	29.55	298	125	P	V
	*	5775	102.98	-	-	93.86	32.29	6.39	29.56	298	125	P	V
	*	5775	96.07	-	-	86.95	32.29	6.39	29.56	298	125	A	V
		5855	65.79	-45.01	110.8	56.5	32.41	6.44	29.56	298	125	P	V
		5860.4	69.07	-40.22	109.29	59.77	32.41	6.45	29.56	298	125	P	V
		5878.8	58.83	-43.55	102.38	49.5	32.43	6.46	29.56	298	125	P	V
		5931	50.04	-18.16	68.2	40.6	32.5	6.5	29.56	298	125	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	46.18	-27.82	74	52.19	39.8	10.49	56.3	100	0	P	H
		17325	48.99	-19.21	68.2	51.56	41.14	13.04	56.75	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	46.23	-27.77	74	52.24	39.8	10.49	56.3	100	0	P	V
5775MHz		17325	48.59	-19.61	68.2	51.16	41.14	13.04	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		110.51	28.41	-15.09	43.5	43.16	16.55	0.83	32.2	-	-	P	H
		286.08	25.9	-20.1	46	38.01	18.62	1.33	32.15	-	-	P	H
		566.41	28.22	-17.78	46	32.73	25.67	1.95	32.22	-	-	P	H
		836.07	31.49	-14.51	46	32.2	28.44	2.41	31.72	-	-	P	H
		900.09	34.81	-11.19	46	34.91	28.7	2.44	31.41	-	-	P	H
		959.26	33.56	-12.44	46	31.1	30.69	2.46	30.91	100	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		32.91	32.24	-7.76	40	40.91	23.15	0.45	32.29	100	0	P	V
LF		96.93	27.93	-15.57	43.5	43.96	15.38	0.74	32.21	-	-	P	V
		151.25	28.73	-14.77	43.5	43.08	16.77	0.96	32.17	-	-	P	V
		737.13	30.17	-15.83	46	32.3	27.59	2.17	32.02	-	-	P	V
		857.41	32.3	-13.7	46	32.49	28.8	2.46	31.61	-	-	P	V
		954.41	33.44	-12.56	46	31.13	30.59	2.46	30.95	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5648.4	50.17	-18.03	68.2	41.29	32.09	6.34	29.55	108	231	P	H
		5697.6	56	-47.43	103.43	47.02	32.17	6.36	29.55	108	231	P	H
		5719.6	71.82	-38.87	110.69	62.79	32.21	6.37	29.55	108	231	P	H
		5724.8	83.14	-38.6	121.74	74.11	32.21	6.37	29.55	108	231	P	H
	*	5745	114.67	-	-	105.6	32.24	6.38	29.55	108	231	P	H
	*	5745	106.13	-	-	97.06	32.24	6.38	29.55	108	231	A	H
802.11ac													H
VHT20													H
CH 149		5617.8	49.7	-18.5	68.2	40.85	32.07	6.33	29.55	299	128	P	V
5745MHz		5698.6	50.88	-53.29	104.17	41.9	32.17	6.36	29.55	299	128	P	V
		5719.8	65.22	-45.52	110.74	56.19	32.21	6.37	29.55	299	128	P	V
		5724.4	76.72	-44.11	120.83	67.69	32.21	6.37	29.55	299	128	P	V
	*	5745	110.63	-	-	101.56	32.24	6.38	29.55	299	128	P	V
	*	5745	102.19	-	-	93.12	32.24	6.38	29.55	299	128	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5621.8	49.38	-18.82	68.2	40.53	32.07	6.33	29.55	100	232	P	H
		5668.4	49.69	-32.16	81.85	40.75	32.14	6.35	29.55	100	232	P	H
		5718	50.77	-59.47	110.24	41.74	32.21	6.37	29.55	100	232	P	H
		5721.4	52.75	-61.24	113.99	43.72	32.21	6.37	29.55	100	232	P	H
	*	5785	114.61	-	-	105.49	32.29	6.39	29.56	100	232	P	H
	*	5785	105.67	-	-	96.55	32.29	6.39	29.56	100	232	A	H
		5850.8	54.59	-65.79	120.38	45.33	32.38	6.44	29.56	100	232	P	H
		5855.4	53.26	-57.43	110.69	43.97	32.41	6.44	29.56	100	232	P	H
		5882.6	51.85	-47.71	99.56	42.51	32.43	6.47	29.56	100	232	P	H
		5945.4	51.3	-16.9	68.2	41.81	32.53	6.52	29.56	100	232	P	H
802.11ac													H
VHT20													H
CH 157		5639	48.37	-19.83	68.2	39.49	32.09	6.34	29.55	311	126	P	V
5785MHz		5688.4	49.19	-47.45	96.64	40.21	32.17	6.36	29.55	311	126	P	V
		5702.4	49.21	-56.66	105.87	40.21	32.19	6.36	29.55	311	126	P	V
		5722.6	49.34	-67.39	116.73	40.31	32.21	6.37	29.55	311	126	P	V
	*	5785	110.74	-	-	101.62	32.29	6.39	29.56	311	126	P	V
	*	5785	102.28	-	-	93.16	32.29	6.39	29.56	311	126	A	V
		5851.4	50.59	-68.42	119.01	41.33	32.38	6.44	29.56	311	126	P	V
		5870.8	49.66	-56.71	106.37	40.33	32.43	6.46	29.56	311	126	P	V
		5918.8	50.46	-22.31	72.77	41.04	32.48	6.5	29.56	311	126	P	V
		5944.8	49.41	-18.79	68.2	39.92	32.53	6.52	29.56	311	126	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	114.78	-	-	105.56	32.36	6.42	29.56	100	231	P	H
	*	5825	106.04	-	-	96.82	32.36	6.42	29.56	100	231	A	H
		5850.6	80.09	-40.74	120.83	70.83	32.38	6.44	29.56	100	231	P	H
		5855.4	76.45	-34.24	110.69	67.16	32.41	6.44	29.56	100	231	P	H
		5878.6	61.26	-41.27	102.53	51.93	32.43	6.46	29.56	100	231	P	H
		5930.6	51.94	-16.26	68.2	42.5	32.5	6.5	29.56	100	231	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	111.2	-	-	101.98	32.36	6.42	29.56	296	122	P	V
5825MHz	*	5825	102.29	-	-	93.07	32.36	6.42	29.56	296	122	A	V
		5850.2	72.47	-49.27	121.74	63.21	32.38	6.44	29.56	296	122	P	V
		5857.2	68	-42.18	110.18	58.7	32.41	6.45	29.56	296	122	P	V
		5879.6	52.67	-49.11	101.78	43.34	32.43	6.46	29.56	296	122	P	V
		5942.4	49.32	-18.88	68.2	39.84	32.53	6.51	29.56	296	122	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	46.49	-27.51	74	52.41	39.92	10.46	56.3	100	0	P	H
		17235	48.75	-19.45	68.2	51.53	40.84	12.95	56.57	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	47.67	-26.33	74	53.59	39.92	10.46	56.3	100	0	P	V
5745MHz		17235	49.01	-19.19	68.2	51.79	40.84	12.95	56.57	100	0	P	V
													V
													V
		11570	46.04	-27.96	74	52.08	39.76	10.5	56.3	100	0	P	H
		17355	48.74	-19.46	68.2	51.21	41.26	13.08	56.81	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	46.04	-27.96	74	52.08	39.76	10.5	56.3	100	0	P	V
5785MHz		17355	49.63	-18.57	68.2	52.1	41.26	13.08	56.81	100	0	P	V
													V
													V
		11650	46.96	-27.04	74	53.1	39.62	10.54	56.3	100	0	P	H
		17475	49.66	-18.54	68.2	51.82	41.68	13.21	57.05	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	46.7	-27.3	74	52.84	39.62	10.54	56.3	100	0	P	V
5825MHz		17475	50.39	-17.81	68.2	52.55	41.68	13.21	57.05	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.8	65.38	-2.82	68.2	56.47	32.12	6.34	29.55	100	265	P	H
		5697.6	81.88	-21.55	103.43	72.9	32.17	6.36	29.55	100	265	P	H
		5718.6	93.02	-17.39	110.41	83.99	32.21	6.37	29.55	100	265	P	H
		5724.6	95.19	-26.1	121.29	86.16	32.21	6.37	29.55	100	265	P	H
	*	5755	113.29	-	-	104.21	32.26	6.38	29.56	100	265	P	H
	*	5755	104.2	-	-	95.12	32.26	6.38	29.56	100	265	A	H
		5852	69.16	-48.48	117.64	59.9	32.38	6.44	29.56	100	265	P	H
		5855.4	66.27	-44.42	110.69	56.98	32.41	6.44	29.56	100	265	P	H
		5880.8	62.31	-38.58	100.89	52.98	32.43	6.46	29.56	100	265	P	H
		5928	51.26	-16.94	68.2	41.82	32.5	6.5	29.56	100	265	P	H
802.11ac													H
VHT40													H
CH 151		5648.8	60.79	-7.41	68.2	51.91	32.09	6.34	29.55	302	106	P	V
5755MHz		5696.8	81.3	-21.54	102.84	72.32	32.17	6.36	29.55	302	106	P	V
		5717.2	89.4	-20.62	110.02	80.39	32.19	6.37	29.55	302	106	P	V
		5721.8	90.96	-23.94	114.9	81.93	32.21	6.37	29.55	302	106	P	V
	*	5755	110.43	-	-	101.35	32.26	6.38	29.56	302	106	P	V
	*	5755	101.17	-	-	92.09	32.26	6.38	29.56	302	106	A	V
		5850.4	66.68	-54.61	121.29	57.42	32.38	6.44	29.56	302	106	P	V
		5856	65.23	-45.29	110.52	55.94	32.41	6.44	29.56	302	106	P	V
		5878.8	60.72	-41.66	102.38	51.39	32.43	6.46	29.56	302	106	P	V
		5934.8	50.98	-17.22	68.2	41.53	32.5	6.51	29.56	302	106	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5644.2	51.75	-16.45	68.2	42.87	32.09	6.34	29.55	100	265	P	H
		5695	68.94	-32.57	101.51	59.96	32.17	6.36	29.55	100	265	P	H
		5716	74.06	-35.62	109.68	65.05	32.19	6.37	29.55	100	265	P	H
		5722.8	74	-43.18	117.18	64.97	32.21	6.37	29.55	100	265	P	H
	*	5795	112.81	-	-	103.66	32.31	6.4	29.56	100	265	P	H
	*	5795	103.63	-	-	94.48	32.31	6.4	29.56	100	265	A	H
		5851	80.91	-39.01	119.92	71.65	32.38	6.44	29.56	100	265	P	H
		5855.2	80.04	-30.7	110.74	70.75	32.41	6.44	29.56	100	265	P	H
		5881.8	71.45	-28.7	100.15	62.11	32.43	6.47	29.56	100	265	P	H
		5927.6	58.18	-10.02	68.2	48.74	32.5	6.5	29.56	100	265	P	H
802.11ac													H
VHT40													H
CH 159		5638.4	49.38	-18.82	68.2	40.5	32.09	6.34	29.55	264	108	P	V
5795MHz		5696.8	63.35	-39.49	102.84	54.37	32.17	6.36	29.55	264	108	P	V
		5720	72.41	-38.39	110.8	63.38	32.21	6.37	29.55	264	108	P	V
		5723.6	73.86	-45.15	119.01	64.83	32.21	6.37	29.55	264	108	P	V
	*	5795	111.39	-	-	102.24	32.31	6.4	29.56	264	108	P	V
	*	5795	101.7	-	-	92.55	32.31	6.4	29.56	264	108	A	V
		5853	81.13	-34.23	115.36	71.87	32.38	6.44	29.56	264	108	P	V
		5856.4	78.49	-31.92	110.41	69.19	32.41	6.45	29.56	264	108	P	V
		5882.8	72.1	-27.31	99.41	62.76	32.43	6.47	29.56	264	108	P	V
		5931.8	57.99	-10.21	68.2	48.54	32.5	6.51	29.56	264	108	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	45.87	-28.13	74	51.8	39.9	10.47	56.3	100	0	P	H
		17265	48.43	-19.77	68.2	51.12	40.96	12.98	56.63	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	46.58	-27.42	74	52.51	39.9	10.47	56.3	100	0	P	V
5755MHz		17265	49.61	-18.59	68.2	52.3	40.96	12.98	56.63	100	0	P	V
													V
													V
		11590	46.67	-27.33	74	52.73	39.73	10.51	56.3	100	0	P	H
		17385	50.06	-18.14	68.2	52.44	41.38	13.11	56.87	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	45.77	-28.23	74	51.83	39.73	10.51	56.3	100	0	P	V
5795MHz		17385	49.35	-18.85	68.2	51.73	41.38	13.11	56.87	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5647.4	66.78	-1.42	68.2	57.9	32.09	6.34	29.55	100	264	P	H
		5698	82.85	-20.88	103.73	73.87	32.17	6.36	29.55	100	264	P	H
		5717.8	87.53	-22.65	110.18	78.5	32.21	6.37	29.55	100	264	P	H
		5724.8	88.17	-33.57	121.74	79.14	32.21	6.37	29.55	100	264	P	H
	*	5775	109.99	-	-	100.87	32.29	6.39	29.56	100	264	P	H
	*	5775	100.19	-	-	91.07	32.29	6.39	29.56	100	264	A	H
		5852.6	83.93	-32.34	116.27	74.67	32.38	6.44	29.56	100	264	P	H
		5855.6	84.78	-25.85	110.63	75.49	32.41	6.44	29.56	100	264	P	H
		5878.2	77.53	-25.29	102.82	68.2	32.43	6.46	29.56	100	264	P	H
		5927	64.82	-3.38	68.2	55.38	32.5	6.5	29.56	100	264	P	H
802.11ac													H
VHT80													H
CH 155		5649.2	66.13	-2.07	68.2	57.25	32.09	6.34	29.55	244	106	P	V
5775MHz		5699.8	82.22	-22.83	105.05	73.24	32.17	6.36	29.55	244	106	P	V
		5715.6	86.69	-22.88	109.57	77.68	32.19	6.37	29.55	244	106	P	V
		5724.4	87.31	-33.52	120.83	78.28	32.21	6.37	29.55	244	106	P	V
	*	5775	108.64	-	-	99.52	32.29	6.39	29.56	244	106	P	V
	*	5775	99.77	-	-	90.65	32.29	6.39	29.56	244	106	A	V
		5851.4	84.72	-34.29	119.01	75.46	32.38	6.44	29.56	244	106	P	V
		5860.2	84.05	-25.29	109.34	74.75	32.41	6.45	29.56	244	106	P	V
		5875.8	78.56	-26.05	104.61	69.23	32.43	6.46	29.56	244	106	P	V
		5925.8	65.36	-2.84	68.2	55.92	32.5	6.5	29.56	244	106	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	46.49	-27.51	74	52.5	39.8	10.49	56.3	100	0	P	H
		17325	48.37	-19.83	68.2	50.94	41.14	13.04	56.75	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	46.13	-27.87	74	52.14	39.8	10.49	56.3	100	0	P	V
5775MHz		17325	48.87	-19.33	68.2	51.44	41.14	13.04	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		106.63	29.02	-14.48	43.5	44.1	16.26	0.81	32.21	-	-	P	H
		285.11	25.88	-20.12	46	38.01	18.6	1.33	32.15	-	-	P	H
		572.23	27.29	-18.71	46	31.95	25.51	1.96	32.22	-	-	P	H
		687.66	28.89	-17.11	46	32.76	26	2.12	32.11	-	-	P	H
		858.38	31.98	-14.02	46	32.17	28.8	2.46	31.61	-	-	P	H
		953.44	33.88	-12.12	46	31.61	30.57	2.45	30.96	100	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		32.91	33.2	-6.8	40	41.87	23.15	0.45	32.29	100	0	P	V
LF		97.9	27.67	-15.83	43.5	43.67	15.4	0.75	32.21	-	-	P	V
		119.24	24.35	-19.15	43.5	38.5	17.1	0.88	32.2	-	-	P	V
		292.87	23.31	-22.69	46	35.26	18.76	1.35	32.15	-	-	P	V
		636.25	28.97	-17.03	46	32.9	26.08	2.07	32.19	-	-	P	V
		954.41	34.03	-11.97	46	31.72	30.59	2.46	30.95	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

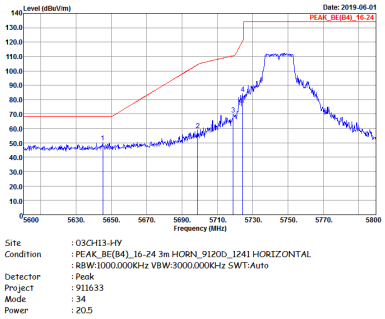
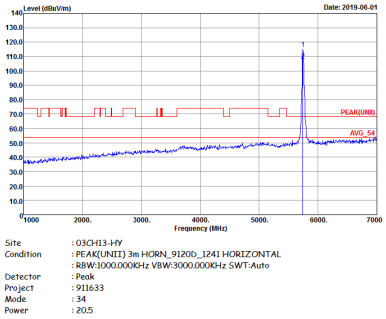
Appendix C. Radiated Spurious Emission Plots

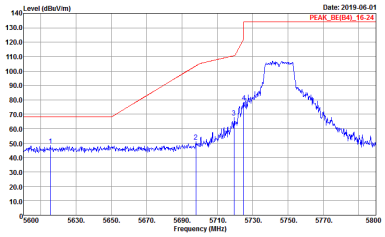
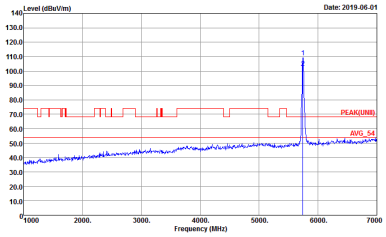
Test Engineer :	Andy Yang, JC Liang and Wilson Wu	**Temperature :**	24.5~24.6°C
		Relative Humidity :	50%

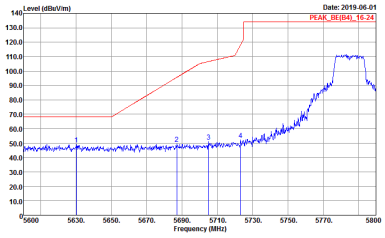
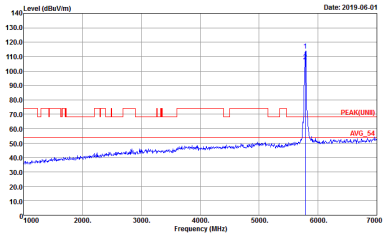
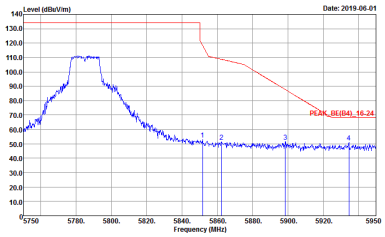
<CDD Mode>

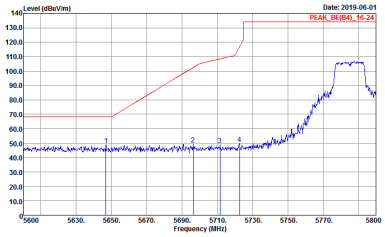
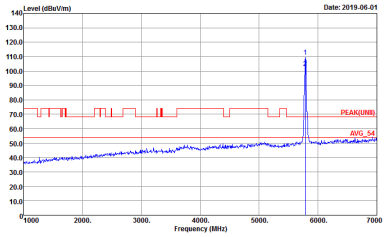
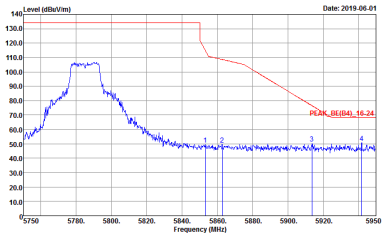
Band 4 - 5725~5850MHz

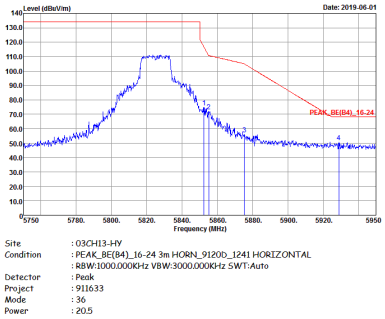
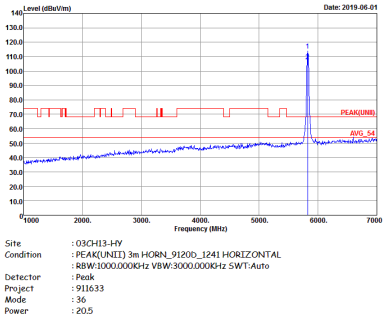
WIFI 802.11a (Band Edge @ 3m)

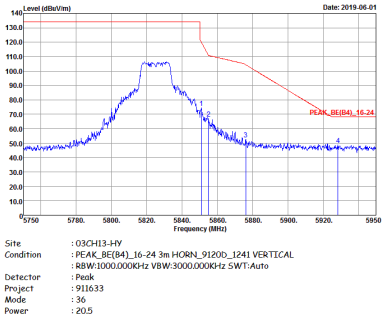
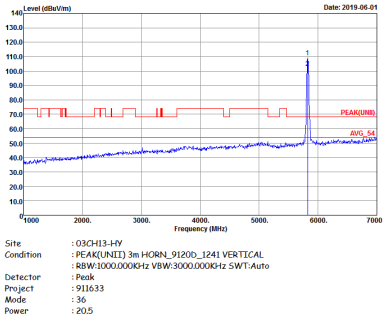
WIFI	**Band 4 5725~5850MHz Band Edge @ 3m**	
ANT	**802.11a CH149 5745MHz**	
1	**Horizontal**	**Fundamental**
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 34 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 34 Power : 20.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20	Left blank

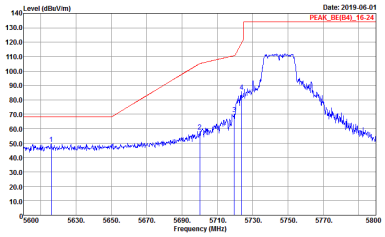
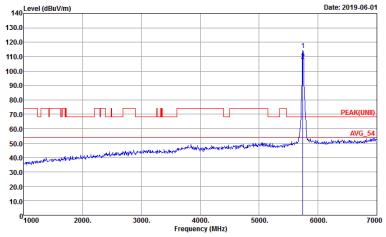
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 35 Power : 20	Left blank

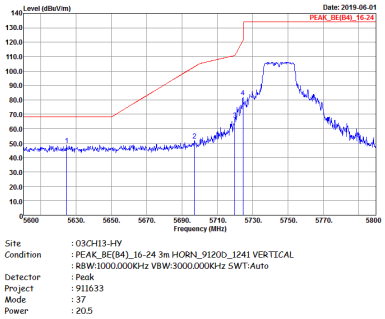
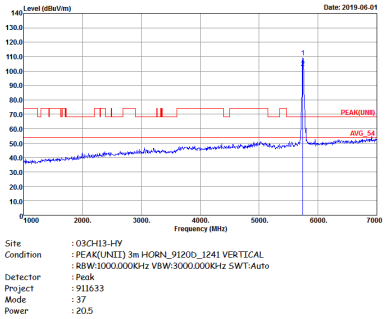
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 36 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 36 Power : 20.5

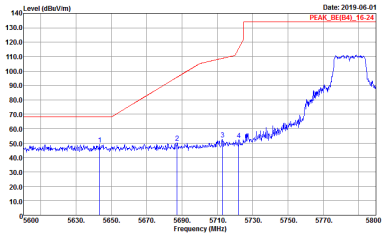
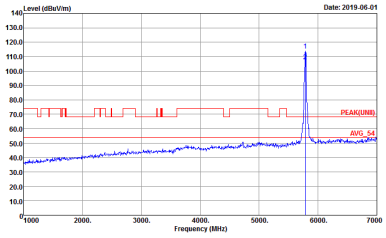
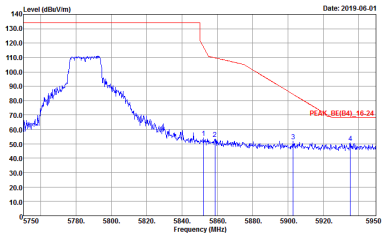
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 36 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 36 Power : 20.5

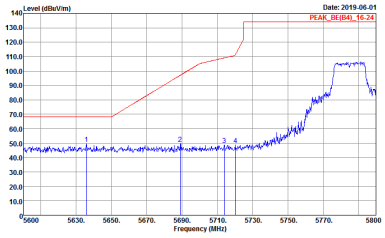
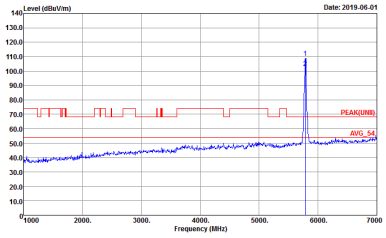
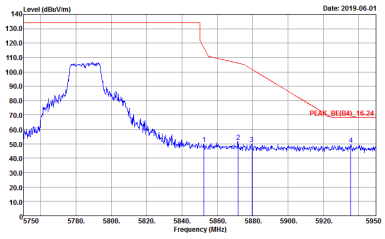
Band 4 5725~5850MHz

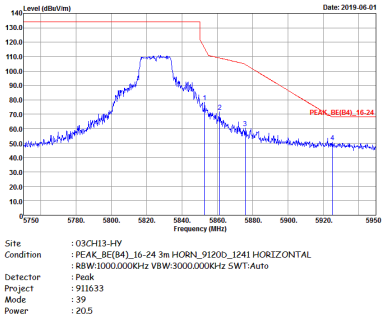
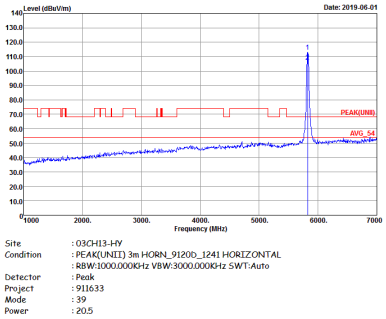
WIFI 802.11ac VHT20 (Band Edge @ 3m)

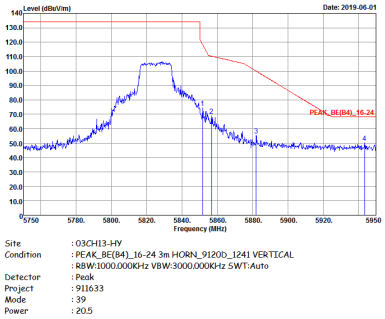
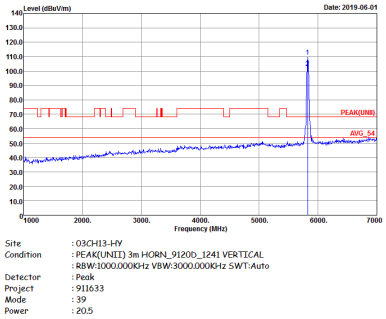
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 37 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 37 Power : 20.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 37 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 37 Power : 20.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20	Left blank

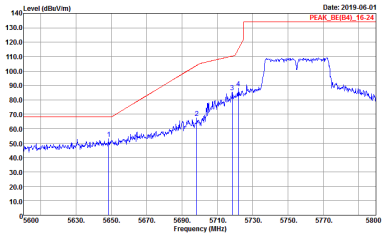
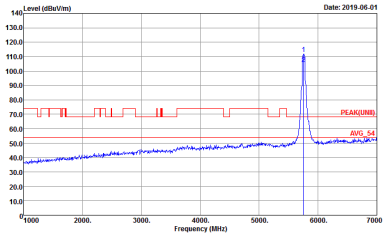
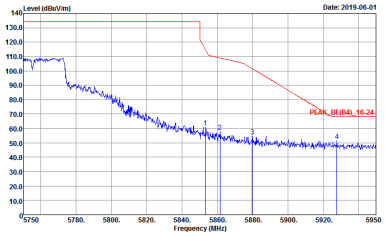
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 38 Power : 20	Left blank

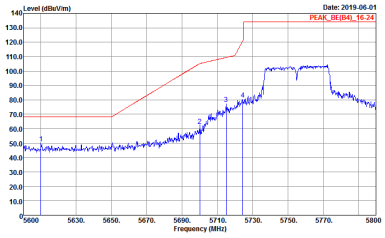
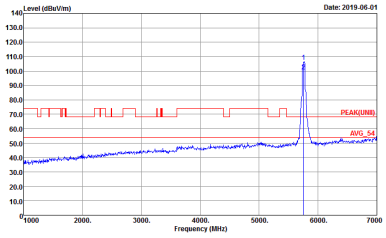
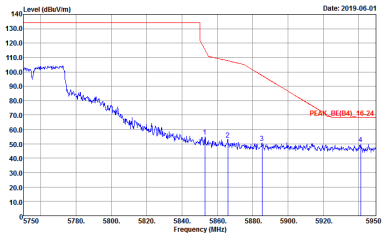
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 39 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 39 Power : 20.5

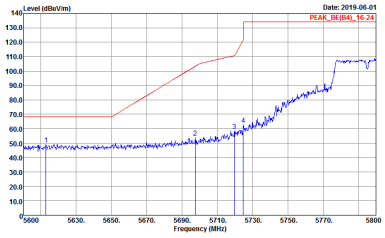
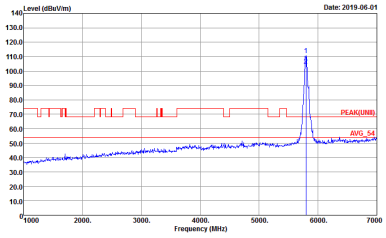
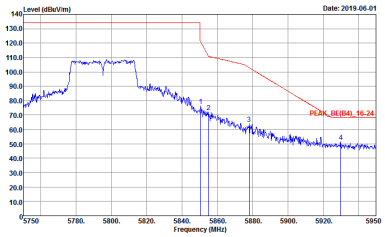
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 39 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 39 Power : 20.5

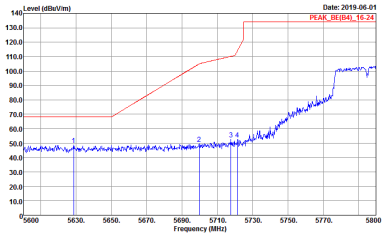
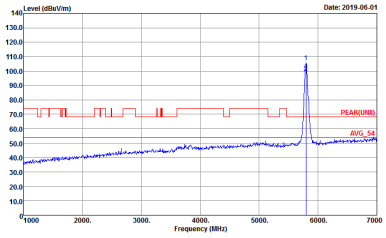
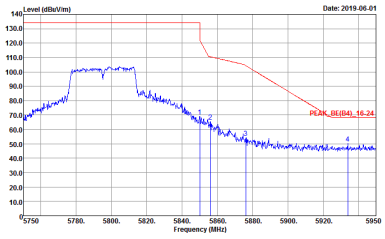
Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5	Left blank

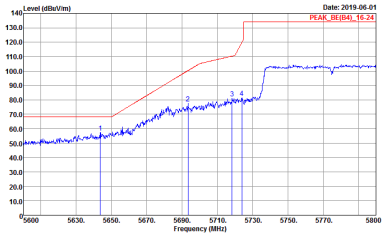
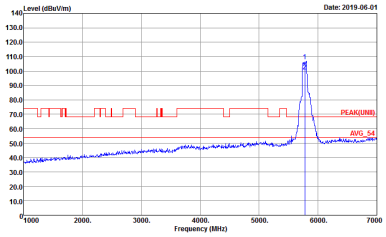
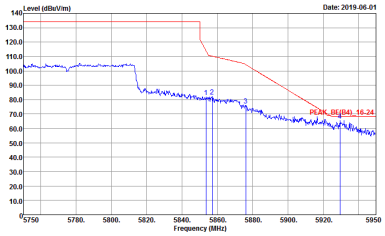
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 40 Power : 20.5	Left blank

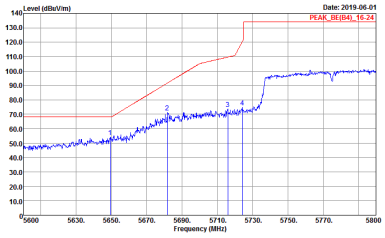
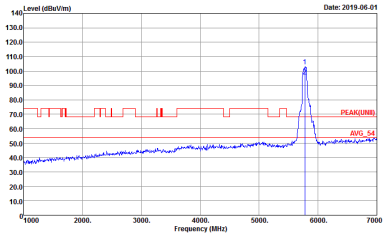
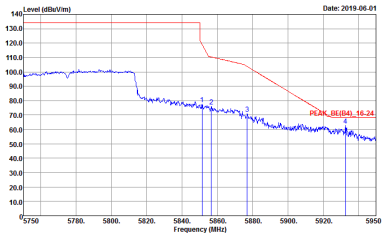
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 41 Power : 20	Left blank

Band 4 5725~5850MHz

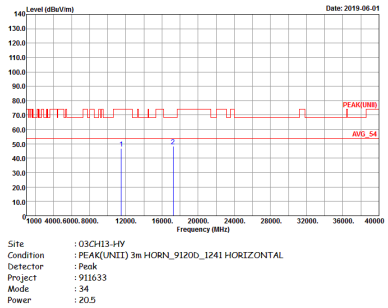
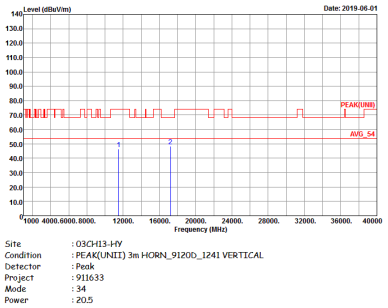
WIFI 802.11ac VHT80 (Band Edge @ 3m)

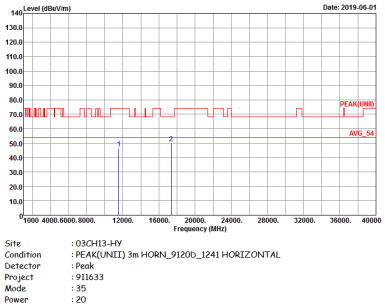
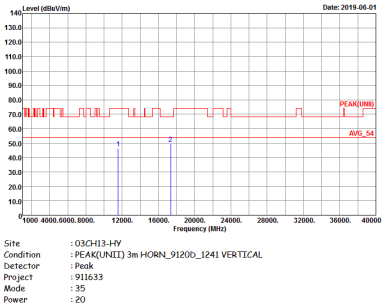
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5	Left blank

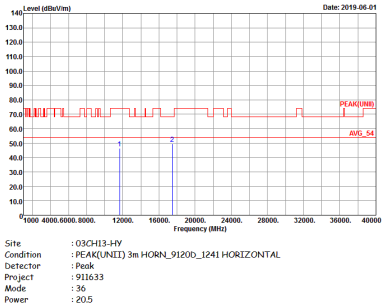
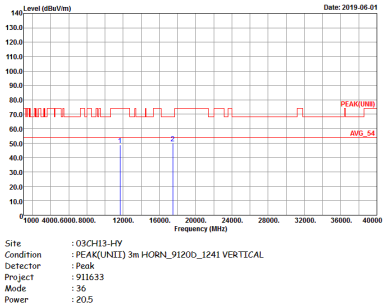
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 42 Power : 19.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

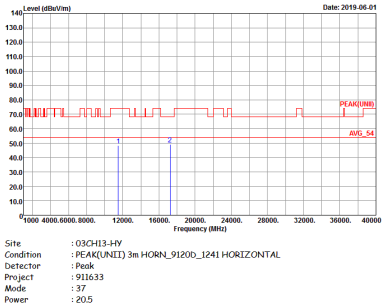
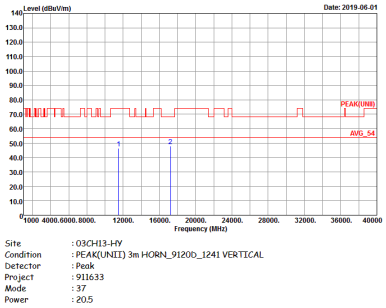
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

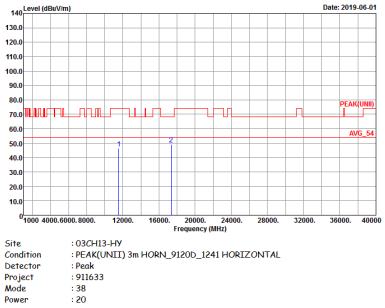
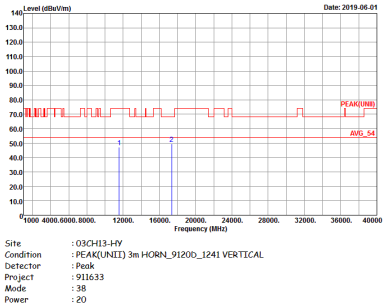
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 911633 Mode : 35 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 911633 Mode : 35 Power : 20

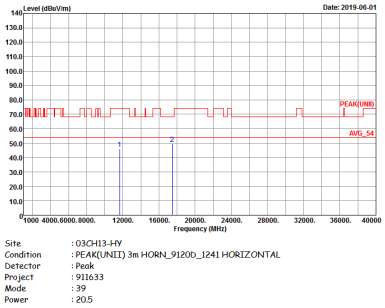
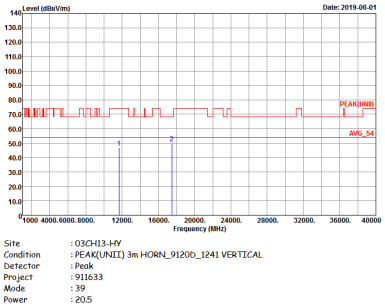
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

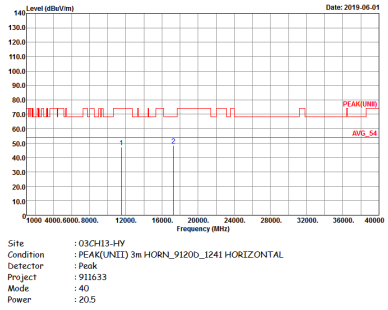
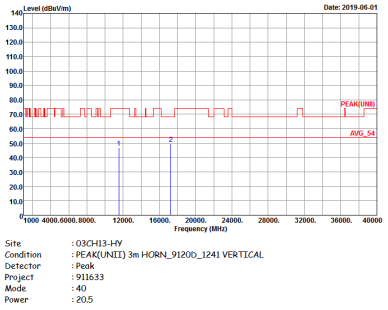
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

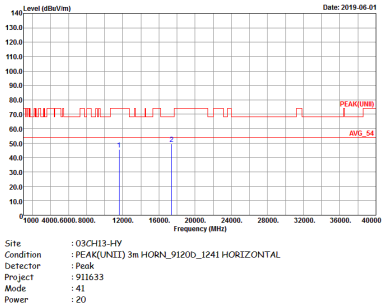
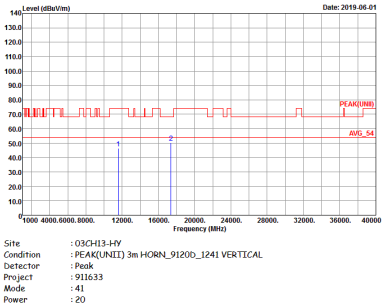
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

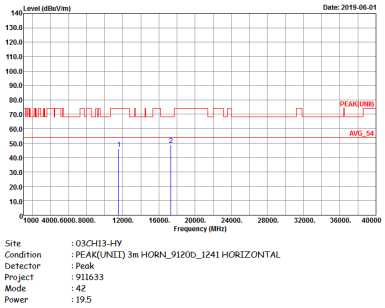
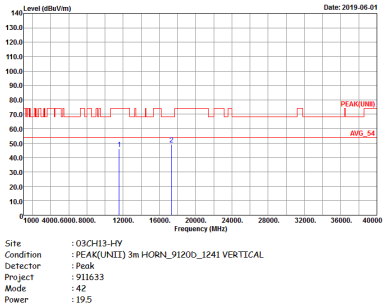
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

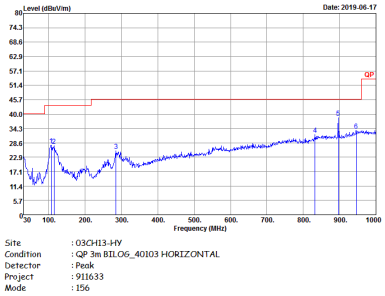
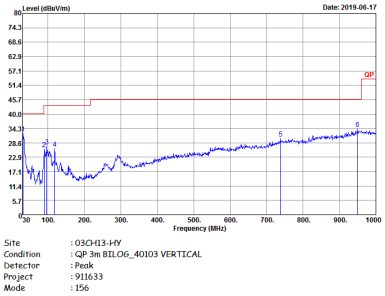
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

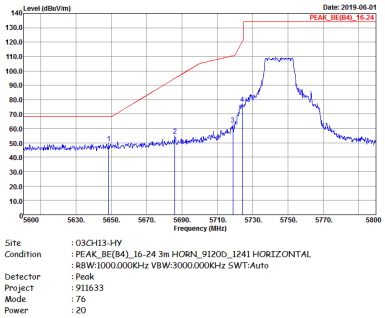
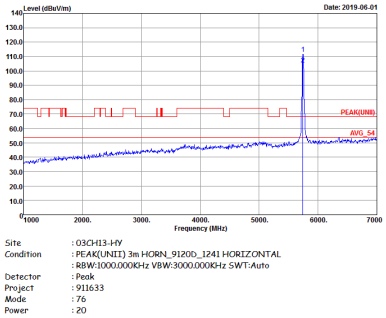
Emission below 1GHz

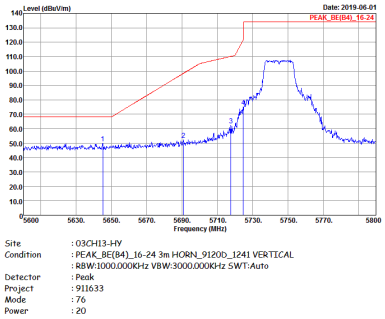
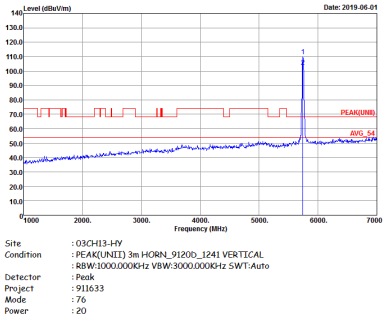
5GHz WIFI 802.11ac VHT80 (LF)

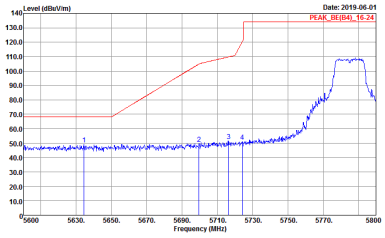
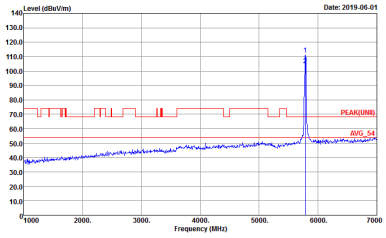
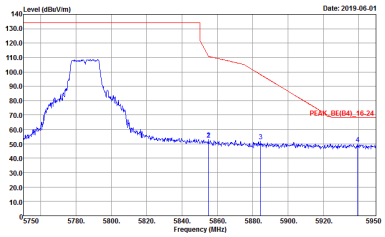
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

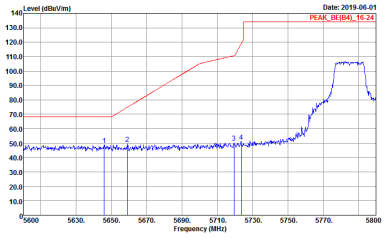
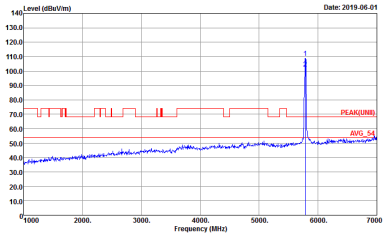
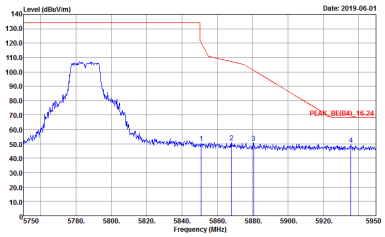
Band 4 - 5725~5850MHz

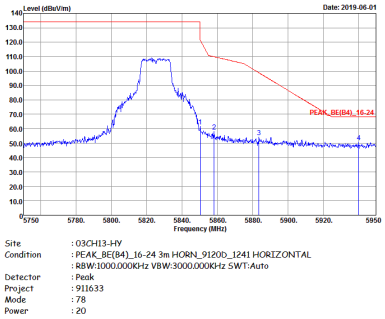
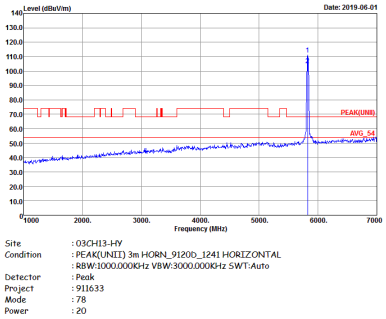
WIFI 802.11a (Band Edge @ 3m)

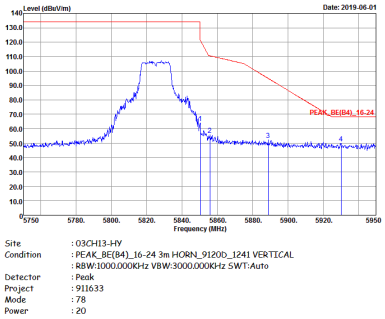
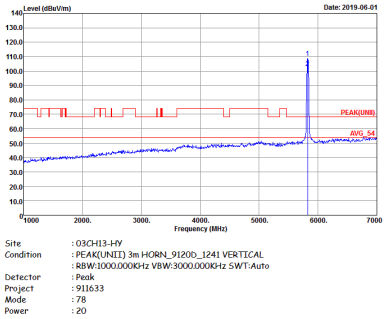
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 76 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 76 Power : 20

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5	Left blank

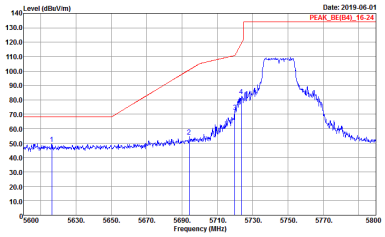
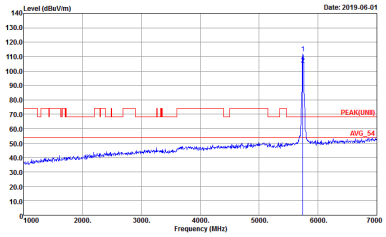
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 77 Power : 19.5	Left blank

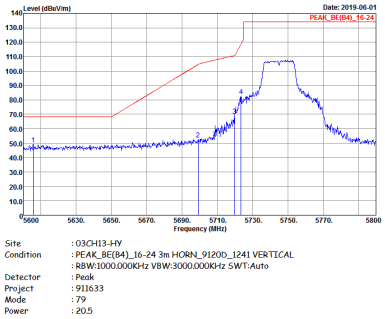
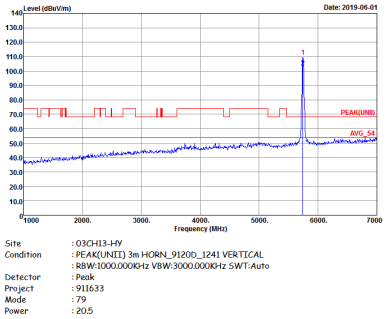
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 78 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 78 Power : 20

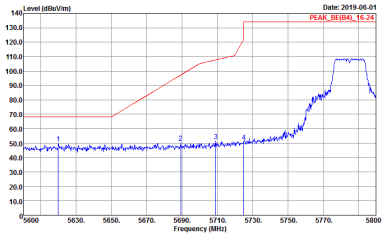
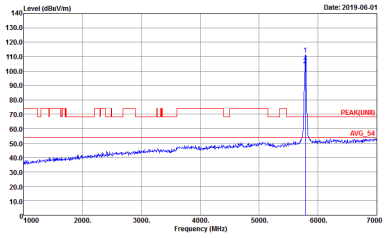
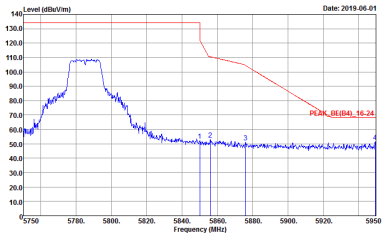
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

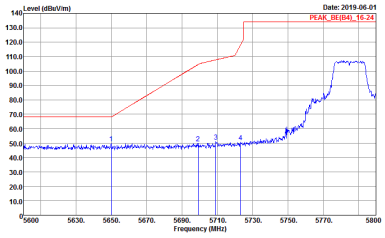
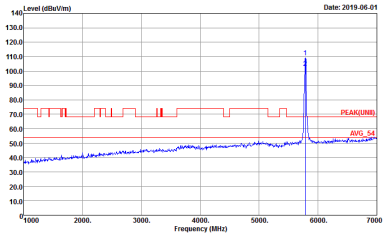
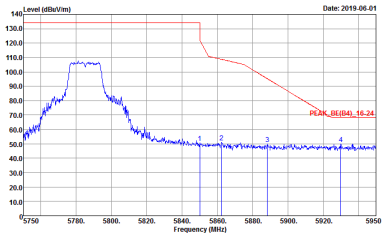
Band 4 5725~5850MHz

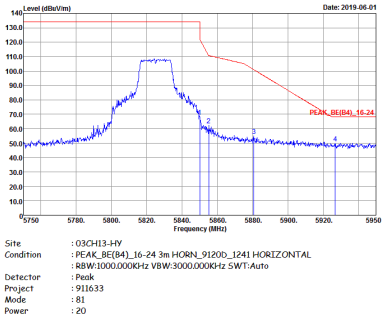
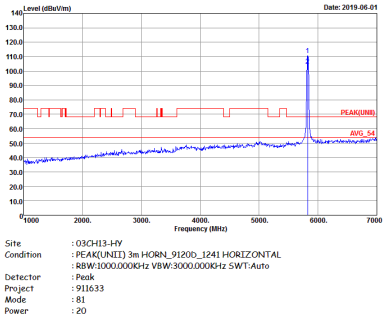
WIFI 802.11ac VHT20 (Band Edge @ 3m)

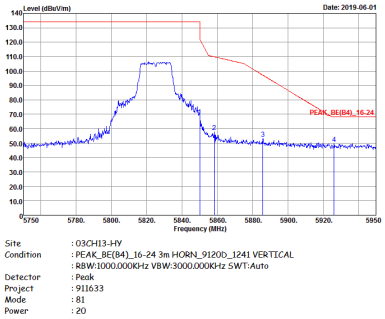
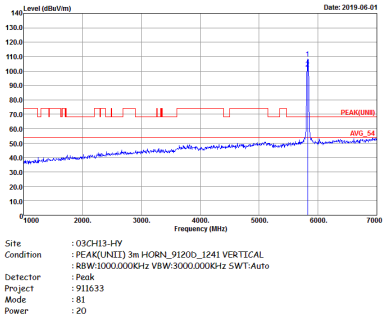
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 79 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 79 Power : 20.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 79 Power : 20.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 79 Power : 20.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20	Left blank

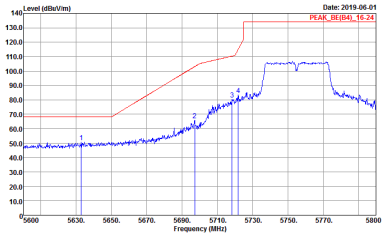
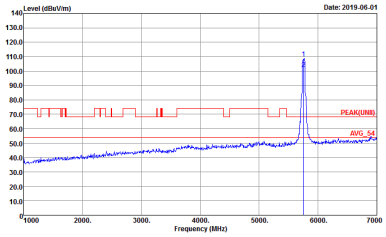
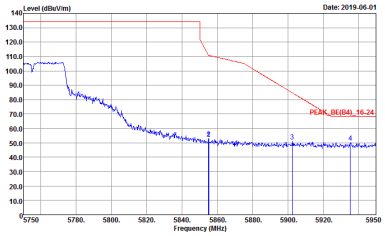
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 80 Power : 20	Left blank

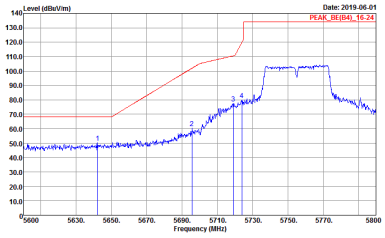
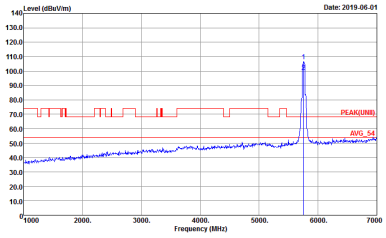
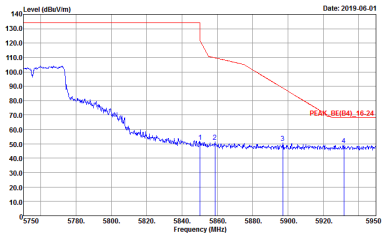
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

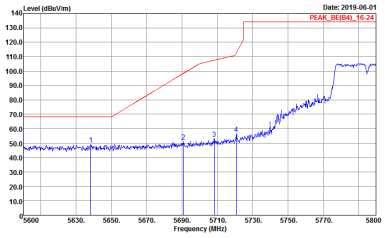
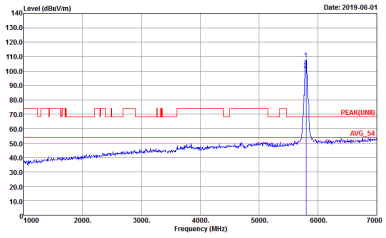
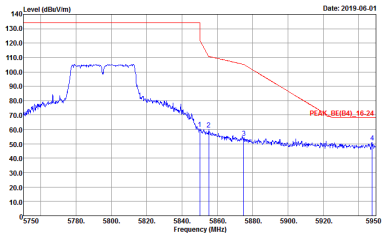
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 81 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 81 Power : 20

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 82 Power : 20	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 83 Power : 19.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 83 Power : 19.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 911633 Mode : 83 Power : 19.5	Left blank