FCC RADIO TEST REPORT

FCC ID	**:**	**UZ7WT63B0**
Equipment	**:**	**WT6300 Wearable Computer**
Brand Name	**:**	**Zebra**
Model Name	**:**	**WT63B0**
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 Aug. 12, 2020 and testing was started from Aug. 17, 2020 and completed on Sep. 23, 2020. 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 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.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR072944F	01	Initial issue of report	Sep. 29, 2020

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 1.35 dB at 5649.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.49 dB at 13.560 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: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	WT6300 Wearable Computer
Brand Name	Zebra
Model Name	WT63B0
FCC ID	UZ7WT63B0
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV2.5
SW Version	10-14-10.00-QC-U01-PRD-HEL-04
OS Version	Android 10
FW Version	FUSION_QA_2_1.3.0.006_Q
MFD	29JUL20
EUT Stage	Engineering Sample

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

Specification of Accessories				
AC Adapter 1	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
AC Adapter 2	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0WW
AC Adapter 3	**Brand Name**	Zebra	**Part Number**	PWR-BUA5V16W0WW
Battery 1	**Brand Name**	Zebra	**Part Number**	BT000262A01
Battery 2	**Brand Name**	Zebra	**Part Number**	BT-000262-50
Battery 3	**Brand Name**	Zebra	**Part Number**	BT-000362-00
AC Power Cable	**Brand Name**	Zebra	**Part Number**	50-16000-182R
DC Cable	**Brand Name**	Zebra	**Part Number**	CBL-DC-383A1-01
USB Cable	**Brand Name**	Zebra	**Part Number**	CBL-NGWT-USBCHG-01
Vibrating Cable	**Brand Name**	Zebra	**Part Number**	CBL-NGWT-HDVBAP-01
Audio Cable 1	**Brand Name**	Zebra	**Part Number**	CBL-HS2100-12S1-01
Audio Cable 2	**Brand Name**	Zebra	**Part Number**	CBL-HS3100-CUC1-01
Keyboard	**Brand Name**	Zebra	**Part Number**	KYPD-WT6XANFASM-01
Scanner 1	**Brand Name**	Zebra	**Part Number**	RS51B0-TBSNWR
Scanner 2	**Brand Name**	Zebra	**Part Number**	RS60B0-SRSTWR
Scanner 3	**Brand Name**	Zebra	**Part Number**	RS4000-HPCSWR
Scanner 4	**Brand Name**	Zebra	**Part Number**	RS5000-LCFSWR
Earphone 1	**Brand Name**	Zebra	**Part Number**	HS2100-OTH
Earphone 2	**Brand Name**	Zebra	**Part Number**	HS3100-OTH
Wrist Mount	**Brand Name**	Zebra	**Part Number**	SG-NGWT-WRMTS-01
Wrist Mount	**Brand Name**	Zebra	**Part Number**	SG-NGWT-WRMTL-01
Wrist Mount	**Brand Name**	Zebra	**Part Number**	SG-NGWT-WRMTXL-01
Hip Mount	**Brand Name**	Zebra	**Part Number**	SG-NGWT-HPMNT-01

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna <CDD Modes>	**<Ant. 1>** 802.11a : 21.40 dBm / 0.1380 W 802.11n HT20 : 21.30 dBm / 0.1349 W 802.11n HT40 : 21.20 dBm / 0.1318 W 802.11ac VHT20: 21.40 dBm / 0.1380 W 802.11ac VHT40: 21.30 dBm / 0.1349 W 802.11ac VHT80: 21.40 dBm / 0.1380 W **<Ant. 2>** 802.11a : 21.40 dBm / 0.1380 W 802.11n HT20 : 21.20 dBm / 0.1318 W 802.11n HT40 : 21.20 dBm / 0.1318 W 802.11ac VHT20: 21.30 dBm / 0.1349 W 802.11ac VHT40: 21.30 dBm / 0.1349 W 802.11ac VHT80: 21.40 dBm / 0.1380 W **MIMO <Ant. 1 + 2>** 802.11a : 24.26 dBm / 0.2667 W 802.11n HT20 : 24.21 dBm / 0.2636 W 802.11n HT40 : 24.12 dBm / 0.2582 W 802.11ac VHT20: 24.31 dBm / 0.2698 W 802.11ac VHT40: 24.22 dBm / 0.2642 W 802.11ac VHT80: 24.17 dBm / 0.2612 W
Maximum Output Power <TXBF Modes>	**MIMO <Ant. 1 + 2>** 802.11ac VHT20: 22.87 dBm / 0.1936 W 802.11ac VHT40: 23.98 dBm / 0.2500 W 802.11ac VHT80: 22.81 dBm / 0.1910 W

<table>
<tr><th colspan="2">Product Specification subjective to this standard</th></tr>
<tr><td>99% Occupied Bandwidth
<CDD Modes></td><td><Ant. 1>
802.11a : 23.20 MHz
802.11ac VHT20 : 20.85 MHz
802.11ac VHT40 : 37.10 MHz
802.11ac VHT80 : 77.64 MHz
<Ant. 2>
802.11a : 22.80 MHz
802.11ac VHT20 : 19.75 MHz
802.11ac VHT40 : 37.00 MHz
802.11ac VHT80 : 77.40 MHz
MIMO <Ant. 1>
802.11a : 23.25 MHz
802.11ac VHT20 : 23.45 MHz
802.11ac VHT40 : 36.80 MHz
802.11ac VHT80 : 77.52 MHz
MIMO <Ant. 2>
802.11a : 22.20 MHz
802.11ac VHT20 : 22.05 MHz
802.11ac VHT40 : 37.30 MHz
802.11ac VHT80 : 77.88 MHz</td></tr>
<tr><td>99% Occupied Bandwidth
<TXBF Modes></td><td>MIMO <Ant. 1>
802.11ac VHT20 : 17.95 MHz
802.11ac VHT40 : 36.70 MHz
802.11ac VHT80 : 77.04 MHz
MIMO <Ant. 2>
802.11ac VHT20 : 21.90 MHz
802.11ac VHT40 : 39.40 MHz
802.11ac VHT80 : 77.40 MHz</td></tr>
<tr><td>Antenna Type / Gain</td><td>Ant. 1: Patch Antenna with gain 0.3 dBi
Ant. 2: Patch Antenna with gain 2.6 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><th></th><th>Ant. 1</th><th>Ant. 2</th></tr>
<tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr>
<tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ac TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

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. EMC & Wireless Communications Laboratory	
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. EMC & Wireless Communications Laboratory
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.**
	03CH16-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. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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 (CDD Mode: Y plane; TXBF Mode: Y plane with notebook) 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.

CDD 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	MCS6

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC On + Color Bar + Battery 1 + Scanner 1 + Earphone 1 + Audio Cable 1 + USB Cable (Data Link with Notebook) + AC Adapter 3

Remark:

1. For Radiated Test Cases, the tests were performed with Adapter 1, Battery 1.
2. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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	-

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

<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	21.20	CH 157	21.30	21.30	21.30	21.20	21.00	21.00	21.00
CH 157	5785	**21.40**								
CH 165	5825	**21.40**								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**21.30**	CH 149	21.20	21.20	21.20	21.00	21.00	21.00	21.00
CH 157	5785	21.20								
CH 165	5825	21.20								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	21.10	CH 159	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CH 159	5795	**21.20**								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**21.40**	CH 149	21.30	21.30	21.30	21.10	21.10	21.10	21.10	21.00
CH 157	5785	21.30									
CH 165	5825	21.30									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	21.20	CH 159	21.20	21.20	21.20	21.20	21.20	21.20	21.20	21.10	21.10
CH 159	5795	**21.30**										

802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**21.40**	CH 155	21.20	21.20	21.10	21.30	21.30	21.30	21.30	21.30	21.30

<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	21.20	CH 157	21.30	21.30	21.30	21.30	21.30	21.20	21.20
CH 157	5785	**21.40**								
CH 165	5825	21.20								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**21.20**	CH 149	21.10	21.00	21.10	21.10	21.10	21.10	21.10
CH 157	5785	**21.20**								
CH 165	5825	21.00								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	**21.20**	CH 151	21.10	21.10	21.10	21.10	21.10	21.10	21.10
CH 159	5795	**21.20**								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**21.30**	CH 149	21.20	21.10	21.20	21.20	21.20	21.20	21.20	21.20
CH 157	5785	**21.30**									
CH 165	5825	21.10									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**21.30**	CH 151	21.20	21.20	21.20	21.20	21.20	21.20	21.20	21.10	21.10
CH 159	5795	**21.30**										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**21.40**	CH 155	21.30	21.30	21.10	21.10	21.10	21.10	21.10	21.10	21.10

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	23.93	CH 165	24.16	24.16	24.11	24.16	24.11	24.06	24.06
CH 157	5785	24.07								
CH 165	5825	**24.26**								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	24.11	CH 165	24.11	24.11	24.01	24.01	24.01	24.01	24.01
CH 157	5785	24.16								
CH 165	5825	**24.21**								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	24.07	CH 159	23.72	23.72	23.72	24.02	24.02	24.02	24.02
CH 159	5795	**24.12**								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	24.21	CH 165	24.21	24.21	24.11	24.11	24.11	24.11	24.11	24.01
CH 157	5785	24.26									
CH 165	5825	**24.31**									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	24.17	CH 159	23.82	23.82	23.82	24.12	24.12	24.12	24.12	24.12	24.12
CH 159	5795	**24.22**										

802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**24.17**	CH 155	23.97	23.86	23.81	23.91	23.91	23.91	23.91	23.91	23.91

<TXBF Mode>

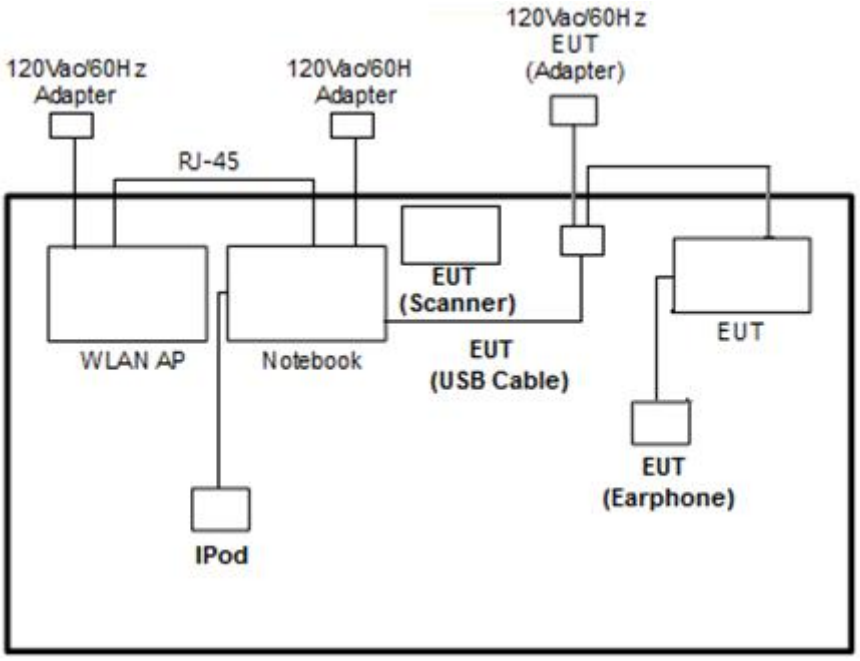
802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	22.55	CH 157	22.77	22.77	22.67	22.57	22.71	22.71	22.71	22.61
CH 157	5785	**22.87**									
CH 165	5825	22.56									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**23.98**	CH 151	23.88	23.88	23.88	23.78	23.78	23.88	23.78	23.88	23.94
CH 159	5795	23.67										

802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**22.81**	CH 155	22.71	22.61	22.61	22.61	22.71	22.61	22.51	22.61	22.51

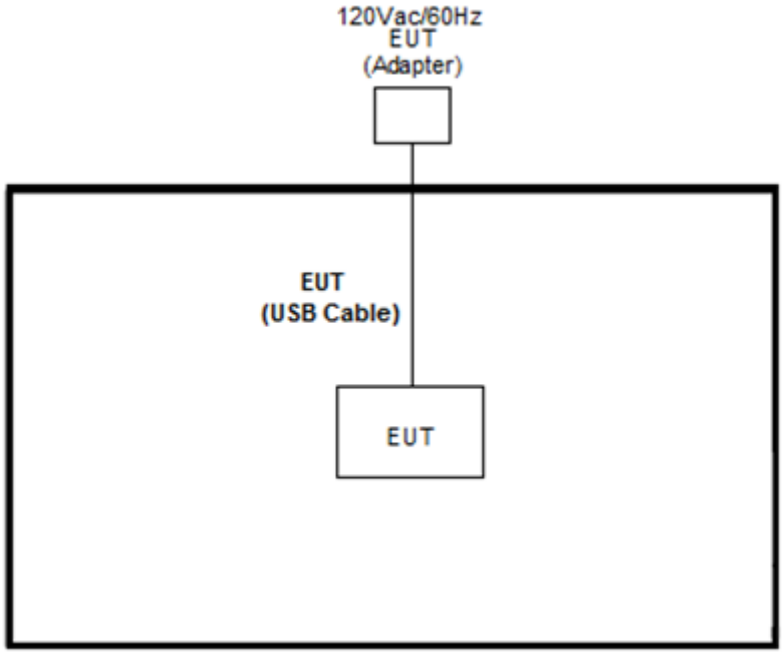
2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>

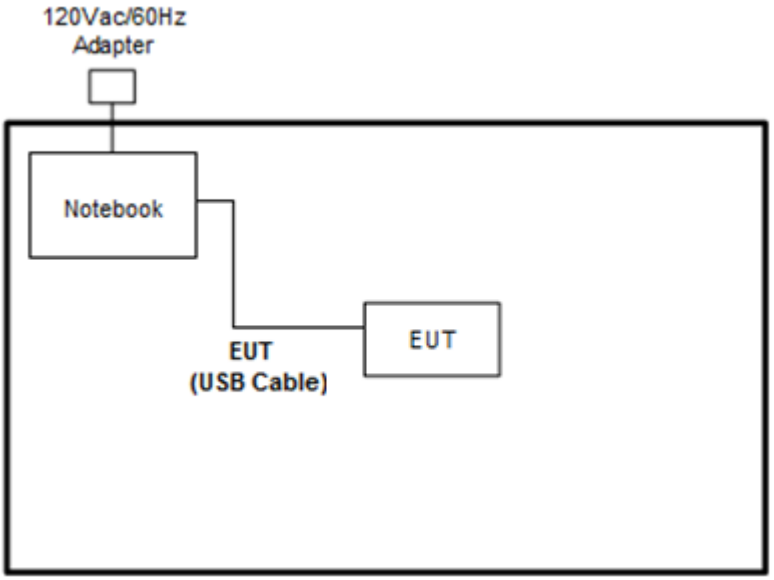


<WLAN Tx Mode>

<CDD Mode>



<TXBF Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Lenovo	L570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4.0.00067” 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.

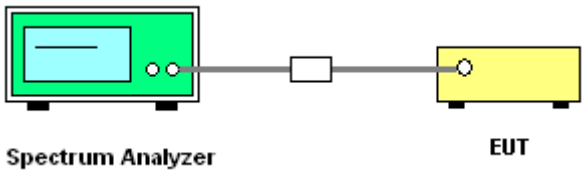
3.1.2 Measuring Instruments

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



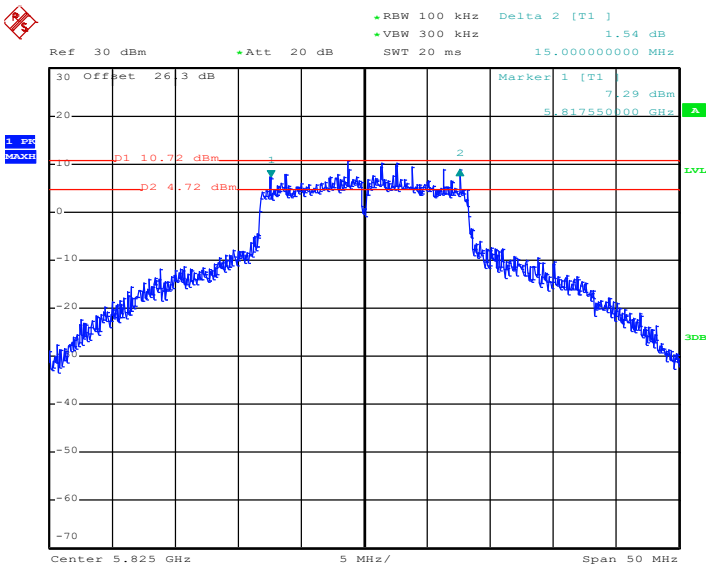
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<CDD Mode>

Test Engineer :	Mina Liu	Temperature :	23.7~23.9℃
		Relative Humidity :	53.7~54.3%

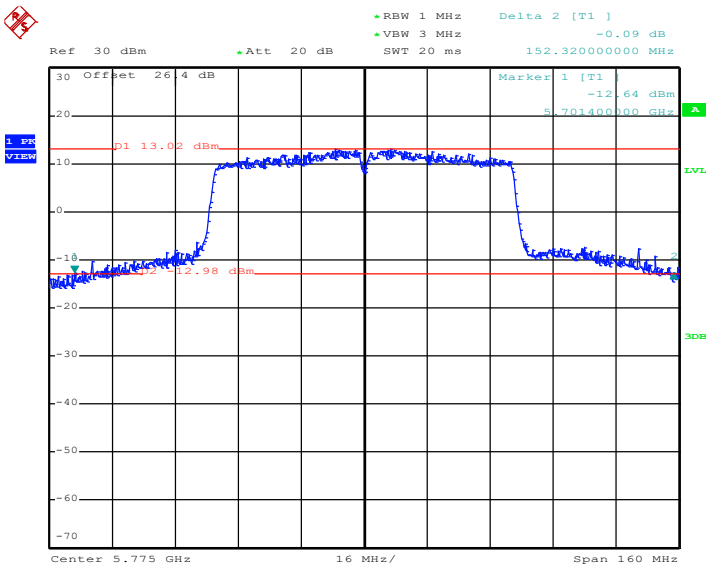
Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	19.00	22.80	34.30	34.00	15.65	15.40	0.5	11a
11a	6Mbps	1	157	5785	22.20	18.05	33.90	33.60	15.55	15.65	0.5	11a
11a	6Mbps	1	165	5825	23.20	22.75	39.70	39.20	15.00	15.35	0.5	11a
VHT20	MCS0	1	149	5745	18.10	17.95	28.60	26.75	15.65	15.65	0.5	VHT20
VHT20	MCS0	1	157	5785	18.15	18.00	27.95	27.80	15.65	15.65	0.5	VHT20
VHT20	MCS0	1	165	5825	20.85	19.75	38.60	36.65	15.85	16.05	0.5	VHT20
VHT40	MCS0	1	151	5755	37.10	36.90	62.73	54.90	34.83	35.64	0.5	VHT40
VHT40	MCS0	1	159	5795	37.10	37.00	61.47	65.07	35.01	35.73	0.5	VHT40
VHT80	MCS0	1	155	5775	77.64	77.40	**143.84**	128.96	73.92	73.92	0.5	VHT80
11a	6Mbps	2	149	5745	19.35	22.20	39.70	38.65	15.25	16.30	0.5	11a
11a	6Mbps	2	157	5785	19.75	19.85	35.00	37.75	15.10	15.85	0.5	11a
11a	6Mbps	2	165	5825	23.25	21.60	40.15	38.45	15.45	15.75	0.5	11a
VHT20	MCS0	2	149	5745	18.10	18.30	27.75	31.70	16.05	15.90	0.5	VHT20
VHT20	MCS0	2	157	5785	18.00	18.10	27.15	28.80	15.20	16.10	0.5	VHT20
VHT20	MCS0	2	165	5825	23.45	22.05	36.35	38.95	17.10	15.90	0.5	VHT20
VHT40	MCS0	2	151	5755	36.70	37.20	42.12	68.58	35.55	35.01	0.5	VHT40
VHT40	MCS0	2	159	5795	36.80	37.30	62.64	81.81	35.82	34.92	0.5	VHT40
VHT80	MCS0	2	155	5775	77.52	77.88	126.88	**152.32**	73.76	75.20	0.5	VHT80

Minimum 6dB Bandwidth



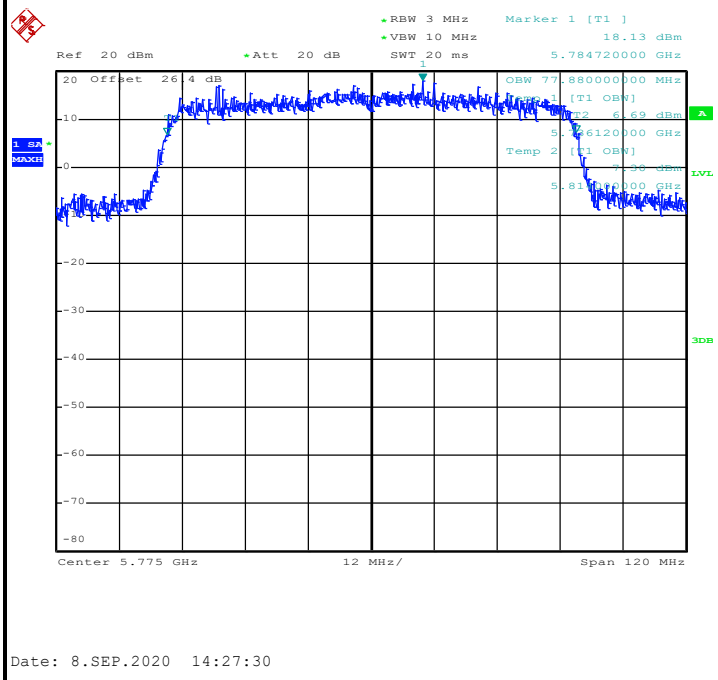
Date: 8.SEP.2020 09:58:07

Maximum 26dB Bandwidth



Date: 8.SEP.2020 14:25:17

Maximum 99% Occupied Bandwidth



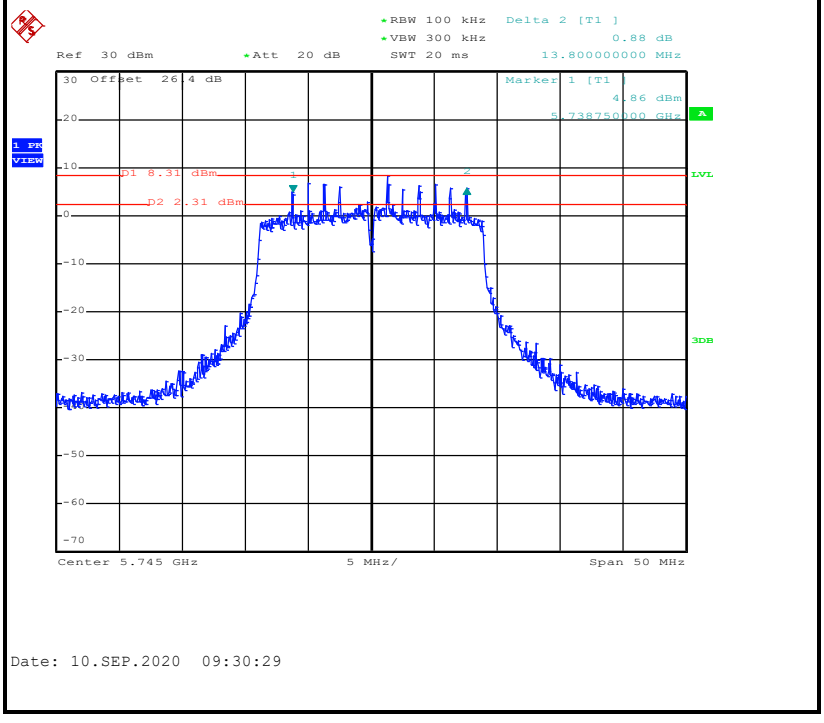
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Mode>

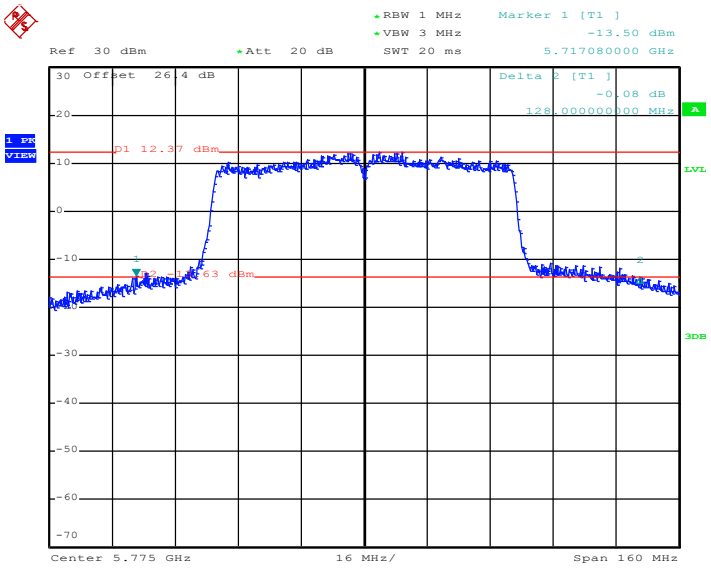
Test Engineer :	Mina Liu	Temperature :	23.6~23.7℃
		Relative Humidity :	53.6~53.9%

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	17.75	20.40	23.80	31.00	13.80	17.55	0.5	Pass
VHT20	MCS0	2	157	5785	17.95	18.10	26.95	27.55	15.40	16.25	0.5	Pass
VHT20	MCS0	2	165	5825	17.80	21.90	24.40	32.75	15.00	17.60	0.5	Pass
VHT40	MCS0	2	151	5755	36.70	39.30	63.48	79.32	35.01	36.00	0.5	Pass
VHT40	MCS0	2	159	5795	30.70	39.40	40.80	84.12	35.01	36.36	0.5	Pass
VHT80	MCS0	2	155	5775	77.04	77.40	105.44	**128.00**	69.76	72.00	0.5	Pass

Minimum 6dB Bandwidth

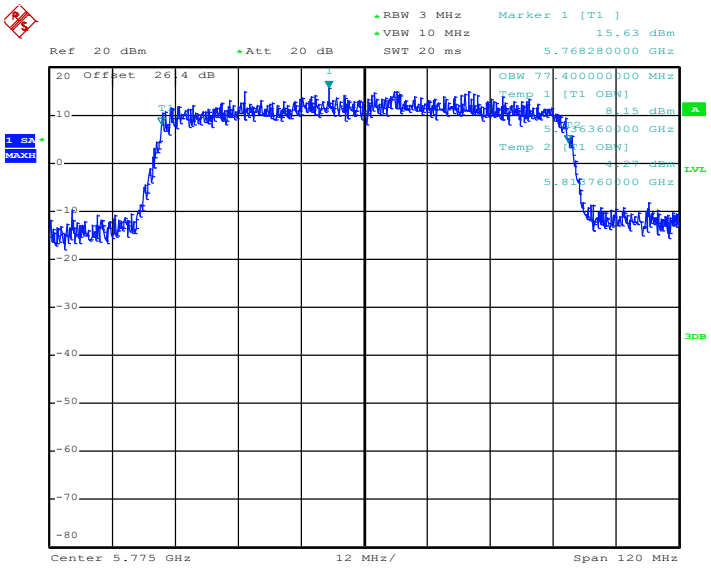


Maximum 26dB Bandwidth



Date: 10.SEP.2020 11:19:58

Maximum 99% Occupied Bandwidth



Date: 10.SEP.2020 11:21:51

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.

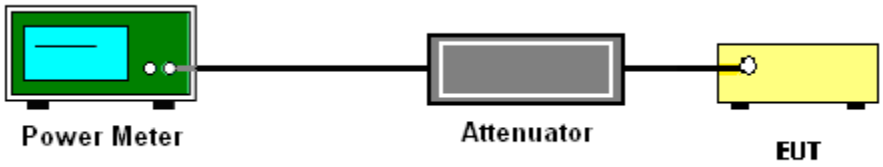
3.2.3 Test Procedures

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

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 :	Mina Liu	Temperature :	23.7~23.9℃
		Relative Humidity :	53.7~54.3%

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	21.20	21.20	-	30.00	30.00	0.30	2.60	Pass
11a	6Mbps	1	157	5785	21.40	21.40		30.00	30.00	0.30	2.60	Pass
11a	6Mbps	1	165	5825	21.40	21.20		30.00	30.00	0.30	2.60	Pass
HT20	MCS0	1	149	5745	21.30	21.20		30.00	30.00	0.30	2.60	Pass
HT20	MCS0	1	157	5785	21.20	21.20		30.00	30.00	0.30	2.60	Pass
HT20	MCS0	1	165	5825	21.20	21.00		30.00	30.00	0.30	2.60	Pass
HT40	MCS0	1	151	5755	21.10	21.20		30.00	30.00	0.30	2.60	Pass
HT40	MCS0	1	159	5795	21.20	21.20		30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	149	5745	21.40	21.30		30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	157	5785	21.30	21.30		30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	165	5825	21.30	21.10		30.00	30.00	0.30	2.60	Pass
VHT40	MCS0	1	151	5755	21.20	21.30		30.00	30.00	0.30	2.60	Pass
VHT40	MCS0	1	159	5795	21.30	21.30		30.00	30.00	0.30	2.60	Pass
VHT80	MCS0	1	155	5775	21.40	21.40		30.00	30.00	0.30	2.60	Pass
11a	6Mbps	2	149	5745	20.50	21.30	23.93	30.00		2.60		Pass
11a	6Mbps	2	157	5785	20.70	21.40	24.07	30.00		2.60		Pass
11a	6Mbps	2	165	5825	21.10	21.40	24.26	30.00		2.60		Pass
HT20	MCS0	2	149	5745	20.90	21.30	24.11	30.00		2.60		Pass
HT20	MCS0	2	157	5785	21.00	21.30	24.16	30.00		2.60		Pass
HT20	MCS0	2	165	5825	21.10	21.30	24.21	30.00		2.60		Pass
HT40	MCS0	2	151	5755	20.80	21.30	24.07	30.00		2.60		Pass
HT40	MCS0	2	159	5795	20.80	21.40	24.12	30.00		2.60		Pass
VHT20	MCS0	2	149	5745	21.00	21.40	24.21	30.00		2.60		Pass
VHT20	MCS0	2	157	5785	21.10	21.40	24.26	30.00		2.60		Pass
VHT20	MCS0	2	165	5825	21.20	21.40	**24.31**	30.00		2.60		Pass
VHT40	MCS0	2	151	5755	20.90	21.40	24.17	30.00		2.60		Pass
VHT40	MCS0	2	159	5795	20.90	21.50	24.22	30.00		2.60		Pass
VHT80	MCS0	2	155	5775	20.90	21.40	24.17	30.00		2.60		Pass

<TXBF Mode>

Test Engineer :	Mina Liu	**Temperature :**	23.6~23.7℃
		Relative Humidity :	53.6~53.9%

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	18.90	20.10	22.55	30.00		4.54		Pass
VHT20	MCS0	2	157	5785	19.60	20.10	22.87	30.00		4.54		Pass
VHT20	MCS0	2	165	5825	19.60	19.50	22.56	30.00		4.54		Pass
VHT40	MCS0	2	151	5755	20.50	21.40	**23.98**	30.00		4.54		Pass
VHT40	MCS0	2	159	5795	20.40	20.90	23.67	30.00		4.54		Pass
VHT80	MCS6	2	155	5775	19.90	19.70	22.81	30.00		4.54		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

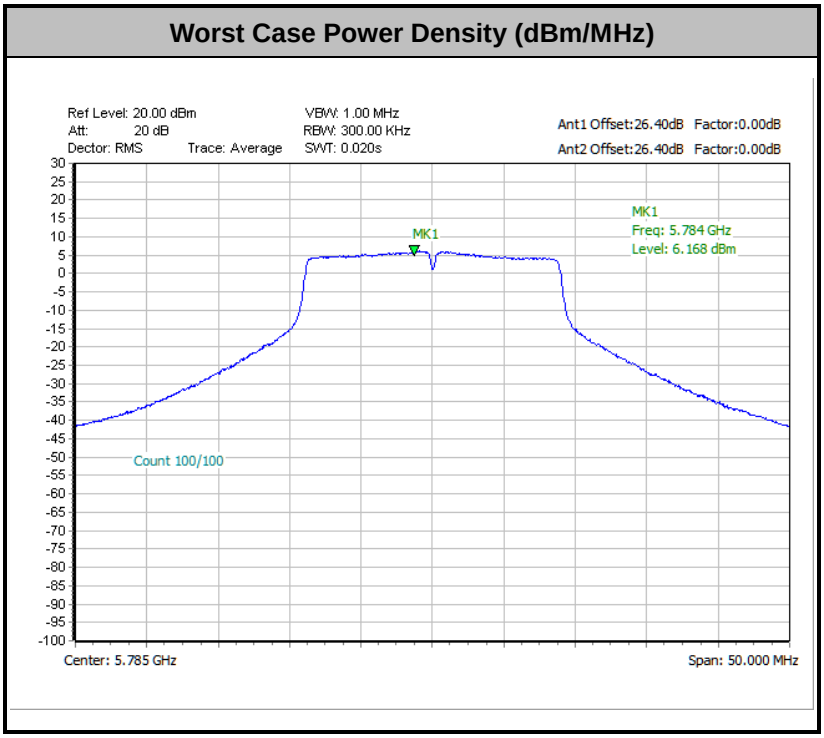
3.3.5 Test Result of Power Spectral Density

<CDD Mode>

Test Engineer :	Mina Liu	**Temperature :**	23.7~23.9℃
		Relative Humidity :	53.7~54.3%

Band IV single antenna																
Mod.	**Data Rate**	**NTX**	**CH.**	**Freq. (MHz)**	**Duty Factor (dB)**		**10log (500kHz /RBW) Factor (dB)**		**Average Power Density with Duty Factor (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	0.08	0.09	2.22	2.22	7.36	7.45		30.00	30.00	0.30	2.60	Pass
11a	6Mbps	1	157	5785	0.08	0.09	2.22	2.22	7.59	7.39		30.00	30.00	0.30	2.60	Pass
11a	6Mbps	1	165	5825	0.08	0.09	2.22	2.22	7.04	7.53		30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	149	5745	0.08	0.08	2.22	2.22	7.76	7.48		30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	157	5785	0.08	0.08	2.22	2.22	7.71	7.71	-	30.00	30.00	0.30	2.60	Pass
VHT20	MCS0	1	165	5825	0.08	0.08	2.22	2.22	7.35	7.25		30.00	30.00	0.30	2.60	Pass
VHT40	MCS0	1	151	5755	0.16	0.16	2.22	2.22	3.84	3.89		30.00	30.00	0.30	2.60	Pass
VHT40	MCS0	1	159	5795	0.16	0.16	2.22	2.22	3.91	3.76		30.00	30.00	0.30	2.60	Pass
VHT80	MCS0	1	155	5775	0.37	0.37	2.22	2.22	1.66	0.72		30.00	30.00	0.30	2.60	Pass
1a	6Mbps	2	149	5745	0.08	0.07	2.22		7.55	7.74	10.75	30.00		4.54		Pass
11a	6Mbps	2	157	5785	0.08	0.07	2.22		7.05	7.44	10.45	30.00		4.54		Pass
11a	6Mbps	2	165	5825	0.08	0.07	2.22		7.33	7.60	10.61	30.00		4.54		Pass
VHT20	MCS0	2	149	5745	0.09	0.08	2.22		7.11	7.57	10.58	30.00		4.54		Pass
VHT20	MCS0	2	157	5785	0.09	0.08	2.22		7.51	7.92	**10.93**	30.00		4.54		Pass
VHT20	MCS0	2	165	5825	0.09	0.08	2.22		7.26	7.38	10.39	30.00		4.54		Pass
VHT40	MCS0	2	151	5755	0.16	0.16	2.22		4.16	4.74	7.75	30.00		4.54		Pass
VHT40	MCS0	2	159	5795	0.16	0.16	2.22		5.24	4.95	8.25	30.00		4.54		Pass
VHT80	MCS0	2	155	5775	0.37	0.36	2.22		1.95	2.37	5.38	30.00		4.54		Pass

Worst Case Power Density (dBm/MHz)

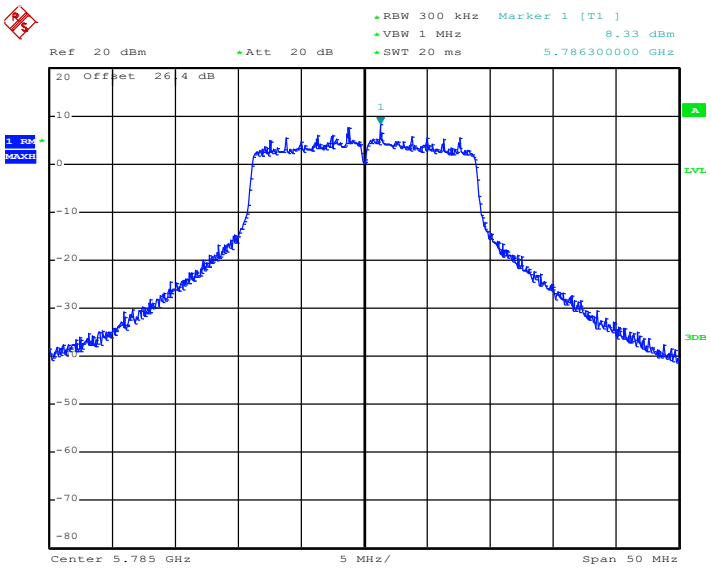


<TXBF Mode>

Test Engineer :	Mina Liu	**Temperature :**	23.6~23.7℃
		Relative Humidity :	53.6~53.9%

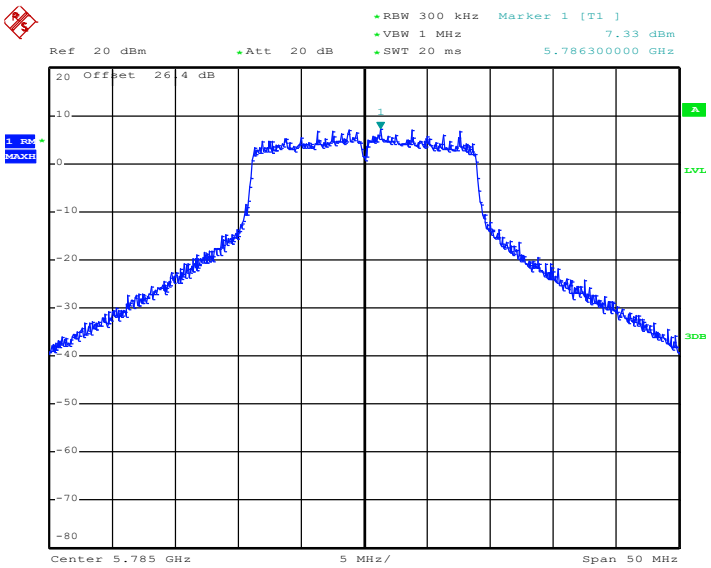
Band IV MIMO													
Mod.	**Data Rate**	**NTX**	**CH.**	**Freq. (MHz)**	**10log (500kHz /RBW) Factor (dB)**		**Average Power Density (dBm/500kHz)**			**Average PSD Limit (dBm/500kHz)**		**DG (dBi)**		**Pass /Fail**
					Ant 1	**Ant 2**	**Ant 1**	**Ant 2**	**SUM**	**Ant 1**	**Ant 2**	**Ant 1**	**Ant 2**	
VHT20	MCS0	2	149	5745	2.22		8.48	9.05	12.06	30.00		4.54		Pass
VHT20	MCS0	2	157	5785	2.22		10.55	9.55	**13.56**	30.00		4.54		Pass
VHT20	MCS0	2	165	5825	2.22		9.35	8.68	12.36	30.00		4.54		Pass
VHT40	MCS0	2	151	5755	2.22		7.50	8.46	11.47	30.00		4.54		Pass
VHT40	MCS0	2	159	5795	2.22		8.99	8.65	12.00	30.00		4.54		Pass
VHT80	MCS0	2	155	5775	2.22		5.74	5.95	8.96	30.00		4.54		Pass

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



Date: 9.SEP.2020 17:27:35

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



Date: 9.SEP.2020 17:28:32

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) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

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

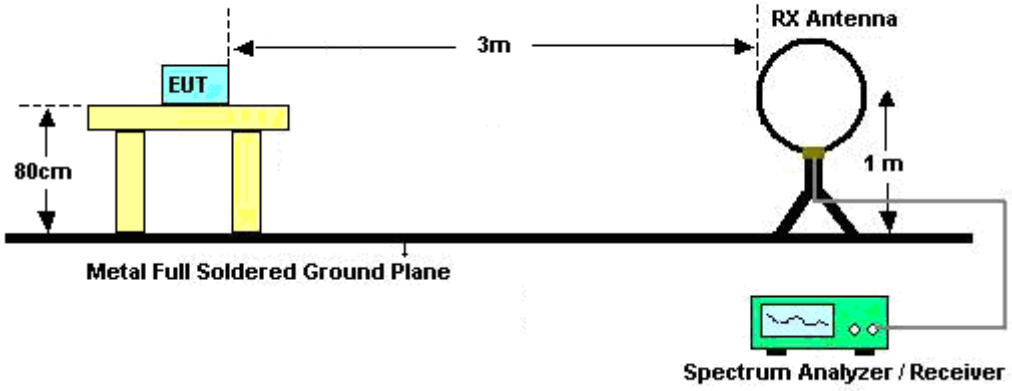
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

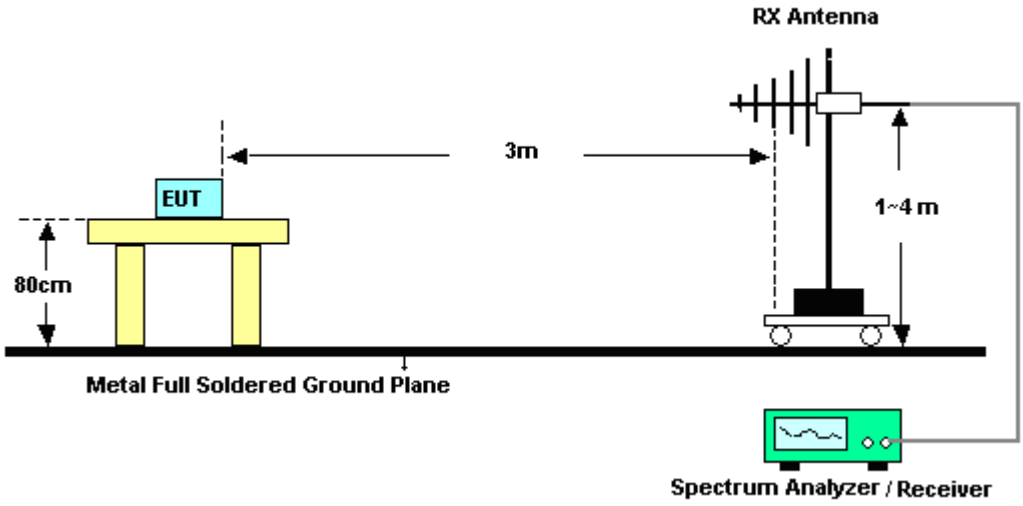
3.4.4 Test Setup

For radiated emissions below 30MHz

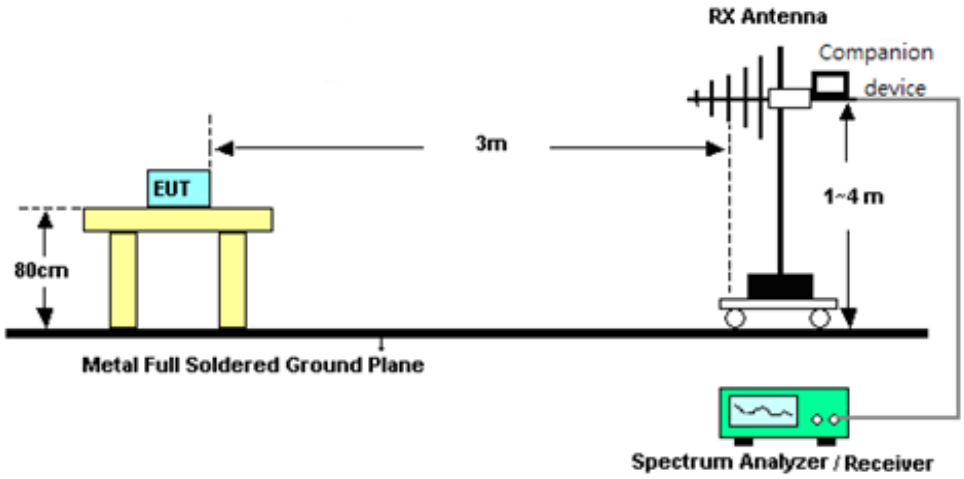


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

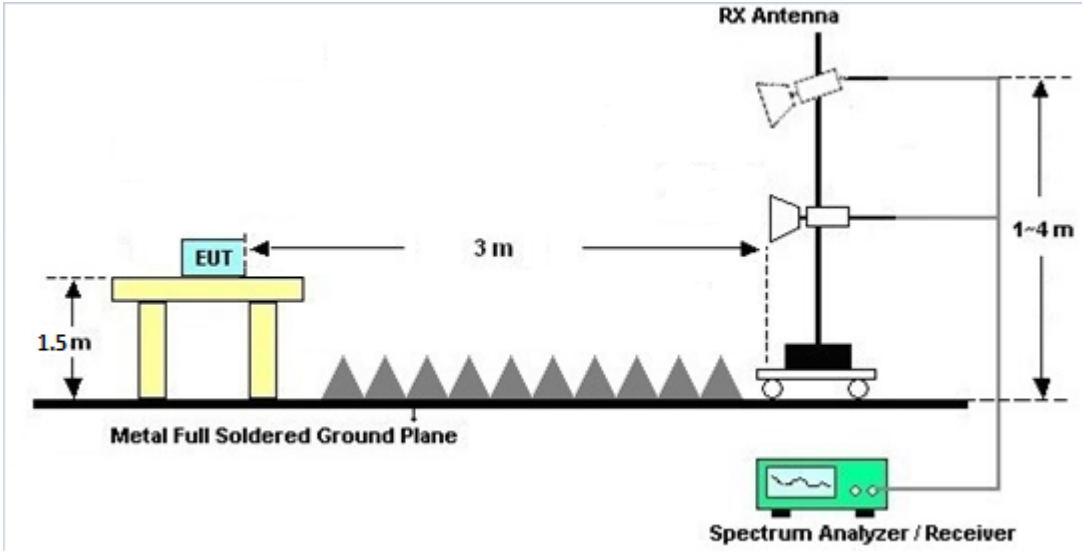


<TXBF Modes>

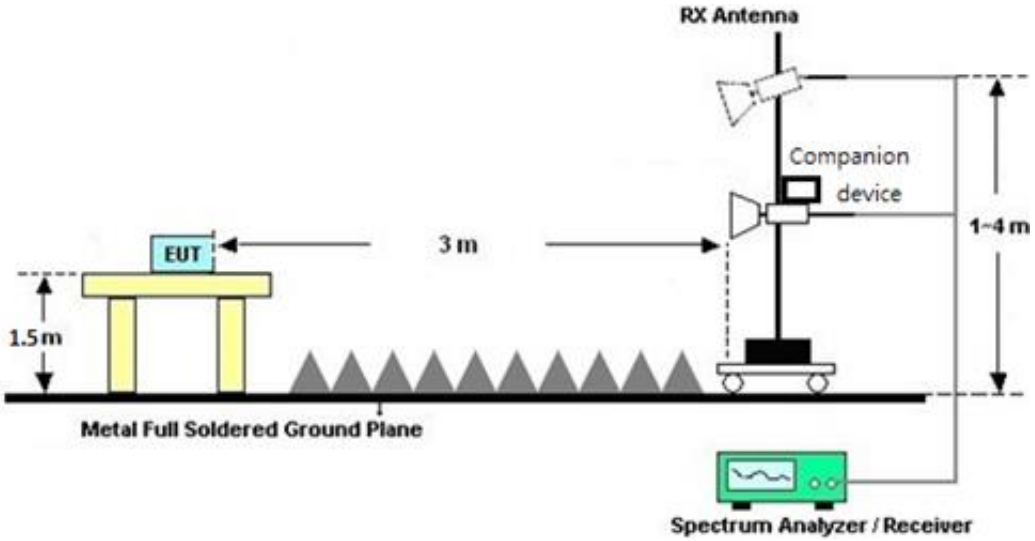


For radiated emissions from 1GHz to 18GHz

<CDD Mode>

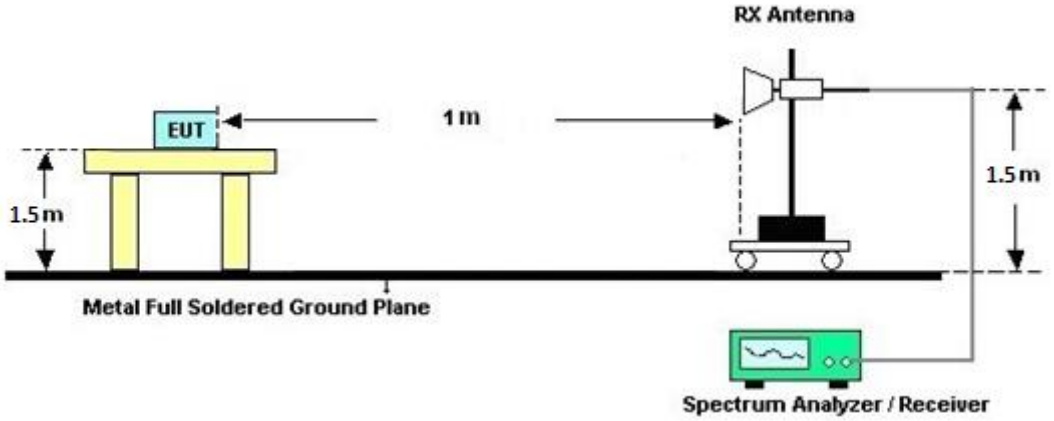


<TXBF Modes>

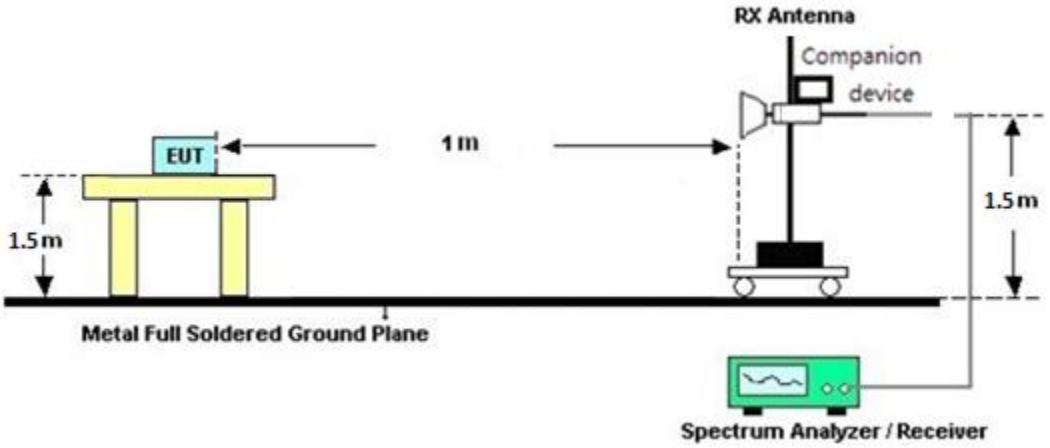


For radiated emissions above 18GHz

<CDD Modes>



<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.

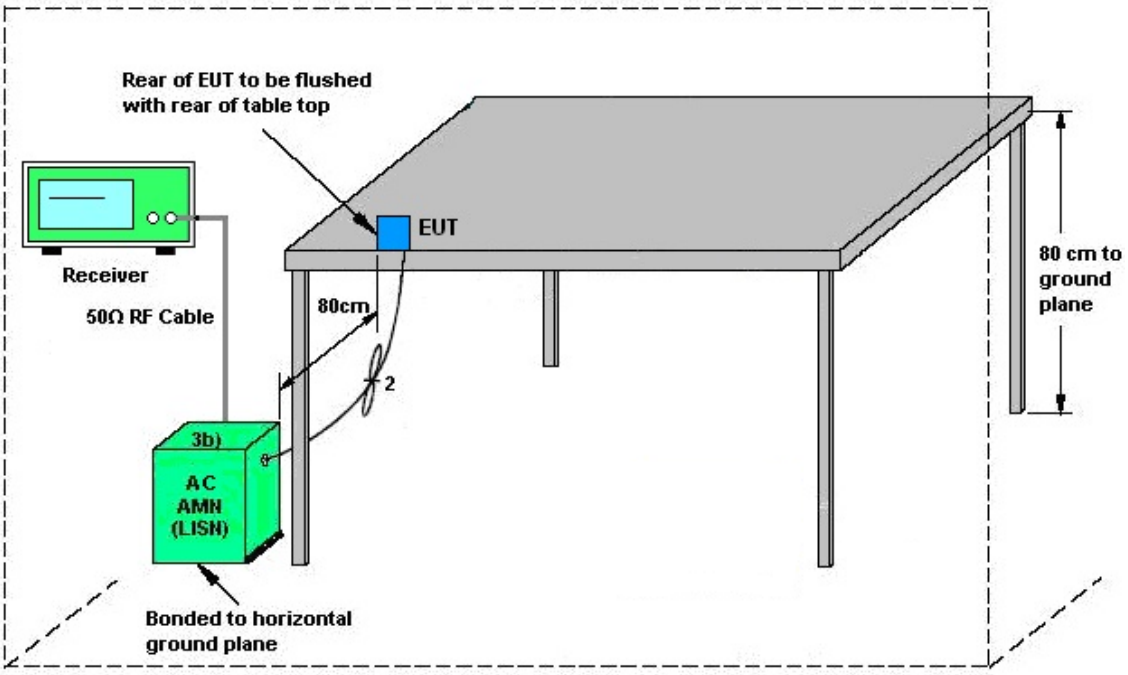
3.5.2 Measuring Instruments

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>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	0.30	2.60	2.60	4.54	0.00	0.00

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.

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	0.30	2.60	4.54	4.54	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Aug. 17, 2020~ Sep. 17, 2020	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 12, 2019	Aug. 17, 2020~ Sep. 17, 2020	Oct. 11, 2020	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz~40GHz	Dec. 10, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 09, 2020	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Oct. 01, 2019	Aug. 17, 2020~ Sep. 17, 2020	Sep. 30, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 19, 2019	Aug. 17, 2020~ Sep. 17, 2020	Sep. 18, 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55006	1GHz~18GHz	May 07, 2020	Aug. 17, 2020~ Sep. 17, 2020	May 06, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 13, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 12, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 11, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 05, 2019	Aug. 17, 2020~ Sep. 17, 2020	Dec. 04, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 30, 2019	Aug. 17, 2020~ Aug. 28, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 29, 2020	Aug. 29, 2020~ Sep. 17, 2020	Aug. 28, 2021	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP162965	N/A	Oct. 25, 2019	Aug. 17, 2020~ Sep. 17, 2020	Oct. 24, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 17, 2020~ Sep. 17, 2020	N/A	Radiation (03CH16-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 25, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 25, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Aug. 25, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Aug. 25, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 25, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 25, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 25, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 25, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Aug. 17, 2020~ Sep. 23, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Aug. 17, 2020~ Sep. 23, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Aug. 17, 2020~ Sep. 23, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Aug. 17, 2020~ Sep. 23, 2020	Mar. 16, 2021	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.5**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7**

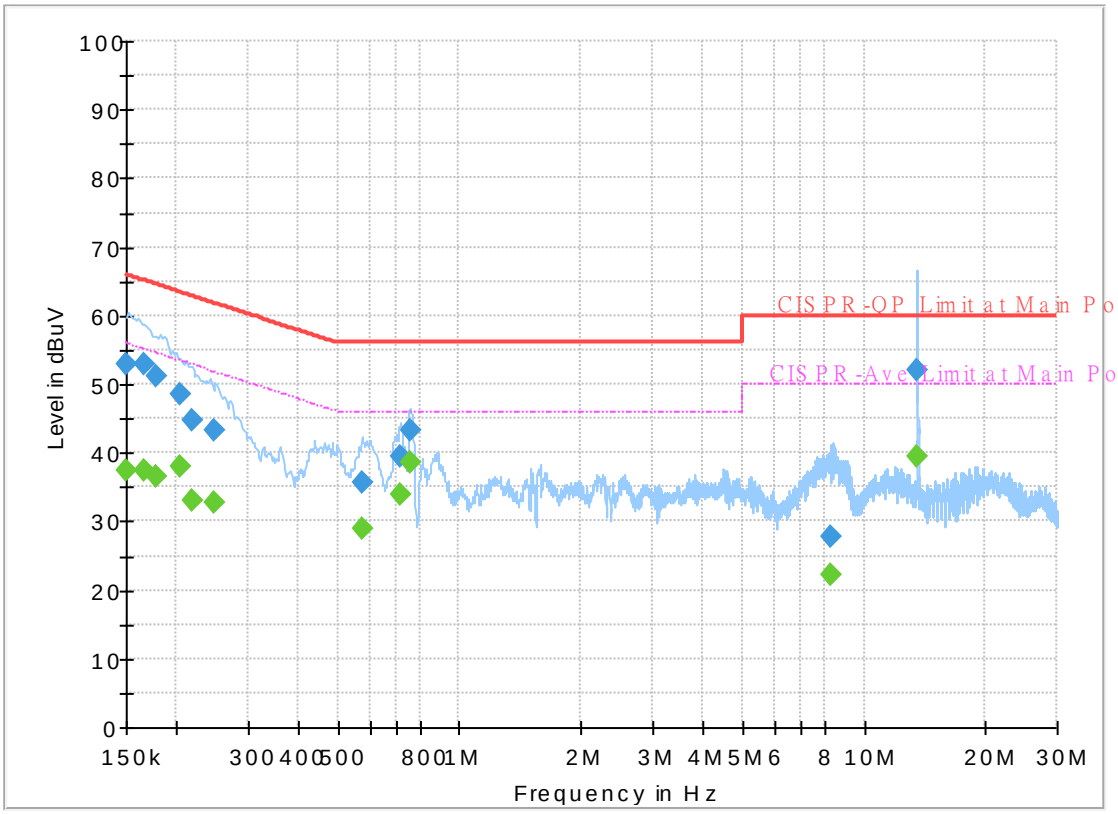
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	24~26℃
		Relative Humidity :	42~50%

EUT Information

Report NO :	072944
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

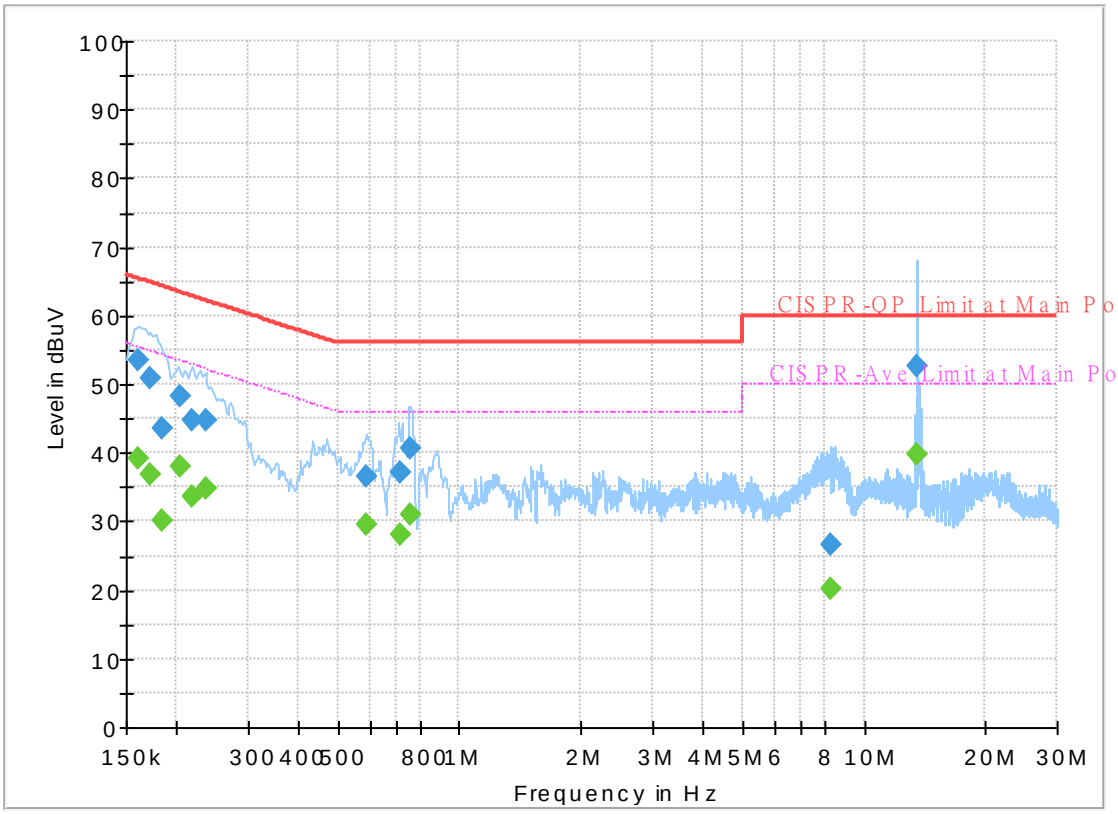
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.44	56.00	18.56	L1	OFF	19.5
0.150000	52.86	---	66.00	13.14	L1	OFF	19.5
0.166020	---	37.55	55.16	17.61	L1	OFF	19.5
0.166020	52.94	---	65.16	12.22	L1	OFF	19.5
0.177000	---	36.42	54.63	18.21	L1	OFF	19.5
0.177000	51.15	---	64.63	13.48	L1	OFF	19.5
0.204000	---	38.02	53.45	15.43	L1	OFF	19.5
0.204000	48.65	---	63.45	14.80	L1	OFF	19.5
0.218580	---	33.05	52.87	19.82	L1	OFF	19.5
0.218580	44.81	---	62.87	18.06	L1	OFF	19.5
0.246660	---	32.82	51.87	19.05	L1	OFF	19.5
0.246660	43.20	---	61.87	18.67	L1	OFF	19.5
0.573630	---	28.87	46.00	17.13	L1	OFF	19.5
0.573630	35.73	---	56.00	20.27	L1	OFF	19.5
0.718530	---	33.95	46.00	12.05	L1	OFF	19.5
0.718530	39.46	---	56.00	16.54	L1	OFF	19.5
0.757500	---	38.41	46.00	7.59	L1	OFF	19.5
0.757500	43.30	---	56.00	12.70	L1	OFF	19.5
8.258100	---	22.33	50.00	27.67	L1	OFF	19.7
8.258100	27.80	---	60.00	32.20	L1	OFF	19.7
13.560000	---	39.38	50.00	10.62	L1	OFF	19.8

13.560000	**52.19**	**---**	**60.00**	**7.81**	**L1**	**OFF**	**19.8**

EUT Information

Report NO :	072944
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161430	---	39.05	55.39	16.34	N	OFF	19.5
0.161430	53.59	---	65.39	11.80	N	OFF	19.5
0.172500	---	36.84	54.84	18.00	N	OFF	19.5
0.172500	50.78	---	64.84	14.06	N	OFF	19.5
0.183750	---	30.22	54.31	24.09	N	OFF	19.5
0.183750	43.43	---	64.31	20.88	N	OFF	19.5
0.204000	---	38.03	53.45	15.42	N	OFF	19.5
0.204000	48.38	---	63.45	15.07	N	OFF	19.5
0.217500	---	33.68	52.91	19.23	N	OFF	19.5
0.217500	44.83	---	62.91	18.08	N	OFF	19.5
0.235500	---	34.72	52.25	17.53	N	OFF	19.5
0.235500	44.78	---	62.25	17.47	N	OFF	19.5
0.585600	---	29.49	46.00	16.51	N	OFF	19.5
0.585600	36.52	---	56.00	19.48	N	OFF	19.5
0.712500	---	28.16	46.00	17.84	N	OFF	19.5
0.712500	37.26	---	56.00	18.74	N	OFF	19.5
0.753000	---	31.03	46.00	14.97	N	OFF	19.6
0.753000	40.66	---	56.00	15.34	N	OFF	19.6
8.295000	---	20.32	50.00	29.68	N	OFF	19.8
8.295000	26.74	---	60.00	33.26	N	OFF	19.8
13.560000	---	39.83	50.00	10.17	N	OFF	19.9

13.560000	**52.51**	**---**	**60.00**	**7.49**	**N**	**OFF**	**19.9**

Appendix B. Radiated Spurious Emission

Test Engineer :	Andy Yang, Karl Hou and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~65%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5649.4	55.2	-13	68.2	38.86	31.7	13.68	29.04	283	155	P	H
		5699.8	58.83	-46.22	105.05	42.33	31.8	13.73	29.03	283	155	P	H
		5720	72.52	-38.28	110.8	55.92	31.88	13.75	29.03	283	155	P	H
		5724.8	84.11	-37.63	121.74	67.49	31.9	13.75	29.03	283	155	P	H
	*	5745	112.49	-	-	95.76	31.98	13.77	29.02	283	155	P	H
	*	5745	104.61	-	-	87.88	31.98	13.77	29.02	283	155	A	H
													H
													H
		5607.4	55.81	-12.39	68.2	39.51	31.7	13.65	29.05	400	47	P	V
		5697.2	56.72	-46.42	103.14	40.23	31.79	13.73	29.03	400	47	P	V
		5720	66.9	-43.9	110.8	50.3	31.88	13.75	29.03	400	47	P	V
		5725	80.38	-41.82	122.2	63.76	31.9	13.75	29.03	400	47	P	V
	*	5745	109.92	-	-	93.19	31.98	13.77	29.02	400	47	P	V
	*	5745	101.98	-	-	85.25	31.98	13.77	29.02	400	47	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)
		5600	55.57	-12.63	68.2	39.29	31.7	13.64	29.06	273	155	P	H
		5667.8	55.57	-25.84	81.41	39.17	31.74	13.7	29.04	273	155	P	H
		5714.4	55.27	-53.96	109.23	38.7	31.86	13.74	29.03	273	155	P	H
		5721	55.97	-57.11	113.08	39.37	31.88	13.75	29.03	273	155	P	H
	*	5785	112.28	-	-	95.41	32.07	13.81	29.01	273	155	P	H
	*	5785	104.26	-	-	87.39	32.07	13.81	29.01	273	155	A	H
		5851.2	55.4	-64.06	119.46	38.49	32.1	13.81	29	273	155	P	H
		5859.2	55.19	-54.43	109.62	38.25	32.12	13.81	28.99	273	155	P	H
		5920.4	56.05	-15.54	71.59	38.94	32.28	13.81	28.98	273	155	P	H
		5938.8	54.83	-13.37	68.2	37.63	32.36	13.81	28.97	273	155	P	H
													H
802.11a CH 157 5785MHz													H
		5629.2	55.02	-13.18	68.2	38.7	31.7	13.67	29.05	399	47	P	V
		5682	54.87	-37.05	91.92	38.44	31.76	13.71	29.04	399	47	P	V
		5702.8	55.39	-50.6	105.99	38.88	31.81	13.73	29.03	399	47	P	V
		5723.8	54.53	-64.93	119.46	37.91	31.9	13.75	29.03	399	47	P	V
	*	5785	110.81	-	-	93.94	32.07	13.81	29.01	399	47	P	V
	*	5785	102.32	-	-	85.45	32.07	13.81	29.01	399	47	A	V
		5855	54.25	-56.55	110.8	37.32	32.11	13.81	28.99	399	47	P	V
		5869.8	56.02	-50.63	106.65	39.06	32.14	13.81	28.99	399	47	P	V
		5925	55.53	-12.67	68.2	38.4	32.3	13.81	28.98	399	47	P	V
		5925	55.53	-12.67	68.2	38.4	32.3	13.81	28.98	399	47	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	112.62	-	-	95.7	32.1	13.82	29	250	156	P	H
	*	5825	104.63	-	-	87.71	32.1	13.82	29	250	156	A	H
		5850.2	72.04	-49.7	121.74	55.13	32.1	13.81	29	250	156	P	H
		5855.6	67.99	-42.64	110.63	51.06	32.11	13.81	28.99	250	156	P	H
		5879.4	58.03	-43.9	101.93	41.05	32.16	13.81	28.99	250	156	P	H
		5948.4	55.2	-13	68.2	37.97	32.39	13.81	28.97	250	156	P	H
													H
802.11a													H
CH 165	*	5825	110.51	-	-	93.59	32.1	13.82	29	394	46	P	V
5825MHz	*	5825	102.57	-	-	85.65	32.1	13.82	29	394	46	A	V
		5850	69.31	-52.89	122.2	52.4	32.1	13.81	29	394	46	P	V
		5856	65.97	-44.55	110.52	49.04	32.11	13.81	28.99	394	46	P	V
		5877	57.55	-46.16	103.71	40.58	32.15	13.81	28.99	394	46	P	V
		5939.8	55.7	-12.5	68.2	38.5	32.36	13.81	28.97	394	46	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	49.96	-24.04	74	50.1	40.1	20.66	60.9	100	0	P	H
		17235	58.19	-10.01	68.2	49.69	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.94	-24.06	74	50.08	40.1	20.66	60.9	100	0	P	V
		17235	58.5	-9.7	68.2	50	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.99	-24.01	74	50.32	39.89	20.76	60.98	100	0	P	H
		17355	55.49	-12.71	68.2	46.09	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.97	-24.03	74	50.3	39.89	20.76	60.98	100	0	P	V
		17355	55.74	-12.46	68.2	46.34	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.87	-24.13	74	51.12	39.6	20.23	61.08	100	0	P	H
		17475	53.23	-14.97	68.2	42.9	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.83	-24.17	74	51.08	39.6	20.23	61.08	100	0	P	V
		17475	53.73	-14.47	68.2	43.4	41.97	26.89	58.53	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)
		5649.2	55.22	-12.98	68.2	38.88	31.7	13.68	29.04	202	139	P	H
		5699.6	60.61	-44.3	104.91	44.11	31.8	13.73	29.03	202	139	P	H
		5720	77.62	-33.18	110.8	61.02	31.88	13.75	29.03	202	139	P	H
		5724	85.52	-34.4	119.92	68.9	31.9	13.75	29.03	202	139	P	H
	*	5745	111.09	-	-	94.36	31.98	13.77	29.02	202	139	P	H
	*	5745	103.61	-	-	86.88	31.98	13.77	29.02	202	139	A	H
802.11ac													H
VHT20													H
CH 149		5644.4	53.71	-14.49	68.2	37.38	31.7	13.68	29.05	226	347	P	V
5745MHz		5695.2	58.23	-43.43	101.66	41.74	31.79	13.73	29.03	226	347	P	V
		5720	75.86	-34.94	110.8	59.26	31.88	13.75	29.03	226	347	P	V
		5723.8	81.19	-38.27	119.46	64.57	31.9	13.75	29.03	226	347	P	V
	*	5745	108.51	-	-	91.78	31.98	13.77	29.02	226	347	P	V
	*	5745	101.05	-	-	84.32	31.98	13.77	29.02	226	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)
		5648.6	54.7	-13.5	68.2	38.36	31.7	13.68	29.04	200	141	P	H
		5693.8	54.36	-46.27	100.63	37.88	31.79	13.72	29.03	200	141	P	H
		5709	56.19	-51.53	107.72	39.64	31.84	13.74	29.03	200	141	P	H
		5724.6	61.16	-60.13	121.29	44.54	31.9	13.75	29.03	200	141	P	H
	*	5785	111.22	-	-	94.35	32.07	13.81	29.01	200	141	P	H
	*	5785	103.85	-	-	86.98	32.07	13.81	29.01	200	141	A	H
		5853.8	56.83	-56.71	113.54	39.91	32.11	13.81	29	200	141	P	H
		5859.6	55.76	-53.75	109.51	38.82	32.12	13.81	28.99	200	141	P	H
		5914	55.54	-20.77	76.31	38.45	32.26	13.81	28.98	200	141	P	H
		5936.4	55.45	-12.75	68.2	38.27	32.35	13.81	28.98	200	141	P	H
802.11ac													H
VHT20													H
CH 157		5628	53.83	-14.37	68.2	37.51	31.7	13.67	29.05	204	349	P	V
5785MHz		5661.6	55.39	-21.42	76.81	39.01	31.72	13.7	29.04	204	349	P	V
		5704.8	54.83	-51.72	106.55	38.31	31.82	13.73	29.03	204	349	P	V
		5724.4	55.32	-65.51	120.83	38.7	31.9	13.75	29.03	204	349	P	V
	*	5785	109.83	-	-	92.96	32.07	13.81	29.01	204	349	P	V
	*	5785	101.97	-	-	85.1	32.07	13.81	29.01	204	349	A	V
		5852.8	55.96	-59.86	115.82	39.04	32.11	13.81	29	204	349	P	V
		5860.6	55.05	-54.18	109.23	38.11	32.12	13.81	28.99	204	349	P	V
		5883.6	54.48	-44.33	98.81	37.49	32.17	13.81	28.99	204	349	P	V
		5925.6	54.84	-13.36	68.2	37.71	32.3	13.81	28.98	204	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)
	*	5825	112.11	-	-	95.19	32.1	13.82	29	198	141	P	H
	*	5825	104.56	-	-	87.64	32.1	13.82	29	198	141	A	H
		5850	85.99	-36.21	122.2	69.08	32.1	13.81	29	198	141	P	H
		5856	81.39	-29.13	110.52	64.46	32.11	13.81	28.99	198	141	P	H
		5875.8	64.17	-40.44	104.61	47.2	32.15	13.81	28.99	198	141	P	H
		5946	56.22	-11.98	68.2	39	32.38	13.81	28.97	198	141	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	110.25	-	-	93.33	32.1	13.82	29	207	294	P	V
5825MHz	*	5825	102.66	-	-	85.74	32.1	13.82	29	207	294	A	V
		5850	83.41	-38.79	122.2	66.5	32.1	13.81	29	207	294	P	V
		5855.8	81.04	-29.54	110.58	64.11	32.11	13.81	28.99	207	294	P	V
		5875.4	63.52	-41.38	104.9	46.55	32.15	13.81	28.99	207	294	P	V
		5936	56.1	-12.1	68.2	38.93	32.34	13.81	28.98	207	294	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	49.14	-24.86	74	49.83	40.1	20.11	60.9	100	0	P	H
		17235	54.56	-13.64	68.2	47.38	40.84	25.16	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.89	-24.11	74	50.58	40.1	20.11	60.9	100	0	P	V
5745MHz		17235	54.13	-14.07	68.2	46.95	40.84	25.16	58.82	100	0	P	V
													V
													V
		11570	49.81	-24.19	74	50.72	39.89	20.18	60.98	100	0	P	H
		17355	56.53	-11.67	68.2	48.61	41.38	25.21	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.93	-24.07	74	50.84	39.89	20.18	60.98	100	0	P	V
5785MHz		17355	55.23	-12.97	68.2	47.31	41.38	25.21	58.67	100	0	P	V
													V
													V
		11650	49.97	-24.03	74	51.22	39.6	20.23	61.08	100	0	P	H
		17475	52.75	-15.45	68.2	44.06	41.97	25.25	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.42	-24.58	74	50.67	39.6	20.23	61.08	100	0	P	V
5825MHz		17475	53.62	-14.58	68.2	44.93	41.97	25.25	58.53	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)
		5644	56.65	-11.55	68.2	40.32	31.7	13.68	29.05	203	140	P	H
		5698.4	67.37	-36.65	104.02	50.87	31.8	13.73	29.03	203	140	P	H
		5719	85.86	-24.66	110.52	69.26	31.88	13.75	29.03	203	140	P	H
		5724	86.36	-33.56	119.92	69.74	31.9	13.75	29.03	203	140	P	H
	*	5755	108.33	-	-	91.56	32.01	13.78	29.02	203	140	P	H
	*	5755	100.72	-	-	83.95	32.01	13.78	29.02	203	140	A	H
		5850.2	57.11	-64.63	121.74	40.2	32.1	13.81	29	203	140	P	H
		5856.8	57.48	-52.82	110.3	40.55	32.11	13.81	28.99	203	140	P	H
		5901.8	56.26	-29.07	85.33	39.22	32.21	13.81	28.98	203	140	P	H
		5933	56.1	-12.1	68.2	38.94	32.33	13.81	28.98	203	140	P	H
802.11ac													H
VHT40													H
CH 151		5642.6	55	-13.2	68.2	38.67	31.7	13.68	29.05	208	292	P	V
5755MHz		5699.2	63.13	-41.48	104.61	46.63	31.8	13.73	29.03	208	292	P	V
		5719.2	81.47	-29.11	110.58	64.87	31.88	13.75	29.03	208	292	P	V
		5724.8	83	-38.74	121.74	66.38	31.9	13.75	29.03	208	292	P	V
	*	5755	105.11	-	-	88.34	32.01	13.78	29.02	208	292	P	V
	*	5755	97.46	-	-	80.69	32.01	13.78	29.02	208	292	A	V
		5851.4	57.08	-61.93	119.01	40.17	32.1	13.81	29	208	292	P	V
		5864.8	55.18	-52.87	108.05	38.23	32.13	13.81	28.99	208	292	P	V
		5911.4	55.23	-23	78.23	38.15	32.25	13.81	28.98	208	292	P	V
		5935.2	55.57	-12.63	68.2	38.4	32.34	13.81	28.98	208	292	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)
		5639.6	55.8	-12.4	68.2	39.47	31.7	13.68	29.05	199	141	P	H
		5697.8	58.7	-44.88	103.58	42.2	31.8	13.73	29.03	199	141	P	H
		5718.8	63.77	-46.69	110.46	47.17	31.88	13.75	29.03	199	141	P	H
		5723	63.86	-53.78	117.64	47.25	31.89	13.75	29.03	199	141	P	H
	*	5795	108.3	-	-	91.4	32.09	13.82	29.01	199	141	P	H
	*	5795	100.75	-	-	83.85	32.09	13.82	29.01	199	141	A	H
		5850.6	65.54	-55.29	120.83	48.63	32.1	13.81	29	199	141	P	H
		5855.8	66.91	-43.67	110.58	49.98	32.11	13.81	28.99	199	141	P	H
		5881.2	59.74	-40.85	100.59	42.76	32.16	13.81	28.99	199	141	P	H
		5928.4	56.35	-11.85	68.2	39.21	32.31	13.81	28.98	199	141	P	H
802.11ac													H
VHT40													H
CH 159		5625.2	54	-14.2	68.2	37.69	31.7	13.66	29.05	205	349	P	V
5795MHz		5699.4	56.56	-48.2	104.76	40.06	31.8	13.73	29.03	205	349	P	V
		5718.8	61.44	-49.02	110.46	44.84	31.88	13.75	29.03	205	349	P	V
		5722.4	60.82	-55.45	116.27	44.21	31.89	13.75	29.03	205	349	P	V
	*	5795	106.13	-	-	89.23	32.09	13.82	29.01	205	349	P	V
	*	5795	98.48	-	-	81.58	32.09	13.82	29.01	205	349	A	V
		5855	64.35	-46.45	110.8	47.42	32.11	13.81	28.99	205	349	P	V
		5876.6	60.19	-43.82	104.01	43.22	32.15	13.81	28.99	205	349	P	V
		5900	55.74	-30.92	86.66	38.71	32.2	13.81	28.98	205	349	P	V
		5946.6	56.29	-11.91	68.2	39.06	32.39	13.81	28.97	205	349	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	49.95	-24.05	74	50.66	40.07	20.13	60.91	100	0	P	H
		17265	51.99	-16.21	68.2	44.64	40.96	25.17	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.98	-24.02	74	50.69	40.07	20.13	60.91	100	0	P	V
5755MHz		17265	52.51	-15.69	68.2	45.16	40.96	25.17	58.78	100	0	P	V
													V
													V
		11590	49.79	-24.21	74	50.78	39.83	20.19	61.01	100	0	P	H
		17385	52.32	-15.88	68.2	44.22	41.52	25.22	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.51	-24.49	74	50.5	39.83	20.19	61.01	100	0	P	V
5795MHz		17385	52.98	-15.22	68.2	44.88	41.52	25.22	58.64	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)
		5644.2	65.89	-2.31	68.2	49.56	31.7	13.68	29.05	203	138	P	H
		5695.4	81.94	-19.87	101.81	65.45	31.79	13.73	29.03	203	138	P	H
		5718.8	85.1	-25.36	110.46	68.5	31.88	13.75	29.03	203	138	P	H
		5720.4	85.52	-26.19	111.71	68.92	31.88	13.75	29.03	203	138	P	H
	*	5775	105.44	-	-	88.6	32.05	13.8	29.01	203	138	P	H
	*	5775	98.04	-	-	81.2	32.05	13.8	29.01	203	138	A	H
		5853.4	80.48	-33.97	114.45	63.56	32.11	13.81	29	203	138	P	H
		5858.8	79.93	-29.8	109.73	62.99	32.12	13.81	28.99	203	138	P	H
		5879.4	73.79	-28.14	101.93	56.81	32.16	13.81	28.99	203	138	P	H
		5928.8	59.13	-9.07	68.2	41.98	32.32	13.81	28.98	203	138	P	H
802.11ac													H
VHT80													H
CH 155		5639	60.78	-7.42	68.2	44.45	31.7	13.68	29.05	210	346	P	V
5775MHz		5695.4	78.13	-23.68	101.81	61.64	31.79	13.73	29.03	210	346	P	V
		5719.2	81.79	-28.79	110.58	65.19	31.88	13.75	29.03	210	346	P	V
		5720.2	82.38	-28.88	111.26	65.78	31.88	13.75	29.03	210	346	P	V
	*	5775	102.82	-	-	85.98	32.05	13.8	29.01	210	346	P	V
	*	5775	95.66	-	-	78.82	32.05	13.8	29.01	210	346	A	V
		5853.4	78.19	-36.26	114.45	61.27	32.11	13.81	29	210	346	P	V
		5855.6	76.79	-33.84	110.63	59.86	32.11	13.81	28.99	210	346	P	V
		5875.4	71.51	-33.39	104.9	54.54	32.15	13.81	28.99	210	346	P	V
		5925.8	58.39	-9.81	68.2	41.26	32.3	13.81	28.98	210	346	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	49.97	-24.03	74	50.82	39.95	20.16	60.96	100	0	P	H
		17325	52.52	-15.68	68.2	44.81	41.22	25.2	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.91	-24.09	74	50.76	39.95	20.16	60.96	100	0	P	V
5775MHz		17325	52.26	-15.94	68.2	44.55	41.22	25.2	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

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)
		33620	43.44	-24.76	68.2	38.9	41.08	17.9	54.44	150	0	P	H
		37558	45.36	-22.84	68.2	39.24	42.75	19.9	56.53	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		30430	42.38	-25.82	68.2	40.64	40.36	16.55	55.17	150	0	P	V
SHF		37624	45.18	-23.02	68.2	38.92	42.8	19.91	56.45	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
		102.75	24.4	-19.1	43.5	38.93	16.19	1.53	32.25	-	-	P	H
		120.21	26.96	-16.54	43.5	40.17	17.35	1.7	32.26	-	-	P	H
		351.07	22.43	-23.57	46	31.21	20.4	3.1	32.28	-	-	P	H
		406.36	27.53	-18.47	46	34.26	22.09	3.37	32.19	-	-	P	H
		453.89	29.79	-16.21	46	35.15	23.23	3.55	32.14	-	-	P	H
		785.63	31.97	-14.03	46	31.38	28.07	4.86	32.34	100	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		42.61	29.14	-10.86	40	42.71	17.95	0.82	32.34	100	0	P	V
LF		62.98	25.81	-14.19	40	45.46	11.62	1.11	32.38	-	-	P	V
		117.3	24.4	-19.1	43.5	37.69	17.29	1.68	32.26	-	-	P	V
		135.73	23.51	-19.99	43.5	36.64	17.32	1.83	32.28	-	-	P	V
		395.69	27.77	-18.23	46	34.97	21.69	3.32	32.21	-	-	P	V
		462.62	29.24	-16.76	46	34.39	23.4	3.58	32.13	-	-	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 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		5648.6	55.81	-12.39	68.2	39.47	31.7	13.68	29.04	251	338	P	H
		5696.8	60.35	-42.49	102.84	43.86	31.79	13.73	29.03	251	338	P	H
		5718.8	69.31	-41.15	110.46	52.71	31.88	13.75	29.03	251	338	P	H
		5724.8	77.27	-44.47	121.74	60.65	31.9	13.75	29.03	251	338	P	H
	*	5745	117.41	-	-	100.68	31.98	13.77	29.02	251	338	P	H
	*	5745	110.33	-	-	93.6	31.98	13.77	29.02	251	338	A	H
													H
													H
		5615.4	54.19	-14.01	68.2	37.89	31.7	13.65	29.05	109	266	P	V
		5698.6	54.59	-49.58	104.17	38.09	31.8	13.73	29.03	109	266	P	V
		5716.2	61.53	-48.21	109.74	44.96	31.86	13.74	29.03	109	266	P	V
		5724.2	67.22	-53.16	120.38	50.6	31.9	13.75	29.03	109	266	P	V
	*	5745	109.77	-	-	93.04	31.98	13.77	29.02	109	266	P	V
	*	5745	102.54	-	-	85.81	31.98	13.77	29.02	109	266	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)
		5649.2	55.67	-12.53	68.2	39.33	31.7	13.68	29.04	248	339	P	H
		5687.6	55.79	-40.26	96.05	39.32	31.78	13.72	29.03	248	339	P	H
		5707	56.85	-50.31	107.16	40.31	31.83	13.74	29.03	248	339	P	H
		5724.8	56.39	-65.35	121.74	39.77	31.9	13.75	29.03	248	339	P	H
	*	5785	117.55	-	-	100.68	32.07	13.81	29.01	248	339	P	H
	*	5785	110.14	-	-	93.27	32.07	13.81	29.01	248	339	A	H
		5854.2	56.6	-56.02	112.62	39.67	32.11	13.81	28.99	248	339	P	H
		5862.8	56.78	-51.83	108.61	39.83	32.13	13.81	28.99	248	339	P	H
		5889.8	56.24	-37.98	94.22	39.24	32.18	13.81	28.99	248	339	P	H
		5947	54.96	-13.24	68.2	37.73	32.39	13.81	28.97	248	339	P	H
													H
802.11a CH 157 5785MHz													H
		5633.2	54.39	-13.81	68.2	38.07	31.7	13.67	29.05	115	265	P	V
		5669.8	53.96	-28.93	82.89	37.56	31.74	13.7	29.04	115	265	P	V
		5706.4	53.81	-53.18	106.99	37.27	31.83	13.74	29.03	115	265	P	V
		5720.4	53.33	-58.38	111.71	36.73	31.88	13.75	29.03	115	265	P	V
	*	5785	110.14	-	-	93.27	32.07	13.81	29.01	115	265	P	V
	*	5785	102.71	-	-	85.84	32.07	13.81	29.01	115	265	A	V
		5852	55.34	-62.3	117.64	38.43	32.1	13.81	29	115	265	P	V
		5855.6	54.92	-55.71	110.63	37.99	32.11	13.81	28.99	115	265	P	V
		5918.2	55.23	-17.98	73.21	38.13	32.27	13.81	28.98	115	265	P	V
		5944.4	55.78	-12.42	68.2	38.56	32.38	13.81	28.97	115	265	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	116.68	-	-	99.76	32.1	13.82	29	245	340	P	H
	*	5825	109.39	-	-	92.47	32.1	13.82	29	245	340	A	H
		5850.8	72.43	-47.95	120.38	55.52	32.1	13.81	29	245	340	P	H
		5857.8	70.5	-39.51	110.01	53.56	32.12	13.81	28.99	245	340	P	H
		5875	59.86	-45.34	105.2	42.89	32.15	13.81	28.99	245	340	P	H
		5931.2	55.75	-12.45	68.2	38.6	32.32	13.81	28.98	245	340	P	H
													H
802.11a													H
CH 165	*	5825	111.16	-	-	94.24	32.1	13.82	29	100	262	P	V
5825MHz	*	5825	103.96	-	-	87.04	32.1	13.82	29	100	262	A	V
		5850.8	67.9	-52.48	120.38	50.99	32.1	13.81	29	100	262	P	V
		5856	66.53	-43.99	110.52	49.6	32.11	13.81	28.99	100	262	P	V
		5875.2	56.45	-48.6	105.05	39.48	32.15	13.81	28.99	100	262	P	V
		5949.2	55.46	-12.74	68.2	38.22	32.4	13.81	28.97	100	262	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	49.93	-24.07	74	50.07	40.1	20.66	60.9	100	0	P	H
		17235	52.89	-15.31	68.2	44.39	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.97	-24.03	74	50.11	40.1	20.66	60.9	100	0	P	V
		17235	52.22	-15.98	68.2	43.72	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.91	-24.09	74	50.24	39.89	20.76	60.98	100	0	P	H
		17355	53.01	-15.19	68.2	43.61	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.99	-24.01	74	50.32	39.89	20.76	60.98	100	0	P	V
		17355	53.28	-14.92	68.2	43.88	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.96	-24.04	74	50.59	39.6	20.85	61.08	100	0	P	H
		17475	54.85	-13.35	68.2	44.52	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.9	-24.1	74	50.53	39.6	20.85	61.08	100	0	P	V
		17475	52.76	-15.44	68.2	42.43	41.97	26.89	58.53	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)
		5649.8	55.38	-12.82	68.2	39.04	31.7	13.68	29.04	250	337	P	H
		5700	58.95	-46.25	105.2	42.45	31.8	13.73	29.03	250	337	P	H
		5716.4	64.08	-45.71	109.79	47.5	31.87	13.74	29.03	250	337	P	H
		5725	69.74	-52.46	122.2	53.12	31.9	13.75	29.03	250	337	P	H
	*	5745	116.22	-	-	99.49	31.98	13.77	29.02	250	337	P	H
	*	5745	109.01	-	-	92.28	31.98	13.77	29.02	250	337	A	H
802.11ac													H
VHT20													H
CH 149		5605.2	54	-14.2	68.2	37.71	31.7	13.64	29.05	111	272	P	V
5745MHz		5680.8	54.54	-36.49	91.03	38.11	31.76	13.71	29.04	111	272	P	V
		5719.6	55.85	-54.84	110.69	39.25	31.88	13.75	29.03	111	272	P	V
		5725	60.63	-61.57	122.2	44.01	31.9	13.75	29.03	111	272	P	V
	*	5745	108.33	-	-	91.6	31.98	13.77	29.02	111	272	P	V
	*	5745	101.07	-	-	84.34	31.98	13.77	29.02	111	272	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)
		5627.6	55.07	-13.13	68.2	38.76	31.7	13.66	29.05	247	338	P	H
		5686.6	54.9	-40.42	95.32	38.45	31.77	13.72	29.04	247	338	P	H
		5711.4	56.71	-51.68	108.39	40.15	31.85	13.74	29.03	247	338	P	H
		5721.8	57.48	-57.42	114.9	40.87	31.89	13.75	29.03	247	338	P	H
	*	5785	116.68	-	-	99.81	32.07	13.81	29.01	247	338	P	H
	*	5785	109.3	-	-	92.43	32.07	13.81	29.01	247	338	A	H
		5851	57.01	-62.91	119.92	40.1	32.1	13.81	29	247	338	P	H
		5855	56.61	-54.19	110.8	39.68	32.11	13.81	28.99	247	338	P	H
		5912.2	56.4	-21.24	77.64	39.32	32.25	13.81	28.98	247	338	P	H
		5936.2	55.34	-12.86	68.2	38.17	32.34	13.81	28.98	247	338	P	H
802.11ac													H
VHT20													H
CH 157		5647	54.34	-13.86	68.2	38	31.7	13.68	29.04	101	275	P	V
5785MHz		5651.6	54.27	-15.12	69.39	37.92	31.7	13.69	29.04	101	275	P	V
		5711.8	53.6	-54.91	108.51	37.04	31.85	13.74	29.03	101	275	P	V
		5724	53.56	-66.36	119.92	36.94	31.9	13.75	29.03	101	275	P	V
	*	5785	109.74	-	-	92.87	32.07	13.81	29.01	101	275	P	V
	*	5785	102.38	-	-	85.51	32.07	13.81	29.01	101	275	A	V
		5854.2	55.93	-56.69	112.62	39	32.11	13.81	28.99	101	275	P	V
		5856.4	55.57	-54.84	110.41	38.64	32.11	13.81	28.99	101	275	P	V
		5912.8	55.76	-21.44	77.2	38.68	32.25	13.81	28.98	101	275	P	V
		5934	54.87	-13.33	68.2	37.7	32.34	13.81	28.98	101	275	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	116.57	-	-	99.65	32.1	13.82	29	253	339	P	H
	*	5825	108.98	-	-	92.06	32.1	13.82	29	253	339	A	H
		5850	72.29	-49.91	122.2	55.38	32.1	13.81	29	253	339	P	H
		5855.2	71.38	-39.36	110.74	54.45	32.11	13.81	28.99	253	339	P	H
		5876.2	59.55	-44.76	104.31	42.58	32.15	13.81	28.99	253	339	P	H
		5925.4	55.72	-12.48	68.2	38.59	32.3	13.81	28.98	253	339	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	110.67	-	-	93.75	32.1	13.82	29	105	275	P	V
5825MHz	*	5825	103.3	-	-	86.38	32.1	13.82	29	105	275	A	V
		5850	66.16	-56.04	122.2	49.25	32.1	13.81	29	105	275	P	V
		5855.8	65.21	-45.37	110.58	48.28	32.11	13.81	28.99	105	275	P	V
		5900.8	57.32	-28.75	86.07	40.29	32.2	13.81	28.98	105	275	P	V
		5927.6	55.79	-12.41	68.2	38.65	32.31	13.81	28.98	105	275	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	49.97	-24.03	74	50.66	40.1	20.11	60.9	100	0	P	H
		17235	52.09	-16.11	68.2	44.91	40.84	25.16	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.82	-24.18	74	50.51	40.1	20.11	60.9	100	0	P	V
5745MHz		17235	51.7	-16.5	68.2	44.52	40.84	25.16	58.82	100	0	P	V
													V
													V
		11570	49.95	-24.05	74	50.86	39.89	20.18	60.98	100	0	P	H
		17355	51.67	-16.53	68.2	43.75	41.38	25.21	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.81	-24.19	74	50.72	39.89	20.18	60.98	100	0	P	V
5785MHz		17355	50.79	-17.41	68.2	42.87	41.38	25.21	58.67	100	0	P	V
													V
													V
		11650	49.97	-24.03	74	51.22	39.6	20.23	61.08	100	0	P	H
		17475	51.75	-16.45	68.2	43.06	41.97	25.25	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.91	-24.09	74	51.16	39.6	20.23	61.08	100	0	P	V
5825MHz		17475	52.17	-16.03	68.2	43.48	41.97	25.25	58.53	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)
		5648.4	56.95	-11.25	68.2	40.61	31.7	13.68	29.04	244	337	P	H
		5697.4	71.48	-31.8	103.28	54.99	31.79	13.73	29.03	244	337	P	H
		5719	85.7	-24.82	110.52	69.1	31.88	13.75	29.03	244	337	P	H
		5723.8	86.96	-32.5	119.46	70.34	31.9	13.75	29.03	244	337	P	H
	*	5755	114.41	-	-	97.64	32.01	13.78	29.02	244	337	P	H
	*	5755	106.67	-	-	89.9	32.01	13.78	29.02	244	337	A	H
		5852	57.94	-59.7	117.64	41.03	32.1	13.81	29	244	337	P	H
		5856.8	58.05	-52.25	110.3	41.12	32.11	13.81	28.99	244	337	P	H
		5880.4	56.38	-44.81	101.19	39.4	32.16	13.81	28.99	244	337	P	H
		5945.8	57.14	-11.06	68.2	39.92	32.38	13.81	28.97	244	337	P	H
802.11ac													H
VHT40													H
CH 151		5632.2	54.46	-13.74	68.2	38.14	31.7	13.67	29.05	105	260	P	V
5755MHz		5697.6	62.82	-40.61	103.43	46.32	31.8	13.73	29.03	105	260	P	V
		5717	76.9	-33.06	109.96	60.31	31.87	13.75	29.03	105	260	P	V
		5724.2	78.04	-42.34	120.38	61.42	31.9	13.75	29.03	105	260	P	V
	*	5755	107.56	-	-	90.79	32.01	13.78	29.02	105	260	P	V
	*	5755	100.12	-	-	83.35	32.01	13.78	29.02	105	260	A	V
		5852.6	55.28	-60.99	116.27	38.36	32.11	13.81	29	105	260	P	V
		5862.6	55.58	-53.09	108.67	38.63	32.13	13.81	28.99	105	260	P	V
		5892.4	55.61	-36.68	92.29	38.61	32.18	13.81	28.99	105	260	P	V
		5942.6	54.95	-13.25	68.2	37.74	32.37	13.81	28.97	105	260	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)
		5647.4	54.63	-13.57	68.2	38.29	31.7	13.68	29.04	249	340	P	H
		5698.8	60.06	-44.26	104.32	43.56	31.8	13.73	29.03	249	340	P	H
		5719.2	66.37	-44.21	110.58	49.77	31.88	13.75	29.03	249	340	P	H
		5725	65.79	-56.41	122.2	49.17	31.9	13.75	29.03	249	340	P	H
	*	5795	114.47	-	-	97.57	32.09	13.82	29.01	249	340	P	H
	*	5795	106.81	-	-	89.91	32.09	13.82	29.01	249	340	A	H
		5852	69.3	-48.34	117.64	52.39	32.1	13.81	29	249	340	P	H
		5859	67.37	-42.31	109.68	50.43	32.12	13.81	28.99	249	340	P	H
		5875.6	63.4	-41.35	104.75	46.43	32.15	13.81	28.99	249	340	P	H
		5948	57.39	-10.81	68.2	40.16	32.39	13.81	28.97	249	340	P	H
802.11ac													H
VHT40													H
CH 159		5636.6	55.27	-12.93	68.2	38.95	31.7	13.67	29.05	100	261	P	V
5795MHz		5687.6	54.14	-41.91	96.05	37.67	31.78	13.72	29.03	100	261	P	V
		5718.4	58.52	-51.83	110.35	41.93	31.87	13.75	29.03	100	261	P	V
		5722.2	59.34	-56.48	115.82	42.73	31.89	13.75	29.03	100	261	P	V
	*	5795	108.08	-	-	91.18	32.09	13.82	29.01	100	261	P	V
	*	5795	100.33	-	-	83.43	32.09	13.82	29.01	100	261	A	V
		5852.2	67.69	-49.49	117.18	50.78	32.1	13.81	29	100	261	P	V
		5855	63.66	-47.14	110.8	46.73	32.11	13.81	28.99	100	261	P	V
		5877.8	59.84	-43.28	103.12	42.86	32.16	13.81	28.99	100	261	P	V
		5949.2	55.11	-13.09	68.2	37.87	32.4	13.81	28.97	100	261	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	49.9	-24.1	74	50.61	40.07	20.13	60.91	100	0	P	H
		17265	51.83	-16.37	68.2	44.48	40.96	25.17	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.95	-24.05	74	50.66	40.07	20.13	60.91	100	0	P	V
5755MHz		17265	51.68	-16.52	68.2	44.33	40.96	25.17	58.78	100	0	P	V
													V
													V
		11590	49.36	-24.64	74	50.35	39.83	20.19	61.01	100	0	P	H
		17385	52.06	-16.14	68.2	43.96	41.52	25.22	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.89	-24.11	74	50.88	39.83	20.19	61.01	100	0	P	V
5795MHz		17385	52.27	-15.93	68.2	44.17	41.52	25.22	58.64	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)
		5649.4	65.72	-2.48	68.2	49.38	31.7	13.68	29.04	249	338	P	H
		5695	82.27	-19.24	101.51	65.78	31.79	13.73	29.03	249	338	P	H
		5717.2	86.17	-23.85	110.02	69.58	31.87	13.75	29.03	249	338	P	H
		5720.6	86.36	-25.81	112.17	69.76	31.88	13.75	29.03	249	338	P	H
	*	5775	112.03	-	-	95.19	32.05	13.8	29.01	249	338	P	H
	*	5775	104.51	-	-	87.67	32.05	13.8	29.01	249	338	A	H
		5851.4	82.61	-36.4	119.01	65.7	32.1	13.81	29	249	338	P	H
		5858.8	80.43	-29.3	109.73	63.49	32.12	13.81	28.99	249	338	P	H
		5875.4	72.22	-32.68	104.9	55.25	32.15	13.81	28.99	249	338	P	H
		5926.2	59.06	-9.14	68.2	41.93	32.3	13.81	28.98	249	338	P	H
802.11ac													H
VHT80													H
CH 155		5631.2	55.93	-12.27	68.2	39.61	31.7	13.67	29.05	101	263	P	V
5775MHz		5700	72.2	-33	105.2	55.7	31.8	13.73	29.03	101	263	P	V
		5717.2	78.19	-31.83	110.02	61.6	31.87	13.75	29.03	101	263	P	V
		5724.6	77.82	-43.47	121.29	61.2	31.9	13.75	29.03	101	263	P	V
	*	5775	104.64	-	-	87.8	32.05	13.8	29.01	101	263	P	V
	*	5775	97.47	-	-	80.63	32.05	13.8	29.01	101	263	A	V
		5853.2	77.67	-37.23	114.9	60.75	32.11	13.81	29	101	263	P	V
		5858.6	76.89	-32.9	109.79	59.95	32.12	13.81	28.99	101	263	P	V
		5879	71.82	-30.41	102.23	54.84	32.16	13.81	28.99	101	263	P	V
		5928.2	58.54	-9.66	68.2	41.4	32.31	13.81	28.98	101	263	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	49.96	-24.04	74	50.81	39.95	20.16	60.96	100	0	P	H
		17325	51.76	-16.44	68.2	44.05	41.22	25.2	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.9	-24.1	74	50.75	39.95	20.16	60.96	100	0	P	V
5775MHz		17325	51.8	-16.4	68.2	44.09	41.22	25.2	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

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)
		19188	38.48	-35.52	74	43.77	37.95	11.05	54.29	150	0	P	H
		38746	45.31	-28.69	74	38.04	44	18.83	55.56	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		20288	37.6	-36.4	74	41.72	37.92	11.59	53.63	150	0	P	V
SHF		22136	38.43	-35.57	74	41.04	38.12	12.7	53.43	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
		74.62	22.67	-17.33	40	41.15	12.62	1.24	32.34	-	-	P	H
		102.75	25.42	-18.08	43.5	39.95	16.19	1.53	32.25	-	-	P	H
		118.27	28.48	-15.02	43.5	41.78	17.27	1.69	32.26	100	0	P	H
		184.23	19.52	-23.98	43.5	34.9	14.77	2.16	32.31	-	-	P	H
		402.48	27.4	-18.6	46	34.31	21.94	3.35	32.2	-	-	P	H
		464.56	29.7	-16.3	46	34.82	23.42	3.59	32.13	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		42.61	28.81	-11.19	40	42.38	17.95	0.82	32.34	100	0	P	V
LF		73.65	26.43	-13.57	40	45.09	12.45	1.23	32.34	-	-	P	V
		118.27	23.51	-19.99	43.5	36.81	17.27	1.69	32.26	-	-	P	V
		136.7	22.66	-20.84	43.5	35.72	17.38	1.84	32.28	-	-	P	V
		393.75	28.2	-17.8	46	35.5	21.6	3.31	32.21	-	-	P	V
		466.5	28.64	-17.36	46	33.72	23.45	3.6	32.13	-	-	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 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)
		5635.6	56.02	-12.18	68.2	39.7	31.7	13.67	29.05	246	338	P	H
		5700	60.57	-44.63	105.2	44.07	31.8	13.73	29.03	246	338	P	H
		5718.8	73.42	-37.04	110.46	56.82	31.88	13.75	29.03	246	338	P	H
		5725	85.83	-36.37	122.2	69.21	31.9	13.75	29.03	246	338	P	H
	*	5745	118.89	-	-	102.16	31.98	13.77	29.02	246	338	P	H
	*	5745	111.12	-	-	94.39	31.98	13.77	29.02	246	338	A	H
													H
802.11a													H
CH 149		5645.8	55.42	-12.78	68.2	39.09	31.7	13.68	29.05	250	3	P	V
5745MHz		5696.6	56.47	-46.22	102.69	39.98	31.79	13.73	29.03	250	3	P	V
		5719	69.99	-40.53	110.52	53.39	31.88	13.75	29.03	250	3	P	V
		5724	79.78	-40.14	119.92	63.16	31.9	13.75	29.03	250	3	P	V
	*	5745	114.88	-	-	98.15	31.98	13.77	29.02	250	3	P	V
	*	5745	106.5	-	-	89.77	31.98	13.77	29.02	250	3	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)
		5634.4	55.8	-12.4	68.2	39.48	31.7	13.67	29.05	250	47	P	H
		5668.6	56.42	-25.58	82	40.02	31.74	13.7	29.04	250	47	P	H
		5719.6	57.93	-52.76	110.69	41.33	31.88	13.75	29.03	250	47	P	H
		5724	59.62	-60.3	119.92	43	31.9	13.75	29.03	250	47	P	H
	*	5785	117.96	-	-	101.09	32.07	13.81	29.01	250	47	P	H
	*	5785	109.77	-	-	92.9	32.07	13.81	29.01	250	47	A	H
		5850.8	59.35	-61.03	120.38	42.44	32.1	13.81	29	250	47	P	H
		5857.6	58.83	-51.24	110.07	41.89	32.12	13.81	28.99	250	47	P	H
		5883.6	57.93	-40.88	98.81	40.94	32.17	13.81	28.99	250	47	P	H
		5927.4	56.18	-12.02	68.2	39.04	32.31	13.81	28.98	250	47	P	H
													H
802.11a CH 157 5785MHz													H
		5632.6	55.04	-13.16	68.2	38.72	31.7	13.67	29.05	259	5	P	V
		5693.2	55.44	-44.75	100.19	38.96	31.79	13.72	29.03	259	5	P	V
		5706	55.7	-51.18	106.88	39.17	31.82	13.74	29.03	259	5	P	V
		5724.4	55.82	-65.01	120.83	39.2	31.9	13.75	29.03	259	5	P	V
	*	5785	113.93	-	-	97.06	32.07	13.81	29.01	259	5	P	V
	*	5785	106.38	-	-	89.51	32.07	13.81	29.01	259	5	A	V
		5851.4	55.76	-63.25	119.01	38.85	32.1	13.81	29	259	5	P	V
		5859.8	55.95	-53.5	109.45	39.01	32.12	13.81	28.99	259	5	P	V
		5904.8	56.17	-26.94	83.11	39.12	32.22	13.81	28.98	259	5	P	V
		5936	55.14	-13.06	68.2	37.97	32.34	13.81	28.98	259	5	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	118.69	-	-	101.77	32.1	13.82	29	233	55	P	H
	*	5825	110.67	-	-	93.75	32.1	13.82	29	233	55	A	H
		5850	77.82	-44.38	122.2	60.91	32.1	13.81	29	233	55	P	H
		5855.8	72.15	-38.43	110.58	55.22	32.11	13.81	28.99	233	55	P	H
		5875.6	61.23	-43.52	104.75	44.26	32.15	13.81	28.99	233	55	P	H
		5949.4	56.25	-11.95	68.2	39.01	32.4	13.81	28.97	233	55	P	H
													H
802.11a													H
CH 165	*	5825	114.44	-	-	97.52	32.1	13.82	29	254	0	P	V
5825MHz	*	5825	106.87	-	-	89.95	32.1	13.82	29	254	0	A	V
		5850.8	72.38	-48	120.38	55.47	32.1	13.81	29	254	0	P	V
		5855.6	69.44	-41.19	110.63	52.51	32.11	13.81	28.99	254	0	P	V
		5875.8	58.52	-46.09	104.61	41.55	32.15	13.81	28.99	254	0	P	V
		5930	55.68	-12.52	68.2	38.53	32.32	13.81	28.98	254	0	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	49.92	-24.08	74	50.06	40.1	20.66	60.9	100	0	P	H
		17235	57.77	-10.43	68.2	49.27	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.9	-24.1	74	50.04	40.1	20.66	60.9	100	0	P	V
		17235	57.17	-11.03	68.2	48.67	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.97	-24.03	74	50.3	39.89	20.76	60.98	100	0	P	H
		17355	55.18	-13.02	68.2	45.78	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.94	-24.06	74	50.27	39.89	20.76	60.98	100	0	P	V
		17355	54.13	-14.07	68.2	44.73	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.97	-24.03	74	50.6	39.6	20.85	61.08	100	0	P	H
		17475	55.52	-12.68	68.2	45.19	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.93	-24.07	74	50.56	39.6	20.85	61.08	100	0	P	V
		17475	58.16	-10.04	68.2	47.83	41.97	26.89	58.53	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)
		5646.8	55.74	-12.46	68.2	39.4	31.7	13.68	29.04	236	54	P	H
		5692.2	59.94	-39.51	99.45	43.47	31.78	13.72	29.03	236	54	P	H
		5719	65.64	-44.88	110.52	49.04	31.88	13.75	29.03	236	54	P	H
		5725	76.32	-45.88	122.2	59.7	31.9	13.75	29.03	236	54	P	H
	*	5745	118.93	-	-	102.2	31.98	13.77	29.02	236	54	P	H
	*	5745	110.22	-	-	93.49	31.98	13.77	29.02	236	54	A	H
802.11ac													H
VHT20													H
CH 149		5640.6	55.08	-13.12	68.2	38.75	31.7	13.68	29.05	249	0	P	V
5745MHz		5693	56.24	-43.8	100.04	39.76	31.79	13.72	29.03	249	0	P	V
		5719.8	66.83	-43.91	110.74	50.23	31.88	13.75	29.03	249	0	P	V
		5725	78.92	-43.28	122.2	62.3	31.9	13.75	29.03	249	0	P	V
	*	5745	114.48	-	-	97.75	31.98	13.77	29.02	249	0	P	V
	*	5745	106.78	-	-	90.05	31.98	13.77	29.02	249	0	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)
		5604	56.58	-11.62	68.2	40.3	31.7	13.64	29.06	234	54	P	H
		5656.2	55.76	-17.05	72.81	39.4	31.71	13.69	29.04	234	54	P	H
		5715.8	57.03	-52.6	109.63	40.46	31.86	13.74	29.03	234	54	P	H
		5722.4	57.48	-58.79	116.27	40.87	31.89	13.75	29.03	234	54	P	H
	*	5785	118.59	-	-	101.72	32.07	13.81	29.01	234	54	P	H
	*	5785	110.29	-	-	93.42	32.07	13.81	29.01	234	54	A	H
		5852	57.56	-60.08	117.64	40.65	32.1	13.81	29	234	54	P	H
		5859.8	56.89	-52.56	109.45	39.95	32.12	13.81	28.99	234	54	P	H
		5916.2	56.91	-17.78	74.69	39.82	32.26	13.81	28.98	234	54	P	H
		5930.6	55.82	-12.38	68.2	38.67	32.32	13.81	28.98	234	54	P	H
802.11ac													H
VHT20													H
CH 157		5611.8	54.5	-13.7	68.2	38.2	31.7	13.65	29.05	235	0	P	V
5785MHz		5691.4	54.77	-44.09	98.86	38.3	31.78	13.72	29.03	235	0	P	V
		5714.6	55.86	-53.43	109.29	39.29	31.86	13.74	29.03	235	0	P	V
		5721.8	54.86	-60.04	114.9	38.25	31.89	13.75	29.03	235	0	P	V
	*	5785	114.1	-	-	97.23	32.07	13.81	29.01	235	0	P	V
	*	5785	106.39	-	-	89.52	32.07	13.81	29.01	235	0	A	V
		5852.2	56.41	-60.77	117.18	39.5	32.1	13.81	29	235	0	P	V
		5870.4	55.96	-50.53	106.49	39	32.14	13.81	28.99	235	0	P	V
		5890.6	56.94	-36.68	93.62	39.94	32.18	13.81	28.99	235	0	P	V
		5949.8	55.71	-12.49	68.2	38.47	32.4	13.81	28.97	235	0	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	119.98	-	-	103.06	32.1	13.82	29	235	54	P	H
	*	5825	111.86	-	-	94.94	32.1	13.82	29	235	54	A	H
		5850.4	77.76	-43.53	121.29	60.85	32.1	13.81	29	235	54	P	H
		5855.2	74.01	-36.73	110.74	57.08	32.11	13.81	28.99	235	54	P	H
		5879.4	62.81	-39.12	101.93	45.83	32.16	13.81	28.99	235	54	P	H
		5931.6	57.12	-11.08	68.2	39.96	32.33	13.81	28.98	235	54	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	114.95	-	-	98.03	32.1	13.82	29	255	1	P	V
5825MHz	*	5825	107.05	-	-	90.13	32.1	13.82	29	255	1	A	V
		5850	74.02	-48.18	122.2	57.11	32.1	13.81	29	255	1	P	V
		5862.8	64.83	-43.78	108.61	47.88	32.13	13.81	28.99	255	1	P	V
		5882	57.52	-42.48	100	40.54	32.16	13.81	28.99	255	1	P	V
		5945.2	55.65	-12.55	68.2	38.43	32.38	13.81	28.97	255	1	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	49.95	-24.05	74	50.64	40.1	20.11	60.9	100	0	P	H
		17235	59.19	-9.01	68.2	52.01	40.84	25.16	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.92	-24.08	74	50.61	40.1	20.11	60.9	100	0	P	V
5745MHz		17235	54.77	-13.43	68.2	47.59	40.84	25.16	58.82	100	0	P	V
													V
													V
		11570	49.94	-24.06	74	50.85	39.89	20.18	60.98	100	0	P	H
		17355	53.75	-14.45	68.2	45.83	41.38	25.21	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	53.5	-20.5	74	54.41	39.89	20.18	60.98	152	146	P	V
5785MHz		11570	43.08	-10.92	54	43.99	39.89	20.18	60.98	152	146	A	V
		17355	54.98	-13.22	68.2	47.06	41.38	25.21	58.67	100	0	P	V
													V
		11650	49.98	-24.02	74	51.23	39.6	20.23	61.08	100	0	P	H
		17475	52.35	-15.85	68.2	43.66	41.97	25.25	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	53.15	-20.85	74	54.4	39.6	20.23	61.08	151	148	P	V
5825MHz		11650	43.39	-10.61	54	44.64	39.6	20.23	61.08	151	148	A	V
		17475	52.06	-16.14	68.2	43.37	41.97	25.25	58.53	100	0	P	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	57.61	-10.59	68.2	41.27	31.7	13.68	29.04	235	53	P	H
		5699	72.79	-31.67	104.46	56.29	31.8	13.73	29.03	235	53	P	H
		5719.2	86.04	-24.54	110.58	69.44	31.88	13.75	29.03	235	53	P	H
		5724.6	87.62	-33.67	121.29	71	31.9	13.75	29.03	235	53	P	H
	*	5755	116.38	-	-	99.61	32.01	13.78	29.02	235	53	P	H
	*	5755	108.57	-	-	91.8	32.01	13.78	29.02	235	53	A	H
		5850.8	59.4	-60.98	120.38	42.49	32.1	13.81	29	235	53	P	H
		5857	57.7	-52.54	110.24	40.77	32.11	13.81	28.99	235	53	P	H
		5924	57.01	-11.93	68.94	39.88	32.3	13.81	28.98	235	53	P	H
		5936	56.05	-12.15	68.2	38.88	32.34	13.81	28.98	235	53	P	H
802.11ac													H
VHT40													H
CH 151		5618	54.75	-13.45	68.2	38.44	31.7	13.66	29.05	262	6	P	V
5755MHz		5698.4	65.95	-38.07	104.02	49.45	31.8	13.73	29.03	262	6	P	V
		5717.2	82.97	-27.05	110.02	66.38	31.87	13.75	29.03	262	6	P	V
		5720.8	81.99	-30.63	112.62	65.39	31.88	13.75	29.03	262	6	P	V
	*	5755	112.85	-	-	96.08	32.01	13.78	29.02	262	6	P	V
	*	5755	104.96	-	-	88.19	32.01	13.78	29.02	262	6	A	V
		5850.2	55.64	-66.1	121.74	38.73	32.1	13.81	29	262	6	P	V
		5867.6	56.19	-51.08	107.27	39.23	32.14	13.81	28.99	262	6	P	V
		5886.4	55.4	-41.34	96.74	38.41	32.17	13.81	28.99	262	6	P	V
		5939.2	55.38	-12.82	68.2	38.18	32.36	13.81	28.97	262	6	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)
		5634	56.76	-11.44	68.2	40.44	31.7	13.67	29.05	236	55	P	H
		5695.8	61.63	-40.47	102.1	45.14	31.79	13.73	29.03	236	55	P	H
		5718.6	68.91	-41.5	110.41	52.32	31.87	13.75	29.03	236	55	P	H
		5723.2	69.68	-48.42	118.1	53.07	31.89	13.75	29.03	236	55	P	H
	*	5795	116.6	-	-	99.7	32.09	13.82	29.01	236	55	P	H
	*	5795	108.27	-	-	91.37	32.09	13.82	29.01	236	55	A	H
		5852.6	72.8	-43.47	116.27	55.88	32.11	13.81	29	236	55	P	H
		5856.4	69.56	-40.85	110.41	52.63	32.11	13.81	28.99	236	55	P	H
		5876.8	64.6	-39.26	103.86	47.63	32.15	13.81	28.99	236	55	P	H
		5930.4	56.73	-11.47	68.2	39.58	32.32	13.81	28.98	236	55	P	H
802.11ac													H
VHT40													H
CH 159		5646	55.22	-12.98	68.2	38.88	31.7	13.68	29.04	257	4	P	V
5795MHz		5697.6	57.93	-45.5	103.43	41.43	31.8	13.73	29.03	257	4	P	V
		5718.8	63.44	-47.02	110.46	46.84	31.88	13.75	29.03	257	4	P	V
		5720	63.41	-47.39	110.8	46.81	31.88	13.75	29.03	257	4	P	V
	*	5795	112.47	-	-	95.57	32.09	13.82	29.01	257	4	P	V
	*	5795	104.61	-	-	87.71	32.09	13.82	29.01	257	4	A	V
		5851.2	68.28	-51.18	119.46	51.37	32.1	13.81	29	257	4	P	V
		5859.2	66.37	-43.25	109.62	49.43	32.12	13.81	28.99	257	4	P	V
		5875.2	62.55	-42.5	105.05	45.58	32.15	13.81	28.99	257	4	P	V
		5933.2	56.4	-11.8	68.2	39.24	32.33	13.81	28.98	257	4	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	49.9	-24.1	74	50.61	40.07	20.13	60.91	100	0	P	H
		17265	52.66	-15.54	68.2	45.31	40.96	25.17	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.93	-24.07	74	50.64	40.07	20.13	60.91	100	0	P	V
5755MHz		17265	51.78	-16.42	68.2	44.43	40.96	25.17	58.78	100	0	P	V
													V
													V
		11590	49.95	-24.05	74	50.94	39.83	20.19	61.01	100	0	P	H
		17385	51.65	-16.55	68.2	43.55	41.52	25.22	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.94	-24.06	74	50.93	39.83	20.19	61.01	100	0	P	V
5795MHz		17385	52.25	-15.95	68.2	44.15	41.52	25.22	58.64	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)
		5649	66.85	-1.35	68.2	50.51	31.7	13.68	29.04	235	54	P	H
		5698.6	83.87	-20.3	104.17	67.37	31.8	13.73	29.03	235	54	P	H
		5720	87.55	-23.25	110.8	70.95	31.88	13.75	29.03	235	54	P	H
		5720.4	87.94	-23.77	111.71	71.34	31.88	13.75	29.03	235	54	P	H
	*	5775	112.54	-	-	95.7	32.05	13.8	29.01	235	54	P	H
	*	5775	104.8	-	-	87.96	32.05	13.8	29.01	235	54	A	H
		5850	84.41	-37.79	122.2	67.5	32.1	13.81	29	235	54	P	H
		5856.2	80.96	-29.5	110.46	64.03	32.11	13.81	28.99	235	54	P	H
		5875	75.63	-29.57	105.2	58.66	32.15	13.81	28.99	235	54	P	H
		5925.8	61.62	-6.58	68.2	44.49	32.3	13.81	28.98	235	54	P	H
802.11ac													H
VHT80													H
CH 155		5646.4	60.12	-8.08	68.2	43.78	31.7	13.68	29.04	202	293	P	V
5775MHz		5698.8	77.99	-26.33	104.32	61.49	31.8	13.73	29.03	202	293	P	V
		5719.6	83.2	-27.49	110.69	66.6	31.88	13.75	29.03	202	293	P	V
		5720.6	83.32	-28.85	112.17	66.72	31.88	13.75	29.03	202	293	P	V
	*	5775	108.86	-	-	92.02	32.05	13.8	29.01	202	293	P	V
	*	5775	101.12	-	-	84.28	32.05	13.8	29.01	202	293	A	V
		5851.4	78.76	-40.25	119.01	61.85	32.1	13.81	29	202	293	P	V
		5862	77.7	-31.14	108.84	60.76	32.12	13.81	28.99	202	293	P	V
		5879	70.1	-32.13	102.23	53.12	32.16	13.81	28.99	202	293	P	V
		5942.4	58.06	-10.14	68.2	40.85	32.37	13.81	28.97	202	293	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	49.82	-24.18	74	50.67	39.95	20.16	60.96	100	0	P	H
		17325	52.63	-15.57	68.2	44.92	41.22	25.2	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.98	-24.02	74	50.83	39.95	20.16	60.96	100	0	P	V
5775MHz		17325	53.1	-15.1	68.2	45.39	41.22	25.2	58.71	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

WIFI 802.11ac VHT80 (SHF @ 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)
802.11ac VHT80 Full SHF		21674	38.73	-29.47	68.2	41.77	37.97	12.46	53.47	150	0	P	H
		30606	42.73	-25.47	68.2	40.67	40.46	16.84	55.24	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		26712	40.01	-28.19	68.2	38.11	39.82	15.08	53	150	0	P	V
		30232	40.65	-27.55	68.2	39.28	40.24	16.22	55.09	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
5GHz 802.11ac VHT80 LF		103.72	25.26	-18.24	43.5	39.68	16.29	1.54	32.25	-	-	P	H
		119.24	28.75	-14.75	43.5	42.07	17.25	1.69	32.26	100	0	P	H
		357.86	24.51	-21.49	46	33.03	20.62	3.13	32.27	-	-	P	H
		418	28.07	-17.93	46	34.27	22.57	3.41	32.18	-	-	P	H
		469.41	29.37	-16.63	46	34.38	23.5	3.61	32.12	-	-	P	H
		551.86	29.3	-16.7	46	31.82	25.5	3.98	32	-	-	P	H
													H
													H
													H
													H
													H
													H
		42.61	29.08	-10.92	40	42.65	17.95	0.82	32.34	100	0	P	V
		73.65	25.7	-14.3	40	44.36	12.45	1.23	32.34	-	-	P	V
		135.73	23.48	-20.02	43.5	36.61	17.32	1.83	32.28	-	-	P	V
		264.74	21.84	-24.16	46	31.45	20.04	2.7	32.35	-	-	P	V
		402.48	27.87	-18.13	46	34.78	21.94	3.35	32.2	-	-	P	V
		474.26	29.74	-16.26	46	34.66	23.58	3.62	32.12	-	-	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. 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)
		5622.2	55.83	-12.37	68.2	39.52	31.7	13.66	29.05	228	47	P	H
		5688.4	59.64	-37	96.64	43.17	31.78	13.72	29.03	228	47	P	H
		5719.6	73.86	-36.83	110.69	57.26	31.88	13.75	29.03	228	47	P	H
		5724.6	80.07	-41.22	121.29	63.45	31.9	13.75	29.03	228	47	P	H
	*	5745	117.74	-	-	101.01	31.98	13.77	29.02	228	47	P	H
	*	5745	106.26	-	-	89.53	31.98	13.77	29.02	228	47	A	H
802.11ac													H
VHT20													H
CH 149		5635.8	55.62	-12.58	68.2	39.3	31.7	13.67	29.05	200	0	P	V
5745MHz		5697	58.41	-44.58	102.99	41.92	31.79	13.73	29.03	200	0	P	V
		5719.8	69.6	-41.14	110.74	53	31.88	13.75	29.03	200	0	P	V
		5723.4	75.48	-43.07	118.55	58.87	31.89	13.75	29.03	200	0	P	V
	*	5745	114.16	-	-	97.43	31.98	13.77	29.02	200	0	P	V
	*	5745	100.93	-	-	84.2	31.98	13.77	29.02	200	0	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)
		5624.8	56.33	-11.87	68.2	40.02	31.7	13.66	29.05	224	47	P	H
		5685.4	58.28	-36.15	94.43	41.83	31.77	13.72	29.04	224	47	P	H
		5718.4	68.38	-41.97	110.35	51.79	31.87	13.75	29.03	224	47	P	H
		5722.8	61.15	-56.03	117.18	44.54	31.89	13.75	29.03	224	47	P	H
	*	5785	120.07	-	-	103.2	32.07	13.81	29.01	224	47	P	H
	*	5785	110.96	-	-	94.09	32.07	13.81	29.01	224	47	A	H
		5851.2	62.05	-57.41	119.46	45.14	32.1	13.81	29	224	47	P	H
		5871	62.43	-43.89	106.32	45.47	32.14	13.81	28.99	224	47	P	H
		5879.8	60.4	-41.23	101.63	43.42	32.16	13.81	28.99	224	47	P	H
		5930.8	57.11	-11.09	68.2	39.96	32.32	13.81	28.98	224	47	P	H
802.11ac													H
VHT20													H
CH 157		5619.6	55.4	-12.8	68.2	39.09	31.7	13.66	29.05	206	0	P	V
5785MHz		5683	55.47	-37.19	92.66	39.03	31.77	13.71	29.04	206	0	P	V
		5717.8	58.77	-51.41	110.18	42.18	31.87	13.75	29.03	206	0	P	V
		5725	58.37	-63.83	122.2	41.75	31.9	13.75	29.03	206	0	P	V
	*	5785	115.9	-	-	99.03	32.07	13.81	29.01	206	0	P	V
	*	5785	104.26	-	-	87.39	32.07	13.81	29.01	206	0	A	V
		5854.6	59.58	-52.13	111.71	42.65	32.11	13.81	28.99	206	0	P	V
		5855	59.46	-51.34	110.8	42.53	32.11	13.81	28.99	206	0	P	V
		5881.8	57.56	-42.59	100.15	40.58	32.16	13.81	28.99	206	0	P	V
		5927.8	56.75	-11.45	68.2	39.61	32.31	13.81	28.98	206	0	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	120.15	-	-	103.23	32.1	13.82	29	226	47	P	H
	*	5825	108.04	-	-	91.12	32.1	13.82	29	226	47	A	H
		5850	80.55	-41.65	122.2	63.64	32.1	13.81	29	226	47	P	H
		5860	76.58	-32.82	109.4	59.64	32.12	13.81	28.99	226	47	P	H
		5877.4	66.92	-36.5	103.42	49.95	32.15	13.81	28.99	226	47	P	H
		5928.4	58.57	-9.63	68.2	41.43	32.31	13.81	28.98	226	47	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	116.79	-	-	99.87	32.1	13.82	29	189	0	P	V
5825MHz	*	5825	106.24	-	-	89.32	32.1	13.82	29	189	0	A	V
		5851.8	78.2	-39.9	118.1	61.29	32.1	13.81	29	189	0	P	V
		5855.4	70.88	-39.81	110.69	53.95	32.11	13.81	28.99	189	0	P	V
		5882.6	60.82	-38.74	99.56	43.83	32.17	13.81	28.99	189	0	P	V
		5937.4	57.09	-11.11	68.2	39.91	32.35	13.81	28.98	189	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 (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	49.9	-24.1	74	50.59	40.1	20.11	60.9	100	0	P	H
		17235	51.47	-16.73	68.2	44.29	40.84	25.16	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.84	-24.16	74	50.53	40.1	20.11	60.9	100	0	P	V
5745MHz		17235	51.23	-16.97	68.2	44.05	40.84	25.16	58.82	100	0	P	V
													V
													V
		11570	49.5	-24.5	74	50.41	39.89	20.18	60.98	100	0	P	H
		17355	51.06	-17.14	68.2	43.14	41.38	25.21	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.56	-24.44	74	50.47	39.89	20.18	60.98	100	0	P	V
5785MHz		17355	50.71	-17.49	68.2	42.79	41.38	25.21	58.67	100	0	P	V
													V
													V
		11650	49.75	-24.25	74	51	39.6	20.23	61.08	100	0	P	H
		17475	51.64	-16.56	68.2	42.95	41.97	25.25	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.88	-24.12	74	51.13	39.6	20.23	61.08	100	0	P	V
5825MHz		17475	51.26	-16.94	68.2	42.57	41.97	25.25	58.53	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)
		5641.2	65.7	-2.5	68.2	49.37	31.7	13.68	29.05	230	50	P	H
		5699.6	79.16	-25.75	104.91	62.66	31.8	13.73	29.03	230	50	P	H
		5715.4	91.89	-17.62	109.51	75.32	31.86	13.74	29.03	230	50	P	H
		5724	92.48	-27.44	119.92	75.86	31.9	13.75	29.03	230	50	P	H
	*	5755	117.56	-	-	100.79	32.01	13.78	29.02	230	50	P	H
	*	5755	110.22	-	-	93.45	32.01	13.78	29.02	230	50	A	H
		5850.4	67.04	-54.25	121.29	50.13	32.1	13.81	29	230	50	P	H
		5860.2	65.95	-43.39	109.34	49.01	32.12	13.81	28.99	230	50	P	H
		5883.8	63	-35.67	98.67	46.01	32.17	13.81	28.99	230	50	P	H
		5926	57.01	-11.19	68.2	39.88	32.3	13.81	28.98	230	50	P	H
802.11ac													H
VHT40													H
CH 151		5642.4	59.88	-8.32	68.2	43.55	31.7	13.68	29.05	231	4	P	V
5755MHz		5697.2	70.96	-32.18	103.14	54.47	31.79	13.73	29.03	231	4	P	V
		5719.2	87.87	-22.71	110.58	71.27	31.88	13.75	29.03	231	4	P	V
		5720.6	89.17	-23	112.17	72.57	31.88	13.75	29.03	231	4	P	V
	*	5755	113.94	-	-	97.17	32.01	13.78	29.02	231	4	P	V
	*	5755	106.31	-	-	89.54	32.01	13.78	29.02	231	4	A	V
		5851.4	62.63	-56.38	119.01	45.72	32.1	13.81	29	231	4	P	V
		5860	60.74	-48.66	109.4	43.8	32.12	13.81	28.99	231	4	P	V
		5875.8	57.7	-46.91	104.61	40.73	32.15	13.81	28.99	231	4	P	V
		5944.2	55.9	-12.3	68.2	38.68	32.38	13.81	28.97	231	4	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)
		5646	58.72	-9.48	68.2	42.38	31.7	13.68	29.04	223	46	P	H
		5699.2	68.1	-36.51	104.61	51.6	31.8	13.73	29.03	223	46	P	H
		5717	72.11	-37.85	109.96	55.52	31.87	13.75	29.03	223	46	P	H
		5723.8	73.83	-45.63	119.46	57.21	31.9	13.75	29.03	223	46	P	H
	*	5795	118.21	-	-	101.31	32.09	13.82	29.01	223	46	P	H
	*	5795	110.48	-	-	93.58	32.09	13.82	29.01	223	46	A	H
		5851.8	79.61	-38.49	118.1	62.7	32.1	13.81	29	223	46	P	H
		5857	78.71	-31.53	110.24	61.78	32.11	13.81	28.99	223	46	P	H
		5875.6	72.89	-31.86	104.75	55.92	32.15	13.81	28.99	223	46	P	H
		5929.6	63.18	-5.02	68.2	46.03	32.32	13.81	28.98	223	46	P	H
802.11ac													H
VHT40													H
CH 159		5622.4	55.45	-12.75	68.2	39.14	31.7	13.66	29.05	242	8	P	V
5795MHz		5699.6	61.87	-43.04	104.91	45.37	31.8	13.73	29.03	242	8	P	V
		5717.8	69.42	-40.76	110.18	52.83	31.87	13.75	29.03	242	8	P	V
		5724.6	69.38	-51.91	121.29	52.76	31.9	13.75	29.03	242	8	P	V
	*	5795	113.84	-	-	96.94	32.09	13.82	29.01	242	8	P	V
	*	5795	107.54	-	-	90.64	32.09	13.82	29.01	242	8	A	V
		5850.6	75.34	-45.49	120.83	58.43	32.1	13.81	29	242	8	P	V
		5856	73.75	-36.77	110.52	56.82	32.11	13.81	28.99	242	8	P	V
		5876.6	66.67	-37.34	104.01	49.7	32.15	13.81	28.99	242	8	P	V
		5933	58.03	-10.17	68.2	40.87	32.33	13.81	28.98	242	8	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	49.99	-24.01	74	50.7	40.07	20.13	60.91	100	0	P	H
		17265	50.68	-17.52	68.2	43.33	40.96	25.17	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.9	-24.1	74	50.61	40.07	20.13	60.91	100	0	P	V
5755MHz		17265	50.28	-17.92	68.2	42.93	40.96	25.17	58.78	100	0	P	V
													V
													V
		11590	49.8	-24.2	74	50.79	39.83	20.19	61.01	100	0	P	H
		17385	52.71	-15.49	68.2	44.61	41.52	25.22	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.81	-24.19	74	50.8	39.83	20.19	61.01	100	0	P	V
5795MHz		17385	52.29	-15.91	68.2	44.19	41.52	25.22	58.64	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)
		5646.6	66.79	-1.41	68.2	50.45	31.7	13.68	29.04	235	49	P	H
		5698.6	83.43	-20.74	104.17	66.93	31.8	13.73	29.03	235	49	P	H
		5720	87.29	-23.51	110.8	70.69	31.88	13.75	29.03	235	49	P	H
		5723.6	87.73	-31.28	119.01	71.12	31.89	13.75	29.03	235	49	P	H
	*	5775	113.04	-	-	96.2	32.05	13.8	29.01	235	49	P	H
	*	5775	104.16	-	-	87.32	32.05	13.8	29.01	235	49	A	H
		5854.4	84.9	-27.27	112.17	67.97	32.11	13.81	28.99	235	49	P	H
		5870	85.57	-21.03	106.6	68.61	32.14	13.81	28.99	235	49	P	H
		5875.2	79.27	-25.78	105.05	62.3	32.15	13.81	28.99	235	49	P	H
		5939.8	66	-2.2	68.2	48.8	32.36	13.81	28.97	235	49	P	H
802.11ac													H
VHT80													H
CH 155		5646.2	65.85	-2.35	68.2	49.51	31.7	13.68	29.04	244	4	P	V
5775MHz		5700	80.39	-24.81	105.2	63.89	31.8	13.73	29.03	244	4	P	V
		5720	84.66	-26.14	110.8	68.06	31.88	13.75	29.03	244	4	P	V
		5720.8	86.86	-25.76	112.62	70.26	31.88	13.75	29.03	244	4	P	V
	*	5775	110.54	-	-	93.7	32.05	13.8	29.01	244	4	P	V
	*	5775	102.41	-	-	85.57	32.05	13.8	29.01	244	4	A	V
		5852	80.88	-36.76	117.64	63.97	32.1	13.81	29	244	4	P	V
		5870	79.87	-26.73	106.6	62.91	32.14	13.81	28.99	244	4	P	V
		5876.8	73.04	-30.82	103.86	56.07	32.15	13.81	28.99	244	4	P	V
		5930	59.9	-8.3	68.2	42.75	32.32	13.81	28.98	244	4	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	49.79	-24.21	74	50.64	39.95	20.16	60.96	100	0	P	H
		17325	50.91	-17.29	68.2	43.2	41.22	25.2	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.72	-24.28	74	50.57	39.95	20.16	60.96	100	0	P	V
5775MHz		17325	51.59	-16.61	68.2	43.88	41.22	25.2	58.71	100	0	P	V
													V
													V

Remark

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

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

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)
		33312	44.02	-24.18	68.2	39.62	40.84	17.78	54.22	150	0	P	H
		38504	46.21	-21.99	68.2	38.88	44	19.22	55.89	150	0	P	H
													H
													H
													H
													H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		23522	41.65	-26.55	68.2	42.19	39.73	13.03	53.3	150	0	P	V
SHF		38108	47.07	-21.13	68.2	39.91	43.29	19.85	55.98	150	0	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

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)
		30	21.07	-18.93	40	28.21	24.39	0.66	32.19	-	-	P	H
		167.74	26.22	-17.28	43.5	40.71	15.75	2.06	32.3	-	-	P	H
		237.58	29.85	-16.15	46	42.59	17.07	2.53	32.34	-	-	P	H
		328.76	32.66	-13.34	46	42.29	19.66	3.02	32.31	-	-	P	H
		449.04	37.29	-8.71	46	42.8	23.1	3.54	32.15	100	0	P	H
		722.58	34.04	-11.96	46	34.51	27.1	4.63	32.2	-	-	P	H
													H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		74.62	23.73	-16.27	40	42.21	12.62	1.24	32.34	-	-	P	V
LF		185.2	35.51	-7.99	43.5	50.87	14.78	2.17	32.31	-	-	P	V
		233.7	23.95	-22.05	46	37.13	16.65	2.5	32.33	-	-	P	V
		301.6	26.37	-19.63	46	36.58	19.24	2.91	32.36	-	-	P	V
		385.02	33.53	-12.47	46	41.25	21.24	3.26	32.22	-	-	P	V
		719.67	39.91	-6.09	46	40.54	26.94	4.62	32.19	100	0	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	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(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, Karl Hou and CR Liao	**Temperature :**	20~25°C
		Relative Humidity :	50~65%

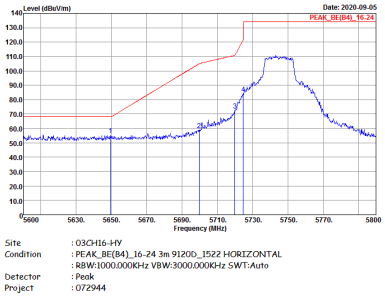
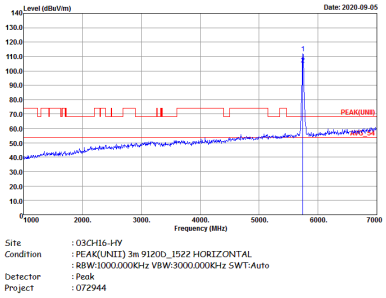
Note symbol

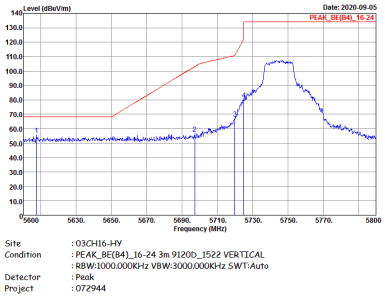
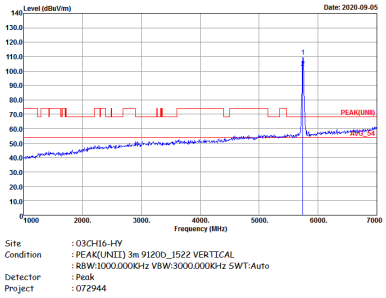
-L	**Low channel location**
-R	**High channel location**

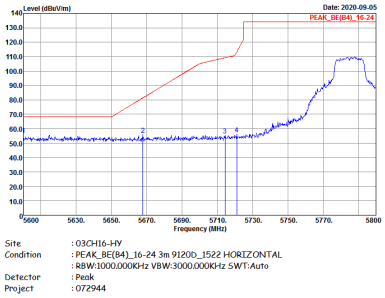
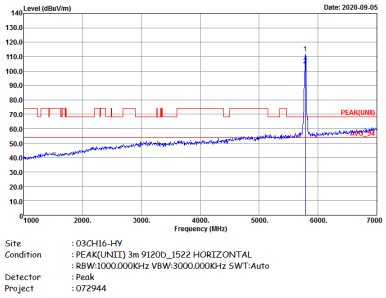
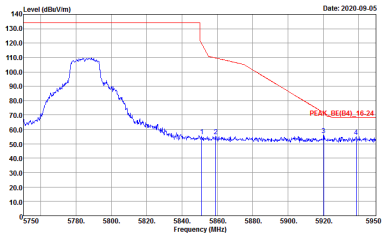
<CDD Mode>

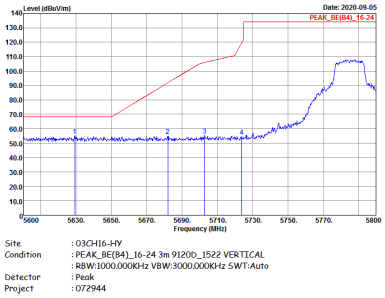
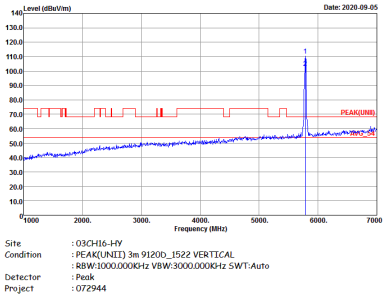
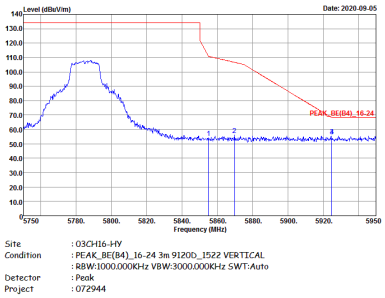
Band 4 - 5725~5850MHz

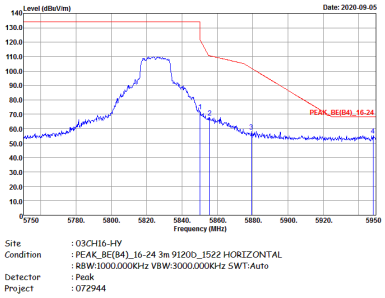
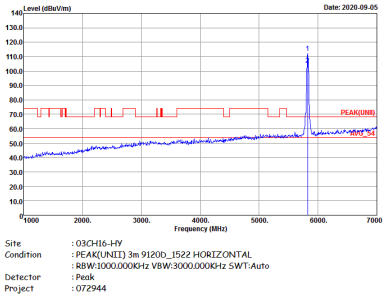
WIFI 802.11a (Band Edge @ 3m)

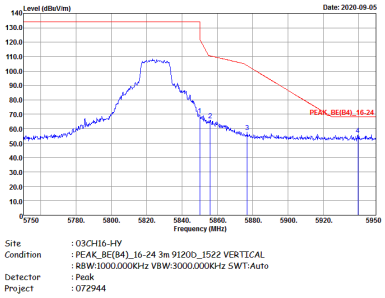
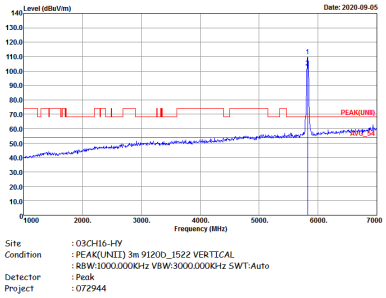
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

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

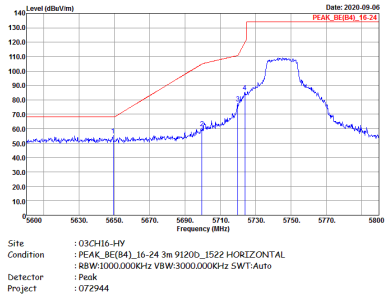
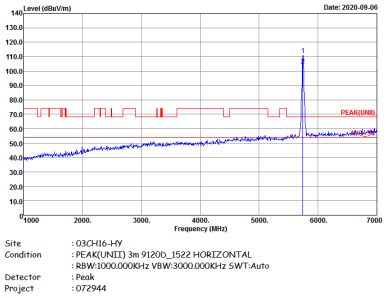
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

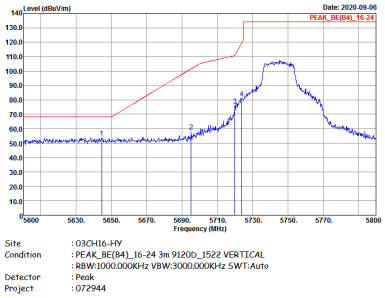
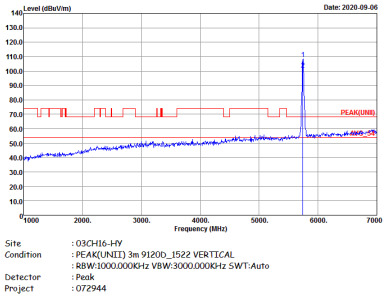
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

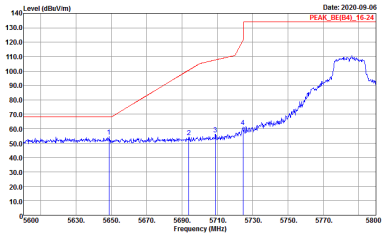
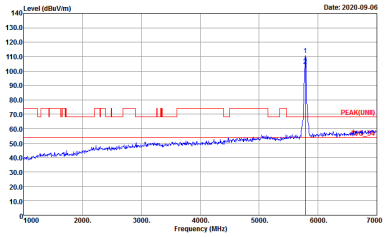
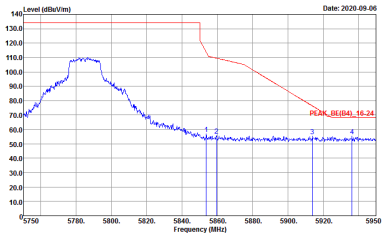
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

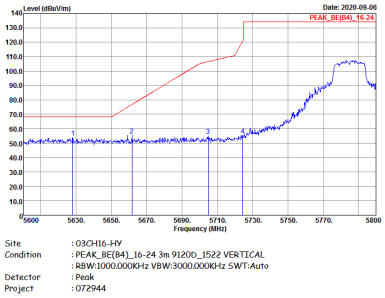
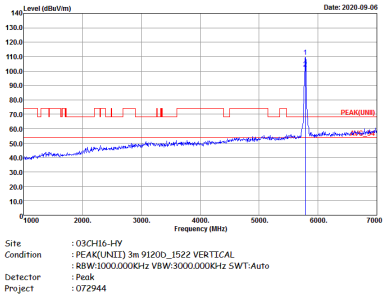
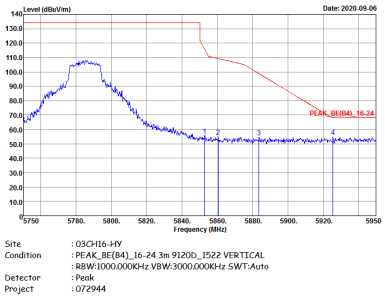
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

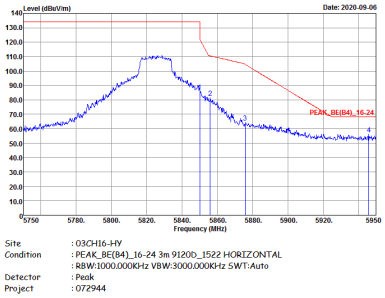
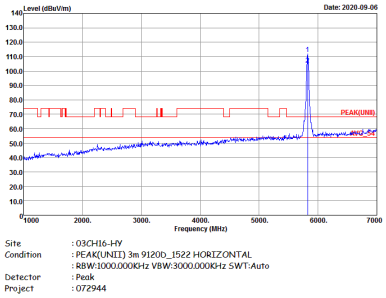
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

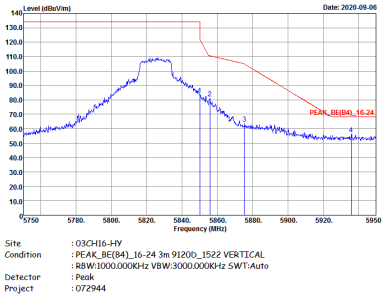
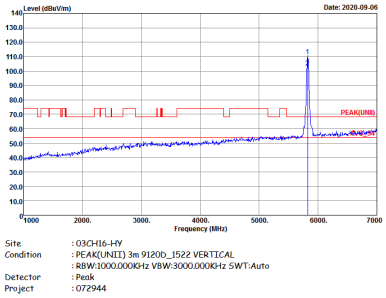
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

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

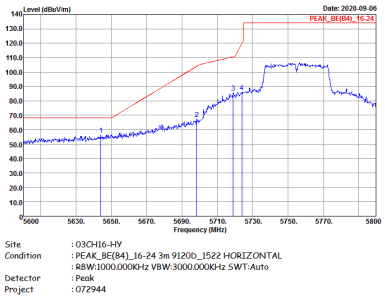
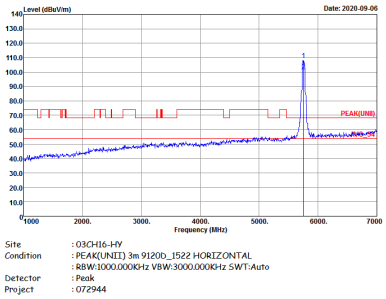
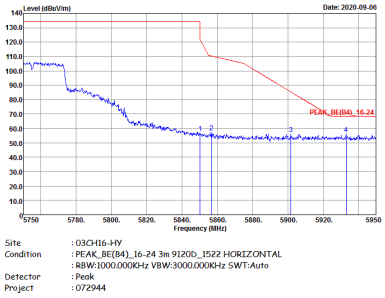
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

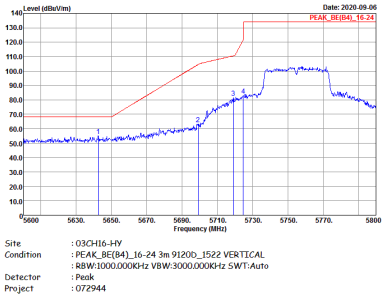
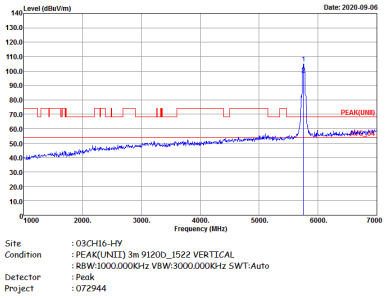
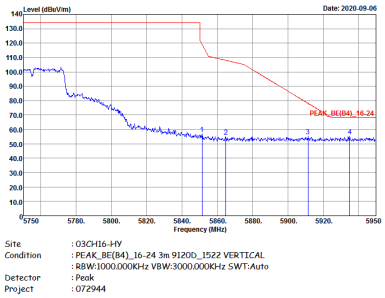
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

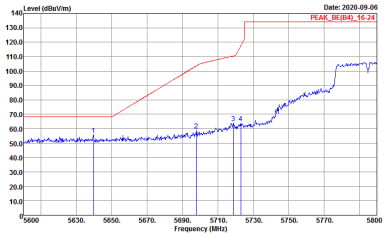
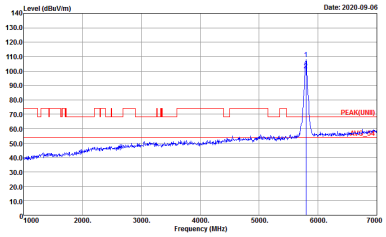
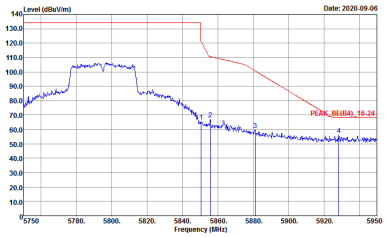
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

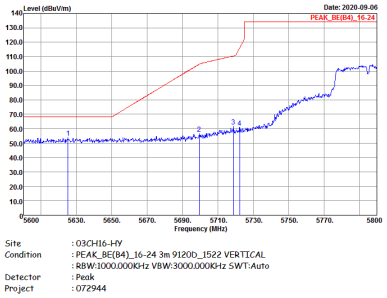
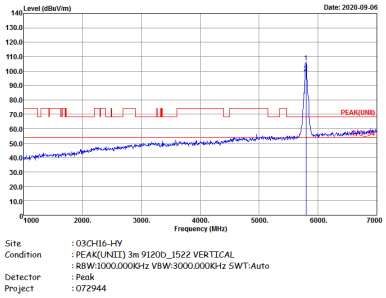
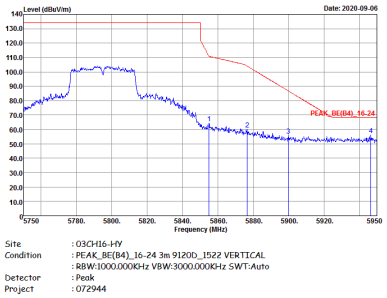
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

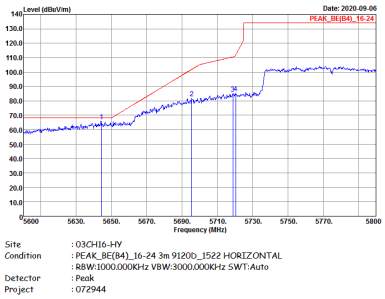
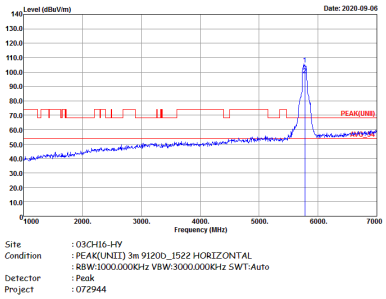
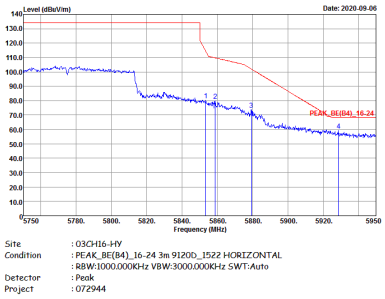
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

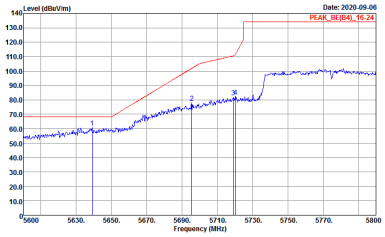
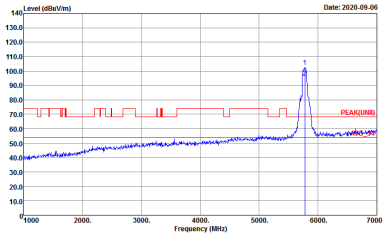
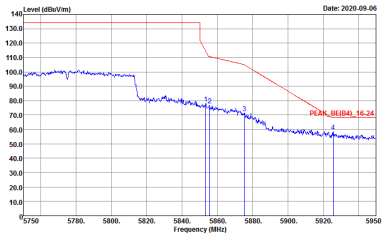
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

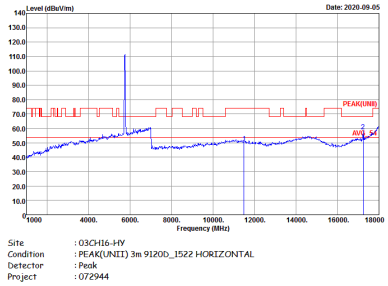
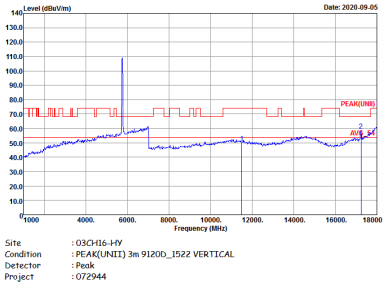
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

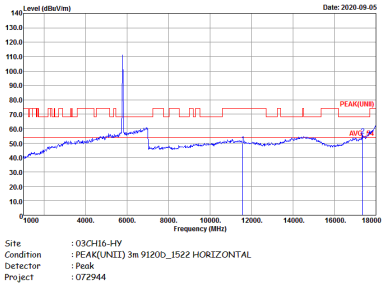
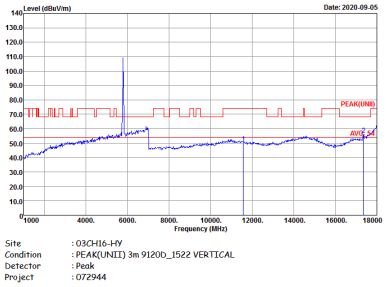
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

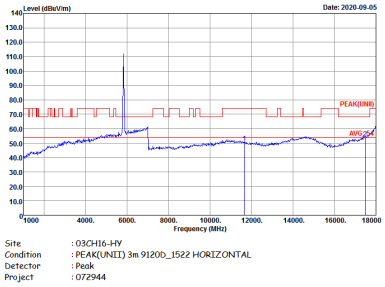
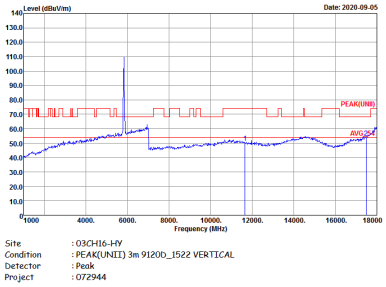
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

Band 4 - 5725~5850MHz

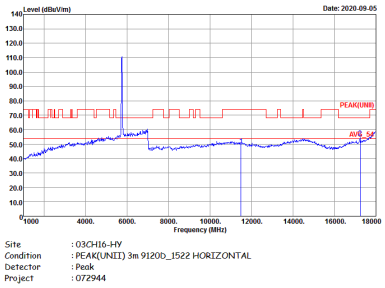
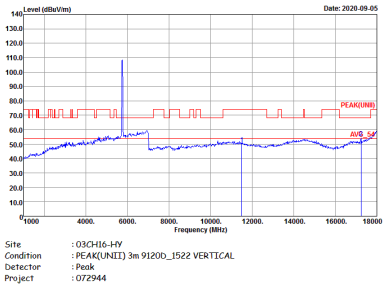
WIFI 802.11a (Harmonic @ 3m)

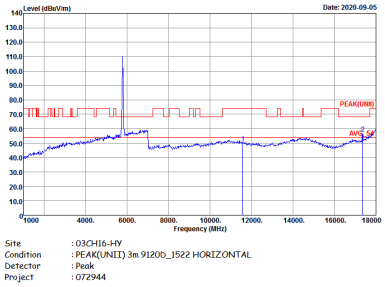
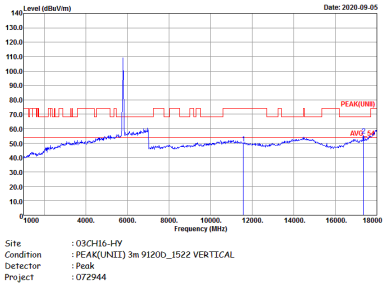
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

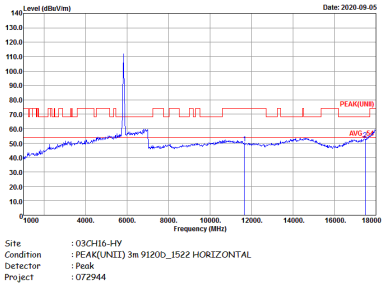
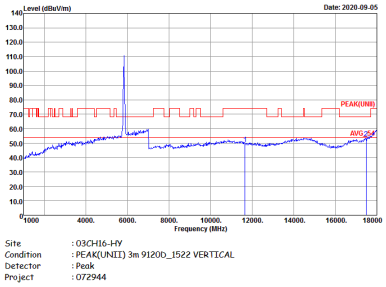
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

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

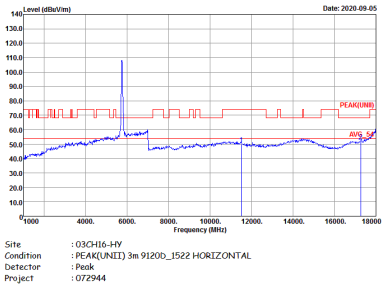
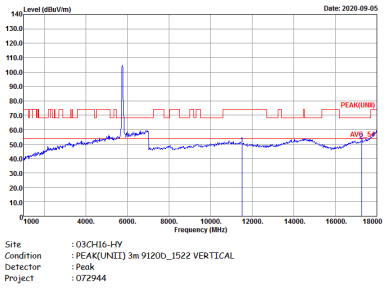
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

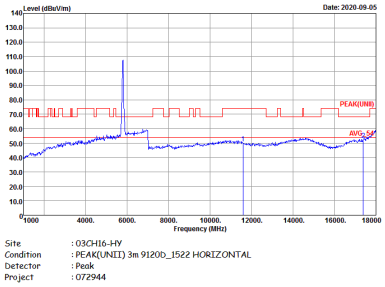
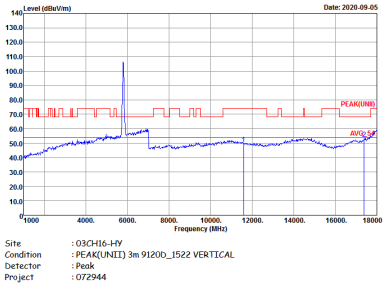
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

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

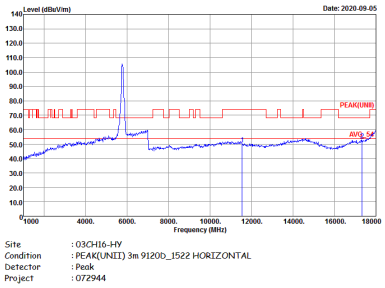
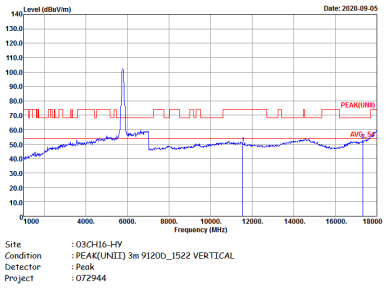
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

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.		

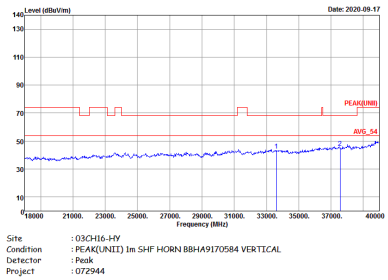
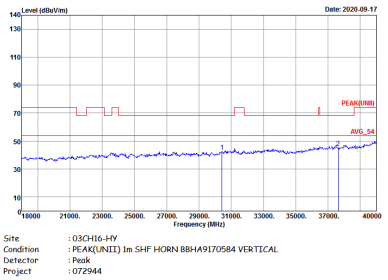
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

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.		

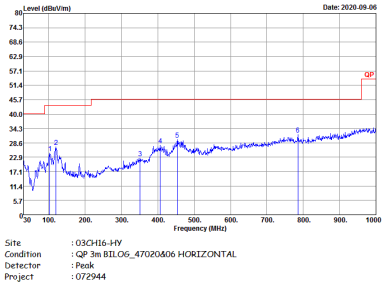
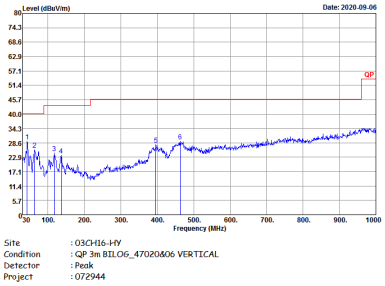
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1	Horizontal	Vertical
QP / Peak		

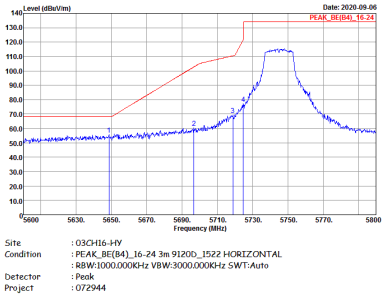
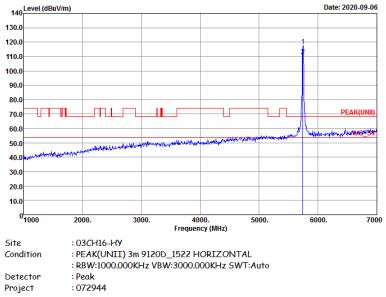
Emission below 1GHz

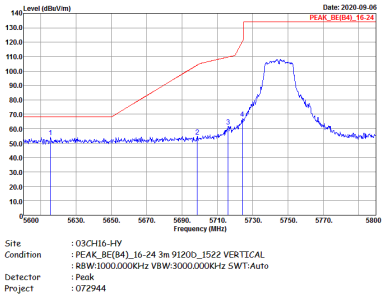
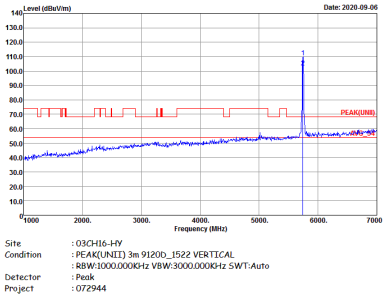
5GHz WIFI 802.11ac VHT80 (LF)

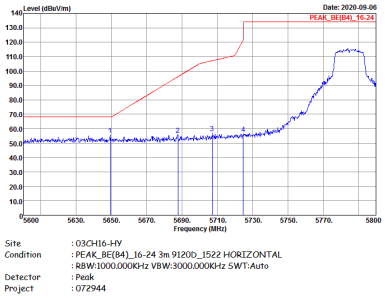
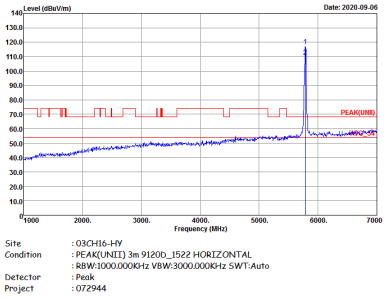
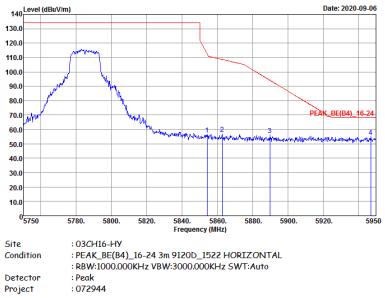
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

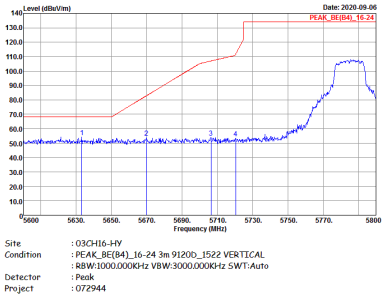
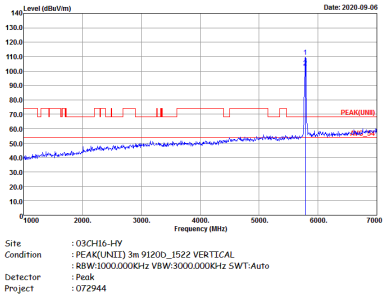
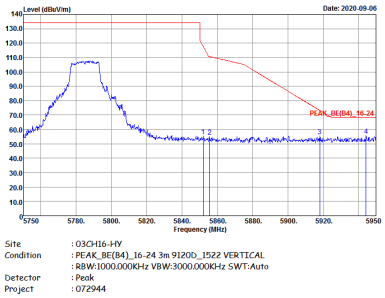
Band 4 - 5725~5850MHz

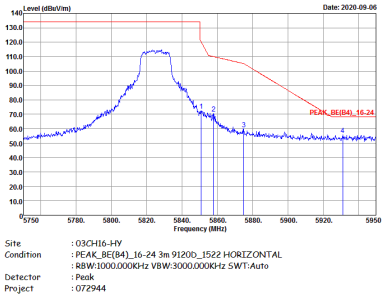
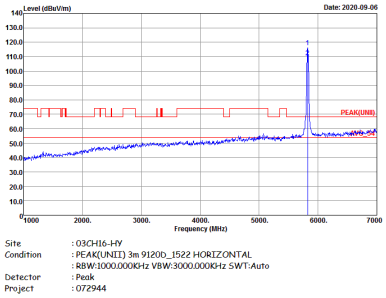
WIFI 802.11a (Band Edge @ 3m)

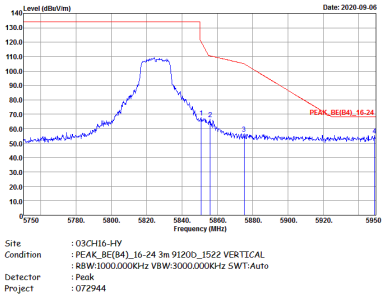
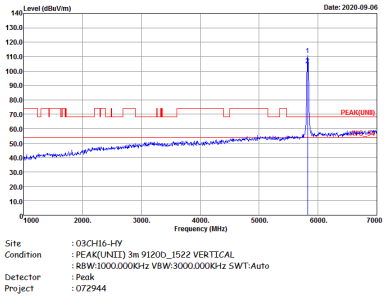
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

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

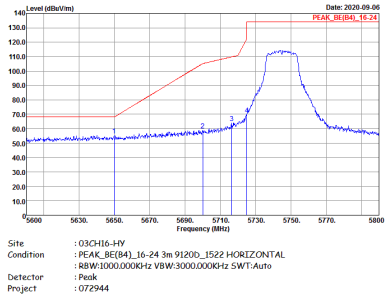
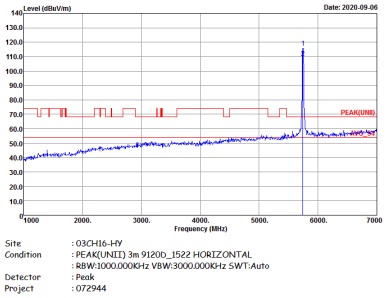
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

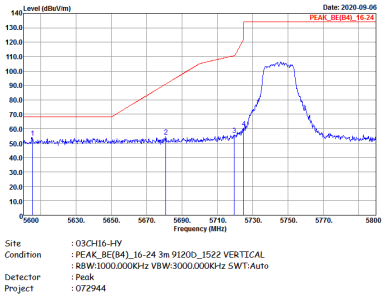
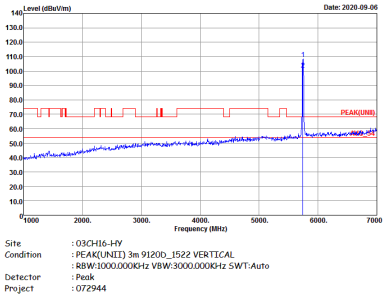
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

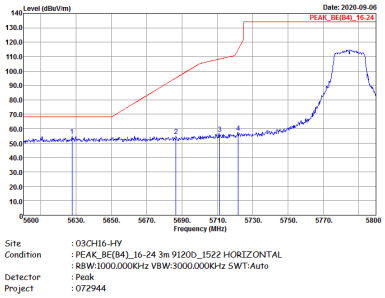
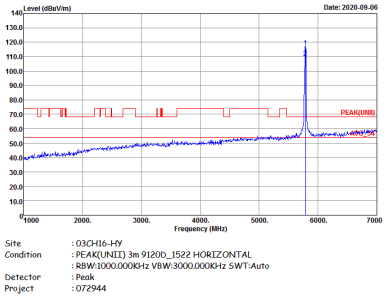
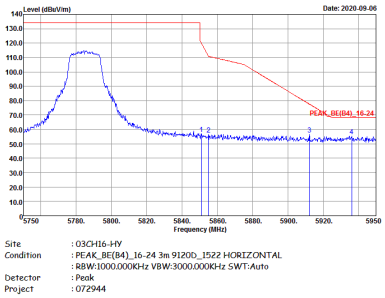
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

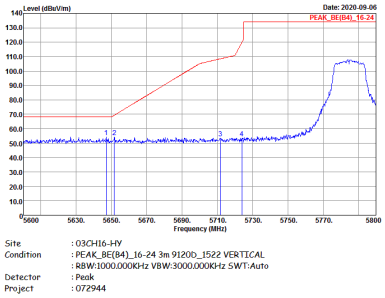
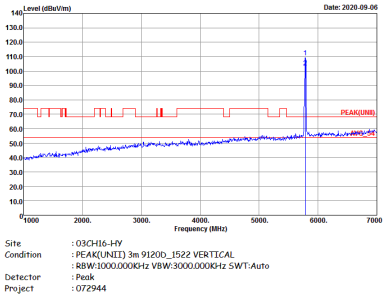
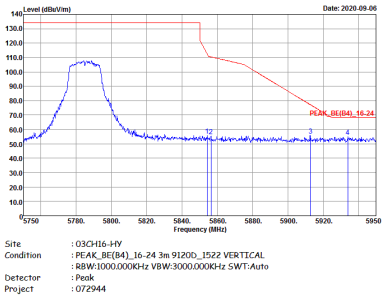
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

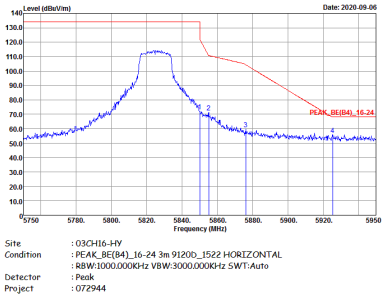
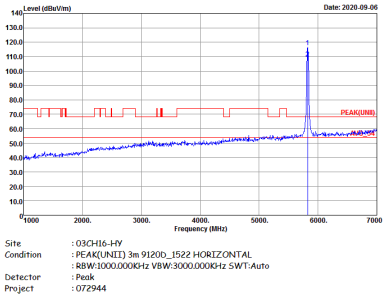
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

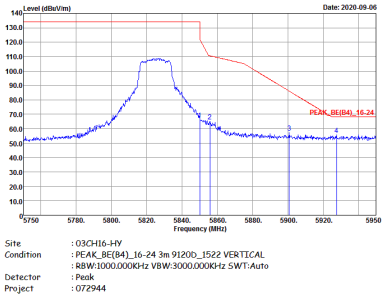
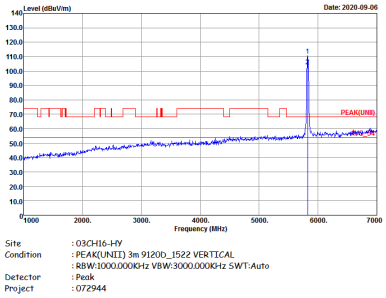
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak Avg.		

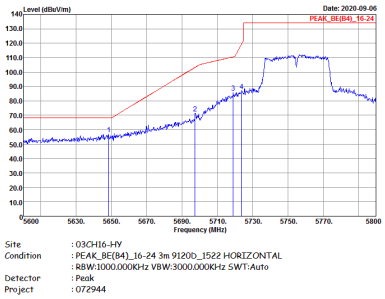
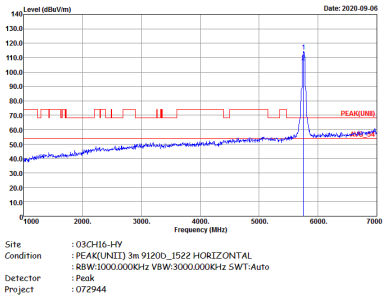
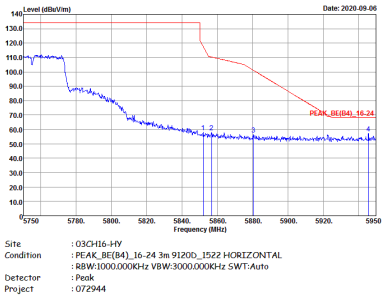
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

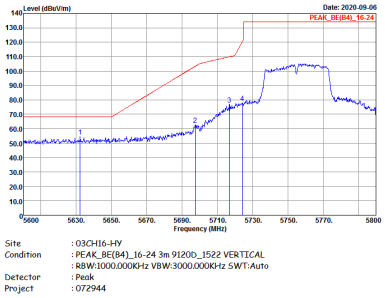
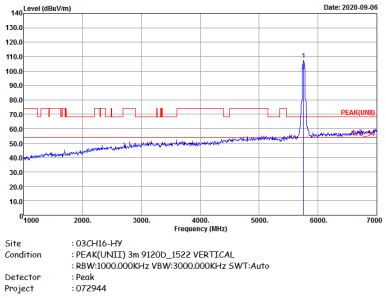
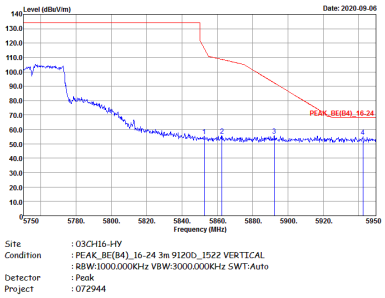
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

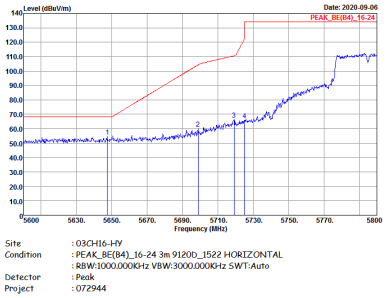
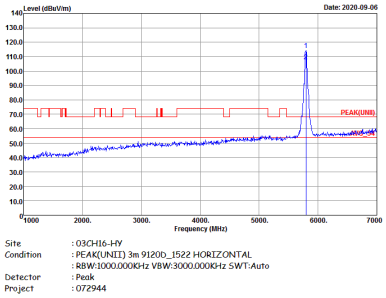
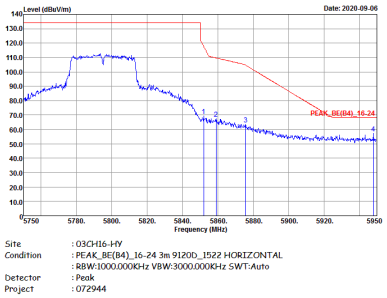
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

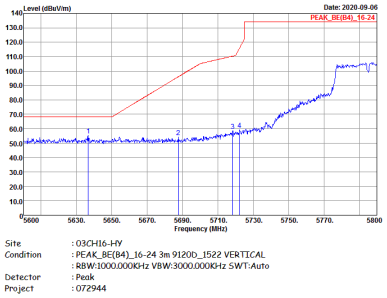
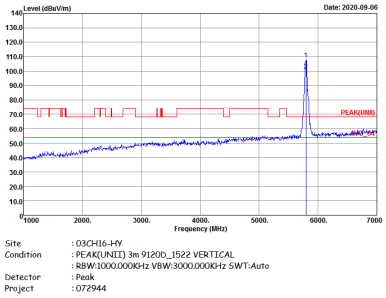
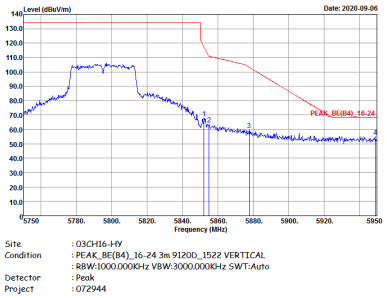
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

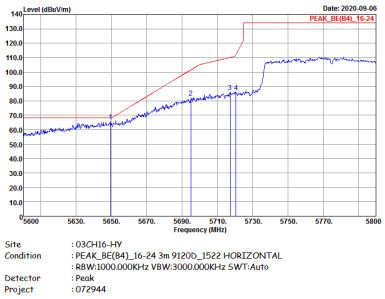
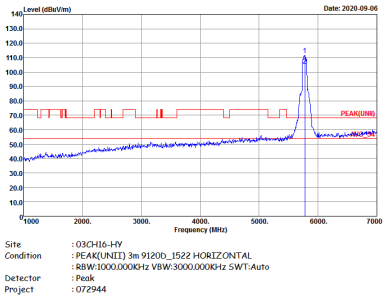
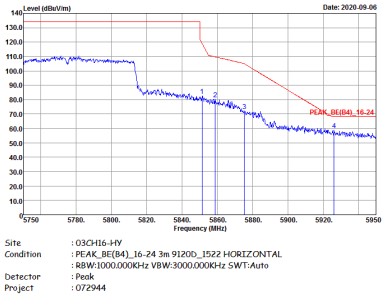
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

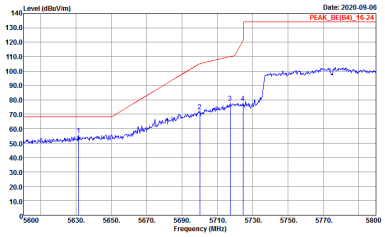
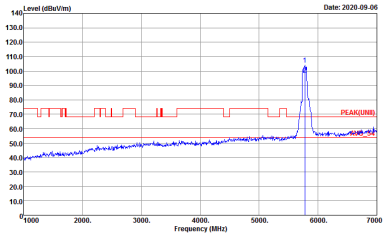
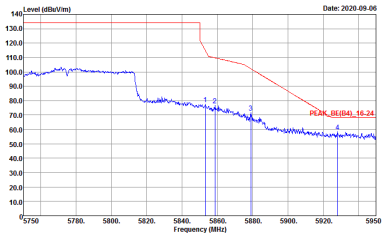
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

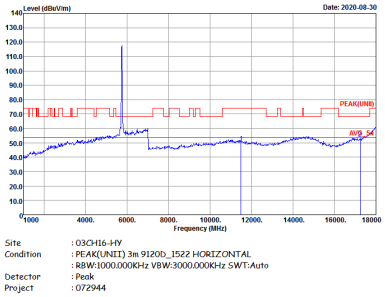
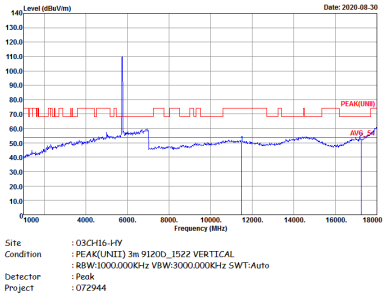
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

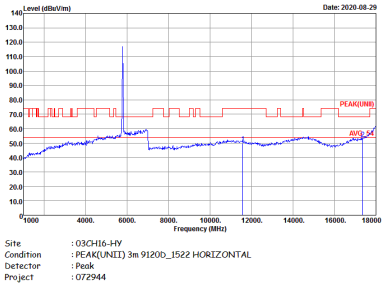
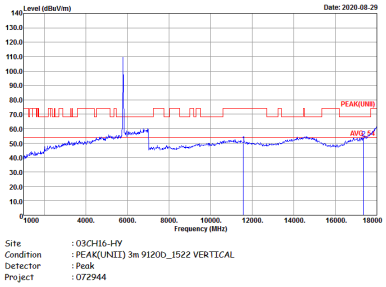
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

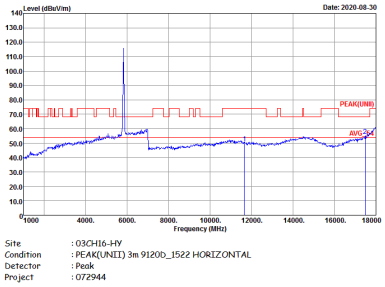
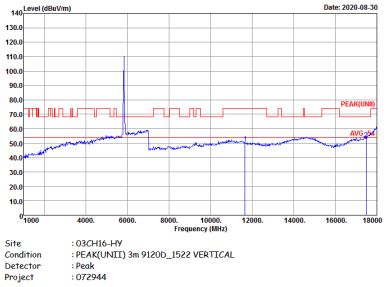
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

Band 4 - 5725~5850MHz

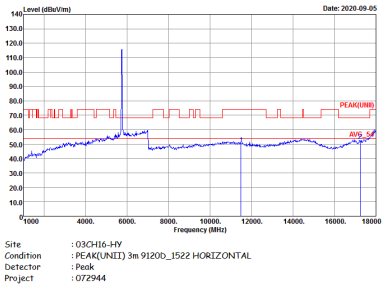
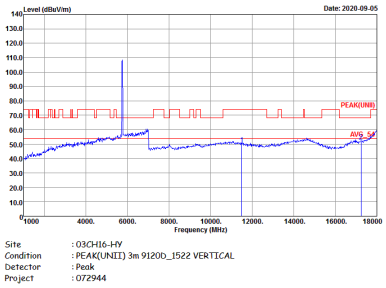
WIFI 802.11a (Harmonic @ 3m)

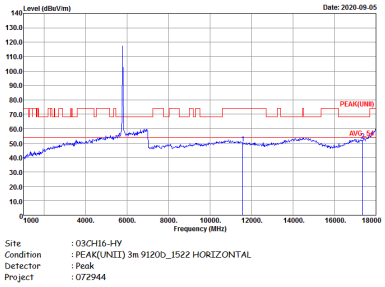
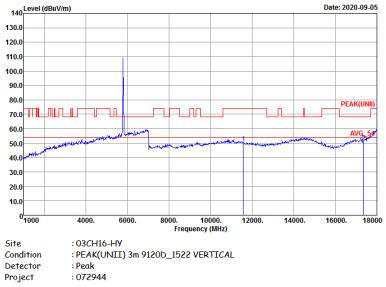
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

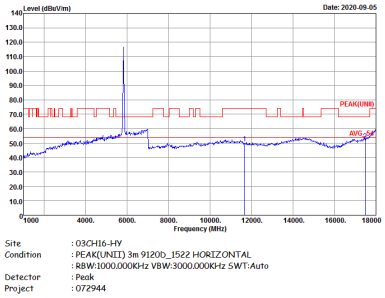
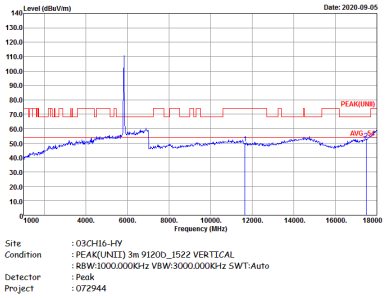
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

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

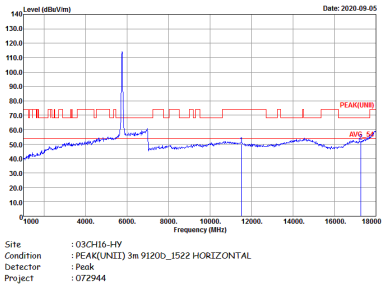
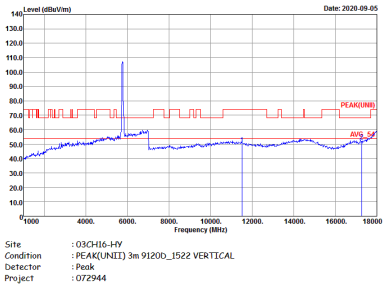
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

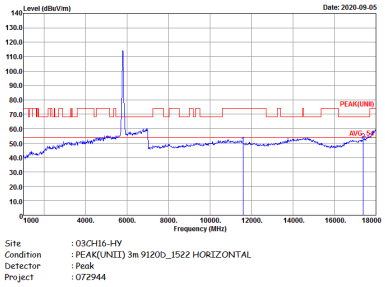
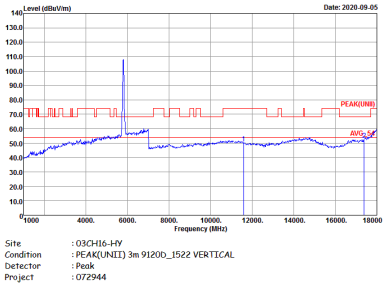
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

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

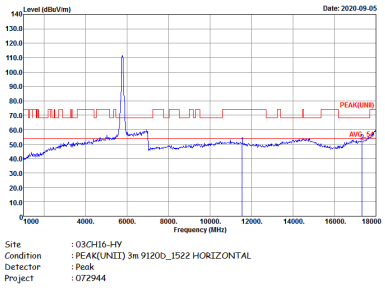
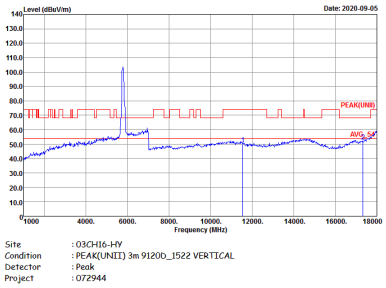
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

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

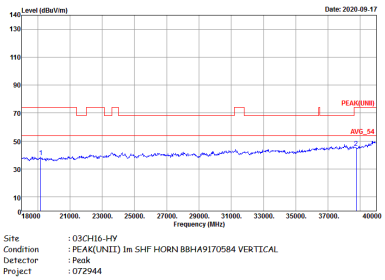
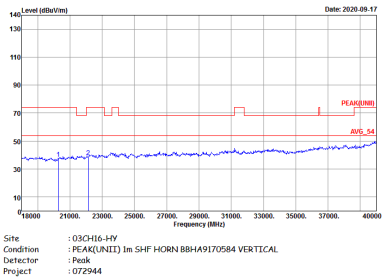
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

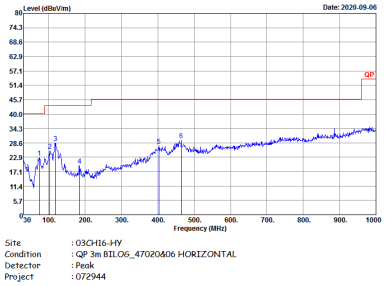
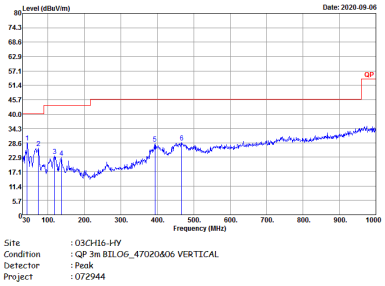
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
2	Horizontal	Vertical
QP / Peak		

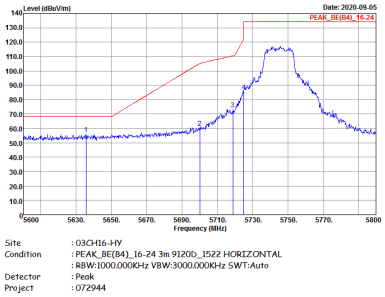
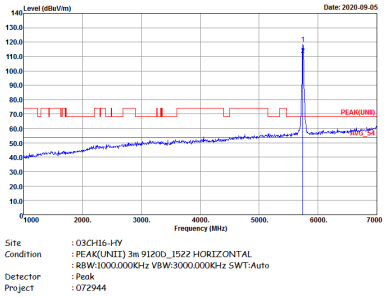
Emission below 1GHz

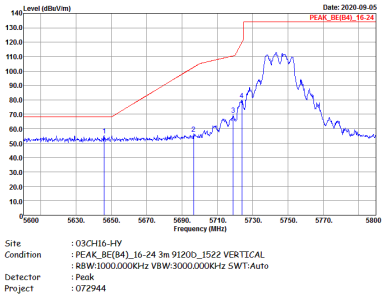
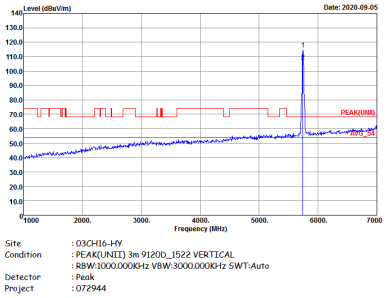
5GHz WIFI 802.11ac VHT80 (LF)

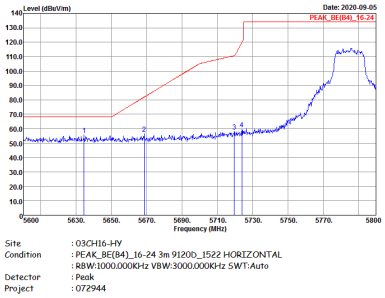
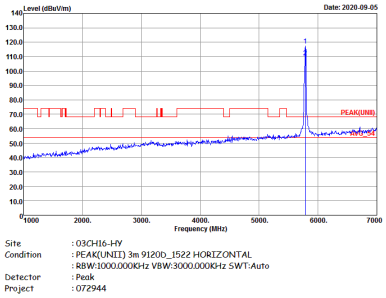
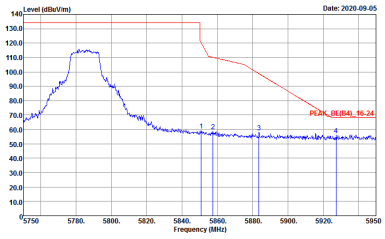
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak		

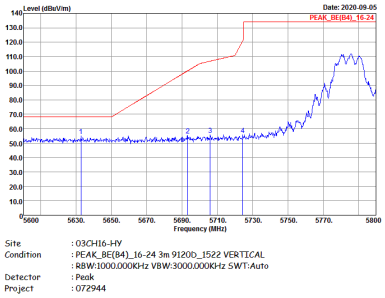
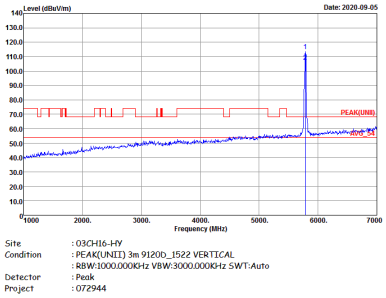
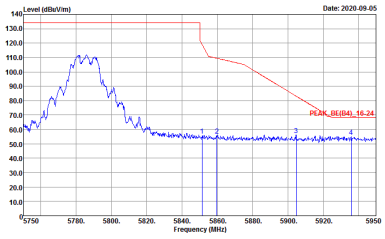
Band 4 - 5725~5850MHz

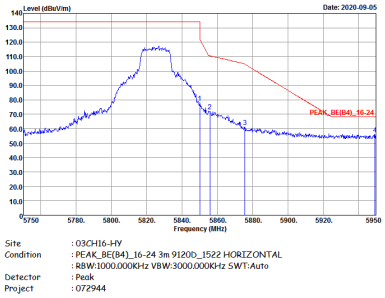
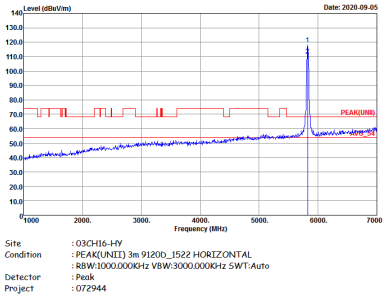
WIFI 802.11a (Band Edge @ 3m)

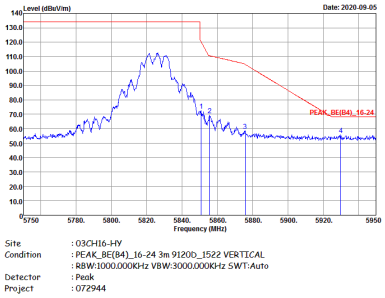
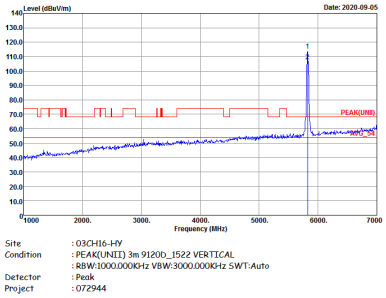
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

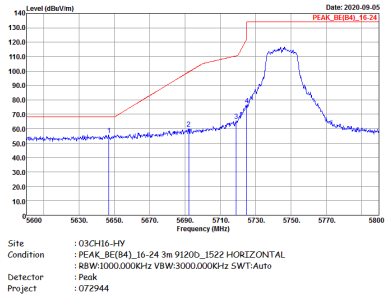
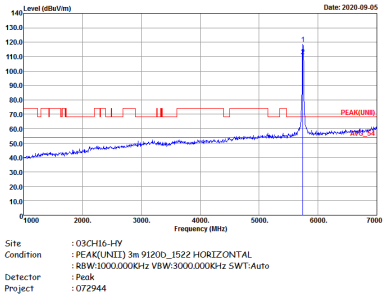
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

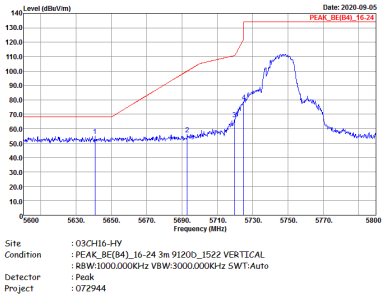
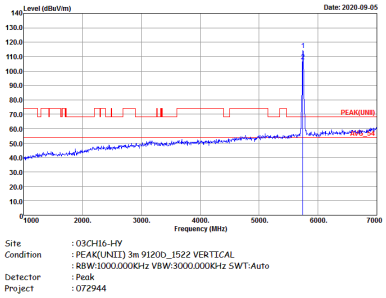
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

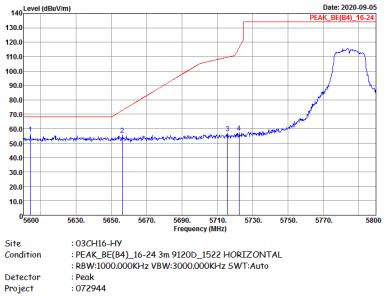
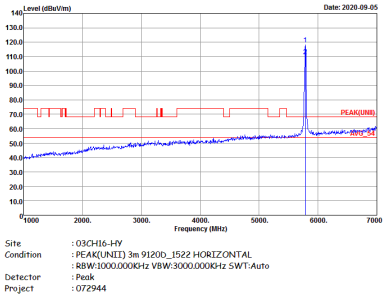
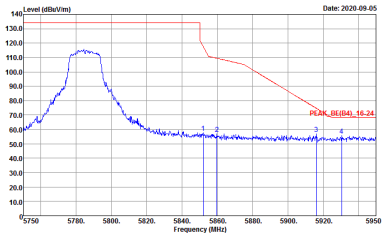
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

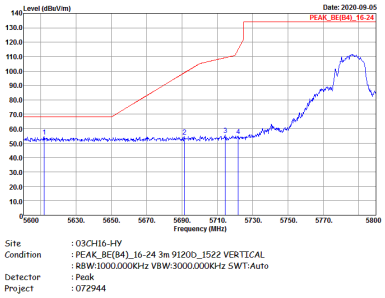
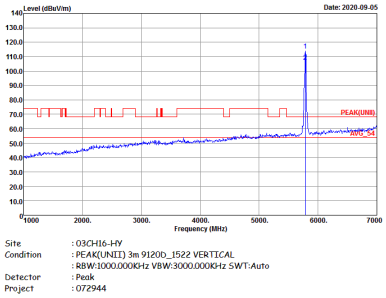
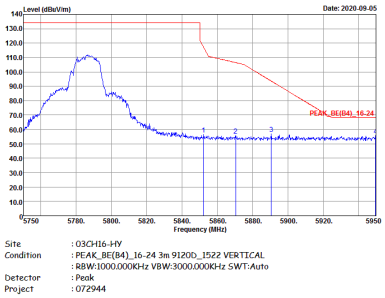
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

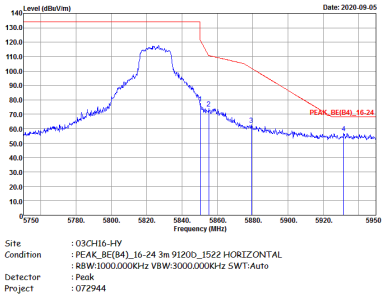
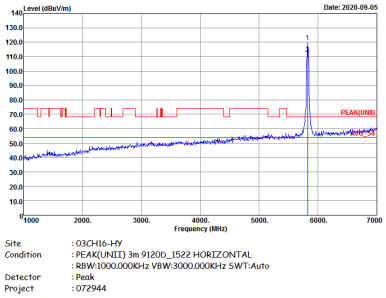
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

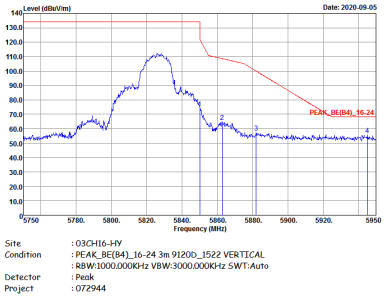
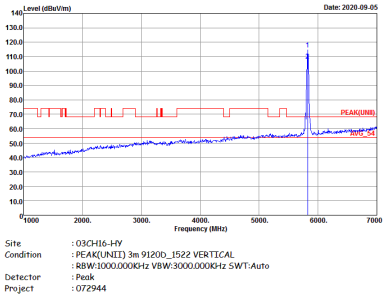
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.		

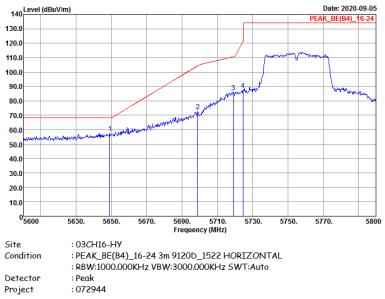
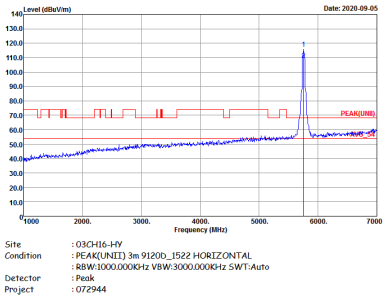
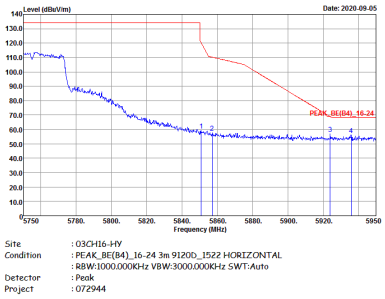
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

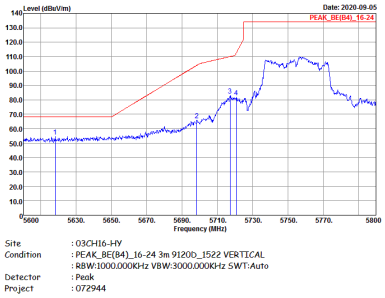
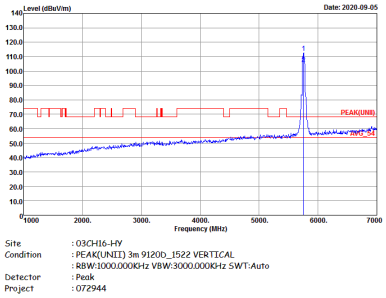
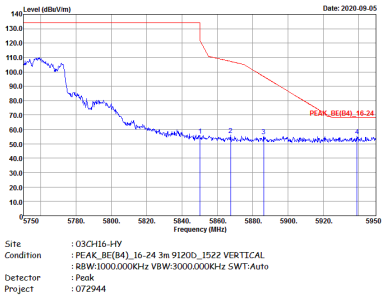
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

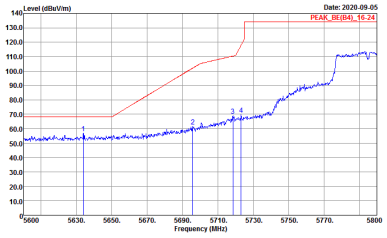
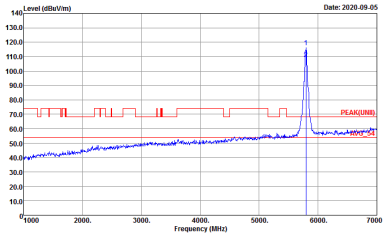
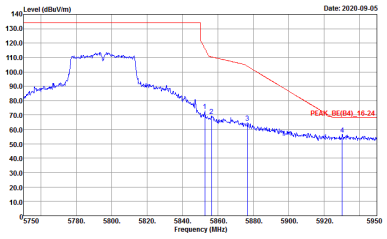
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

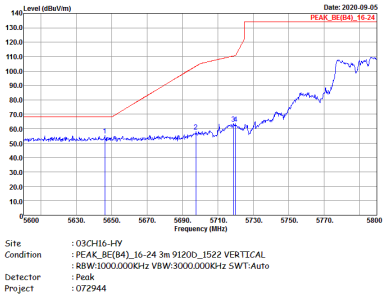
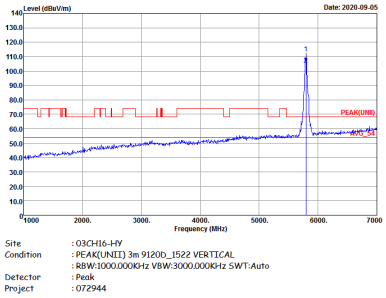
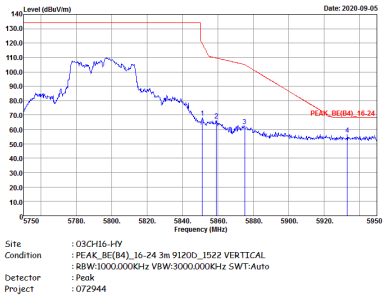
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

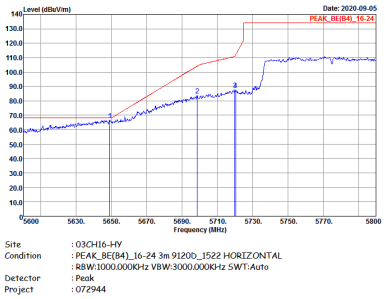
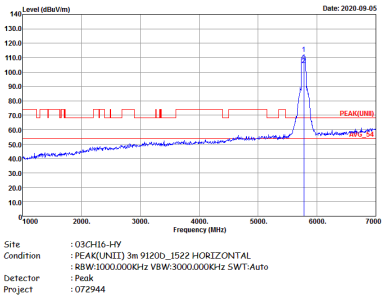
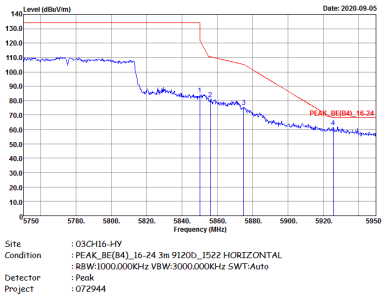
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

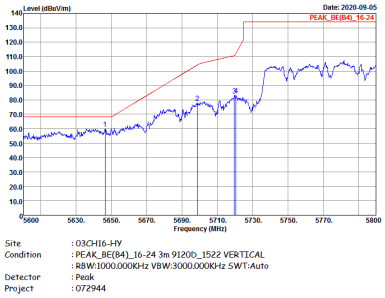
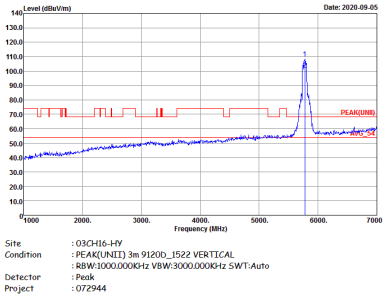
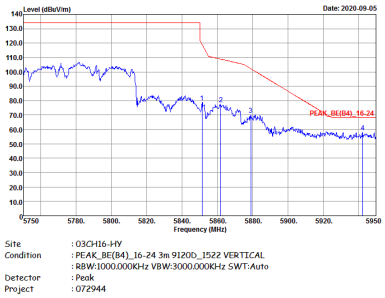
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

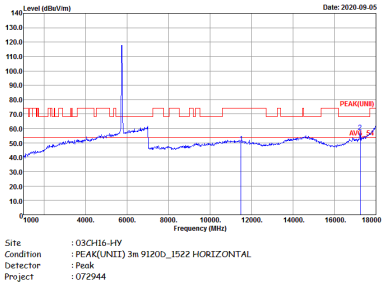
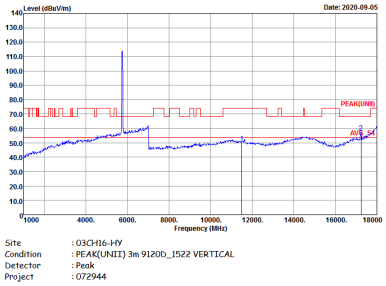
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

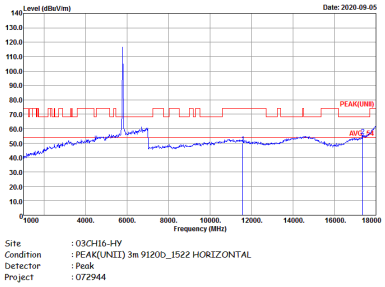
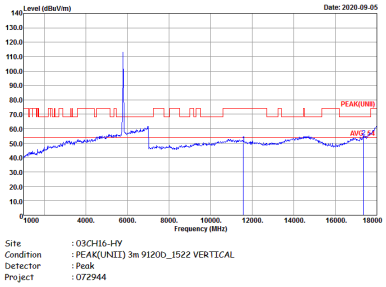
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

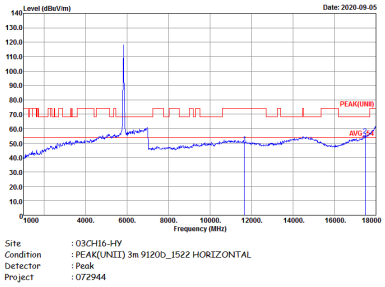
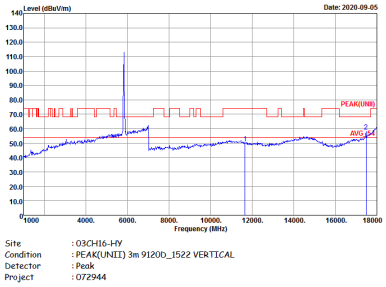
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

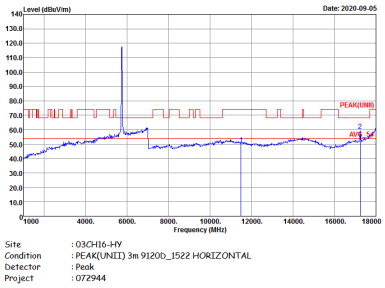
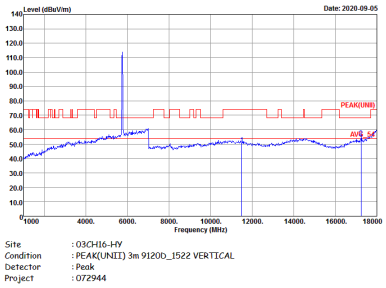
WIFI 802.11a (Harmonic @ 3m)

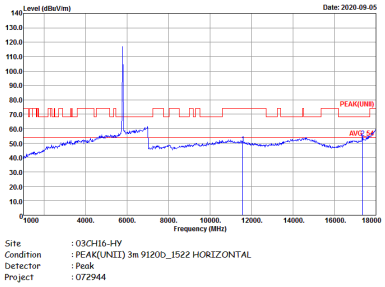
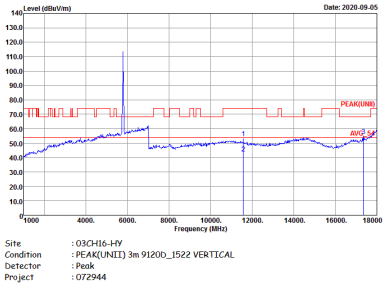
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

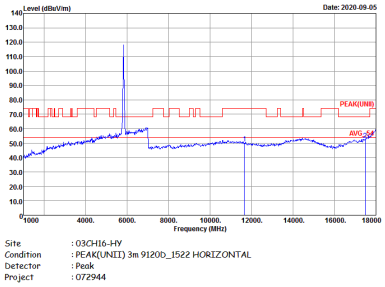
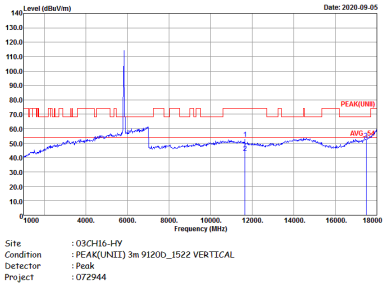
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

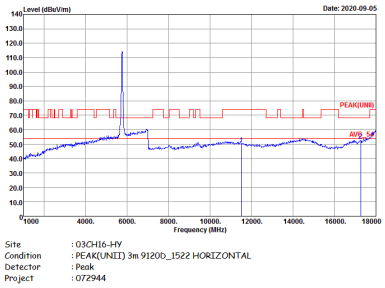
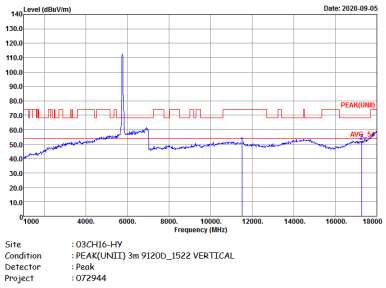
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

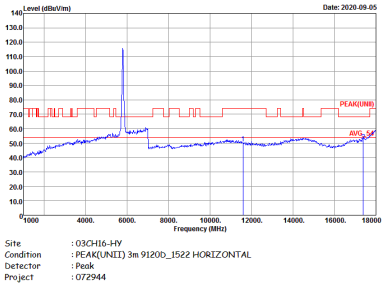
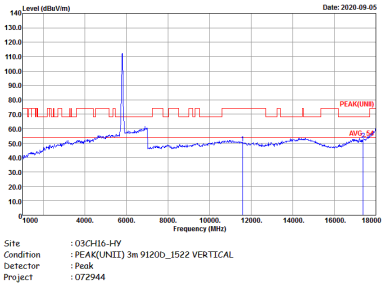
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

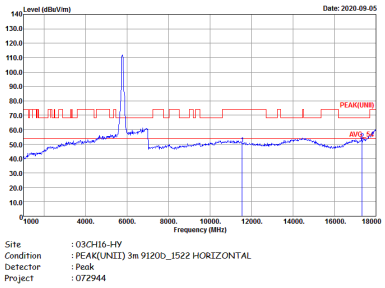
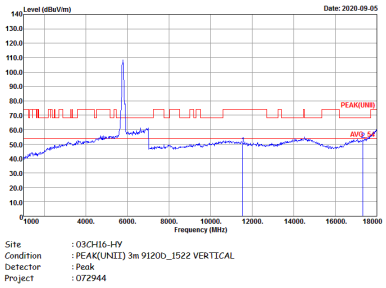
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

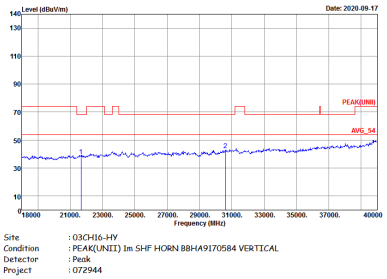
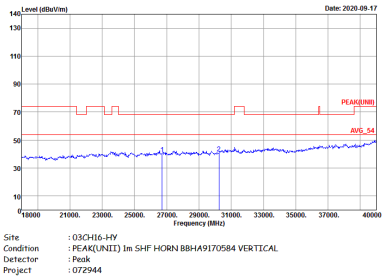
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

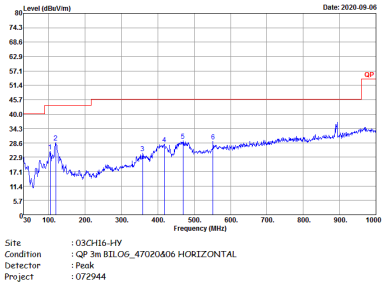
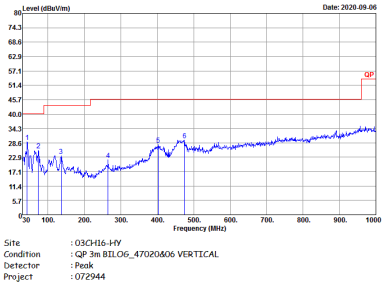
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1+2	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

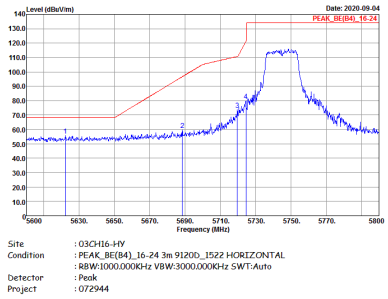
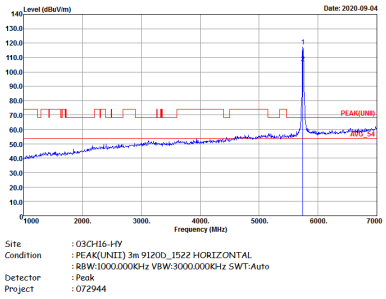
5GHz WIFI 802.11ac VHT80 (LF)

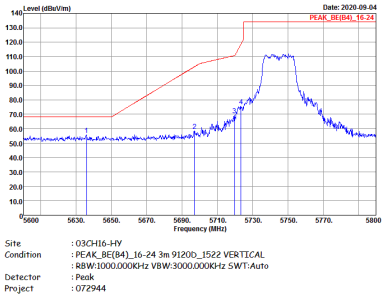
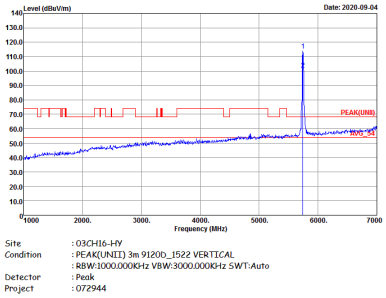
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

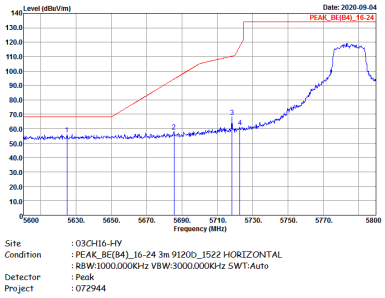
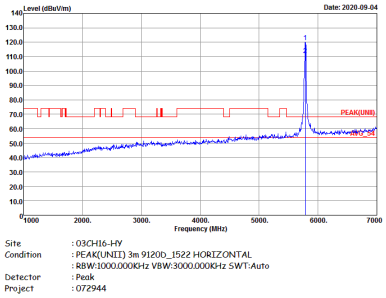
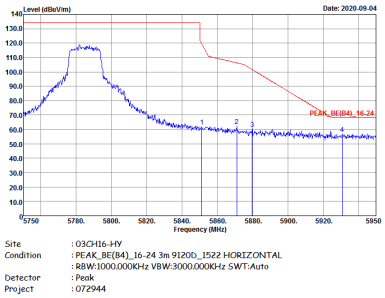
<TXBF Mode>

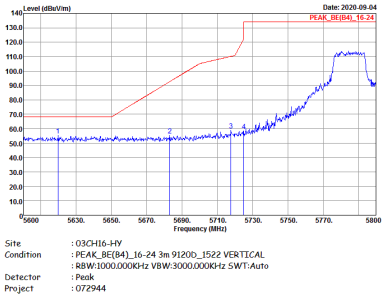
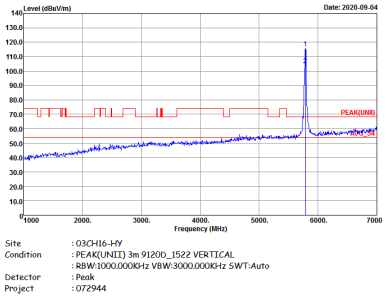
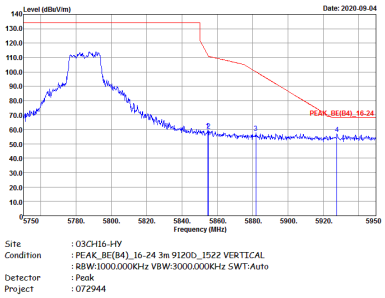
Band 4 - 5725~5850MHz

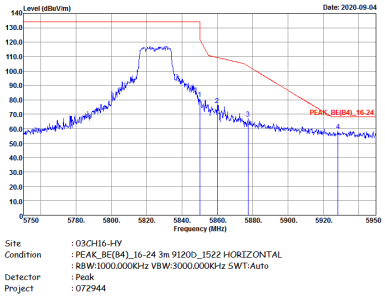
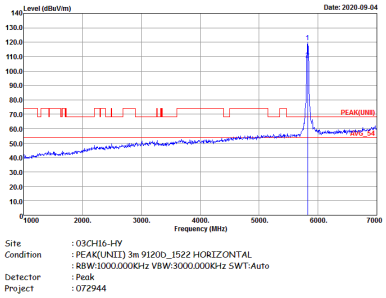
WIFI 802.11ac VHT20 (Band Edge @ 3m)

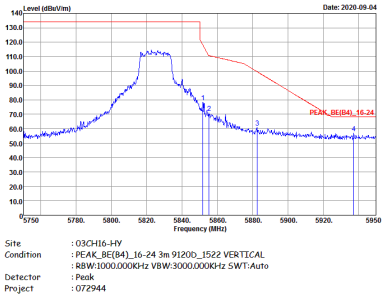
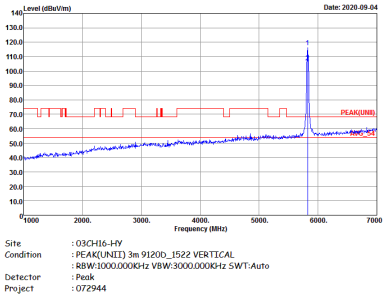
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.		

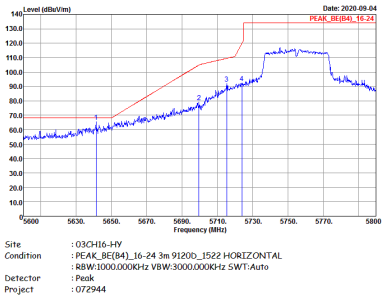
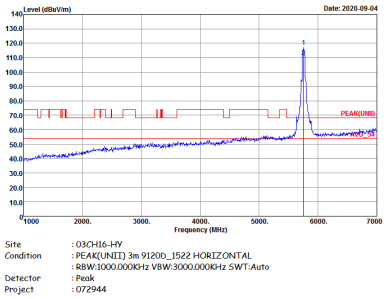
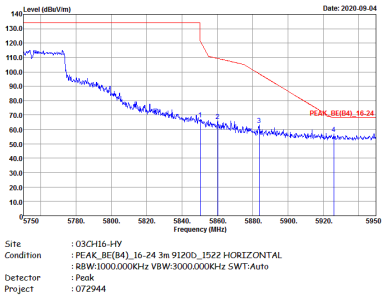
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

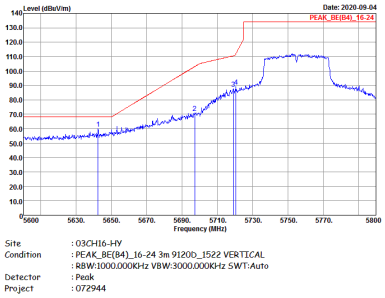
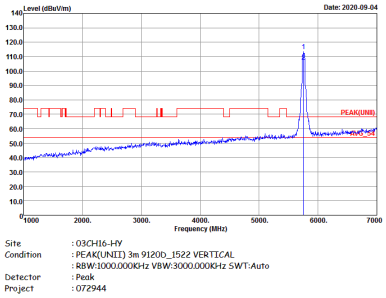
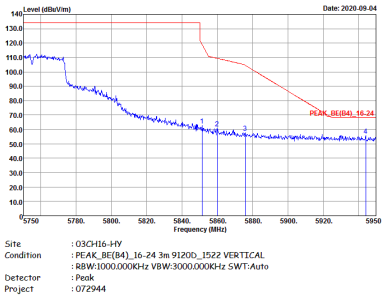
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

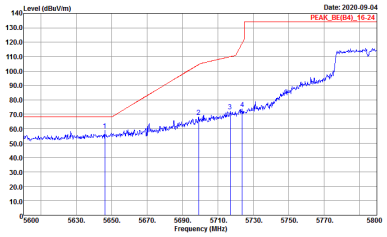
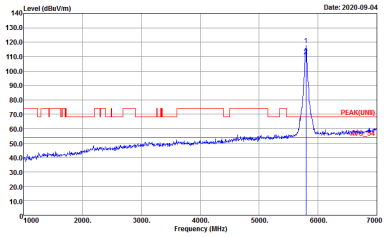
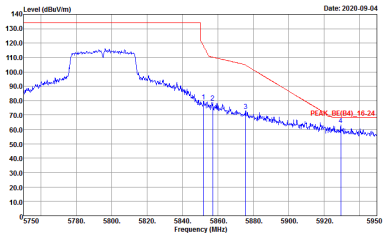
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.		

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+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 072944	Left blank