

FCC RADIO TEST REPORT

FCC ID : UZ7TC83BH
Equipment : Mobile Computer
Brand Name : ZEBRA
Model name : TC83BH
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 Nov. 01, 2018 and testing was started from Nov. 07, 2018 and completed on Mar. 11, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR8N0131-01F	01	Initial issue of report	Mar. 29, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.50 dB at 11570.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 13.13 dB at 0.758 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: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Computer
Brand Name	ZEBRA
Model Name	TC83BH
FCC ID	UZ7TC83BH
Sample 1	EUT with Scanner 1 (SE4750SR)
Sample 2	EUT with Scanner 2 (SE4750MR)
Sample 3	EUT with Scanner 3 (SE4850)
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	01-12-13.00-OG-U00-PRD
FW Version	FUSION_QA_2_1.1.0.003_O
MFD	17-Oct-18
EUT Stage	Engineering Sample

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

Specification of Accessories				
Battery 1	Brand Name	Zebra	Part Number	BT-000380
Battery 2	Brand Name	Zebra	Part Number	82-176054-01
Headset 1	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Audio adapter cable 1	Brand Name	Zebra	Part Number	CBL-TC8X-AUDBJ-01
Headset 2	Brand Name	Zebra	Part Number	HS2100-OTH
HS2100 to Quick Disconnect Cable	Brand Name	Zebra	Part Number	CBL-HS2100-QDC1-01
Audio adapter cable 2	Brand Name	Zebra	Part Number	CBL-TC8X-AUDQD-01
Hand Strap	Brand Name	Zebra	Part Number	SG-TC8X-HDSTP-01
USB Cable	Brand Name	Zebra	Part Number	CBL-TC8X-USBCHG-01
Holster 1	Brand Name	Zebra	Part Number	SG-TC8X-QDHLST-01
Holster 2	Brand Name	Zebra	Part Number	SG-TC8X-PMHLST-01
Adapter	Brand Name	Zebra	Part Number	PWR-BUA5V16W0WW
DC Line Cord	Brand Name	Zebra	Part Number	CBL-DC-383A1-01

Remark: USB cable was modified, all test item with this modified cable.

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna <CDD Modes>	<Ant. 1> 802.11a : 18.46 dBm / 0.0701 W 802.11n HT20 : 18.36 dBm / 0.0685 W 802.11n HT40 : 15.99 dBm / 0.0397 W 802.11ac VHT20: 18.31 dBm / 0.0678 W 802.11ac VHT40: 15.98 dBm / 0.0396 W 802.11ac VHT80: 15.97 dBm / 0.0395 W <Ant. 2> 802.11a : 18.84 dBm / 0.0766 W 802.11n HT20 : 18.70 dBm / 0.0741 W 802.11n HT40 : 17.48 dBm / 0.0560 W 802.11ac VHT20: 18.64 dBm / 0.0731 W 802.11ac VHT40: 17.45 dBm / 0.0556 W 802.11ac VHT80: 17.27 dBm / 0.0533 W MIMO <Ant. 1 + 2> 802.11a : 19.02 dBm / 0.0798 W 802.11n HT20 : 18.95 dBm / 0.0785 W 802.11n HT40 : 18.64 dBm / 0.0731 W 802.11ac VHT20: 18.91 dBm / 0.0778 W 802.11ac VHT40: 18.62 dBm / 0.0728 W 802.11ac VHT80: 18.89 dBm / 0.0774 W
Maximum Output Power <TXBF Modes>	MIMO <Ant. 1 + 2> 802.11ac VHT20: 19.27 dBm / 0.0845 W 802.11ac VHT40: 19.50 dBm / 0.0891 W 802.11ac VHT80: 18.26 dBm / 0.0670 W
99% Occupied Bandwidth <CDD Modes>	<Ant. 1> 802.11a : 16.83 MHz 802.11n HT20 : 17.98 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 76.96 MHz <Ant. 2> 802.11a : 16.83 MHz 802.11n HT20 : 17.98 MHz 802.11n HT40 : 36.76 MHz 802.11ac VHT80 : 76.72 MHz MIMO <Ant. 1> 802.11a : 16.88 MHz 802.11n HT20 : 17.98 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 76.84 MHz MIMO <Ant. 2> 802.11a : 16.78 MHz 802.11n HT20 : 17.93 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 76.84 MHz

Standards-related Product Specification			
99% Occupied Bandwidth <TXBF Modes>	MIMO <Ant. 1> 802.11ac VHT20 : 17.68 MHz 802.11ac VHT40 : 37.06 MHz 802.11ac VHT80 : 77.32 MHz MIMO <Ant. 2> 802.11ac VHT20 : 19.08 MHz 802.11ac VHT40 : 36.66 MHz 802.11ac VHT80 : 76.84 MHz		
	Antenna Gain / Gain <Ant. 1> : Dipole Antenna with gain 4.92 dBi <Ant. 2> : Dipole Antenna with gain 5.23 dBi		
Type of Modulation		802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)	
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac	V	V
	802.11 a/n/ac MIMO	V	V
	802.11ac TXBF	V	V

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

1.3 Modification of EUT

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

1.4 Testing Location

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

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

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

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

FCC Designation No. TW1190 and TW0007



1.5 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z Plane for Ant. 1, Ant. 2 with CDD Mode, and Ant. 1+2 ; Y Plane for Ant. 1+2 with TXBF Mode) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Note:

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

2.2 Test Mode

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

Single Mode

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

MIMO Mode

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

TXBF Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Camera + USB Cable (Data Link with Notebook) (Notebook to SD Card) + DC Line Cord + Battery 2 + AC Adapter for Sample 3
Remark: For Radiated Test Cases, the tests were performed with Battery 2 and Sample 3.	

<CDD Mode>

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

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

<CDD Mode>
<Ant. 1>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	15.99	CH 157	18.39	18.42	18.44	18.45	18.32	18.31	18.33
CH 157	5785	18.46								
CH 165	5825	17.95								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	15.89	CH 157	18.31	18.35	18.34	18.25	18.13	18.12	18.34
CH 157	5785	18.36								
CH 165	5825	17.83								



802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	15.99	CH 151	15.97	15.63	15.60	15.55	15.53	15.46	15.57
CH 159	5795	15.86								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	15.87	CH 157	18.29	18.06	18.05	17.76	17.72	17.66	17.67	17.84
CH 157	5785	18.31									
CH 165	5825	17.80									

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	15.98	CH 151	15.96	15.97	15.95	15.94	15.94	15.87	15.83	15.94	15.94
CH 159	5795	15.84										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	15.97	CH155	15.92	15.93	15.95	15.94	15.95	15.91	15.92	15.93	15.94



<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	17.43	CH 157	18.74	18.73	18.80	18.83	18.50	18.64	18.64
CH 157	5785	18.84								
CH 165	5825	18.72								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	17.36	CH 157	18.56	18.67	18.69	18.41	18.65	18.53	18.53
CH 157	5785	18.70								
CH 165	5825	18.66								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	17.48	CH 151	17.43	17.45	17.47	17.43	17.46	17.47	17.41
CH 159	5795	17.29								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	17.32	CH 157	18.54	18.63	18.35	18.11	17.97	18.00	17.99	18.24
CH 157	5785	18.64									
CH 165	5825	18.60									

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	17.45	CH 151	17.39	17.42	17.41	17.42	17.39	17.37	17.40	17.41	17.39
CH 159	5795	17.28										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	17.27	CH155	17.20	17.25	17.25	17.25	17.22	17.24	17.25	17.25	17.21

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	19.02	CH 149	18.83	18.91	18.89	18.91	18.78	18.78	18.73	
CH 157	5785	18.92									
CH 165	5825	18.82									

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	18.95	CH 149	18.93	18.94	18.94	18.92	18.87	18.86	18.83
CH 157	5785	18.78								
CH 165	5825	18.60								



802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	18.64	CH 151	18.55	18.54	18.53	18.53	18.60	18.61	18.54
CH 159	5795	18.57								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	18.91	CH 149								
CH 157	5785	18.77		18.89	18.65	18.68	18.45	18.49	18.42	18.50	18.59
CH 165	5825	18.59									

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	18.62	CH 151	18.51	18.56	18.59	18.61	18.56	18.56	18.60	18.54	18.59
CH 159	5795	18.54										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	18.89	CH155	18.87	18.87	18.88	18.87	18.88	18.57	18.61	18.59	18.56



<TXBF Mode>

MIMO <Ant. 1+2>

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	19.27	CH 149	18.57	19.07	19.07	19.19	19.19	19.19	19.24	18.54
CH 157	5785	19.11									
CH 165	5825	18.95									

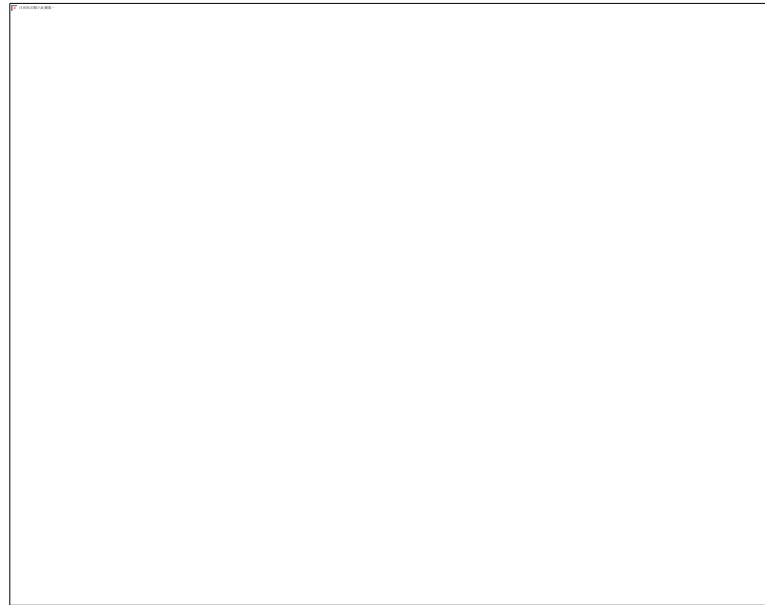
802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	18.62	CH 159	18.94	19.40	19.44	19.47	19.43	19.43	19.43	19.40	19.43
CH 159	5795	19.50										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	18.26	CH155	17.51	17.81	17.76	17.37	17.31	17.24	17.20	17.30	17.31

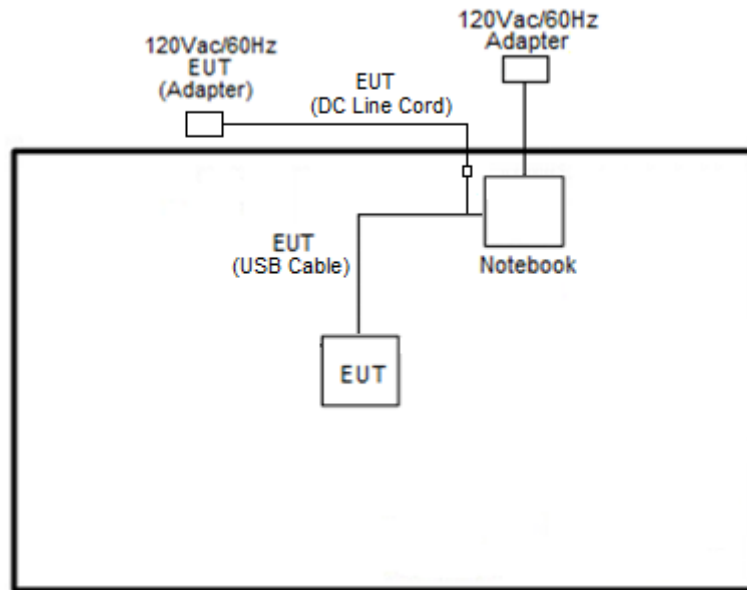


2.3 Connection Diagram of Test System

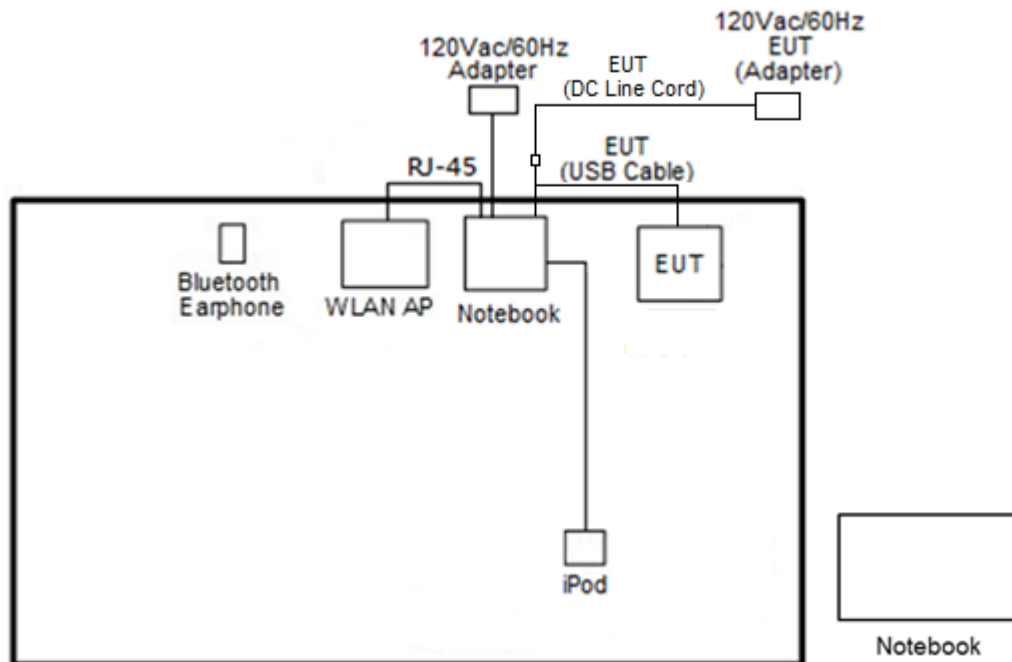
<WLAN Tx Mode>



<WLAN TXBF Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC54U	MSQ-RTN54U	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” 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.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

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.

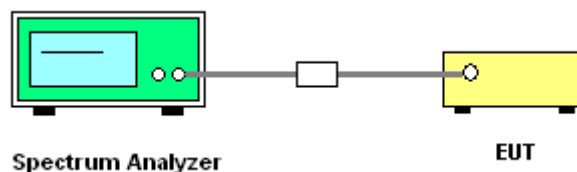
3.1.2 Measuring Instruments

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 $\geq 3 \times$ 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



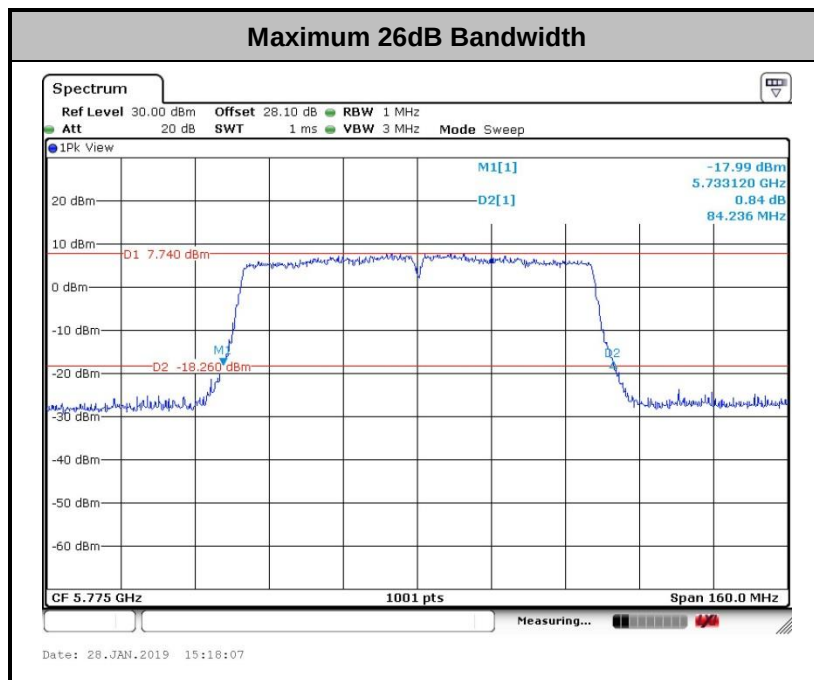
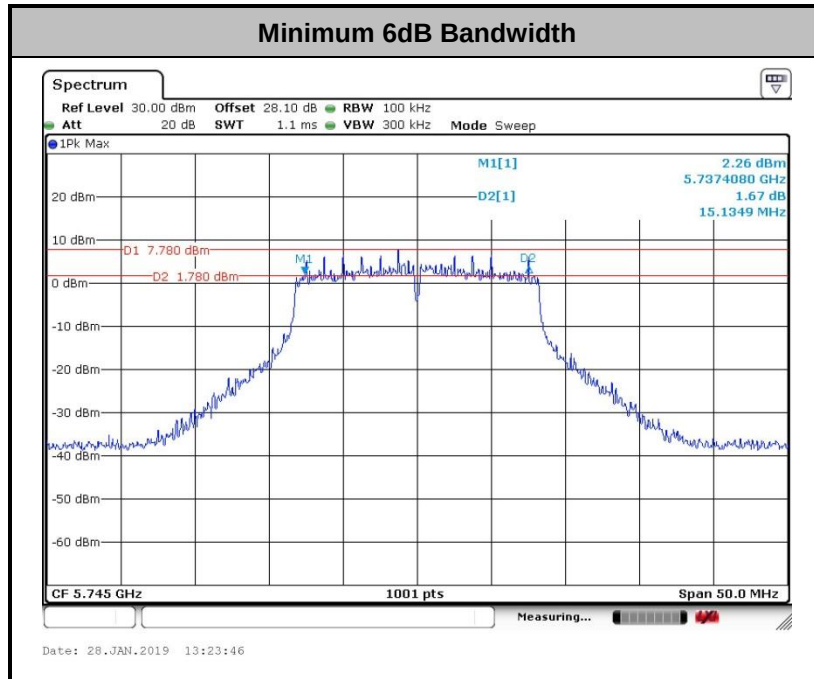


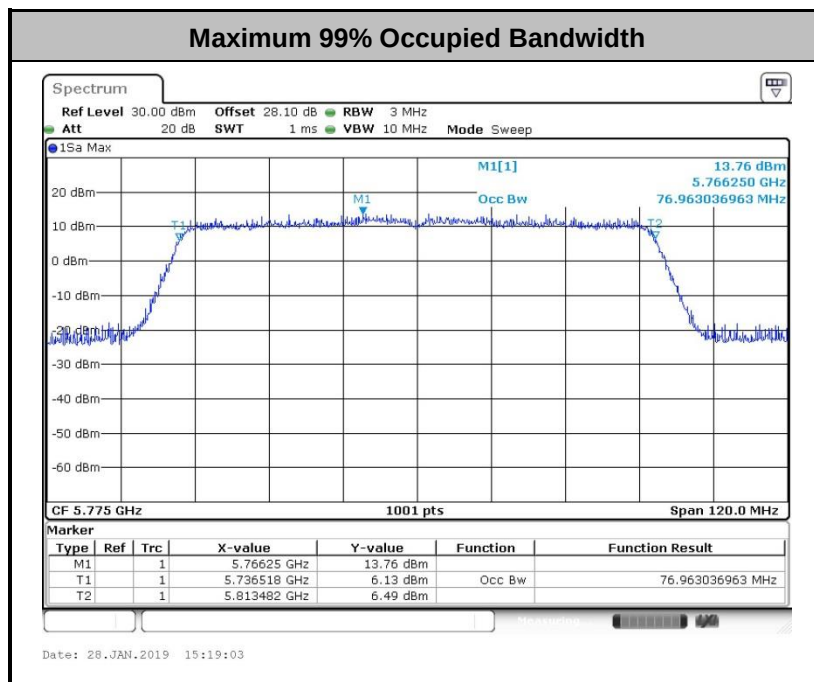
3.1.5 Test Result

Test Engineer :	Derek Hsu	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

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	16.83	16.78	24.76	25.18	15.78	15.14	0.5	Pass
11a	6Mbps	1	157	5785	16.78	16.83	24.58	24.94	15.68	15.53	0.5	Pass
11a	6Mbps	1	165	5825	16.78	16.78	24.82	24.22	15.68	15.63	0.5	Pass
HT20	MCS0	1	149	5745	17.98	17.98	25.83	25.77	15.98	15.39	0.5	Pass
HT20	MCS0	1	157	5785	17.93	17.98	25.95	25.53	15.93	15.88	0.5	Pass
HT20	MCS0	1	165	5825	17.88	17.93	25.59	25.42	15.73	16.63	0.5	Pass
HT40	MCS0	1	151	5755	36.56	36.76	41.96	42.32	35.96	35.69	0.5	Pass
HT40	MCS0	1	159	5795	36.66	36.56	41.72	41.84	36.05	35.87	0.5	Pass
VHT80	MCS0	1	155	5775	76.96	76.72	84.24	83.92	75.13	75.13	0.5	Pass
11a	6Mbps	2	149	5745	16.83	16.73	24.55	23.68	15.78	16.23	0.5	Pass
11a	6Mbps	2	157	5785	16.88	16.78	24.46	24.40	15.63	16.28	0.5	Pass
11a	6Mbps	2	165	5825	16.78	16.73	24.94	24.10	15.88	15.34	0.5	Pass
HT20	MCS0	2	149	5745	17.93	17.93	26.85	25.53	15.88	15.98	0.5	Pass
HT20	MCS0	2	157	5785	17.98	17.88	26.49	25.71	17.13	16.48	0.5	Pass
HT20	MCS0	2	165	5825	17.88	17.88	25.53	25.30	15.14	17.48	0.5	Pass
HT40	MCS0	2	151	5755	36.56	36.56	42.32	41.84	35.43	35.43	0.5	Pass
HT40	MCS0	2	159	5795	36.66	36.66	42.20	41.96	36.32	35.78	0.5	Pass
VHT80	MCS0	2	155	5775	76.84	76.84	83.76	83.44	75.13	75.13	0.5	Pass

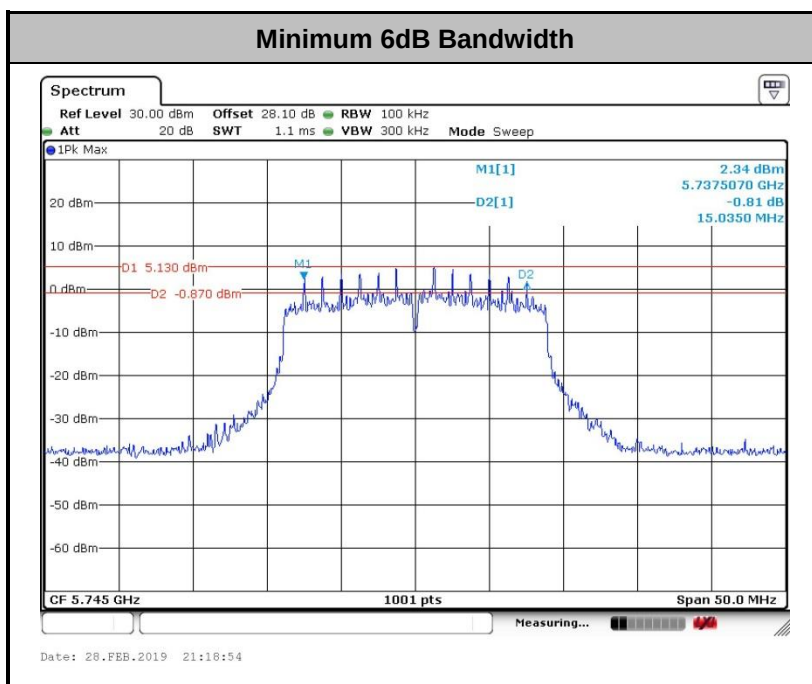


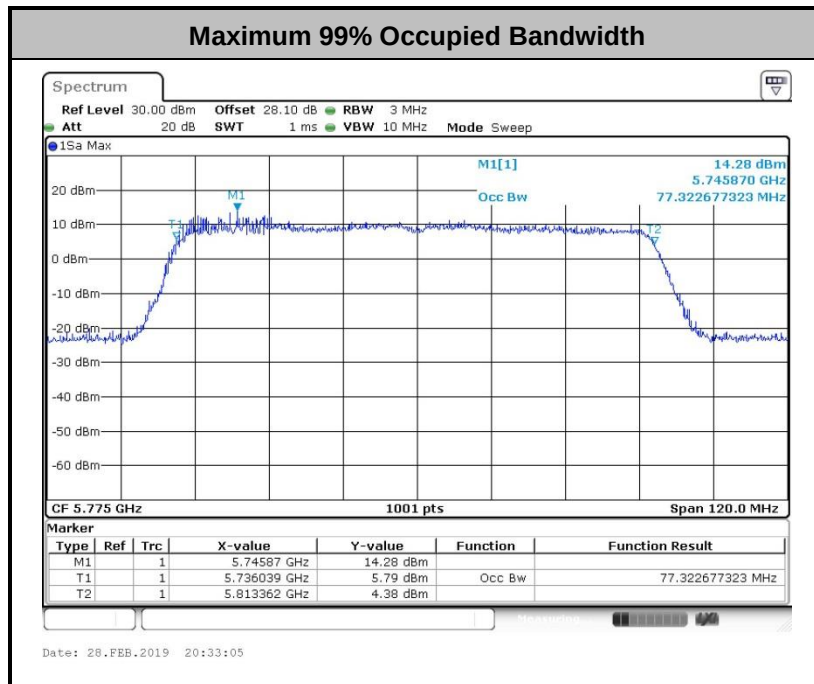
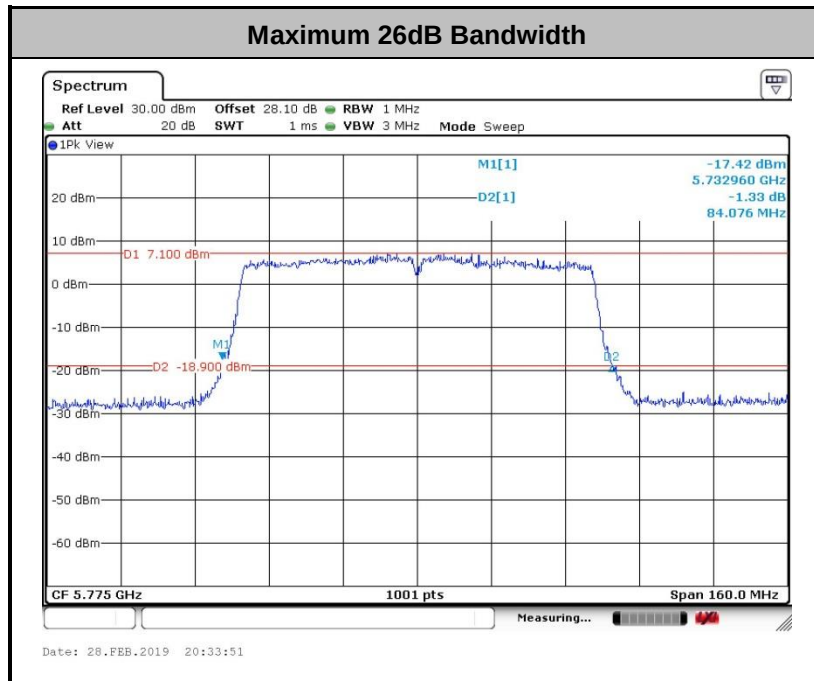


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Mode>

Band IV												
Mod.	Data Rate	N _{TX}	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	17.68	18.98	22.90	28.47	15.04	17.53	0.5	Pass
VHT20	MCS0	2	157	5785	17.63	19.08	22.96	28.47	15.09	17.58	0.5	Pass
VHT20	MCS0	2	165	5825	17.68	18.98	23.62	26.79	15.04	17.48	0.5	Pass
VHT40	MCS0	2	151	5755	36.66	36.56	41.00	42.80	35.43	36.23	0.5	Pass
VHT40	MCS0	2	159	5795	37.06	36.66	41.48	42.44	35.07	36.32	0.5	Pass
VHT80	MCS0	2	155	5775	77.32	76.84	83.28	84.08	76.08	75.60	0.5	Pass





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<CDD Modes>

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

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

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

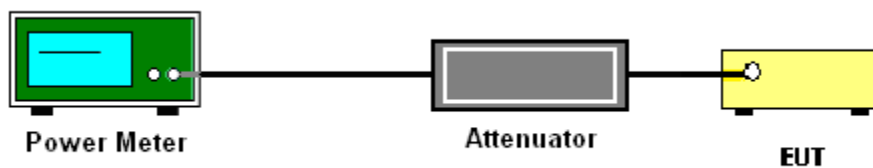
<TXBF Modes>

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Test Engineer :	Derek Hsu	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.19	0.21	15.99	17.43		30.00	30.00	4.92	5.23	Pass
11a	6Mbps	1	157	5785	0.19	0.21	18.46	18.84		30.00	30.00	4.92	5.23	Pass
11a	6Mbps	1	165	5825	0.19	0.21	17.95	18.72		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	149	5745	0.20	0.20	15.89	17.36		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	157	5785	0.20	0.20	18.36	18.70		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	165	5825	0.20	0.20	17.83	18.66		30.00	30.00	4.92	5.23	Pass
HT40	MCS0	1	151	5755	0.36	0.40	15.99	17.48		30.00	30.00	4.92	5.23	Pass
HT40	MCS0	1	159	5795	0.36	0.40	15.86	17.29		30.00	30.00	4.92	5.23	Pass
VHT20	MCS0	1	149	5745	0.20	0.20	15.87	17.32		30.00	30.00	4.92	5.23	Pass
VHT20	MCS0	1	157	5785	0.20	0.20	18.31	18.64		30.00	30.00	4.92	5.23	Pass
VHT20	MCS0	1	165	5825	0.20	0.20	17.80	18.60		30.00	30.00	4.92	5.23	Pass
VHT40	MCS0	1	151	5755	0.36	0.40	15.98	17.45		30.00	30.00	4.92	5.23	Pass
VHT40	MCS0	1	159	5795	0.36	0.40	15.84	17.28		30.00	30.00	4.92	5.23	Pass
VHT80	MCS0	1	155	5775	0.67	0.69	15.97	17.27		30.00	30.00	4.92	5.23	Pass



Band IV														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.19	0.21	15.99	16.04	19.02	30.00		5.23		Pass
11a	6Mbps	2	157	5785	0.19	0.21	15.94	15.89	18.92	30.00		5.23		Pass
11a	6Mbps	2	165	5825	0.19	0.21	15.91	15.72	18.82	30.00		5.23		Pass
HT20	MCS0	2	149	5745	0.22	0.19	15.98	15.89	18.95	30.00		5.23		Pass
HT20	MCS0	2	157	5785	0.22	0.19	15.83	15.70	18.78	30.00		5.23		Pass
HT20	MCS0	2	165	5825	0.22	0.19	15.74	15.42	18.60	30.00		5.23		Pass
HT40	MCS0	2	151	5755	0.38	0.42	15.57	15.68	18.64	30.00		5.23		Pass
HT40	MCS0	2	159	5795	0.38	0.42	15.54	15.57	18.57	30.00		5.23		Pass
VHT20	MCS0	2	149	5745	0.23	0.20	15.94	15.86	18.91	30.00		5.23		Pass
VHT20	MCS0	2	157	5785	0.23	0.20	15.83	15.68	18.77	30.00		5.23		Pass
VHT20	MCS0	2	165	5825	0.23	0.20	15.72	15.42	18.59	30.00		5.23		Pass
VHT40	MCS0	2	151	5755	0.42	0.37	15.60	15.61	18.62	30.00		5.23		Pass
VHT40	MCS0	2	159	5795	0.42	0.37	15.57	15.49	18.54	30.00		5.23		Pass
VHT80	MCS0	2	155	5775	0.70	0.67	15.97	15.79	18.89	30.00		5.23		Pass

**<TXBF Mode>**

Band IV														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		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	0.00	0.00	15.50	16.90	19.27	27.91		8.09		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	15.40	16.70	19.11	27.91		8.09		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	15.30	16.50	18.95	27.91		8.09		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	15.30	15.90	18.62	27.91		8.09		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	15.90	17.00	19.50	27.91		8.09		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	15.20	15.30	18.26	27.91		8.09		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 $\geq$ 1 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(500\text{kHz}/\text{RBW})$ 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

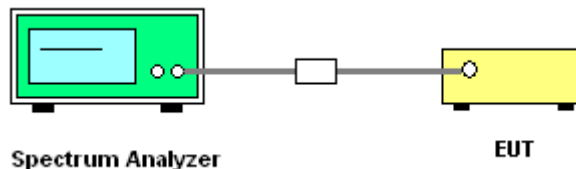
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ 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 $10 \log(N_{\text{ANT}})$ 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 $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

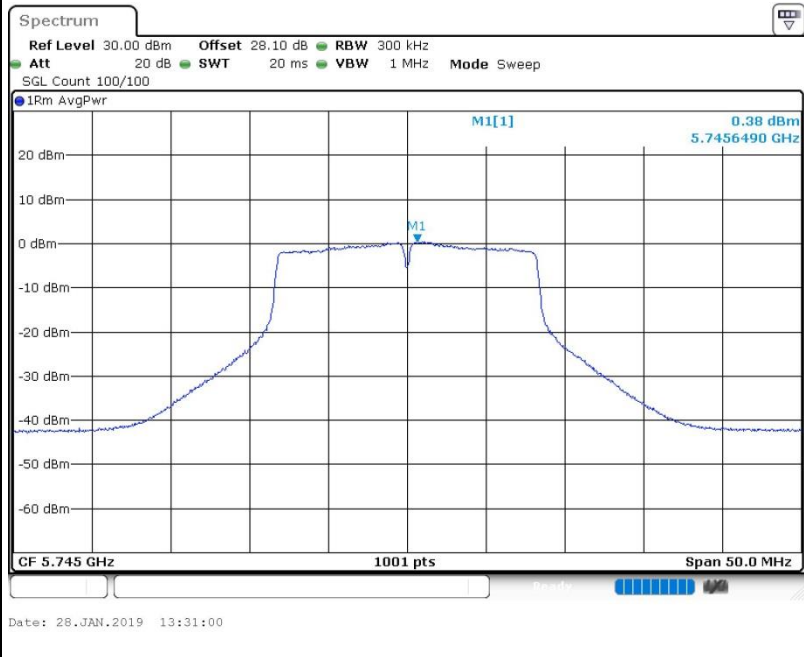
Test Engineer :	Derek Hsu	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

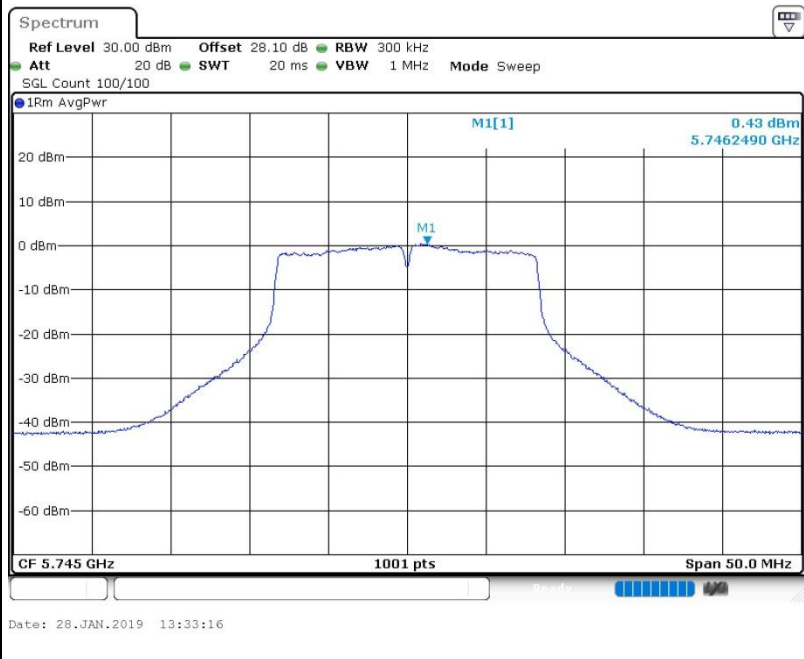
Band IV																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.19	0.21	2.22	2.22	2.64	4.13	-	30.00	30.00	4.92	5.23	Pass
11a	6Mbps	1	157	5785	0.19	0.21	2.22	2.22	4.85	5.01		30.00	30.00	4.92	5.23	Pass
11a	6Mbps	1	165	5825	0.19	0.21	2.22	2.22	4.37	5.10		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	149	5745	0.20	0.20	2.22	2.22	2.27	3.59		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	157	5785	0.20	0.20	2.22	2.22	4.53	4.65		30.00	30.00	4.92	5.23	Pass
HT20	MCS0	1	165	5825	0.20	0.20	2.22	2.22	4.00	4.60		30.00	30.00	4.92	5.23	Pass
HT40	MCS0	1	151	5755	0.36	0.40	2.22	2.22	-0.54	0.85		30.00	30.00	4.92	5.23	Pass
HT40	MCS0	1	159	5795	0.36	0.40	2.22	2.22	-0.74	0.78		30.00	30.00	4.92	5.23	Pass
VHT80	MCS0	1	155	5775	0.67	0.69	2.22	2.22	-3.52	-2.31		30.00	30.00	4.92	5.23	Pass
11a	6Mbps	2	149	5745	0.19	0.21	2.22		2.79	2.86	5.87	27.91		8.09		Pass
11a	6Mbps	2	157	5785	0.19	0.21	2.22		2.73	2.61	5.74	27.91		8.09		Pass
11a	6Mbps	2	165	5825	0.19	0.21	2.22		2.69	2.49	5.70	27.91		8.09		Pass
HT20	MCS0	2	149	5745	0.22	0.19	2.22		2.42	2.32	5.43	27.91		8.09		Pass
HT20	MCS0	2	157	5785	0.22	0.19	2.22		2.22	2.21	5.23	27.91		8.09		Pass
HT20	MCS0	2	165	5825	0.22	0.19	2.22		2.41	2.07	5.42	27.91		8.09		Pass
HT40	MCS0	2	151	5755	0.38	0.42	2.22		-0.71	-1.12	2.30	27.91		8.09		Pass
HT40	MCS0	2	159	5795	0.38	0.42	2.22		-0.90	-0.94	2.11	27.91		8.09		Pass
VHT80	MCS0	2	155	5775	0.70	0.67	2.22		-3.65	-3.86	-0.64	27.91		8.09		Pass



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

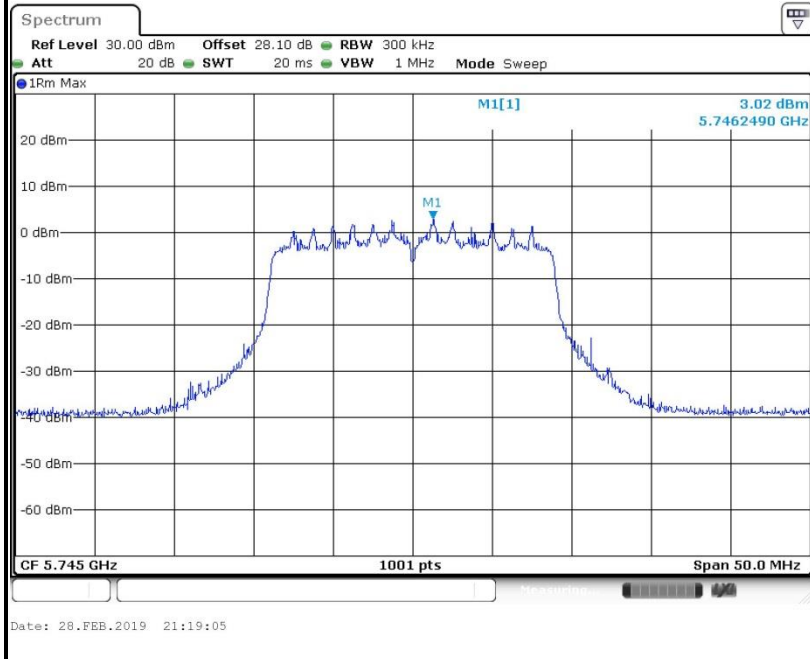
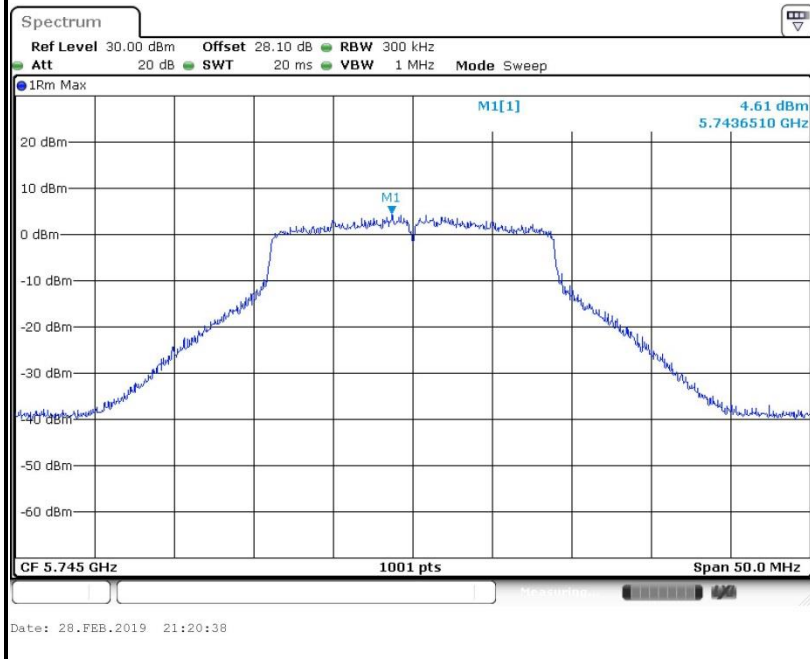


Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



**<TXBF Mode>**

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.00	0.00	2.22		5.24	6.83	9.84	27.91		8.09		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	2.22		5.27	6.27	9.28	27.91		8.09		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	2.22		5.08	6.44	9.45	27.91		8.09		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	2.22		3.08	3.47	6.48	27.91		8.09		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	2.22		3.84	3.83	6.85	27.91		8.09		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	2.22		1.38	-1.02	4.39	27.91		8.09		Pass

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

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


3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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



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

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

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.



3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

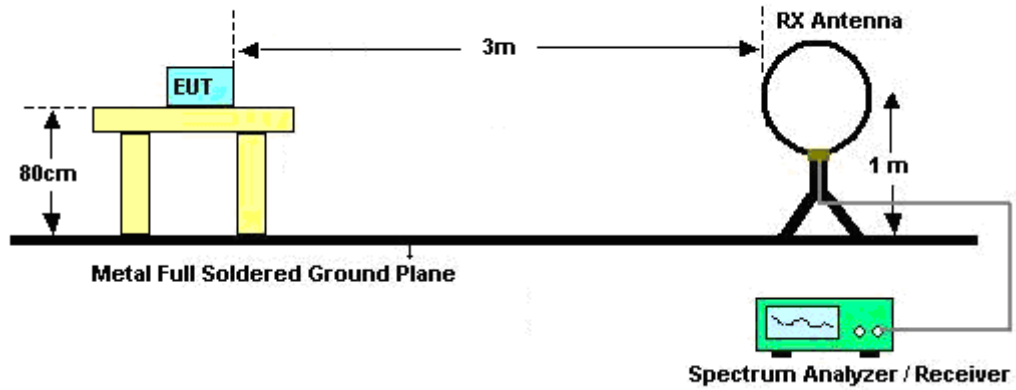
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



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.

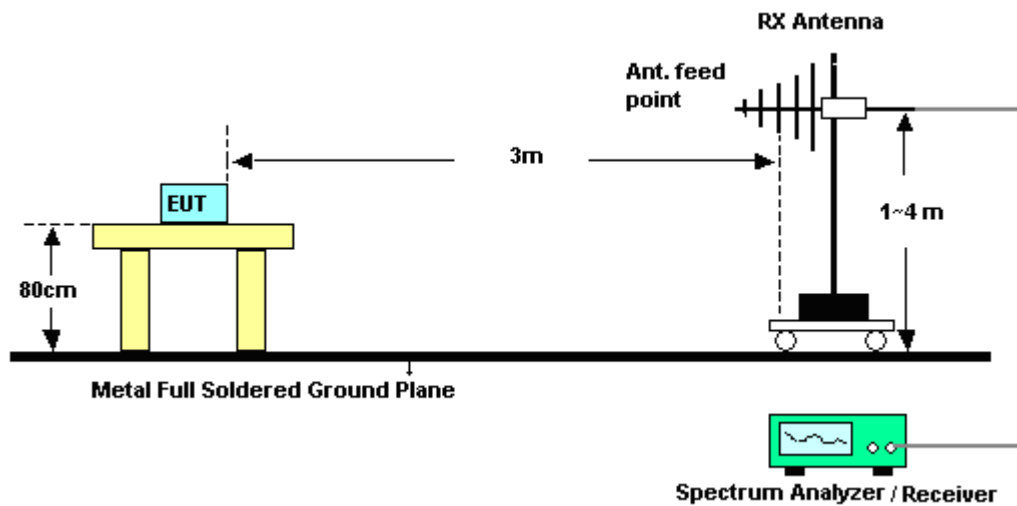
3.4.4 Test Setup

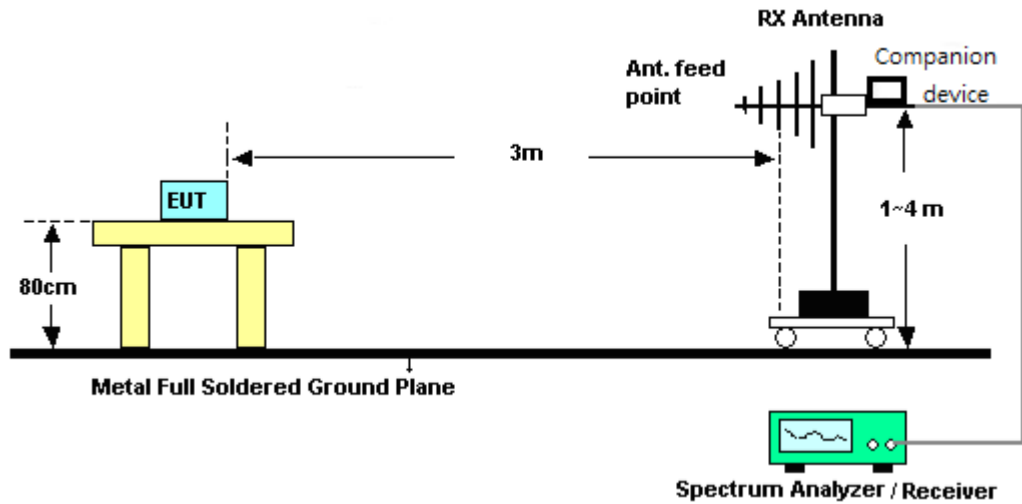
For radiated emissions below 30MHz



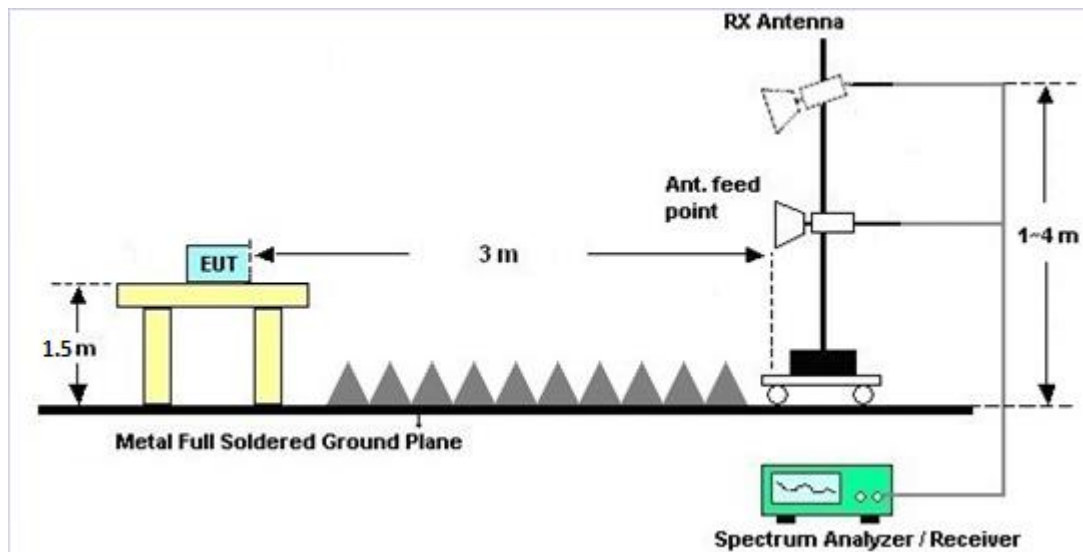
For radiated emissions from 30MHz to 1GHz

<CDD Mode>

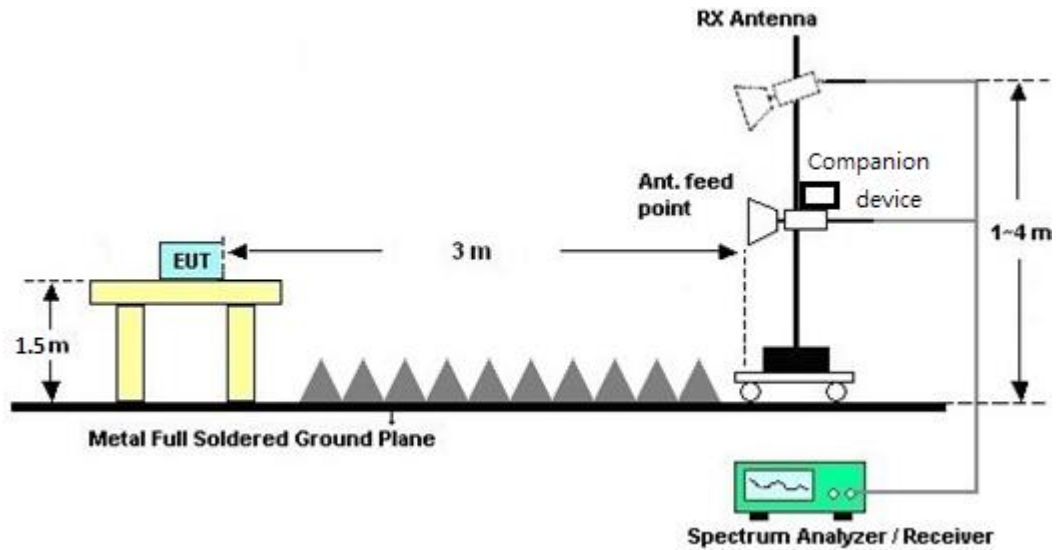


<TXBF Mode>


For radiated emissions above 1GHz

<CDD Mode>


<TXBF Mode>



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 (dB μ V)	
	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.

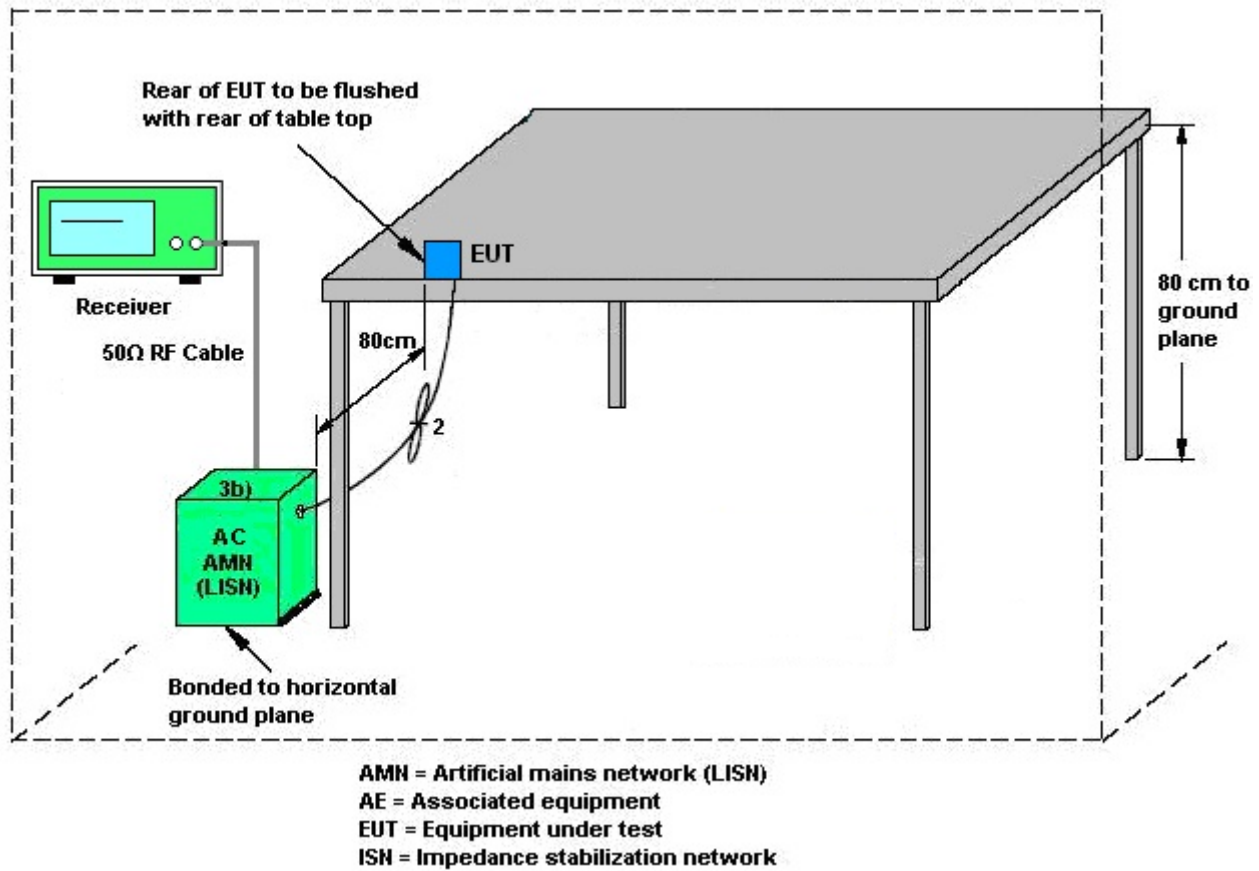
3.5.2 Measuring Instruments

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



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 Mode>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	4.92	5.23	5.23	8.09	0.00	2.09

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$

<TXBF Mode>

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 k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th 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	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	4.92	5.23	8.09	8.09	2.09	2.09

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 06, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Mar. 06, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Mar. 06, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Mar. 06, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 06, 2019	N/A	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Sep. 14, 2018	Mar. 06, 2019	Sep. 13, 2019	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Nov. 08, 2018	Mar. 06, 2019	Nov. 07, 2019	Conduction (CO05-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Mar. 29, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 28, 2019	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jun. 29, 2018	Dec. 06, 2018~Mar. 11, 2019	Jun. 28, 2019	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Dec. 06, 2018~Mar. 11, 2019	Oct. 12, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Dec. 06, 2018~Mar. 11, 2019	Dec. 04, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Dec. 06, 2018~Mar. 11, 2019	Nov. 13, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 21, 2018	Dec. 06, 2018~Mar. 11, 2019	May 20, 2019	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 04, 2018	Dec. 06, 2018~Mar. 11, 2019	Dec. 03, 2019	Radiation (03CH13-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Dec. 06, 2018~Mar. 11, 2019	Jul. 15, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 14, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 18, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M~18GHz	Mar. 14, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 18, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 14, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 13, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 14, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 13, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 15, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 14, 2019	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 06, 2018~Mar. 11, 2019	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 06, 2018~Mar. 11, 2019	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Dec. 06, 2018~Mar. 11, 2019	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Dec. 06, 2018~Mar. 11, 2019	Oct. 31, 2019	Radiation (03CH13-HY)
Filter	Woken	WHKX8-5272 .5-6750-1800 0-40ST	SN2	6.75G Highpass	Mar. 21, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 20, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2G Low Pass	Mar. 23, 2018	Dec. 06, 2018~Mar. 11, 2019	Mar. 22, 2019	Radiation (03CH13-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<CDD Mode>								
Power Meter	Anritsu	ML2495A	1132003	N/A	Aug. 16, 2018	Nov. 07, 2018~ Feb. 27, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 16, 2018	Nov. 07, 2018~ Feb. 27, 2019	Aug. 15, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Nov. 07, 2018~ Feb. 27, 2019	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Nov. 07, 2018~ Feb. 27, 2019	Feb. 28, 2019	Conducted (TH05-HY)
<TXBF Mode>								
Power Sensor	DARE	RadiPower	15I00041SN O09	10MHz~6GHz	May 07, 2018	Nov. 29, 2018~ Mar. 01, 2019	May 06, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Nov. 29, 2018~ Mar. 01, 2019	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	EM	EMSW18	SW1070903	N/A	Dec. 19, 2018	Nov. 29, 2018~ Mar. 01, 2019	Dec. 18, 2019	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

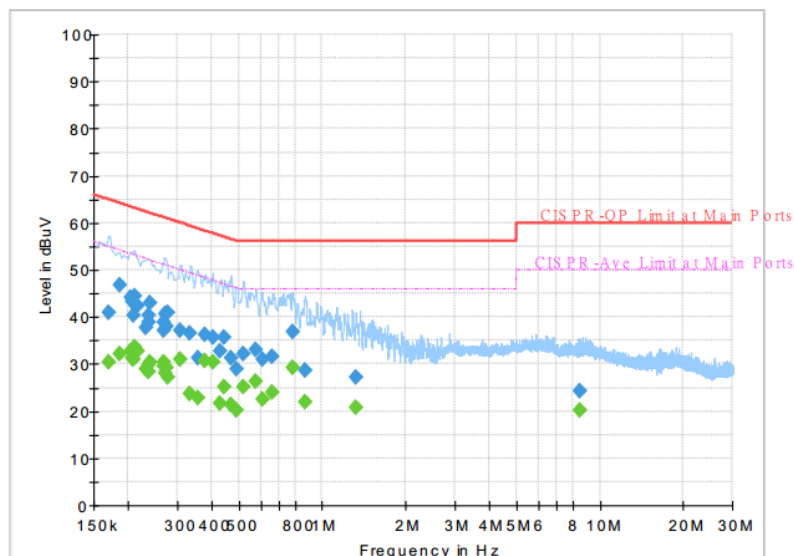
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3
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Appendix A. AC Conducted Emission Test Results

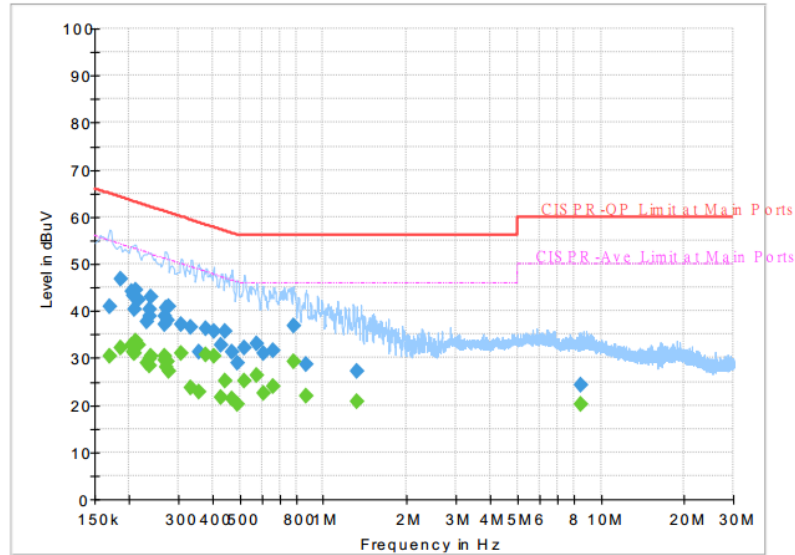
Test Engineer :	Jimmy Chang	Temperature :	24~26°C
		Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Final Result :

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	30.52	54.95	24.43	L1	OFF	19.5
0.170250	40.87	---	64.95	24.08	L1	OFF	19.5
0.186000	---	32.21	54.21	22.00	L1	OFF	19.5
0.186000	46.73	---	64.21	17.48	L1	OFF	19.5
0.204000	---	32.71	53.45	20.74	L1	OFF	19.5
0.204000	44.08	---	63.45	19.37	L1	OFF	19.5
0.206250	---	31.26	53.36	22.10	L1	OFF	19.5
0.206250	43.16	---	63.36	20.20	L1	OFF	19.5
0.208500	---	30.94	53.27	22.33	L1	OFF	19.5
0.208500	40.43	---	63.27	22.84	L1	OFF	19.5
0.210750	---	33.50	53.18	19.68	L1	OFF	19.5
0.210750	44.48	---	63.18	18.70	L1	OFF	19.5
0.215250	---	32.61	53.00	20.39	L1	OFF	19.5
0.215250	42.53	---	63.00	20.47	L1	OFF	19.5
0.231000	---	29.04	52.41	23.37	L1	OFF	19.5
0.231000	37.82	---	62.41	24.59	L1	OFF	19.5
0.235500	---	28.44	52.25	23.81	L1	OFF	19.5
0.235500	40.43	---	62.25	21.82	L1	OFF	19.5
0.237750	---	29.68	52.17	22.49	L1	OFF	19.5
0.237750	38.89	---	62.17	23.28	L1	OFF	19.5
0.240000	---	30.40	52.10	21.70	L1	OFF	19.5
0.240000	42.85	---	62.10	19.25	L1	OFF	19.5
0.267000	---	29.53	51.21	21.68	L1	OFF	19.5
0.267000	37.20	---	61.21	24.01	L1	OFF	19.5

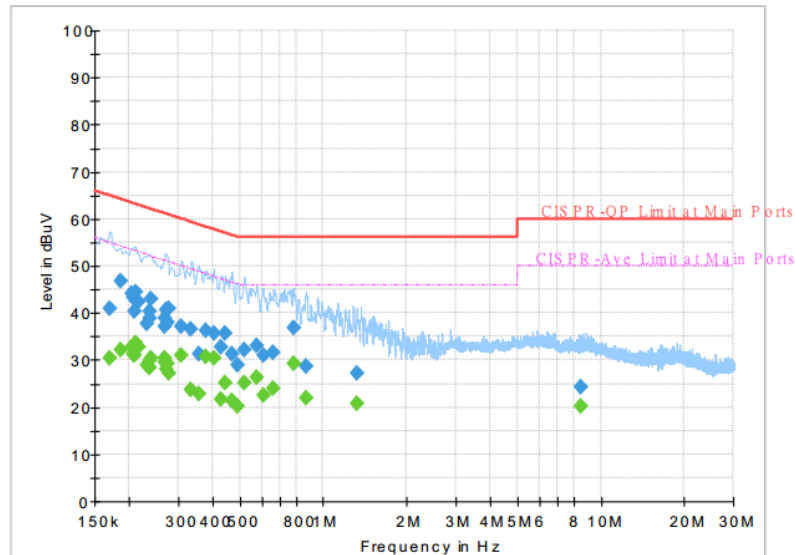
Test Engineer :	Jimmy Chang	Temperature :	24~26°C
		Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line


Final Result :

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.269250	---	30.39	51.14	20.75	L1	OFF	19.5
0.269250	38.88	---	61.14	22.26	L1	OFF	19.5
0.271500	---	28.21	51.07	22.86	L1	OFF	19.5
0.271500	40.55	---	61.07	20.52	L1	OFF	19.5
0.273750	---	29.21	51.00	21.79	L1	OFF	19.5
0.273750	38.07	---	61.00	22.93	L1	OFF	19.5
0.276000	---	27.08	50.94	23.86	L1	OFF	19.5
0.276000	41.02	---	60.94	19.92	L1	OFF	19.5
0.307500	---	31.12	50.04	18.92	L1	OFF	19.5
0.307500	37.18	---	60.04	22.86	L1	OFF	19.5
0.334500	---	23.74	49.34	25.60	L1	OFF	19.5
0.334500	36.40	---	59.34	22.94	L1	OFF	19.5
0.354750	---	22.89	48.85	25.96	L1	OFF	19.5
0.354750	31.28	---	58.85	27.57	L1	OFF	19.5
0.379500	---	30.63	48.29	17.66	L1	OFF	19.5
0.379500	36.24	---	58.29	22.05	L1	OFF	19.5
0.402000	---	30.45	47.81	17.36	L1	OFF	19.5
0.402000	35.62	---	57.81	22.19	L1	OFF	19.5
0.429000	---	21.53	47.27	25.74	L1	OFF	19.5
0.429000	32.61	---	57.27	24.66	L1	OFF	19.5
0.444750	---	25.17	46.97	21.80	L1	OFF	19.5
0.444750	35.68	---	56.97	21.29	L1	OFF	19.5
0.467250	---	21.42	46.56	25.14	L1	OFF	19.5
0.467250	31.28	---	56.56	25.28	L1	OFF	19.5



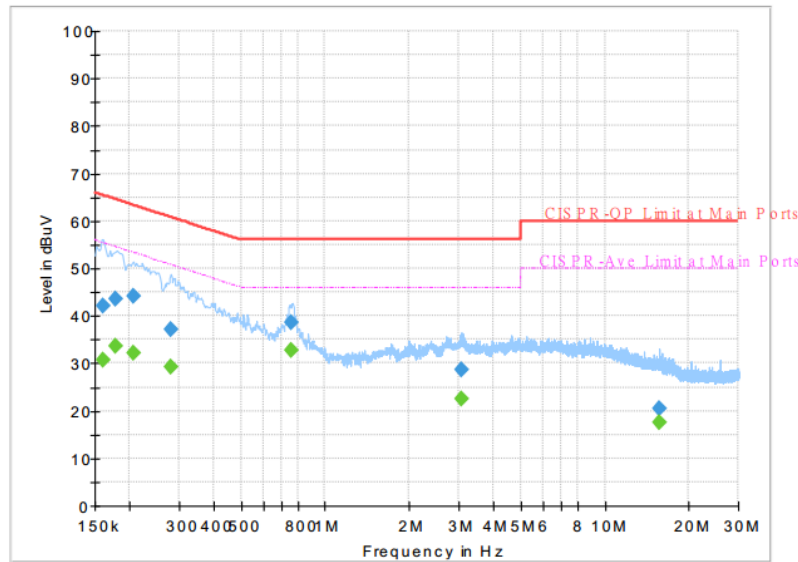
Test Engineer :	Jimmy Chang	Temperature :	24~26℃
		Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Final Result :

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.489750	---	20.30	46.17	25.87	L1	OFF	19.5
0.489750	29.03	---	56.17	27.14	L1	OFF	19.5
0.519000	---	25.21	46.00	20.79	L1	OFF	19.5
0.519000	32.16	---	56.00	23.84	L1	OFF	19.5
0.577500	---	26.36	46.00	19.64	L1	OFF	19.5
0.577500	32.95	---	56.00	23.05	L1	OFF	19.5
0.606750	---	22.37	46.00	23.63	L1	OFF	19.5
0.606750	31.12	---	56.00	24.88	L1	OFF	19.5
0.663000	---	23.97	46.00	22.03	L1	OFF	19.5
0.663000	31.64	---	56.00	24.36	L1	OFF	19.5
0.784500	---	29.37	46.00	16.63	L1	OFF	19.5
0.784500	36.83	---	56.00	19.17	L1	OFF	19.5
0.867750	---	21.93	46.00	24.07	L1	OFF	19.5
0.867750	28.80	---	56.00	27.20	L1	OFF	19.5
1.322250	---	20.90	46.00	25.10	L1	OFF	19.6
1.322250	27.16	---	56.00	28.84	L1	OFF	19.6
8.475000	---	20.18	50.00	29.82	L1	OFF	19.7
8.475000	24.23	---	60.00	35.77	L1	OFF	19.7

Test Engineer :	Jimmy Chang	Temperature :	24~26℃
		Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral


Final Result :

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	42.13	---	65.40	23.27	N	OFF	19.5
0.161250	---	30.65	55.40	24.75	N	OFF	19.5
0.177000	43.43	---	64.63	21.20	N	OFF	19.5
0.177000	---	33.48	54.63	21.15	N	OFF	19.5
0.206250	44.28	---	63.36	19.08	N	OFF	19.5
0.206250	---	32.28	53.36	21.08	N	OFF	19.5
0.280500	37.17	---	60.80	23.63	N	OFF	19.5
0.280500	---	29.24	50.80	21.56	N	OFF	19.5
0.757500	38.50	---	56.00	17.50	N	OFF	19.5
0.757500	---	32.87	46.00	13.13	N	OFF	19.5
3.088500	28.65	---	56.00	27.35	N	OFF	19.6
3.088500	---	22.51	46.00	23.49	N	OFF	19.6
15.657000	20.52	---	60.00	39.48	N	OFF	19.8
15.657000	---	17.41	50.00	32.59	N	OFF	19.8



Appendix B. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Fu Chen, and Wilson Wu	Temperature :	24.5~25.3°C
		Relative Humidity :	49~53%

<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	Preampl 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		5628.4	52.09	-16.11	68.2	40.83	32.07	8.84	29.65	249	41	P	H
		5699.8	54.48	-50.57	105.05	43.15	32.17	8.83	29.67	249	41	P	H
		5717.4	64.03	-46.04	110.07	52.7	32.19	8.82	29.68	249	41	P	H
		5725	57.7	-64.5	122.2	46.35	32.21	8.82	29.68	249	41	P	H
	*	5745	112.56	-	-	101.2	32.24	8.81	29.69	249	41	P	H
	*	5745	104.97	-	-	93.61	32.24	8.81	29.69	249	41	A	H
													H
													H
		5615.2	51.69	-16.51	68.2	40.44	32.04	8.85	29.64	400	51	P	V
		5692.6	52.45	-47.29	99.74	41.12	32.17	8.83	29.67	400	51	P	V
		5715.2	58.44	-51.02	109.46	47.11	32.19	8.82	29.68	400	51	P	V
		5723.2	56.01	-62.09	118.1	44.66	32.21	8.82	29.68	400	51	P	V
	*	5745	108.41	-	-	97.05	32.24	8.81	29.69	400	51	P	V
	*	5745	100.8	-	-	89.44	32.24	8.81	29.69	400	51	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)
802.11a CH 157 5785MHz		5637.4	51.96	-16.24	68.2	40.68	32.09	8.84	29.65	245	41	P	H
		5678.8	52.82	-36.73	89.55	41.51	32.14	8.83	29.66	245	41	P	H
		5717	53.26	-56.7	109.96	41.93	32.19	8.82	29.68	245	41	P	H
		5724.2	53.74	-66.64	120.38	42.39	32.21	8.82	29.68	245	41	P	H
	*	5785	112.64	-	-	101.27	32.29	8.8	29.72	245	41	P	H
	*	5785	104.62	-	-	93.25	32.29	8.8	29.72	245	41	A	H
		5853.6	54.52	-59.47	113.99	43	32.41	8.85	29.74	245	41	P	H
		5862.6	53.44	-55.23	108.67	41.92	32.41	8.86	29.75	245	41	P	H
		5888.8	52.9	-42.06	94.96	41.32	32.46	8.88	29.76	245	41	P	H
		5935.2	51.94	-16.26	68.2	40.3	32.5	8.92	29.78	245	41	P	H
													H
													H
		5607.6	51.4	-16.8	68.2	40.15	32.04	8.85	29.64	354	62	P	V
		5687.6	51.7	-44.35	96.05	40.37	32.17	8.83	29.67	354	62	P	V
		5719.2	51.47	-59.11	110.58	40.12	32.21	8.82	29.68	354	62	P	V
		5723.2	52.36	-65.74	118.1	41.01	32.21	8.82	29.68	354	62	P	V
	*	5785	108.62	-	-	97.25	32.29	8.8	29.72	354	62	P	V
	*	5785	100.8	-	-	89.43	32.29	8.8	29.72	354	62	A	V
		5855	52.58	-58.22	110.8	41.06	32.41	8.85	29.74	354	62	P	V
		5855	52.58	-58.22	110.8	41.06	32.41	8.85	29.74	354	62	P	V
		5890.2	53.67	-40.25	93.92	42.09	32.46	8.88	29.76	354	62	P	V
		5936	52.1	-16.1	68.2	40.46	32.5	8.92	29.78	354	62	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)
802.11a CH 165 5825MHz	*	5825	112.15	-	-	100.7	32.36	8.82	29.73	251	41	P	H
	*	5825	104.77	-	-	93.32	32.36	8.82	29.73	251	41	A	H
		5852.6	56.85	-59.42	116.27	45.36	32.38	8.85	29.74	251	41	P	H
		5869.6	56.47	-50.24	106.71	44.95	32.41	8.86	29.75	251	41	P	H
		5883	56.46	-42.8	99.26	44.91	32.43	8.87	29.75	251	41	P	H
		5934.4	53.7	-14.5	68.2	42.06	32.5	8.92	29.78	251	41	P	H
													H
													H
	*	5825	108.86	-	-	97.41	32.36	8.82	29.73	388	57	P	V
	*	5825	101.23	-	-	89.78	32.36	8.82	29.73	388	57	A	V
		5852.4	52.86	-63.87	116.73	41.37	32.38	8.85	29.74	388	57	P	V
		5861	53.35	-55.77	109.12	41.84	32.41	8.85	29.75	388	57	P	V
		5882.2	54.24	-45.61	99.85	42.69	32.43	8.87	29.75	388	57	P	V
		5937	51.55	-16.65	68.2	39.91	32.5	8.92	29.78	388	57	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	53.15	-20.85	74	56.79	39.92	12.74	56.3	100	0	P	H
		11490	44.06	-9.94	54	47.7	39.92	12.74	56.3	100	0	A	H
		17235	50.23	-17.97	68.2	50.85	40.84	15.11	56.57	100	0	P	H
													H
		11490	49.06	-24.94	74	52.7	39.92	12.74	56.3	100	0	P	V
		17235	48.89	-19.31	68.2	49.51	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	58.29	-15.71	74	62.05	39.76	12.78	56.3	100	360	P	H
		11570	48.87	-5.13	54	52.63	39.76	12.78	56.3	100	360	A	H
		17355	51.73	-16.47	68.2	52.13	41.26	15.15	56.81	100	0	P	H
													H
		11570	54.7	-19.3	74	58.46	39.76	12.78	56.3	210	5	P	V
		11570	45.88	-8.12	54	49.64	39.76	12.78	56.3	210	5	A	V
		17355	52.53	-15.67	68.2	52.93	41.26	15.15	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	52.99	-21.01	74	56.85	39.62	12.82	56.3	102	1	P	H
		11650	44.32	-9.68	54	48.18	39.62	12.82	56.3	102	1	A	H
		17475	49.75	-18.45	68.2	49.92	41.68	15.2	57.05	100	0	P	H
													H
		11650	49.49	-24.51	74	53.35	39.62	12.82	56.3	100	0	P	V
		17475	49.56	-18.64	68.2	49.73	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5646.6	53.54	-14.66	68.2	42.26	32.09	8.84	29.65	241	41	P	H
		5699.2	59.48	-45.13	104.61	48.15	32.17	8.83	29.67	241	41	P	H
		5716	63.99	-45.69	109.68	52.66	32.19	8.82	29.68	241	41	P	H
		5722	65.38	-49.98	115.36	54.03	32.21	8.82	29.68	241	41	P	H
	*	5745	112.63	-	-	101.27	32.24	8.81	29.69	241	41	P	H
	*	5745	104.74	-	-	93.38	32.24	8.81	29.69	241	41	A	H
													H
													H
		5631.6	52.32	-15.88	68.2	41.06	32.07	8.84	29.65	400	52	P	V
		5699.6	56.21	-48.7	104.91	44.88	32.17	8.83	29.67	400	52	P	V
		5718	61.93	-48.31	110.24	50.58	32.21	8.82	29.68	400	52	P	V
		5722.8	61.24	-55.94	117.18	49.89	32.21	8.82	29.68	400	52	P	V
	*	5745	108.72	-	-	97.36	32.24	8.81	29.69	400	52	P	V
	*	5745	100.88	-	-	89.52	32.24	8.81	29.69	400	52	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)
802.11n HT20 CH 157 5785MHz		5640.2	52.19	-16.01	68.2	40.91	32.09	8.84	29.65	224	40	P	H
		5693.6	53.04	-47.44	100.48	41.71	32.17	8.83	29.67	224	40	P	H
		5708.4	53.9	-53.65	107.55	42.57	32.19	8.82	29.68	224	40	P	H
		5721.8	53.49	-61.41	114.9	42.14	32.21	8.82	29.68	224	40	P	H
	*	5785	112.48	-	-	101.11	32.29	8.8	29.72	224	40	P	H
	*	5785	104.33	-	-	92.96	32.29	8.8	29.72	224	40	A	H
		5850.4	54.1	-67.19	121.29	42.61	32.38	8.85	29.74	224	40	P	H
		5858	55.41	-54.55	109.96	43.9	32.41	8.85	29.75	224	40	P	H
		5875	54.22	-50.98	105.2	42.67	32.43	8.87	29.75	224	40	P	H
		5932.8	52.29	-15.91	68.2	40.64	32.5	8.92	29.77	224	40	P	H
													H
													H
		5625.2	51.66	-16.54	68.2	40.39	32.07	8.84	29.64	373	62	P	V
		5687.2	52.3	-43.46	95.76	40.97	32.17	8.83	29.67	373	62	P	V
		5705.6	51.83	-54.94	106.77	40.5	32.19	8.82	29.68	373	62	P	V
		5723	51.25	-66.39	117.64	39.9	32.21	8.82	29.68	373	62	P	V
	*	5785	108.49	-	-	97.12	32.29	8.8	29.72	373	62	P	V
	*	5785	100.6	-	-	89.23	32.29	8.8	29.72	373	62	A	V
		5854.6	52.76	-58.95	111.71	41.24	32.41	8.85	29.74	373	62	P	V
		5874.6	53.19	-52.12	105.31	41.64	32.43	8.87	29.75	373	62	P	V
		5909.4	53.33	-26.38	79.71	41.72	32.48	8.9	29.77	373	62	P	V
		5935.2	52.15	-16.05	68.2	40.51	32.5	8.92	29.78	373	62	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)
802.11n HT20 CH 165 5825MHz	*	5825	112.04	-	-	100.59	32.36	8.82	29.73	242	41	P	H
	*	5825	104.1	-	-	92.65	32.36	8.82	29.73	242	41	A	H
		5851.8	64.87	-53.23	118.1	53.38	32.38	8.85	29.74	242	41	P	H
		5855.4	65.71	-44.98	110.69	54.19	32.41	8.85	29.74	242	41	P	H
		5879.4	61.11	-40.82	101.93	49.56	32.43	8.87	29.75	242	41	P	H
		5929	54.53	-13.67	68.2	42.88	32.5	8.92	29.77	242	41	P	H
													H
													H
	*	5825	109.29	-	-	97.84	32.36	8.82	29.73	386	51	P	V
	*	5825	101.4	-	-	89.95	32.36	8.82	29.73	386	51	A	V
		5853.2	61.33	-53.57	114.9	49.84	32.38	8.85	29.74	386	51	P	V
		5859.6	62.61	-46.9	109.51	51.1	32.41	8.85	29.75	386	51	P	V
		5875.6	58.05	-46.7	104.75	46.5	32.43	8.87	29.75	386	51	P	V
		5942.8	53.3	-14.9	68.2	41.62	32.53	8.93	29.78	386	51	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 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		11490	52.49	-21.51	74	56.13	39.92	12.74	56.3	100	0	P	H
		11490	42.83	-11.17	54	46.47	39.92	12.74	56.3	100	0	A	H
		17235	49.32	-18.88	68.2	49.94	40.84	15.11	56.57	100	0	P	H
													H
		11490	48.28	-25.72	74	51.92	39.92	12.74	56.3	100	0	P	V
		17235	48.37	-19.83	68.2	48.99	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	51.71	-22.29	74	55.47	39.76	12.78	56.3	100	360	P	H
		11570	41.98	-12.02	54	45.74	39.76	12.78	56.3	100	360	A	H
		17355	48.34	-19.86	68.2	48.74	41.26	15.15	56.81	100	0	P	H
													H
		11570	46.1	-27.9	74	49.86	39.76	12.78	56.3	100	0	P	V
		17355	48.87	-19.33	68.2	49.27	41.26	15.15	56.81	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	53.63	-20.37	74	57.49	39.62	12.82	56.3	100	0	P	H
		11650	43.48	-10.52	54	47.34	39.62	12.82	56.3	100	0	A	H
		17475	50.57	-17.63	68.2	50.74	41.68	15.2	57.05	100	0	P	H
													H
		11650	48.51	-25.49	74	52.37	39.62	12.82	56.3	100	0	P	V
		17475	49.48	-18.72	68.2	49.65	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5649.4	53.54	-14.66	68.2	42.26	32.09	8.84	29.65	235	42	P	H
		5697.6	61.93	-41.5	103.43	50.6	32.17	8.83	29.67	235	42	P	H
		5718.2	64.57	-45.73	110.3	53.22	32.21	8.82	29.68	235	42	P	H
		5724.4	67.11	-53.72	120.83	55.76	32.21	8.82	29.68	235	42	P	H
	*	5755	109.78	-	-	98.4	32.26	8.81	29.69	235	42	P	H
	*	5755	101.9	-	-	90.52	32.26	8.81	29.69	235	42	A	H
		5855	54.79	-56.01	110.8	43.27	32.41	8.85	29.74	235	42	P	H
		5855.2	56.37	-54.37	110.74	44.85	32.41	8.85	29.74	235	42	P	H
		5875.8	56.05	-48.56	104.61	44.5	32.43	8.87	29.75	235	42	P	H
		5936	52.78	-15.42	68.2	41.14	32.5	8.92	29.78	235	42	P	H
													H
													H
		5604	51.99	-16.21	68.2	40.74	32.04	8.85	29.64	397	52	P	V
		5699.4	58.02	-46.74	104.76	46.69	32.17	8.83	29.67	397	52	P	V
		5717.8	59.81	-50.37	110.18	48.46	32.21	8.82	29.68	397	52	P	V
		5722.8	62.17	-55.01	117.18	50.82	32.21	8.82	29.68	397	52	P	V
	*	5755	106.71	-	-	95.33	32.26	8.81	29.69	397	52	P	V
	*	5755	99.13	-	-	87.75	32.26	8.81	29.69	397	52	A	V
		5850.6	52.39	-68.44	120.83	40.9	32.38	8.85	29.74	397	52	P	V
		5865.6	52.72	-55.11	107.83	41.2	32.41	8.86	29.75	397	52	P	V
		5913.6	52.58	-24.03	76.61	40.97	32.48	8.9	29.77	397	52	P	V
		5931.6	52.39	-15.81	68.2	40.74	32.5	8.92	29.77	397	52	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)
802.11n HT40 CH 159 5795MHz		5614.6	52.35	-15.85	68.2	41.1	32.04	8.85	29.64	232	41	P	H
		5698.2	55.21	-48.66	103.87	43.88	32.17	8.83	29.67	232	41	P	H
		5715	58.32	-51.08	109.4	46.99	32.19	8.82	29.68	232	41	P	H
		5723.4	57.64	-60.91	118.55	46.29	32.21	8.82	29.68	232	41	P	H
	*	5795	109.18	-	-	97.79	32.31	8.8	29.72	232	41	P	H
	*	5795	101.61	-	-	90.22	32.31	8.8	29.72	232	41	A	H
		5851.4	62.88	-56.13	119.01	51.39	32.38	8.85	29.74	232	41	P	H
		5860.6	61.53	-47.7	109.23	50.02	32.41	8.85	29.75	232	41	P	H
		5886.6	58.66	-37.93	96.59	47.11	32.43	8.88	29.76	232	41	P	H
		5928.8	53.89	-14.31	68.2	42.24	32.5	8.92	29.77	232	41	P	H
													H
													H
		5628.4	51.81	-16.39	68.2	40.55	32.07	8.84	29.65	392	50	P	V
		5682.2	52.89	-39.18	92.07	41.59	32.14	8.83	29.67	392	50	P	V
		5712.6	54.08	-54.65	108.73	42.75	32.19	8.82	29.68	392	50	P	V
		5724.8	54.2	-67.54	121.74	42.85	32.21	8.82	29.68	392	50	P	V
	*	5795	105.82	-	-	94.43	32.31	8.8	29.72	392	50	P	V
	*	5795	98.47	-	-	87.08	32.31	8.8	29.72	392	50	A	V
		5853	58.02	-57.34	115.36	46.53	32.38	8.85	29.74	392	50	P	V
		5860.2	55.78	-53.56	109.34	44.27	32.41	8.85	29.75	392	50	P	V
		5876.8	55.38	-48.48	103.86	43.83	32.43	8.87	29.75	392	50	P	V
		5926	53.19	-15.01	68.2	41.55	32.5	8.91	29.77	392	50	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 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		11510	48.33	-25.67	74	51.98	39.9	12.75	56.3	100	0	P	H
		17265	49.25	-18.95	68.2	49.8	40.96	15.12	56.63	100	0	P	H
													H
													H
		11510	46.9	-27.1	74	50.55	39.9	12.75	56.3	100	0	P	V
		17265	48.45	-19.75	68.2	49	40.96	15.12	56.63	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	47.06	-26.94	74	50.84	39.73	12.79	56.3	100	0	P	H
		17385	50.27	-17.93	68.2	50.59	41.38	15.17	56.87	100	0	P	H
													H
													H
		11590	46.82	-27.18	74	50.6	39.73	12.79	56.3	100	0	P	V
		17385	49.56	-18.64	68.2	49.88	41.38	15.17	56.87	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5634.8	52.41	-15.79	68.2	41.13	32.09	8.84	29.65	241	40	P	H
		5693.8	58.07	-42.56	100.63	46.74	32.17	8.83	29.67	241	40	P	H
		5711	60.17	-48.11	108.28	48.84	32.19	8.82	29.68	241	40	P	H
		5724.6	63.19	-58.1	121.29	51.84	32.21	8.82	29.68	241	40	P	H
	*	5775	106.84	-	-	95.45	32.29	8.81	29.71	241	40	P	H
	*	5775	98.91	-	-	87.52	32.29	8.81	29.71	241	40	A	H
		5853.4	63.15	-51.3	114.45	51.66	32.38	8.85	29.74	241	40	P	H
		5857	63.4	-46.84	110.24	51.88	32.41	8.85	29.74	241	40	P	H
		5875.4	59.77	-45.13	104.9	48.22	32.43	8.87	29.75	241	40	P	H
		5939.4	53.18	-15.02	68.2	41.5	32.53	8.93	29.78	241	40	P	H
													H
													H
		5625.4	52.26	-15.94	68.2	40.99	32.07	8.84	29.64	397	50	P	V
		5684.2	53.48	-40.06	93.54	42.15	32.17	8.83	29.67	397	50	P	V
		5711.8	58.19	-50.32	108.51	46.86	32.19	8.82	29.68	397	50	P	V
		5724.4	56.04	-64.79	120.83	44.69	32.21	8.82	29.68	397	50	P	V
	*	5775	103.21	-	-	91.82	32.29	8.81	29.71	397	50	P	V
	*	5775	95.02	-	-	83.63	32.29	8.81	29.71	397	50	A	V
		5851.6	58.01	-60.54	118.55	46.52	32.38	8.85	29.74	397	50	P	V
		5857.6	58.16	-51.91	110.07	46.64	32.41	8.85	29.74	397	50	P	V
		5875	55.25	-49.95	105.2	43.7	32.43	8.87	29.75	397	50	P	V
		5931	52.16	-16.04	68.2	40.51	32.5	8.92	29.77	397	50	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)
802.11ac VHT80 CH 155 5775MHz		11550	47	-27	74	50.73	39.8	12.77	56.3	100	0	P	H
		17325	48.93	-19.27	68.2	49.4	41.14	15.14	56.75	100	0	P	H
													H
													H
		11550	45.99	-28.01	74	49.72	39.8	12.77	56.3	100	0	P	V
		17325	49.1	-19.1	68.2	49.57	41.14	15.14	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

[illegible]

**Band 4 - 5725~5850MHz****WIFI 802.11a (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5617.2	52.91	-15.29	68.2	41.63	32.07	8.85	29.64	103	29	P	H
		5691.8	53.32	-45.83	99.15	41.99	32.17	8.83	29.67	103	29	P	H
		5716.2	54.97	-54.77	109.74	43.64	32.19	8.82	29.68	103	29	P	H
		5724.8	57.28	-64.46	121.74	45.93	32.21	8.82	29.68	103	29	P	H
	*	5745	111.69	-	-	100.33	32.24	8.81	29.69	103	29	P	H
	*	5745	104.23	-	-	92.87	32.24	8.81	29.69	103	29	A	H
													H
													H
		5604.2	51.46	-16.74	68.2	40.21	32.04	8.85	29.64	268	75	P	V
		5684	53.15	-40.25	93.4	41.82	32.17	8.83	29.67	268	75	P	V
		5712.2	53.45	-55.17	108.62	42.12	32.19	8.82	29.68	268	75	P	V
		5725	54.14	-68.06	122.2	42.79	32.21	8.82	29.68	268	75	P	V
	*	5745	107.73	-	-	96.37	32.24	8.81	29.69	268	75	P	V
	*	5745	100.02	-	-	88.66	32.24	8.81	29.69	268	75	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)
802.11a CH 157 5785MHz		5632.4	52.98	-15.22	68.2	41.72	32.07	8.84	29.65	101	28	P	H
		5696.2	53.17	-49.23	102.4	41.84	32.17	8.83	29.67	101	28	P	H
		5713	54.98	-53.86	108.84	43.65	32.19	8.82	29.68	101	28	P	H
		5723.6	55.24	-63.77	119.01	43.89	32.21	8.82	29.68	101	28	P	H
	*	5785	112.09	-	-	100.72	32.29	8.8	29.72	101	28	P	H
	*	5785	104.55	-	-	93.18	32.29	8.8	29.72	101	28	A	H
		5850.8	54.5	-65.88	120.38	43.01	32.38	8.85	29.74	101	28	P	H
		5858.4	54.75	-55.1	109.85	43.24	32.41	8.85	29.75	101	28	P	H
		5879.8	53.16	-48.47	101.63	41.61	32.43	8.87	29.75	101	28	P	H
		5933.4	53.88	-14.32	68.2	42.23	32.5	8.92	29.77	101	28	P	H
													H
													H
		5650	52.49	-15.71	68.2	41.18	32.12	8.84	29.65	250	74	P	V
		5650	52.49	-15.71	68.2	41.18	32.12	8.84	29.65	250	74	P	V
		5719.8	52.75	-57.99	110.74	41.4	32.21	8.82	29.68	250	74	P	V
		5724.2	52.06	-68.32	120.38	40.71	32.21	8.82	29.68	250	74	P	V
	*	5785	107.88	-	-	96.51	32.29	8.8	29.72	250	74	P	V
	*	5785	100.18	-	-	88.81	32.29	8.8	29.72	250	74	A	V
		5851.6	52.45	-66.1	118.55	40.96	32.38	8.85	29.74	250	74	P	V
		5875	51.87	-53.33	105.2	40.32	32.43	8.87	29.75	250	74	P	V
		5893.8	52.26	-38.99	91.25	40.68	32.46	8.88	29.76	250	74	P	V
		5944.8	51.96	-16.24	68.2	40.28	32.53	8.93	29.78	250	74	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)
802.11a CH 165 5825MHz	*	5825	111.89	-	-	100.44	32.36	8.82	29.73	100	30	P	H
	*	5825	104.15	-	-	92.7	32.36	8.82	29.73	100	30	A	H
		5851.2	59.77	-59.69	119.46	48.28	32.38	8.85	29.74	100	30	P	H
		5859.8	60.1	-49.35	109.45	48.59	32.41	8.85	29.75	100	30	P	H
		5879.8	54.93	-46.7	101.63	43.38	32.43	8.87	29.75	100	30	P	H
		5931.2	52.33	-15.87	68.2	40.68	32.5	8.92	29.77	100	30	P	H
													H
													H
	*	5825	107.44	-	-	95.99	32.36	8.82	29.73	264	70	P	V
	*	5825	100.07	-	-	88.62	32.36	8.82	29.73	264	70	A	V
		5854.6	52.32	-59.39	111.71	40.8	32.41	8.85	29.74	264	70	P	V
		5860.4	56.44	-52.85	109.29	44.93	32.41	8.85	29.75	264	70	P	V
		5880	53.81	-47.68	101.49	42.26	32.43	8.87	29.75	264	70	P	V
		5949	51.25	-16.95	68.2	39.57	32.53	8.93	29.78	264	70	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	53.03	-20.97	74	56.67	39.92	12.74	56.3	100	347	P	H
		11490	43.23	-10.77	54	46.87	39.92	12.74	56.3	100	347	A	H
		17235	49.37	-18.83	68.2	49.99	40.84	15.11	56.57	100	0	P	H
													H
		11490	48.66	-25.34	74	52.3	39.92	12.74	56.3	100	0	P	V
		17235	48.84	-19.36	68.2	49.46	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	58.42	-15.58	74	62.18	39.76	12.78	56.3	100	347	P	H
		11570	47.87	-6.13	54	51.63	39.76	12.78	56.3	100	347	A	H
		17355	51.16	-17.04	68.2	51.56	41.26	15.15	56.81	100	0	P	H
													H
		11570	54.92	-19.08	74	58.68	39.76	12.78	56.3	101	329	P	V
		11570	45.18	-8.82	54	48.94	39.76	12.78	56.3	101	329	A	V
		17355	52.67	-15.53	68.2	53.07	41.26	15.15	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	49.99	-24.01	74	53.85	39.62	12.82	56.3	100	0	P	H
		17475	50.17	-18.03	68.2	50.34	41.68	15.2	57.05	100	0	P	H
													H
													H
		11650	49.14	-24.86	74	53	39.62	12.82	56.3	100	0	P	V
		17475	49.77	-18.43	68.2	49.94	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		5613.6	51.67	-16.53	68.2	40.42	32.04	8.85	29.64	100	30	P	H
		5696.2	55.43	-46.97	102.4	44.1	32.17	8.83	29.67	100	30	P	H
		5719.6	60.02	-50.67	110.69	48.67	32.21	8.82	29.68	100	30	P	H
		5725	60.09	-62.11	122.2	48.74	32.21	8.82	29.68	100	30	P	H
	*	5745	111.83	-	-	100.47	32.24	8.81	29.69	100	30	P	H
	*	5745	104.2	-	-	92.84	32.24	8.81	29.69	100	30	A	H
													H
													H
		5609.8	51.73	-16.47	68.2	40.48	32.04	8.85	29.64	266	70	P	V
		5699.8	54.89	-50.16	105.05	43.56	32.17	8.83	29.67	266	70	P	V
		5706.6	52.9	-54.15	107.05	41.57	32.19	8.82	29.68	266	70	P	V
		5725	56.95	-65.25	122.2	45.6	32.21	8.82	29.68	266	70	P	V
	*	5745	108.19	-	-	96.83	32.24	8.81	29.69	266	70	P	V
	*	5745	100.67	-	-	89.31	32.24	8.81	29.69	266	70	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)
802.11n HT20 CH 157 5785MHz		5622.2	52.85	-15.35	68.2	41.58	32.07	8.84	29.64	100	29	P	H
		5695	52.9	-48.61	101.51	41.57	32.17	8.83	29.67	100	29	P	H
		5715.2	54.98	-54.48	109.46	43.65	32.19	8.82	29.68	100	29	P	H
		5724.2	56.2	-64.18	120.38	44.85	32.21	8.82	29.68	100	29	P	H
	*	5785	111.58	-	-	100.21	32.29	8.8	29.72	100	29	P	H
	*	5785	104.03	-	-	92.66	32.29	8.8	29.72	100	29	A	H
		5851.4	56.98	-62.03	119.01	45.49	32.38	8.85	29.74	100	29	P	H
		5855	56.47	-54.33	110.8	44.95	32.41	8.85	29.74	100	29	P	H
		5892.2	53.85	-38.59	92.44	42.27	32.46	8.88	29.76	100	29	P	H
		5929	52.73	-15.47	68.2	41.08	32.5	8.92	29.77	100	29	P	H
													H
													H
		5618.8	52.01	-16.19	68.2	40.73	32.07	8.85	29.64	259	71	P	V
		5688.4	51.39	-45.25	96.64	40.06	32.17	8.83	29.67	259	71	P	V
		5711.2	52.41	-55.93	108.34	41.08	32.19	8.82	29.68	259	71	P	V
		5720.6	51.96	-60.21	112.17	40.61	32.21	8.82	29.68	259	71	P	V
	*	5785	107.73	-	-	96.36	32.29	8.8	29.72	259	71	P	V
	*	5785	100.18	-	-	88.81	32.29	8.8	29.72	259	71	A	V
		5854	52.6	-60.48	113.08	41.08	32.41	8.85	29.74	259	71	P	V
		5857	52.69	-57.55	110.24	41.17	32.41	8.85	29.74	259	71	P	V
		5882.8	52.37	-47.04	99.41	40.82	32.43	8.87	29.75	259	71	P	V
		5946	52.19	-16.01	68.2	40.51	32.53	8.93	29.78	259	71	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)
802.11n HT20 CH 165 5825MHz	*	5825	111.22	-	-	99.77	32.36	8.82	29.73	100	30	P	H
	*	5825	103.34	-	-	91.89	32.36	8.82	29.73	100	30	A	H
		5850	57.02	-65.18	122.2	45.53	32.38	8.85	29.74	100	30	P	H
		5855.6	59.05	-51.58	110.63	47.53	32.41	8.85	29.74	100	30	P	H
		5896.6	56	-33.18	89.18	44.41	32.46	8.89	29.76	100	30	P	H
		5925.8	52.21	-15.99	68.2	40.57	32.5	8.91	29.77	100	30	P	H
													H
													H
	*	5825	107.56	-	-	96.11	32.36	8.82	29.73	249	72	P	V
	*	5825	100.07	-	-	88.62	32.36	8.82	29.73	249	72	A	V
		5852.4	55.98	-60.75	116.73	44.49	32.38	8.85	29.74	249	72	P	V
		5860.2	56.73	-52.61	109.34	45.22	32.41	8.85	29.75	249	72	P	V
		5895.6	52.98	-36.94	89.92	41.39	32.46	8.89	29.76	249	72	P	V
		5932	52.86	-15.34	68.2	41.21	32.5	8.92	29.77	249	72	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 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		11490	52.85	-21.15	74	56.49	39.92	12.74	56.3	100	347	P	H
		11490	42.97	-11.03	54	46.61	39.92	12.74	56.3	100	347	A	H
		17235	48.93	-19.27	68.2	49.55	40.84	15.11	56.57	100	0	P	H
													H
		11490	48.3	-25.7	74	51.94	39.92	12.74	56.3	100	0	P	V
		17235	48.32	-19.88	68.2	48.94	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	49.03	-24.97	74	52.79	39.76	12.78	56.3	100	0	P	H
		17355	49.09	-19.11	68.2	49.49	41.26	15.15	56.81	100	0	P	H
													H
													H
		11570	46.65	-27.35	74	50.41	39.76	12.78	56.3	100	0	P	V
		17355	48.35	-19.85	68.2	48.75	41.26	15.15	56.81	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	49.38	-24.62	74	53.24	39.62	12.82	56.3	100	0	P	H
		17475	49.7	-18.5	68.2	49.87	41.68	15.2	57.05	100	0	P	H
													H
													H
		11650	49.97	-24.03	74	53.83	39.62	12.82	56.3	100	0	P	V
		17475	50.1	-18.1	68.2	50.27	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		5622.6	52.58	-15.62	68.2	41.31	32.07	8.84	29.64	100	29	P	H
		5699.8	58.54	-46.51	105.05	47.21	32.17	8.83	29.67	100	29	P	H
		5713	59.73	-49.11	108.84	48.4	32.19	8.82	29.68	100	29	P	H
		5722	61.04	-54.32	115.36	49.69	32.21	8.82	29.68	100	29	P	H
	*	5755	108.76	-	-	97.38	32.26	8.81	29.69	100	29	P	H
	*	5755	101.59	-	-	90.21	32.26	8.81	29.69	100	29	A	H
		5855	52.69	-58.11	110.8	41.17	32.41	8.85	29.74	100	29	P	H
		5855	52.69	-58.11	110.8	41.17	32.41	8.85	29.74	100	29	P	H
		5881.8	53.45	-46.7	100.15	41.9	32.43	8.87	29.75	100	29	P	H
		5937.2	52.94	-15.26	68.2	41.3	32.5	8.92	29.78	100	29	P	H
													H
													H
		5615.2	52.05	-16.15	68.2	40.8	32.04	8.85	29.64	249	67	P	V
		5695.2	52.69	-48.97	101.66	41.36	32.17	8.83	29.67	249	67	P	V
		5718.4	57.29	-53.06	110.35	45.94	32.21	8.82	29.68	249	67	P	V
		5724	57.01	-62.91	119.92	45.66	32.21	8.82	29.68	249	67	P	V
	*	5755	105.1	-	-	93.72	32.26	8.81	29.69	249	67	P	V
	*	5755	97.39	-	-	86.01	32.26	8.81	29.69	249	67	A	V
		5852.6	51.67	-64.6	116.27	40.18	32.38	8.85	29.74	249	67	P	V
		5865.4	51.15	-56.74	107.89	39.63	32.41	8.86	29.75	249	67	P	V
		5909.4	52.29	-27.42	79.71	40.68	32.48	8.9	29.77	249	67	P	V
		5925.6	52.58	-15.62	68.2	40.94	32.5	8.91	29.77	249	67	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)
802.11n HT40 CH 159 5795MHz		5638.8	52.66	-15.54	68.2	41.38	32.09	8.84	29.65	100	33	P	H
		5696	54.36	-47.89	102.25	43.03	32.17	8.83	29.67	100	33	P	H
		5714.2	57.91	-51.27	109.18	46.58	32.19	8.82	29.68	100	33	P	H
		5723.6	58.04	-60.97	119.01	46.69	32.21	8.82	29.68	100	33	P	H
	*	5795	108.5	-	-	97.11	32.31	8.8	29.72	100	33	P	H
	*	5795	101.28	-	-	89.89	32.31	8.8	29.72	100	33	A	H
		5852.6	60.22	-56.05	116.27	48.73	32.38	8.85	29.74	100	33	P	H
		5855	59.87	-50.93	110.8	48.35	32.41	8.85	29.74	100	33	P	H
		5878.6	56.21	-46.32	102.53	44.66	32.43	8.87	29.75	100	33	P	H
		5946	52.95	-15.25	68.2	41.27	32.53	8.93	29.78	100	33	P	H
													H
													H
		5646.8	52.45	-15.75	68.2	41.17	32.09	8.84	29.65	248	66	P	V
		5665.8	52.07	-27.86	79.93	40.78	32.12	8.83	29.66	248	66	P	V
		5717	54.55	-55.41	109.96	43.22	32.19	8.82	29.68	248	66	P	V
		5722.4	55.34	-60.93	116.27	43.99	32.21	8.82	29.68	248	66	P	V
	*	5795	104.99	-	-	93.6	32.31	8.8	29.72	248	66	P	V
	*	5795	97.72	-	-	86.33	32.31	8.8	29.72	248	66	A	V
		5852.8	56.89	-58.93	115.82	45.4	32.38	8.85	29.74	248	66	P	V
		5865.6	57.62	-50.21	107.83	46.1	32.41	8.86	29.75	248	66	P	V
		5878.2	55.34	-47.48	102.82	43.79	32.43	8.87	29.75	248	66	P	V
		5942.4	53.13	-15.07	68.2	41.45	32.53	8.93	29.78	248	66	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 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		11510	49.03	-24.97	74	52.68	39.9	12.75	56.3	100	0	P	H
		17265	48.98	-19.22	68.2	49.53	40.96	15.12	56.63	100	0	P	H
													H
													H
		11510	47.27	-26.73	74	50.92	39.9	12.75	56.3	100	0	P	V
		17265	49.1	-19.1	68.2	49.65	40.96	15.12	56.63	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	49.03	-24.97	74	52.81	39.73	12.79	56.3	100	0	P	H
		17385	49.08	-19.12	68.2	49.4	41.38	15.17	56.87	100	0	P	H
													H
													H
		11590	46.52	-27.48	74	50.3	39.73	12.79	56.3	100	0	P	V
		17385	49.78	-18.42	68.2	50.1	41.38	15.17	56.87	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5649.2	53.14	-15.06	68.2	41.86	32.09	8.84	29.65	111	38	P	H
		5699.4	61.29	-43.47	104.76	49.96	32.17	8.83	29.67	111	38	P	H
		5703.4	61.7	-44.45	106.15	50.36	32.19	8.82	29.67	111	38	P	H
		5720.8	63.06	-49.56	112.62	51.71	32.21	8.82	29.68	111	38	P	H
	*	5775	105.69	-	-	94.3	32.29	8.81	29.71	111	38	P	H
	*	5775	98.05	-	-	86.66	32.29	8.81	29.71	111	38	A	H
		5851.2	64.48	-54.98	119.46	52.99	32.38	8.85	29.74	111	38	P	H
		5855	63.77	-47.03	110.8	52.25	32.41	8.85	29.74	111	38	P	H
		5876	58.95	-45.51	104.46	47.4	32.43	8.87	29.75	111	38	P	H
		5927.6	51.53	-16.67	68.2	39.89	32.5	8.91	29.77	111	38	P	H
													H
													H
		5631.6	52.91	-15.29	68.2	41.65	32.07	8.84	29.65	252	71	P	V
		5700	56.42	-48.78	105.2	45.09	32.17	8.83	29.67	252	71	P	V
		5719.8	58.83	-51.91	110.74	47.48	32.21	8.82	29.68	252	71	P	V
		5720.8	59.74	-52.88	112.62	48.39	32.21	8.82	29.68	252	71	P	V
	*	5775	102.29	-	-	90.9	32.29	8.81	29.71	252	71	P	V
	*	5775	94.53	-	-	83.14	32.29	8.81	29.71	252	71	A	V
		5851	58.72	-61.2	119.92	47.23	32.38	8.85	29.74	252	71	P	V
		5856.8	60.23	-50.07	110.3	48.71	32.41	8.85	29.74	252	71	P	V
		5880.4	54.09	-47.1	101.19	42.54	32.43	8.87	29.75	252	71	P	V
		5938.4	51.48	-16.72	68.2	39.84	32.5	8.92	29.78	252	71	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)
802.11ac VHT80 CH 155 5775MHz		11550	47.68	-26.32	74	51.41	39.8	12.77	56.3	100	0	P	H
		17325	49.26	-18.94	68.2	49.73	41.14	15.14	56.75	100	0	P	H
													H
													H
		11550	46.8	-27.2	74	50.53	39.8	12.77	56.3	100	0	P	V
		17325	48.25	-19.95	68.2	48.72	41.14	15.14	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		134.76	28.87	-14.63	43.5	42.24	17.38	1.44	32.19	-	-	P	H
		205.77	26.84	-16.66	43.5	42.14	15.09	1.75	32.14	-	-	P	H
		290.01	34.01	-11.99	46	45.16	18.93	2.07	32.15	-	-	P	H
		300.7	30.95	-15.05	46	41.86	19.14	2.1	32.15	-	-	P	H
		800.5	31.11	-14.89	46	31.56	28.03	3.41	31.89	-	-	P	H
		885.9	38.5	-7.5	46	37.37	29.07	3.54	31.48	100	0	P	H
													H
													H
													H
													H
													H
													H
		47.01	30.48	-9.52	40	46.11	15.74	0.92	32.29	-	-	P	V
		60.24	32.24	-7.76	40	51.77	11.78	0.96	32.27	100	0	P	V
		91.02	32.07	-11.43	43.5	48.06	14.95	1.28	32.22	-	-	P	V
		745.2	30.61	-15.39	46	31.48	27.91	3.22	32	-	-	P	V
		895.7	34.42	-11.58	46	33.28	29.02	3.55	31.43	-	-	P	V
		941.2	34.03	-11.97	46	31.17	30.23	3.69	31.06	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5642.6	53.03	-15.17	68.2	41.75	32.09	8.84	29.65	245	41	P	H
		5699.6	54.44	-50.47	104.91	43.11	32.17	8.83	29.67	245	41	P	H
		5715.2	57.16	-52.3	109.46	45.83	32.19	8.82	29.68	245	41	P	H
		5724.8	57.25	-64.49	121.74	45.9	32.21	8.82	29.68	245	41	P	H
	*	5745	114.11	-	-	102.75	32.24	8.81	29.69	245	41	P	H
	*	5745	107.16	-	-	95.8	32.24	8.81	29.69	245	41	A	H
													H
													H
		5628	51.59	-16.61	68.2	40.32	32.07	8.84	29.64	324	72	P	V
		5681.2	53.13	-38.2	91.33	41.83	32.14	8.83	29.67	324	72	P	V
		5703.4	53.62	-52.53	106.15	42.28	32.19	8.82	29.67	324	72	P	V
		5724.8	55.07	-66.67	121.74	43.72	32.21	8.82	29.68	324	72	P	V
	*	5745	111.05	-	-	99.69	32.24	8.81	29.69	324	72	P	V
	*	5745	103.69	-	-	92.33	32.24	8.81	29.69	324	72	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)
802.11a CH 157 5785MHz		5620	52.09	-16.11	68.2	40.81	32.07	8.85	29.64	241	41	P	H
		5694.8	54.4	-46.97	101.37	43.07	32.17	8.83	29.67	241	41	P	H
		5719.8	54.03	-56.71	110.74	42.68	32.21	8.82	29.68	241	41	P	H
		5721.2	54.43	-59.11	113.54	43.08	32.21	8.82	29.68	241	41	P	H
	*	5785	114.11	-	-	102.74	32.29	8.8	29.72	241	41	P	H
	*	5785	107.24	-	-	95.87	32.29	8.8	29.72	241	41	A	H
		5851.8	54.71	-63.39	118.1	43.22	32.38	8.85	29.74	241	41	P	H
		5869.8	54.04	-52.61	106.65	42.52	32.41	8.86	29.75	241	41	P	H
		5881.2	53.16	-47.43	100.59	41.61	32.43	8.87	29.75	241	41	P	H
		5931.8	52.61	-15.59	68.2	40.96	32.5	8.92	29.77	241	41	P	H
													H
													H
		5615.4	51.35	-16.85	68.2	40.1	32.04	8.85	29.64	323	76	P	V
		5653	51.07	-19.36	70.43	39.76	32.12	8.84	29.65	323	76	P	V
		5713.6	52.55	-56.46	109.01	41.22	32.19	8.82	29.68	323	76	P	V
		5723	52.64	-65	117.64	41.29	32.21	8.82	29.68	323	76	P	V
	*	5785	111.28	-	-	99.91	32.29	8.8	29.72	323	76	P	V
	*	5785	103.79	-	-	92.42	32.29	8.8	29.72	323	76	A	V
		5850.8	52.44	-67.94	120.38	40.95	32.38	8.85	29.74	323	76	P	V
		5859.6	52.28	-57.23	109.51	40.77	32.41	8.85	29.75	323	76	P	V
		5876.4	53.08	-51.08	104.16	41.53	32.43	8.87	29.75	323	76	P	V
		5937.8	52.81	-15.39	68.2	41.17	32.5	8.92	29.78	323	76	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)
802.11a CH 165 5825MHz	*	5825	114.99	-	-	103.54	32.36	8.82	29.73	243	40	P	H
	*	5825	107.23	-	-	95.78	32.36	8.82	29.73	243	40	A	H
		5850.4	57.03	-64.26	121.29	45.54	32.38	8.85	29.74	243	40	P	H
		5859.2	57.34	-52.28	109.62	45.83	32.41	8.85	29.75	243	40	P	H
		5879.6	57.09	-44.69	101.78	45.54	32.43	8.87	29.75	243	40	P	H
		5933.8	54.6	-13.6	68.2	42.95	32.5	8.92	29.77	243	40	P	H
													H
													H
	*	5825	111.15	-	-	99.7	32.36	8.82	29.73	322	73	P	V
	*	5825	103.81	-	-	92.36	32.36	8.82	29.73	322	73	A	V
		5850.8	53.49	-66.89	120.38	42	32.38	8.85	29.74	322	73	P	V
		5864.8	54.55	-53.5	108.05	43.03	32.41	8.86	29.75	322	73	P	V
		5875.8	54.89	-49.72	104.61	43.34	32.43	8.87	29.75	322	73	P	V
		5930	52.17	-16.03	68.2	40.52	32.5	8.92	29.77	322	73	P	V
													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	56.58	-17.42	74	60.22	39.92	12.74	56.3	103	358	P	H
		11490	47.01	-6.99	54	50.65	39.92	12.74	56.3	103	358	A	H
		17235	48.94	-19.26	68.2	49.56	40.84	15.11	56.57	100	0	P	H
													H
		11490	50	-24	74	53.64	39.92	12.74	56.3	100	0	P	V
		17235	49.51	-18.69	68.2	50.13	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	60.69	-13.31	74	64.45	39.76	12.78	56.3	100	349	P	H
		11570	50.5	-3.5	54	54.26	39.76	12.78	56.3	100	349	A	H
		17355	49.94	-18.26	68.2	50.34	41.26	15.15	56.81	100	0	P	H
													H
		11570	57.22	-16.78	74	60.98	39.76	12.78	56.3	106	334	P	V
		11570	46.82	-7.18	54	50.58	39.76	12.78	56.3	106	334	A	V
		17355	50.63	-17.57	68.2	51.03	41.26	15.15	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	56.69	-17.31	74	60.55	39.62	12.82	56.3	100	360	P	H
		11650	47.8	-6.2	54	51.66	39.62	12.82	56.3	100	360	A	H
		17475	49.76	-18.44	68.2	49.93	41.68	15.2	57.05	100	0	P	H
													H
		11650	50.1	-23.9	74	53.96	39.62	12.82	56.3	100	0	P	V
		17475	50.86	-17.34	68.2	51.03	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		5614.6	53.55	-14.65	68.2	42.3	32.04	8.85	29.64	100	33	P	H
		5696.8	61.77	-41.07	102.84	50.44	32.17	8.83	29.67	100	33	P	H
		5713	64.53	-44.31	108.84	53.2	32.19	8.82	29.68	100	33	P	H
		5723	65.29	-52.35	117.64	53.94	32.21	8.82	29.68	100	33	P	H
	*	5745	114.03	-	-	102.67	32.24	8.81	29.69	100	33	P	H
	*	5745	106.32	-	-	94.96	32.24	8.81	29.69	100	33	A	H
													H
													H
		5611.4	52.29	-15.91	68.2	41.04	32.04	8.85	29.64	329	75	P	V
		5694.8	53.31	-48.06	101.37	41.98	32.17	8.83	29.67	329	75	P	V
		5714.8	59.18	-50.17	109.35	47.85	32.19	8.82	29.68	329	75	P	V
		5724.8	58.69	-63.05	121.74	47.34	32.21	8.82	29.68	329	75	P	V
	*	5745	111.66	-	-	100.3	32.24	8.81	29.69	329	75	P	V
	*	5745	103.59	-	-	92.23	32.24	8.81	29.69	329	75	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)
802.11n HT20 CH 157 5785MHz		5645	53.75	-14.45	68.2	42.47	32.09	8.84	29.65	100	31	P	H
		5697.6	55.84	-47.59	103.43	44.51	32.17	8.83	29.67	100	31	P	H
		5718.8	58.56	-51.9	110.46	47.21	32.21	8.82	29.68	100	31	P	H
		5724	58.52	-61.4	119.92	47.17	32.21	8.82	29.68	100	31	P	H
	*	5785	114.44	-	-	103.07	32.29	8.8	29.72	100	31	P	H
	*	5785	106.58	-	-	95.21	32.29	8.8	29.72	100	31	A	H
		5850.2	58.75	-62.99	121.74	47.26	32.38	8.85	29.74	100	31	P	H
		5857.2	58.56	-51.62	110.18	47.04	32.41	8.85	29.74	100	31	P	H
		5890.8	54.32	-39.15	93.47	42.74	32.46	8.88	29.76	100	31	P	H
		5936.8	53.56	-14.64	68.2	41.92	32.5	8.92	29.78	100	31	P	H
													H
													H
		5607.6	52.49	-15.71	68.2	41.24	32.04	8.85	29.64	325	75	P	V
		5689.6	52.03	-45.5	97.53	40.7	32.17	8.83	29.67	325	75	P	V
		5716.2	53.45	-56.29	109.74	42.12	32.19	8.82	29.68	325	75	P	V
		5725	55.97	-66.23	122.2	44.62	32.21	8.82	29.68	325	75	P	V
	*	5785	111.63	-	-	100.26	32.29	8.8	29.72	325	75	P	V
	*	5785	104.01	-	-	92.64	32.29	8.8	29.72	325	75	A	V
		5852	57.98	-59.66	117.64	46.49	32.38	8.85	29.74	325	75	P	V
		5872	55.36	-50.68	106.04	43.82	32.43	8.86	29.75	325	75	P	V
		5894.2	53.74	-37.21	90.95	42.16	32.46	8.88	29.76	325	75	P	V
		5934.6	53.01	-15.19	68.2	41.37	32.5	8.92	29.78	325	75	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)
802.11n HT20 CH 165 5825MHz	*	5825	114.8	-	-	103.35	32.36	8.82	29.73	100	31	P	H
	*	5825	106.86	-	-	95.41	32.36	8.82	29.73	100	31	A	H
		5855	65.8	-45	110.8	54.28	32.41	8.85	29.74	100	31	P	H
		5855	65.8	-45	110.8	54.28	32.41	8.85	29.74	100	31	P	H
		5879.6	62.73	-39.05	101.78	51.18	32.43	8.87	29.75	100	31	P	H
		5938	54.36	-13.84	68.2	42.72	32.5	8.92	29.78	100	31	P	H
													H
													H
	*	5825	111.68	-	-	100.23	32.36	8.82	29.73	317	73	P	V
	*	5825	103.44	-	-	91.99	32.36	8.82	29.73	317	73	A	V
		5851.4	63.62	-55.39	119.01	52.13	32.38	8.85	29.74	317	73	P	V
		5859	63.23	-46.45	109.68	51.72	32.41	8.85	29.75	317	73	P	V
		5876	61.23	-43.23	104.46	49.68	32.43	8.87	29.75	317	73	P	V
		5925.6	53.59	-14.61	68.2	41.95	32.5	8.91	29.77	317	73	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 802.11n HT20 (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)
802.11n HT20 CH 149 5745MHz		11490	55.69	-18.31	74	59.33	39.92	12.74	56.3	106	2	P	H
		11490	46.59	-7.41	54	50.23	39.92	12.74	56.3	106	2	A	H
		17235	48.83	-19.37	68.2	49.45	40.84	15.11	56.57	100	0	P	H
													H
		11490	53.42	-20.58	74	57.06	39.92	12.74	56.3	206	4	P	V
		11490	43.87	-10.13	54	47.51	39.92	12.74	56.3	206	4	A	V
		17235	48.42	-19.78	68.2	49.04	40.84	15.11	56.57	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	60.36	-13.64	74	64.12	39.76	12.78	56.3	100	345	P	H
		11570	50.35	-3.65	54	54.11	39.76	12.78	56.3	100	345	A	H
		17355	50.09	-18.11	68.2	50.49	41.26	15.15	56.81	100	0	P	H
													H
		11570	56.44	-17.56	74	60.2	39.76	12.78	56.3	140	332	P	V
		11570	46.88	-7.12	54	50.64	39.76	12.78	56.3	140	332	A	V
		17355	48.98	-19.22	68.2	49.38	41.26	15.15	56.81	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	58.52	-15.48	74	62.38	39.62	12.82	56.3	102	357	P	H
		11650	47.06	-6.94	54	50.92	39.62	12.82	56.3	102	357	A	H
		17475	49.74	-18.46	68.2	49.91	41.68	15.2	57.05	100	0	P	H
													H
		11650	50.18	-23.82	74	54.04	39.62	12.82	56.3	100	0	P	V
		17475	50.12	-18.08	68.2	50.29	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		5605	51.92	-16.28	68.2	40.67	32.04	8.85	29.64	114	31	P	H
		5695	58.14	-43.37	101.51	46.81	32.17	8.83	29.67	114	31	P	H
		5719.4	61	-49.63	110.63	49.65	32.21	8.82	29.68	114	31	P	H
		5724	61.65	-58.27	119.92	50.3	32.21	8.82	29.68	114	31	P	H
	*	5755	111.25	-	-	99.87	32.26	8.81	29.69	114	31	P	H
	*	5755	104.04	-	-	92.66	32.26	8.81	29.69	114	31	A	H
		5854.2	52.1	-60.52	112.62	40.58	32.41	8.85	29.74	114	31	P	H
		5866	52.76	-54.96	107.72	41.24	32.41	8.86	29.75	114	31	P	H
		5906.4	52.65	-29.28	81.93	41.03	32.48	8.9	29.76	114	31	P	H
		5937.6	51.57	-16.63	68.2	39.93	32.5	8.92	29.78	114	31	P	H
													H
													H
		5623.8	51.75	-16.45	68.2	40.48	32.07	8.84	29.64	211	69	P	V
		5659.6	52.68	-22.65	75.33	41.38	32.12	8.84	29.66	211	69	P	V
		5715.8	56.77	-52.86	109.63	45.44	32.19	8.82	29.68	211	69	P	V
		5723	55.14	-62.5	117.64	43.79	32.21	8.82	29.68	211	69	P	V
	*	5755	105.46	-	-	94.08	32.26	8.81	29.69	211	69	P	V
	*	5755	98.78	-	-	87.4	32.26	8.81	29.69	211	69	A	V
		5854.6	50.81	-60.9	111.71	39.29	32.41	8.85	29.74	211	69	P	V
		5860.2	51.66	-57.68	109.34	40.15	32.41	8.85	29.75	211	69	P	V
		5922.4	52.25	-17.87	70.12	40.61	32.5	8.91	29.77	211	69	P	V
		5936.2	51.8	-16.4	68.2	40.16	32.5	8.92	29.78	211	69	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)
802.11n HT40 CH 159 5795MHz		5635	52.28	-15.92	68.2	41	32.09	8.84	29.65	103	34	P	H
		5693	52.54	-47.5	100.04	41.21	32.17	8.83	29.67	103	34	P	H
		5720	55.53	-55.27	110.8	44.18	32.21	8.82	29.68	103	34	P	H
		5724	54.5	-65.42	119.92	43.15	32.21	8.82	29.68	103	34	P	H
	*	5795	110.18	-	-	98.79	32.31	8.8	29.72	103	34	P	H
	*	5795	102.96	-	-	91.57	32.31	8.8	29.72	103	34	A	H
		5850.2	52.51	-69.23	121.74	41.02	32.38	8.85	29.74	103	34	P	H
		5855.4	56.92	-53.77	110.69	45.4	32.41	8.85	29.74	103	34	P	H
		5881	54.42	-46.32	100.74	42.87	32.43	8.87	29.75	103	34	P	H
		5937.6	52.39	-15.81	68.2	40.75	32.5	8.92	29.78	103	34	P	H
													H
													H
		5606	52.81	-15.39	68.2	41.56	32.04	8.85	29.64	204	68	P	V
		5699.2	52.36	-52.25	104.61	41.03	32.17	8.83	29.67	204	68	P	V
		5719.6	51.55	-59.14	110.69	40.2	32.21	8.82	29.68	204	68	P	V
		5723.4	51.49	-67.06	118.55	40.14	32.21	8.82	29.68	204	68	P	V
	*	5795	105.39	-	-	94	32.31	8.8	29.72	204	68	P	V
	*	5795	98.96	-	-	87.57	32.31	8.8	29.72	204	68	A	V
		5854.6	52.67	-59.04	111.71	41.15	32.41	8.85	29.74	204	68	P	V
		5856.2	52.74	-57.72	110.46	41.22	32.41	8.85	29.74	204	68	P	V
		5879.4	52.55	-49.38	101.93	41	32.43	8.87	29.75	204	68	P	V
		5948.8	51.06	-17.14	68.2	39.38	32.53	8.93	29.78	204	68	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 802.11n HT40 (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)
802.11n HT40 CH 151 5755MHz		11510	50.58	-23.42	74	54.23	39.9	12.75	56.3	100	0	P	H
		17265	48.71	-19.49	68.2	49.26	40.96	15.12	56.63	100	0	P	H
													H
													H
		11510	49.15	-24.85	74	52.8	39.9	12.75	56.3	100	0	P	V
		17265	48.65	-19.55	68.2	49.2	40.96	15.12	56.63	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	49.68	-24.32	74	53.46	39.73	12.79	56.3	100	0	P	H
		17385	50.46	-17.74	68.2	50.78	41.38	15.17	56.87	100	0	P	H
													H
													H
		11590	48.05	-25.95	74	51.83	39.73	12.79	56.3	100	0	P	V
		17385	49.51	-18.69	68.2	49.83	41.38	15.17	56.87	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5644.2	52.49	-15.71	68.2	41.21	32.09	8.84	29.65	235	31	P	H
		5684.4	62.73	-30.96	93.69	51.4	32.17	8.83	29.67	235	31	P	H
		5704.6	66.04	-40.45	106.49	54.7	32.19	8.82	29.67	235	31	P	H
		5724.2	65.59	-54.79	120.38	54.24	32.21	8.82	29.68	235	31	P	H
	*	5775	109.03	-	-	97.64	32.29	8.81	29.71	235	31	P	H
	*	5775	102.05	-	-	90.66	32.29	8.81	29.71	235	31	A	H
		5853	65.8	-49.56	115.36	54.31	32.38	8.85	29.74	235	31	P	H
		5862.6	67.03	-41.64	108.67	55.51	32.41	8.86	29.75	235	31	P	H
		5881.4	60.62	-39.83	100.45	49.07	32.43	8.87	29.75	235	31	P	H
		5926.8	52.68	-15.52	68.2	41.04	32.5	8.91	29.77	235	31	P	H
													H
													H
		5636	52.99	-15.21	68.2	41.71	32.09	8.84	29.65	308	76	P	V
		5699.6	60.63	-44.28	104.91	49.3	32.17	8.83	29.67	308	76	P	V
		5716.8	60.85	-49.06	109.91	49.52	32.19	8.82	29.68	308	76	P	V
		5721.2	60.94	-52.6	113.54	49.59	32.21	8.82	29.68	308	76	P	V
	*	5775	105.49	-	-	94.1	32.29	8.81	29.71	308	76	P	V
	*	5775	98.14	-	-	86.75	32.29	8.81	29.71	308	76	A	V
		5854.8	63.16	-48.1	111.26	51.64	32.41	8.85	29.74	308	76	P	V
		5855.6	64.92	-45.71	110.63	53.4	32.41	8.85	29.74	308	76	P	V
		5876.2	59.07	-45.24	104.31	47.52	32.43	8.87	29.75	308	76	P	V
		5936.2	52.07	-16.13	68.2	40.43	32.5	8.92	29.78	308	76	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)
802.11ac VHT80 CH 155 5775MHz		11550	47.73	-26.27	74	51.46	39.8	12.77	56.3	100	0	P	H
		17325	48.56	-19.64	68.2	49.03	41.14	15.14	56.75	100	0	P	H
													H
													H
		11550	47.02	-26.98	74	50.75	39.8	12.77	56.3	100	0	P	V
		17325	48.53	-19.67	68.2	49	41.14	15.14	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		132.6	28.63	-14.87	43.5	42.01	17.38	1.43	32.19	-	-	P	H
		207.93	27.9	-15.6	43.5	43.18	15.1	1.76	32.14	-	-	P	H
		292.71	34.29	-11.71	46	45.38	18.98	2.08	32.15	-	-	P	H
		306.3	30	-16	46	40.81	19.22	2.12	32.15	-	-	P	H
		760.6	30.78	-15.22	46	31.51	27.98	3.26	31.97	-	-	P	H
		885.9	39.26	-6.74	46	38.13	29.07	3.54	31.48	100	0	P	H
													H
													H
													H
													H
													H
													H
		39.45	30.26	-9.74	40	42.21	19.5	0.84	32.29	-	-	P	V
		59.97	30.58	-9.42	40	50.11	11.78	0.96	32.27	100	0	P	V
		115.59	28.1	-15.4	43.5	41.88	17.04	1.38	32.2	-	-	P	V
		749.4	30.91	-15.09	46	31.74	27.93	3.23	31.99	-	-	P	V
		825.7	31.53	-14.47	46	31.42	28.42	3.46	31.77	-	-	P	V
		925.1	33.16	-12.84	46	31.15	29.58	3.63	31.2	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 149 5745MHz		5638.6	51.89	-16.31	68.2	40.61	32.09	8.84	29.65	204	53	P	H
		5697.4	53.77	-49.51	103.28	42.44	32.17	8.83	29.67	204	53	P	H
		5713.6	57.72	-51.29	109.01	46.39	32.19	8.82	29.68	204	53	P	H
		5723.8	51.79	-67.67	119.46	40.44	32.21	8.82	29.68	204	53	P	H
	*	5745	104.64	-	-	93.28	32.24	8.81	29.69	204	53	P	H
	*	5745	90.47	-	-	79.11	32.24	8.81	29.69	204	53	A	H
													H
													H
		5606.6	51.57	-16.63	68.2	40.32	32.04	8.85	29.64	312	25	P	V
		5688.8	57.58	-39.36	96.94	46.25	32.17	8.83	29.67	312	25	P	V
		5703.6	59.96	-46.25	106.21	48.62	32.19	8.82	29.67	312	25	P	V
		5724.8	57.57	-64.17	121.74	46.22	32.21	8.82	29.68	312	25	P	V
	*	5745	110.36	-	-	99	32.24	8.81	29.69	312	25	P	V
	*	5745	96.93	-	-	85.57	32.24	8.81	29.69	312	25	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)
802.11ac VHT20 CH 157 5785MHz		5645.4	51.75	-16.45	68.2	40.47	32.09	8.84	29.65	211	53	P	H
		5697	51.06	-51.93	102.99	39.73	32.17	8.83	29.67	211	53	P	H
		5709	50.6	-57.12	107.72	39.27	32.19	8.82	29.68	211	53	P	H
		5723.4	50.44	-68.11	118.55	39.09	32.21	8.82	29.68	211	53	P	H
	*	5785	104	-	-	92.63	32.29	8.8	29.72	211	53	P	H
	*	5785	88.75	-	-	77.38	32.29	8.8	29.72	211	53	A	H
		5852.4	52.08	-64.65	116.73	40.59	32.38	8.85	29.74	211	53	P	H
		5874.2	51.48	-53.94	105.42	39.93	32.43	8.87	29.75	211	53	P	H
		5891.8	52.89	-39.84	92.73	41.31	32.46	8.88	29.76	211	53	P	H
		5927.8	52.41	-15.79	68.2	40.76	32.5	8.92	29.77	211	53	P	H
													H
													H
		5631.4	51.83	-16.37	68.2	40.57	32.07	8.84	29.65	310	25	P	V
		5668.8	51.08	-31.07	82.15	39.77	32.14	8.83	29.66	310	25	P	V
		5711	51.57	-56.71	108.28	40.24	32.19	8.82	29.68	310	25	P	V
		5722.8	54.63	-62.55	117.18	43.28	32.21	8.82	29.68	310	25	P	V
	*	5785	111.95	-	-	100.58	32.29	8.8	29.72	310	25	P	V
	*	5785	97.44	-	-	86.07	32.29	8.8	29.72	310	25	A	V
		5850.2	51.73	-70.01	121.74	40.24	32.38	8.85	29.74	310	25	P	V
		5863	52.82	-55.74	108.56	41.3	32.41	8.86	29.75	310	25	P	V
		5899.6	52.36	-34.6	86.96	40.77	32.46	8.89	29.76	310	25	P	V
		5932.8	51.03	-17.17	68.2	39.38	32.5	8.92	29.77	310	25	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)
802.11ac VHT20 CH 165 5825MHz	*	5825	102.7	-	-	91.25	32.36	8.82	29.73	199	53	P	H
	*	5825	88.07	-	-	76.62	32.36	8.82	29.73	199	53	A	H
		5851.4	50.67	-68.34	119.01	39.18	32.38	8.85	29.74	199	53	P	H
		5862.4	51.92	-56.81	108.73	40.4	32.41	8.86	29.75	199	53	P	H
		5921.6	52.07	-18.64	70.71	40.43	32.5	8.91	29.77	199	53	P	H
		5926.8	51.6	-16.6	68.2	39.96	32.5	8.91	29.77	199	53	P	H
													H
													H
	*	5825	110.99	-	-	99.54	32.36	8.82	29.73	293	24	P	V
	*	5825	97.82	-	-	86.37	32.36	8.82	29.73	293	24	A	V
		5854.4	52.85	-59.32	112.17	41.33	32.41	8.85	29.74	293	24	P	V
		5857	54.8	-55.44	110.24	43.28	32.41	8.85	29.74	293	24	P	V
		5892	55.08	-37.5	92.58	43.5	32.46	8.88	29.76	293	24	P	V
		5938	51.76	-16.44	68.2	40.12	32.5	8.92	29.78	293	24	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)
802.11ac VHT20 CH 149 5745MHz		11490	46.1	-27.9	74	49.74	39.92	12.74	56.3	100	0	P	H
		17235	48.53	-19.67	68.2	49.15	40.84	15.11	56.57	100	0	P	H
													H
													H
		11490	48.57	-25.43	74	52.21	39.92	12.74	56.3	100	0	P	V
		17235	48.71	-19.49	68.2	49.33	40.84	15.11	56.57	100	0	P	V
													V
													V
802.11ac VHT20 CH 157 5785MHz		11570	59.73	-14.27	74	63.49	39.76	12.78	56.3	202	356	P	H
		11570	44.15	-9.85	54	47.91	39.76	12.78	56.3	202	356	A	H
		17355	48.35	-19.85	68.2	48.75	41.26	15.15	56.81	100	0	P	H
													H
		11570	59.45	-14.55	74	63.21	39.76	12.78	56.3	296	55	P	V
		11570	44.62	-9.38	54	48.38	39.76	12.78	56.3	296	55	A	V
		17355	48.76	-19.44	68.2	49.16	41.26	15.15	56.81	100	0	P	V
													V
802.11ac VHT20 CH 165 5825MHz		11650	45.54	-28.46	74	49.4	39.62	12.82	56.3	100	0	P	H
		17475	48.99	-19.21	68.2	49.16	41.68	15.2	57.05	100	0	P	H
													H
													H
		11650	46.08	-27.92	74	49.94	39.62	12.82	56.3	100	0	P	V
		17475	49.38	-18.82	68.2	49.55	41.68	15.2	57.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5639	52.69	-15.51	68.2	41.41	32.09	8.84	29.65	326	304	P	H
		5693.2	54.16	-46.03	100.19	42.83	32.17	8.83	29.67	326	304	P	H
		5718	58.56	-51.68	110.24	47.21	32.21	8.82	29.68	326	304	P	H
		5724	62.35	-57.57	119.92	51	32.21	8.82	29.68	326	304	P	H
	*	5755	107.03	-	-	95.65	32.26	8.81	29.69	326	304	P	H
	*	5755	98.1	-	-	86.72	32.26	8.81	29.69	326	304	A	H
		5853.8	51.8	-61.74	113.54	40.28	32.41	8.85	29.74	326	304	P	H
		5855.2	51.82	-58.92	110.74	40.3	32.41	8.85	29.74	326	304	P	H
		5908.2	52.54	-28.06	80.6	40.92	32.48	8.9	29.76	326	304	P	H
		5930.8	52.55	-15.65	68.2	40.9	32.5	8.92	29.77	326	304	P	H
													H
													H
		5620.8	53.42	-14.78	68.2	42.15	32.07	8.84	29.64	342	31	P	V
		5697	57.42	-45.57	102.99	46.09	32.17	8.83	29.67	342	31	P	V
		5717	64.13	-45.83	109.96	52.8	32.19	8.82	29.68	342	31	P	V
		5722.4	65.38	-50.89	116.27	54.03	32.21	8.82	29.68	342	31	P	V
	*	5755	111.52	-	-	100.14	32.26	8.81	29.69	342	31	P	V
	*	5755	102.84	-	-	91.46	32.26	8.81	29.69	342	31	A	V
		5851	51.57	-68.35	119.92	40.08	32.38	8.85	29.74	342	31	P	V
		5868.4	52.63	-54.42	107.05	41.11	32.41	8.86	29.75	342	31	P	V
		5902.2	52.76	-32.27	85.03	41.17	32.46	8.89	29.76	342	31	P	V
		5947	52.3	-15.9	68.2	40.62	32.53	8.93	29.78	342	31	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)
802.11ac VHT40 CH 159 5795MHz		5616	51.4	-16.8	68.2	40.12	32.07	8.85	29.64	100	346	P	H
		5671.8	52.3	-32.07	84.37	40.99	32.14	8.83	29.66	100	346	P	H
		5714.8	50.8	-58.55	109.35	39.47	32.19	8.82	29.68	100	346	P	H
		5722.4	49.98	-66.29	116.27	38.63	32.21	8.82	29.68	100	346	P	H
	*	5795	103.85	-	-	92.46	32.31	8.8	29.72	100	346	P	H
	*	5795	93.99	-	-	82.6	32.31	8.8	29.72	100	346	A	H
		5852.8	51.66	-64.16	115.82	40.17	32.38	8.85	29.74	100	346	P	H
		5855.4	52.03	-58.66	110.69	40.51	32.41	8.85	29.74	100	346	P	H
		5884.2	52.11	-46.26	98.37	40.56	32.43	8.88	29.76	100	346	P	H
		5947.8	51.69	-16.51	68.2	40.01	32.53	8.93	29.78	100	346	P	H
													H
													H
		5613	52.82	-15.38	68.2	41.57	32.04	8.85	29.64	325	25	P	V
		5689	52.85	-44.24	97.09	41.52	32.17	8.83	29.67	325	25	P	V
		5718.2	56.65	-53.65	110.3	45.3	32.21	8.82	29.68	325	25	P	V
		5721.2	53.1	-60.44	113.54	41.75	32.21	8.82	29.68	325	25	P	V
	*	5795	109.38	-	-	97.99	32.31	8.8	29.72	325	25	P	V
	*	5795	100.04	-	-	88.65	32.31	8.8	29.72	325	25	A	V
		5852.4	59.32	-57.41	116.73	47.83	32.38	8.85	29.74	325	25	P	V
		5864.2	58.48	-49.74	108.22	46.96	32.41	8.86	29.75	325	25	P	V
		5875.4	56.24	-48.66	104.9	44.69	32.43	8.87	29.75	325	25	P	V
		5944.6	54.24	-13.96	68.2	42.56	32.53	8.93	29.78	325	25	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)
802.11ac VHT40 CH 151 5755MHz		11510	47.28	-26.72	74	50.93	39.9	12.75	56.3	100	0	P	H
		17265	49.03	-19.17	68.2	49.58	40.96	15.12	56.63	100	0	P	H
													H
													H
		11510	46.37	-27.63	74	50.02	39.9	12.75	56.3	100	0	P	V
		17265	49.16	-19.04	68.2	49.71	40.96	15.12	56.63	100	0	P	V
													V
													V
802.11ac VHT40 CH 159 5795MHz		11590	45.26	-28.74	74	49.04	39.73	12.79	56.3	100	0	P	H
		17385	49.86	-18.34	68.2	50.18	41.38	15.17	56.87	100	0	P	H
													H
													H
		11590	45.67	-28.33	74	49.45	39.73	12.79	56.3	100	0	P	V
		17385	50.38	-17.82	68.2	50.7	41.38	15.17	56.87	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5638.4	53.07	-15.13	68.2	41.79	32.09	8.84	29.65	396	64	P	H
		5690.6	55.67	-42.6	98.27	44.34	32.17	8.83	29.67	396	64	P	H
		5712.2	58.47	-50.15	108.62	47.14	32.19	8.82	29.68	396	64	P	H
		5723	59.08	-58.56	117.64	47.73	32.21	8.82	29.68	396	64	P	H
	*	5775	104.73	-	-	93.34	32.29	8.81	29.71	396	64	P	H
	*	5775	95.24	-	-	83.85	32.29	8.81	29.71	396	64	A	H
		5851.8	61.77	-56.33	118.1	50.28	32.38	8.85	29.74	396	64	P	H
		5858.2	60.61	-49.29	109.9	49.1	32.41	8.85	29.75	396	64	P	H
		5877.8	56.82	-46.3	103.12	45.27	32.43	8.87	29.75	396	64	P	H
		5929.2	53.69	-14.51	68.2	42.04	32.5	8.92	29.77	396	64	P	H
													H
													H
		5638	54.45	-13.75	68.2	43.17	32.09	8.84	29.65	306	326	P	V
		5699	63.45	-41.01	104.46	52.12	32.17	8.83	29.67	306	326	P	V
		5718.6	65.25	-45.16	110.41	53.9	32.21	8.82	29.68	306	326	P	V
		5723.6	64.24	-54.77	119.01	52.89	32.21	8.82	29.68	306	326	P	V
	*	5775	107.83	-	-	96.44	32.29	8.81	29.71	306	326	P	V
	*	5775	98.65	-	-	87.26	32.29	8.81	29.71	306	326	A	V
		5850.8	66.8	-53.58	120.38	55.31	32.38	8.85	29.74	306	326	P	V
		5857.8	64.84	-45.17	110.01	53.33	32.41	8.85	29.75	306	326	P	V
		5876	60.71	-43.75	104.46	49.16	32.43	8.87	29.75	306	326	P	V
		5936.6	53.43	-14.77	68.2	41.79	32.5	8.92	29.78	306	326	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)
802.11ac VHT80 CH 155 5775MHz		11550	46.22	-27.78	74	49.95	39.8	12.77	56.3	100	0	P	H
		17325	49.7	-18.5	68.2	50.17	41.14	15.14	56.75	100	0	P	H
													H
													H
		11550	46.1	-27.9	74	49.83	39.8	12.77	56.3	100	0	P	V
		17325	49.12	-19.08	68.2	49.59	41.14	15.14	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT20 LF		45.39	27.21	-12.79	40	42.04	16.56	0.87	32.29	-	-	P	H
		122.34	36.46	-7.04	43.5	49.79	17.47	1.33	32.19	100	0	P	H
		255.18	33.93	-12.07	46	45.06	19.05	1.89	32.15	-	-	P	H
		719.3	32.37	-13.63	46	34.17	27.08	3.07	32.05	-	-	P	H
		799.8	33.71	-12.29	46	34.17	28.02	3.29	31.89	-	-	P	H
		959.4	34.21	-11.79	46	30.56	30.85	3.57	30.91	-	-	P	H
													H
													H
													H
													H
													H
													H
		39.99	36.39	-3.61	40	48.62	19.21	0.84	32.29	100	0	P	V
		44.58	36.12	-3.88	40	50.55	16.96	0.87	32.29	-	-	P	V
		160.68	33.85	-9.65	43.5	47.83	16.63	1.5	32.17	-	-	P	V
		723.5	31.96	-14.04	46	33.58	27.24	3.08	32.04	-	-	P	V
		796.3	33.56	-12.44	46	34.02	28.04	3.28	31.9	-	-	P	V
		997.9	39.05	-14.95	54	35.49	30.42	3.57	30.58	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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 :	Alex Jheng, Fu Chen, and Wilson Wu	Temperature :	24.5~25.3°C
		Relative Humidity :	49~53%

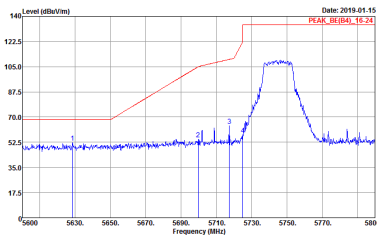
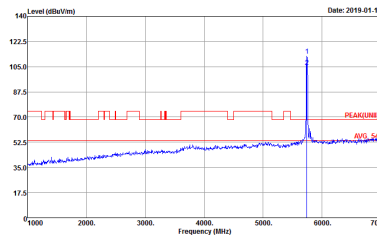
Note symbol

-L	Low channel location
-R	High channel location

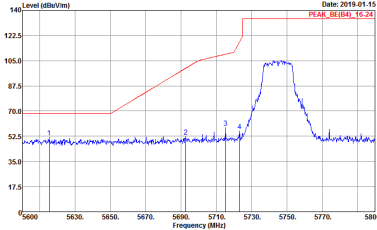
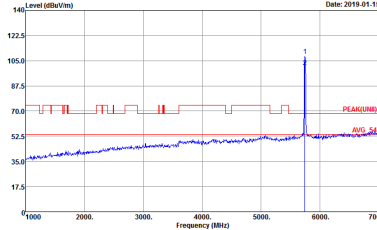


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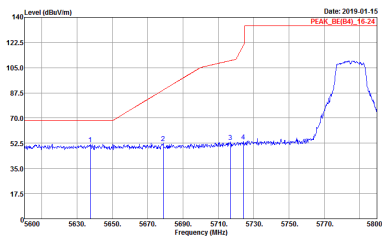
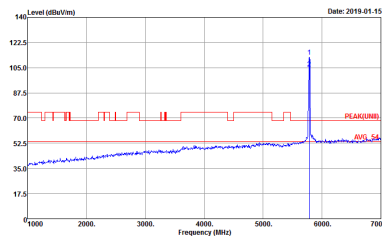
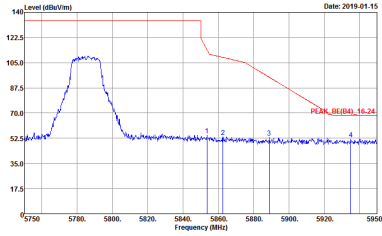
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16

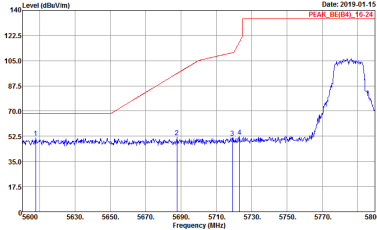
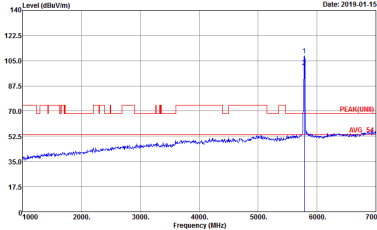
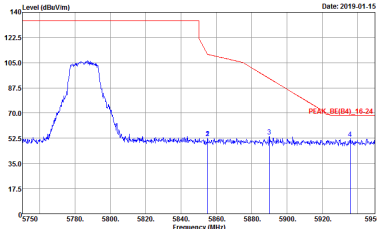


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-11Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16	 Site : 03CH13-11Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16

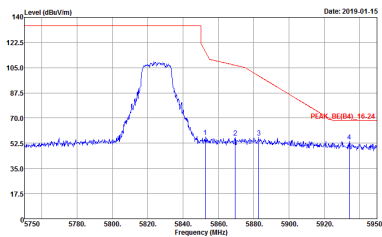
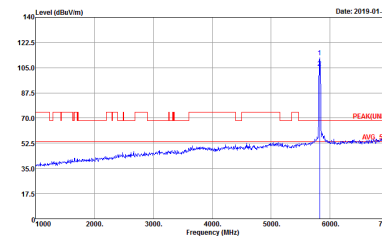


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 12 Power : 16	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 12 Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 12 Power : 16	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0131-01 Mode : 12 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0131-01 Mode : 12 Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0131-01 Mode : 12 Power : 16	Left blank



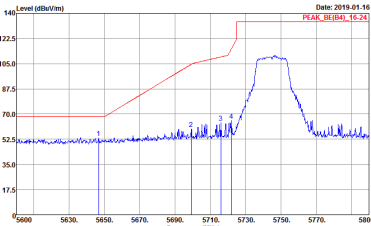
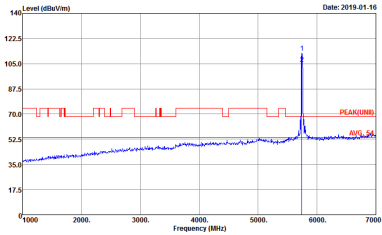
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK(BU4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16	 Site : 03CH13-49Y Condition : PEAK(BU4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16



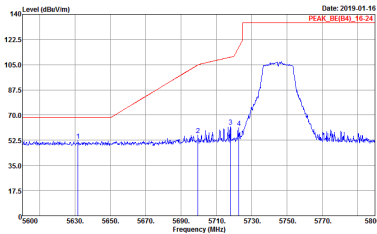
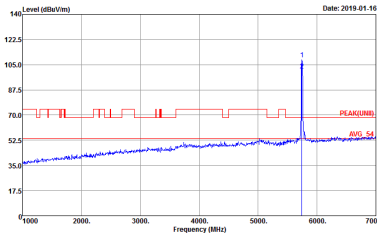
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16	Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16



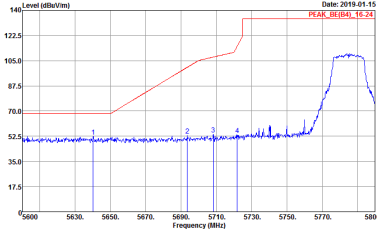
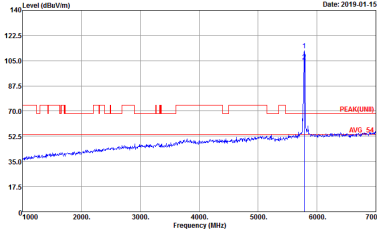
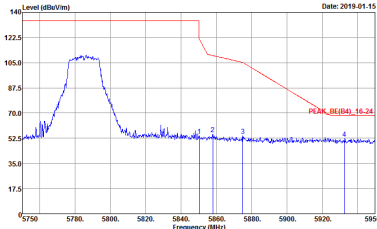
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16

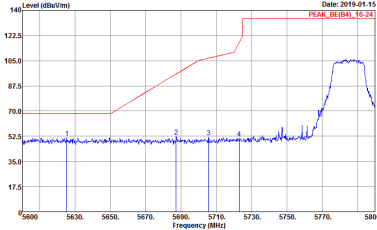
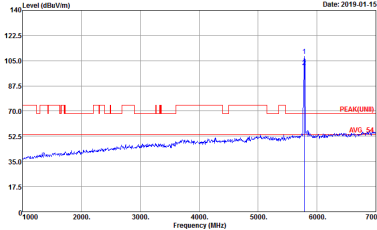
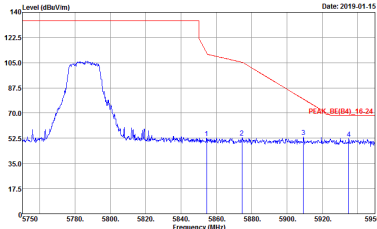


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16	 Site : 03CH13-49Y Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16

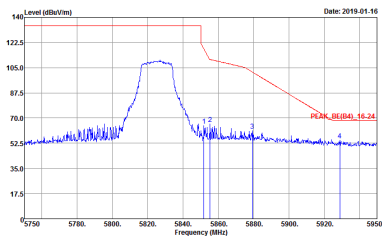
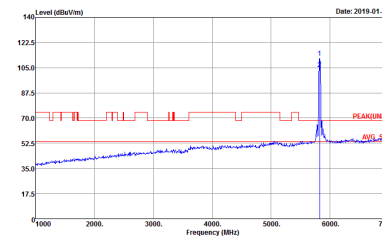


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16	Left blank

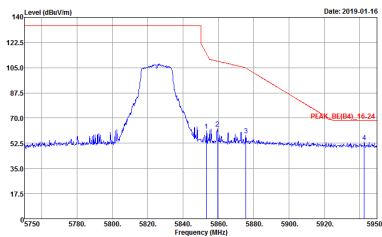
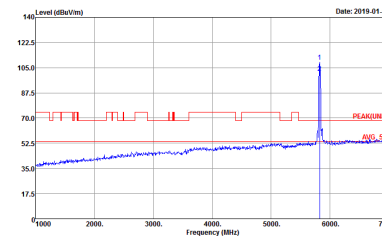


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16	 Site : 03CH13-HY Condition : PEAK(FUND)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 3B Power : 16	Left blank



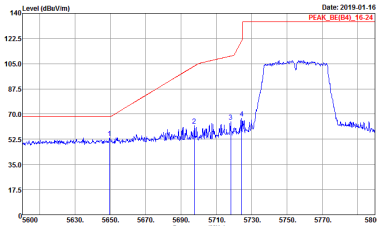
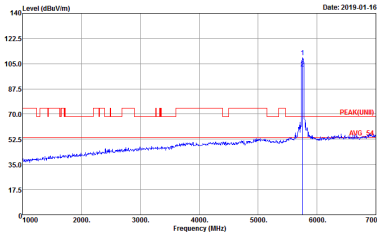
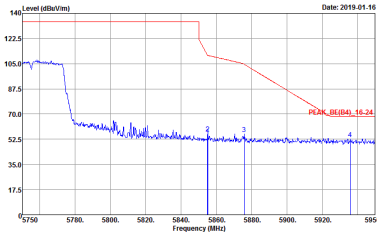
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-11Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16	 Site : 03CH13-11Y Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16



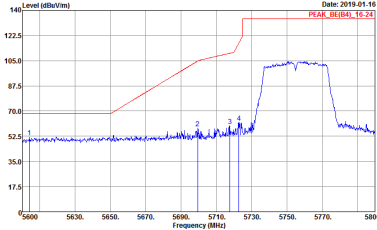
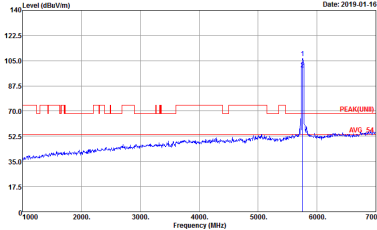
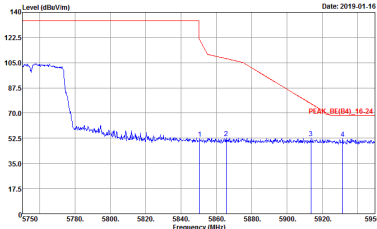
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16	 Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16



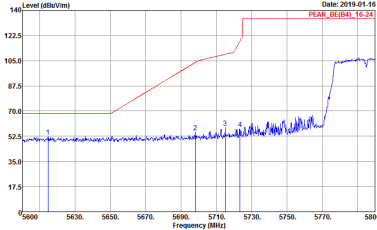
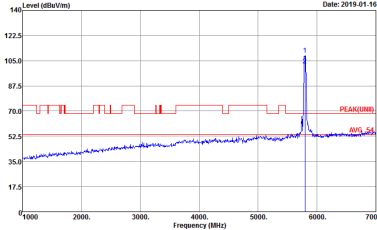
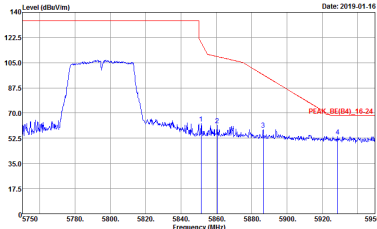
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5	Left blank

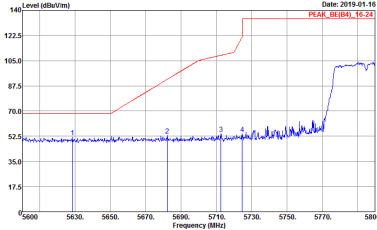
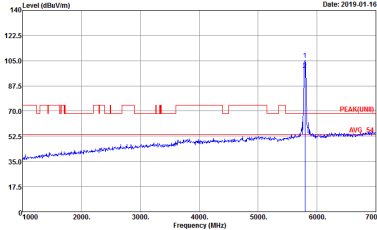
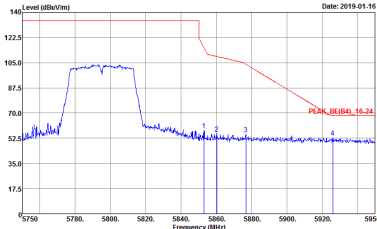


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5	Left blank



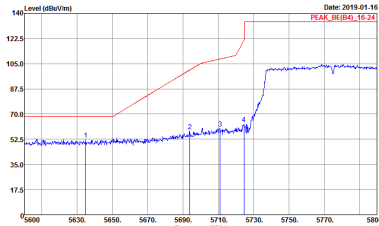
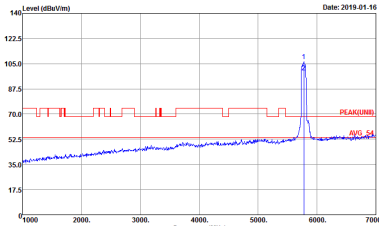
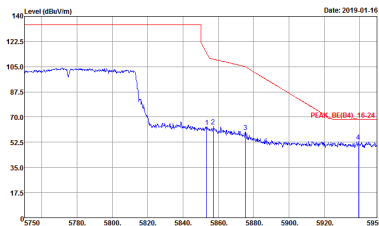
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5	Left blank



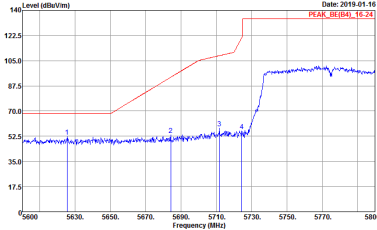
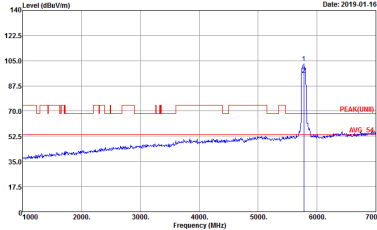
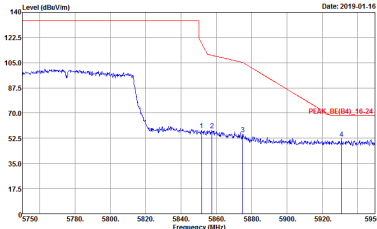
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5	Left blank



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

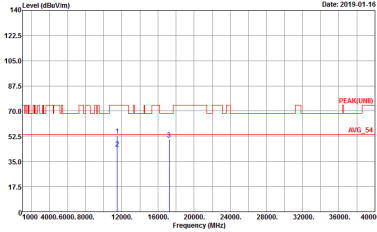
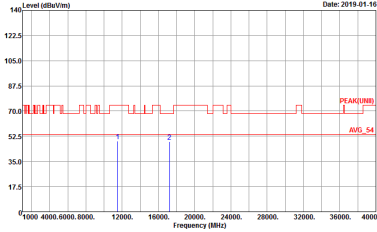
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5	Left blank



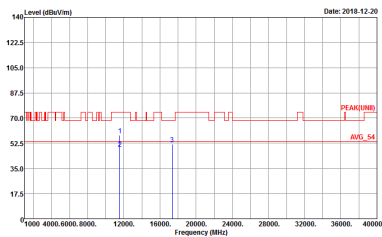
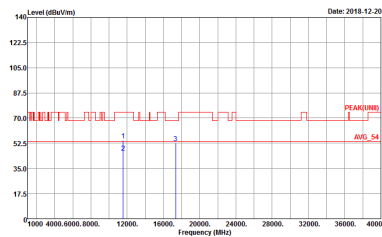
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 11 Power : 16



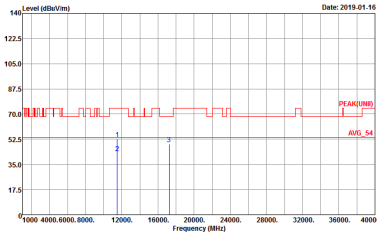
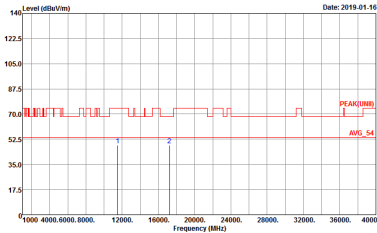
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 12 Power : 22.5	 Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 12 Power : 22.5



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 13 Power : 16



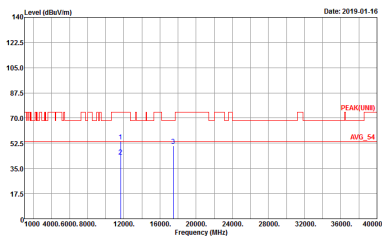
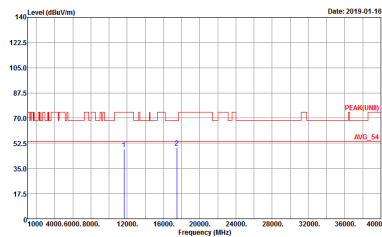
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 37 Power : 16



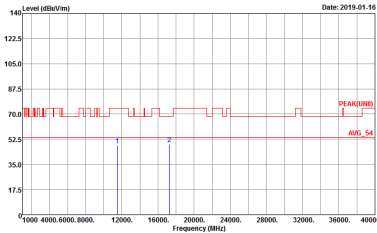
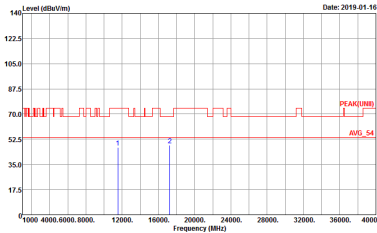
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 38 Power : 16	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 38 Power : 16



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16	 Site : 03CH12-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 39 Power : 16



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

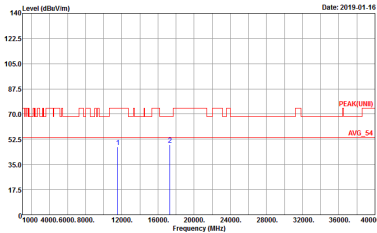
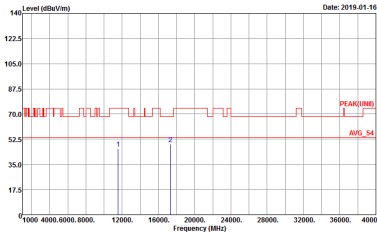
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 40 Power : 15.5



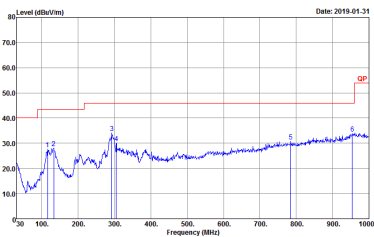
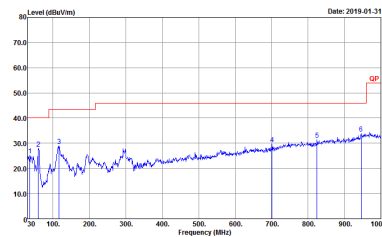
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5	Level (dBuV/m) Date: 2019-01-16 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 41 Power : 15.5



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

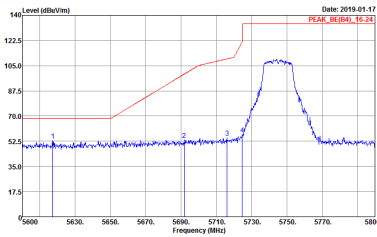
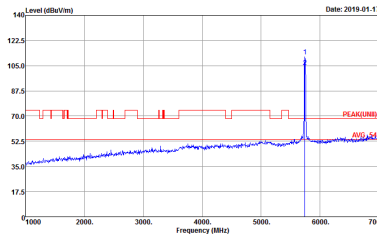
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 42 Power : 15.5

Emission below 1GHz
5GHz WIFI 802.11a (LF)

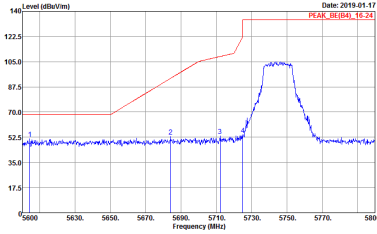
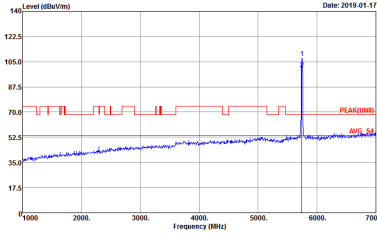
WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BTL06_37059A01 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 157	 Site : 03CH13-HY Condition : QP 3m BTL06_37059A01 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 157



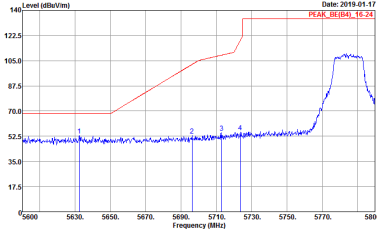
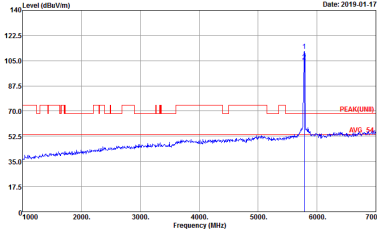
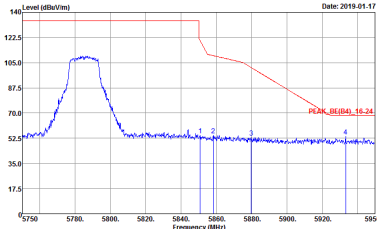
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 53 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 53 Power : 17.5

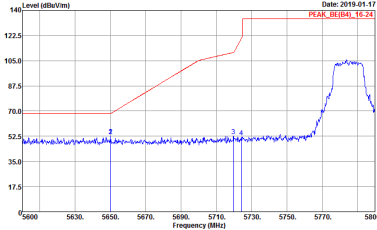
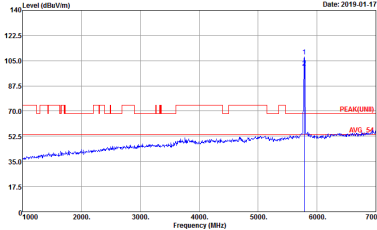
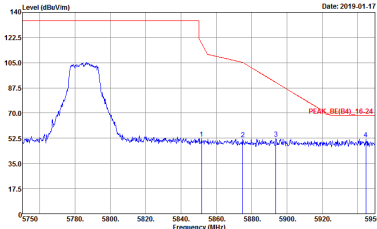


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 53 Power : 17.5	 Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 53 Power : 17.5

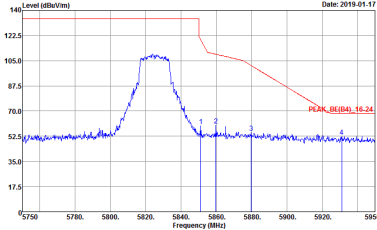
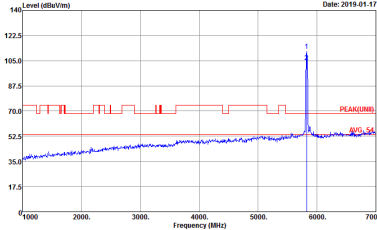


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5
	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 54 Power : 17.5	Left blank



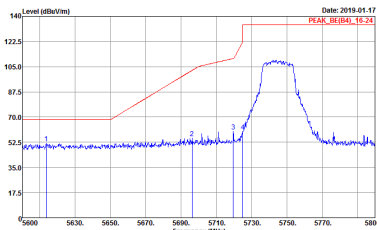
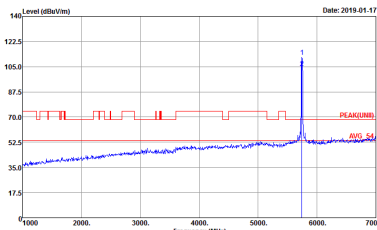
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-11Y Condition : PEAK_8E(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5	 Site : 03CH13-11Y Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	Site : 03CH13-11Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5	Site : 03CH13-11Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5



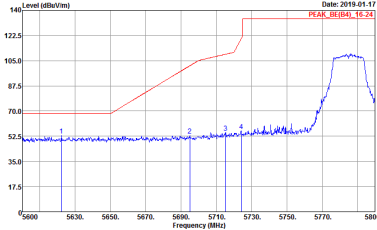
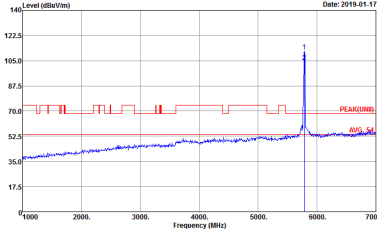
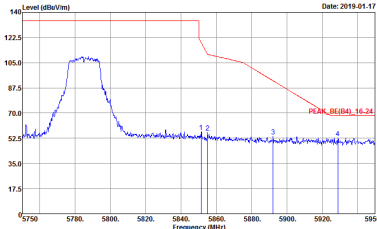
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8N0131-01 Mode : 79 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8N0131-01 Mode : 79 Power : 17.5

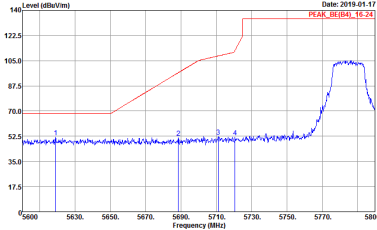
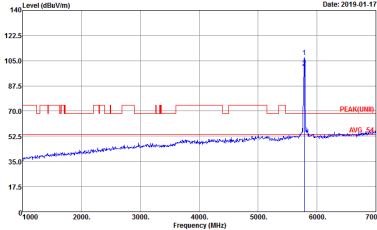
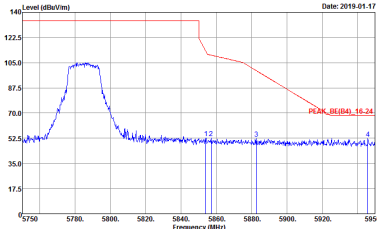


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 79 Power : 17.5	Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 79 Power : 17.5

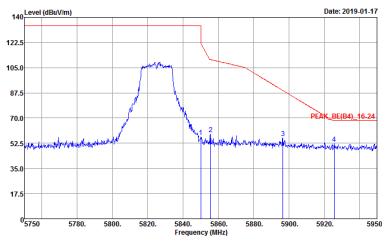
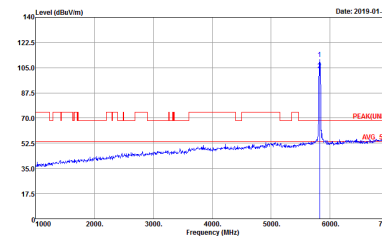


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5	Left blank

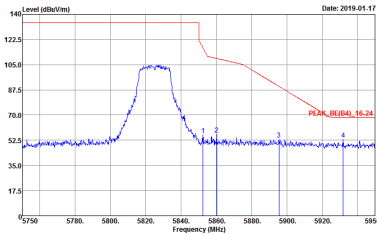
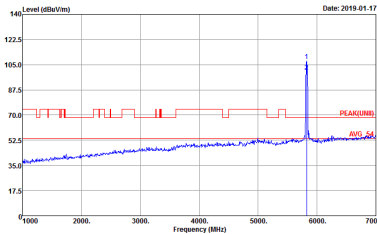


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5	Left blank



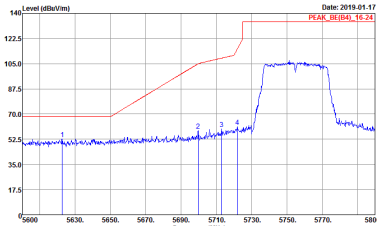
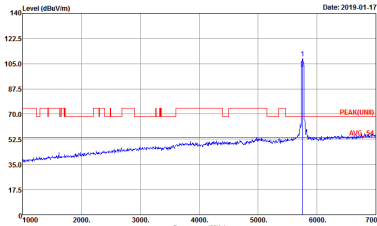
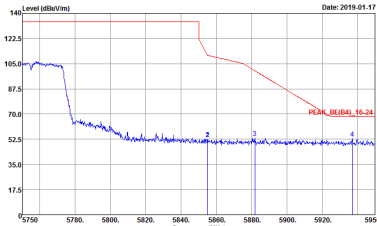
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-11Y Condition : PEAK_802.11n_16.24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B1 Power : 17.5	 Site : 03CH13-11Y Condition : PEAK_802.11n_16.24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B1 Power : 17.5



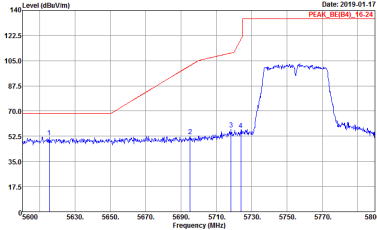
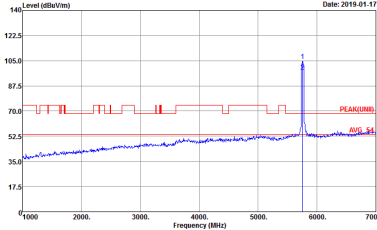
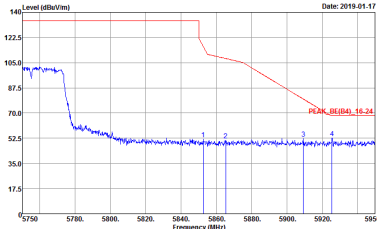
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B1 Power : 17.5	 Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B1 Power : 17.5



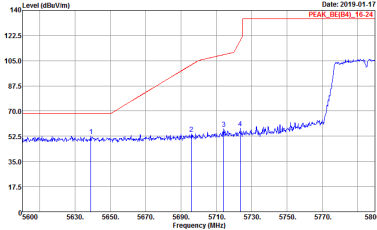
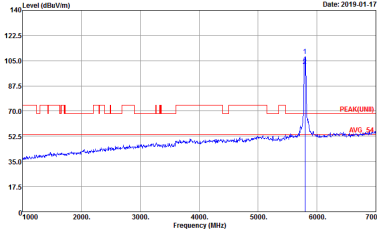
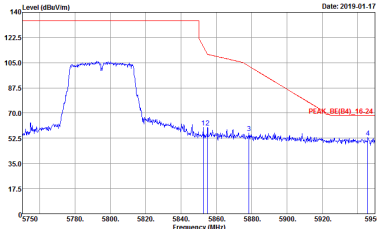
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5	Left blank

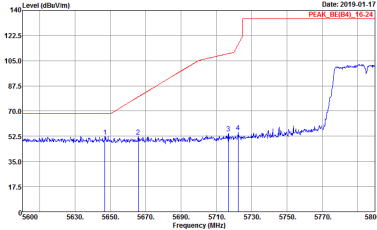
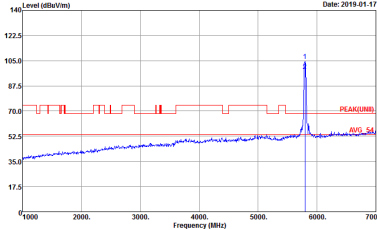
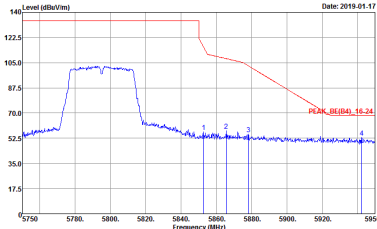


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5
	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17.5	Left blank



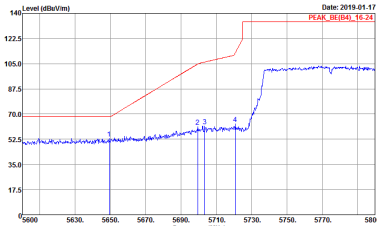
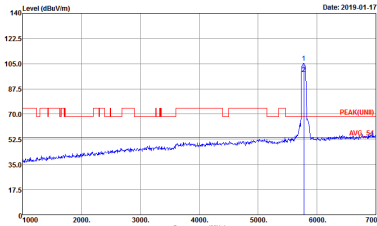
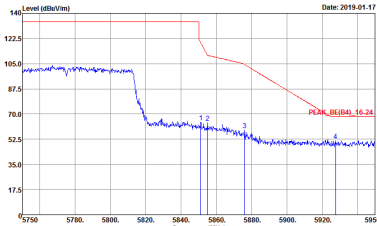
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17	Left blank



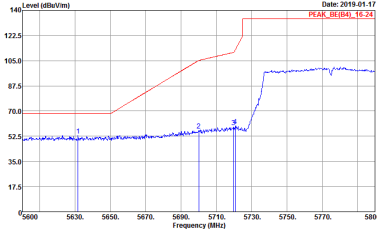
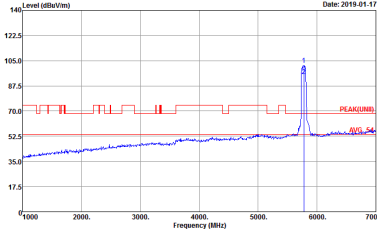
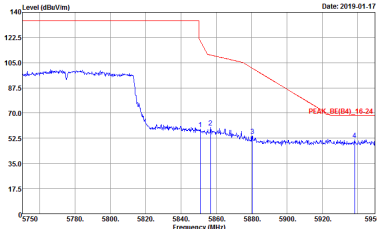
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17	Left blank



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

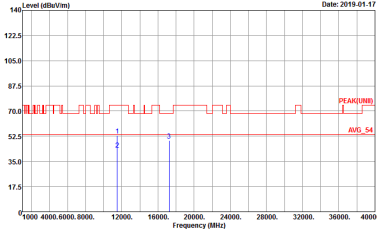
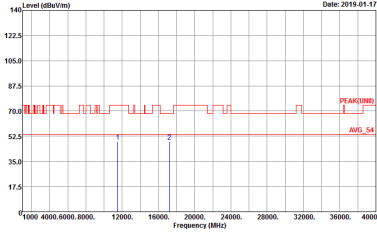
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 84 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 84 Power : 17
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 84 Power : 17	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B4 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B4 Power : 17
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : B4 Power : 17	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.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : S3 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : S3 Power : 17.5



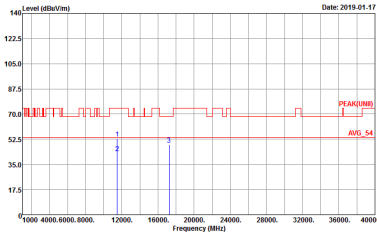
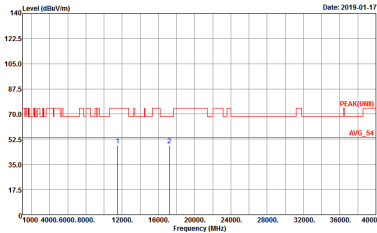
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2018-12-20 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 54 Power : 22	Level (dBuV/m) Date: 2018-12-20 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 54 Power : 22



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-17 Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5	Level (dBuV/m) Date: 2019-01-17 Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 55 Power : 17.5



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 79 Power : 17.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 79 Power : 17.5



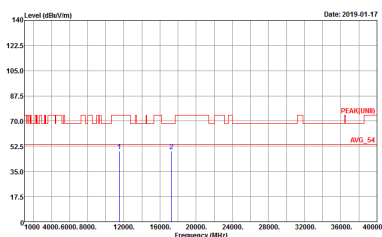
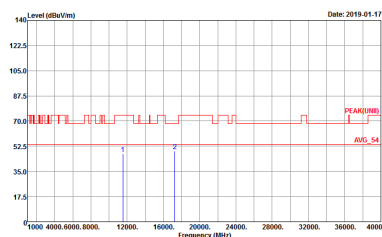
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-17 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5	Level (dBuV/m) Date: 2019-01-17 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 80 Power : 17.5



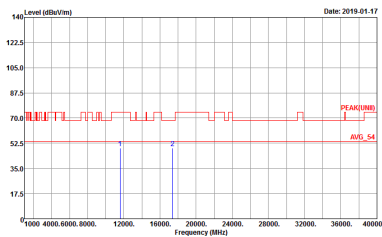
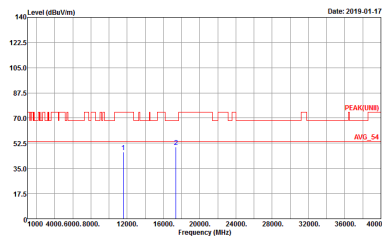
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2019-01-17 PEAK(UWB) Avg. 54 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : S1 Power : 17.5	Level (dBuV/m) Date: 2019-01-17 PEAK(UWB) Avg. 54 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UWB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : S1 Power : 17.5



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

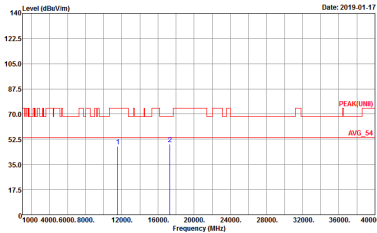
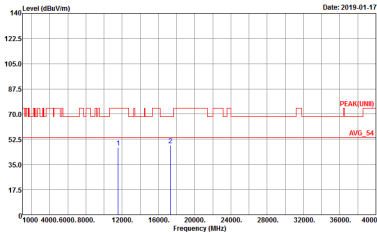
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 82 Power : 17



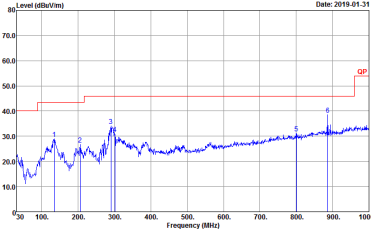
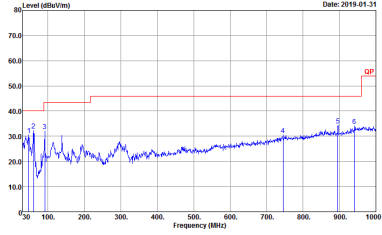
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-11Y Condition : PEAK(UM) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17	 Site : 03CH13-11Y Condition : PEAK(UM) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 83 Power : 17



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

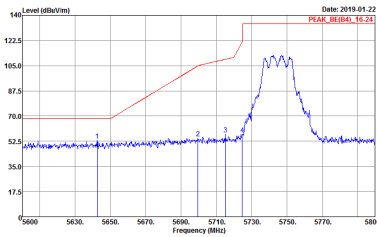
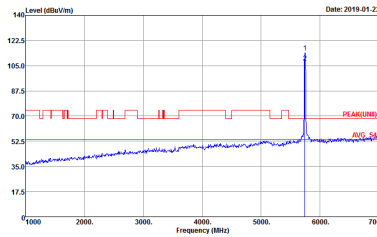
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 84 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 84 Power : 17

Emission below 1GHz
5GHz WIFI 802.11a (LF)

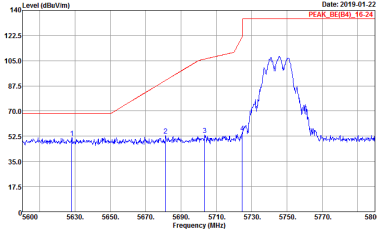
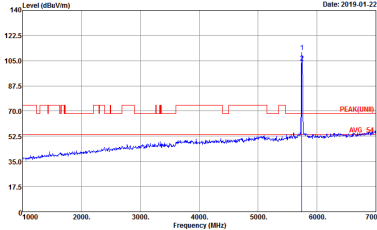
WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BIL06_37059A01 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 159	 Site : 03CH13-HY Condition : QP 3m BIL06_37059A01 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 159



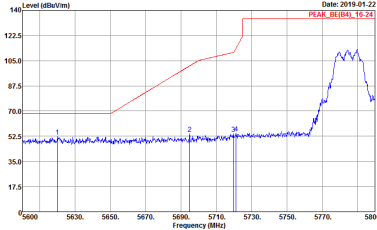
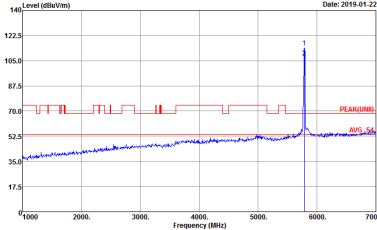
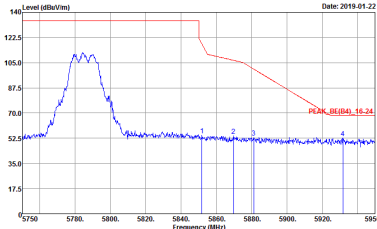
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16

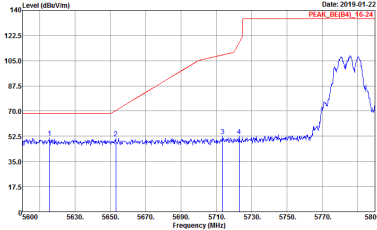
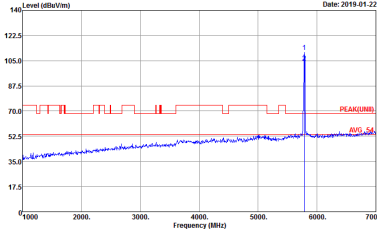
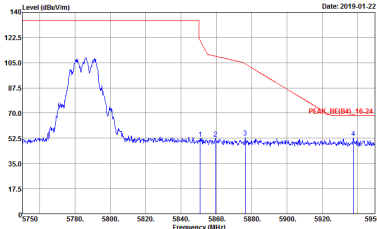


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-14Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16

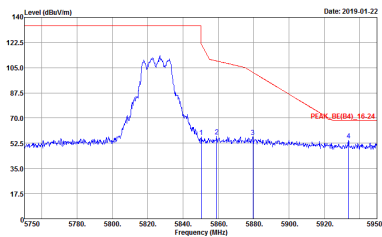
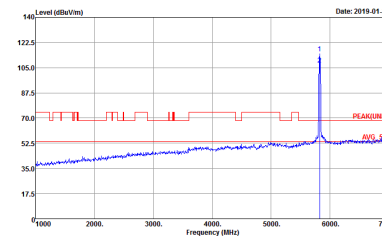


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16	Left blank

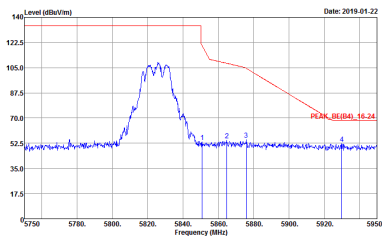
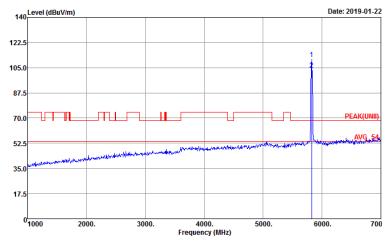


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 14B Power : 16	Left blank



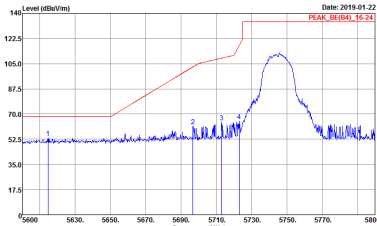
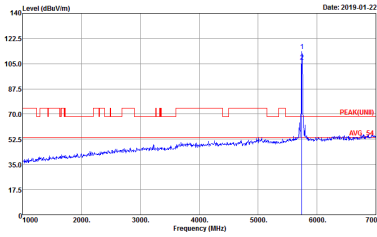
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-14Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 149 Power : 16	 Site : 03CH13-14Y Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 149 Power : 16



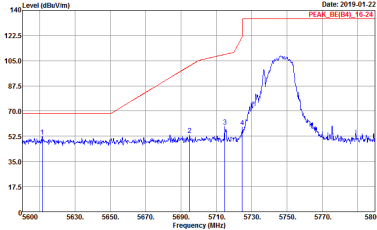
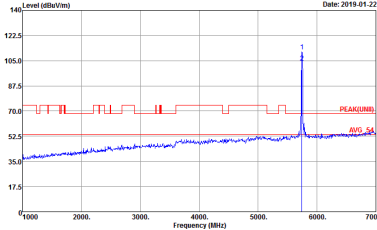
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-14Y Condition : PEAK_B4(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 149 Power : 16	 Site : 03CH13-14Y Condition : PEAK_UNI1 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 149 Power : 16



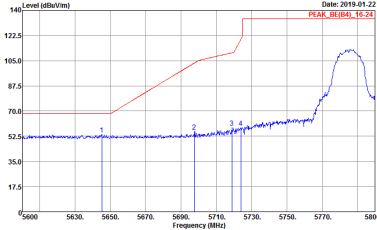
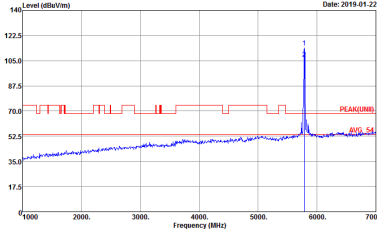
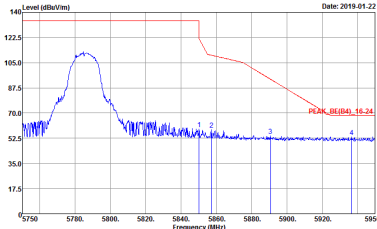
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(84)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 150 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 150 Power : 16

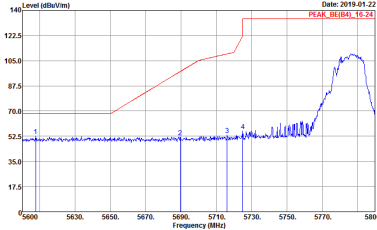
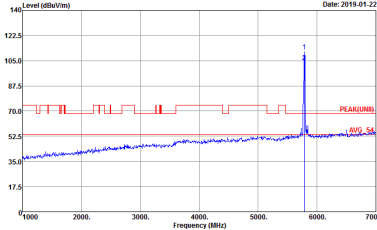
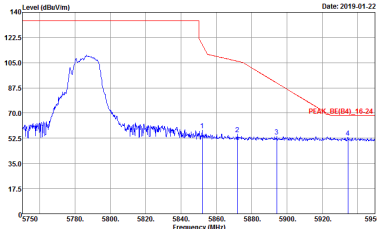


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 150 Power : 16	 Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 150 Power : 16

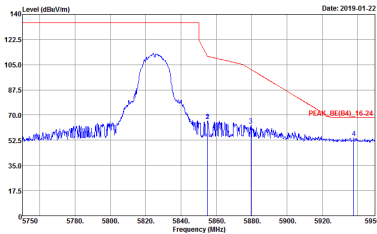
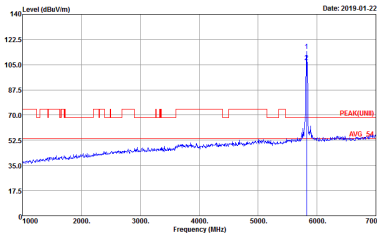


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16	Left blank

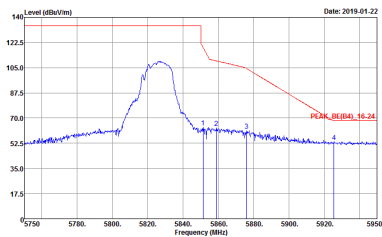
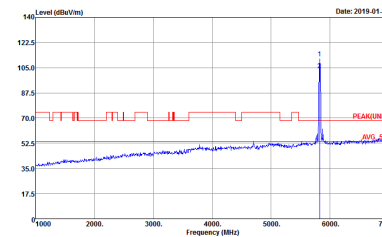


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16
	 Site : 03CH13-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 151 Power : 16	Left blank



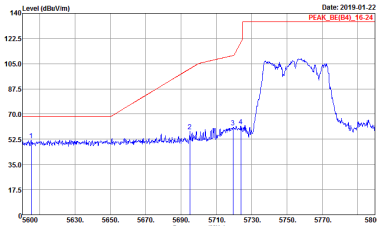
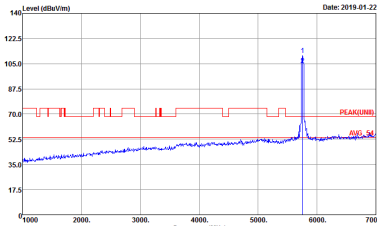
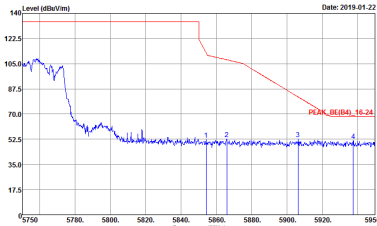
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-11Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 152 Power : 16	 Site : 03CH13-11Y Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 152 Power : 16



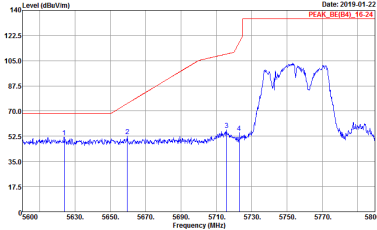
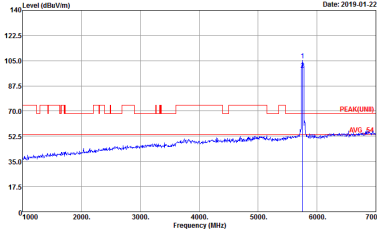
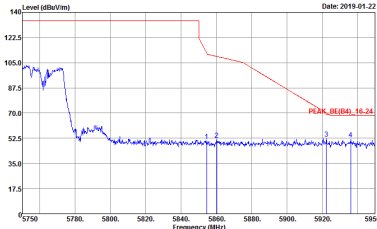
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-49Y Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 152 Power : 16	 Site : 03CH13-49Y Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 152 Power : 16



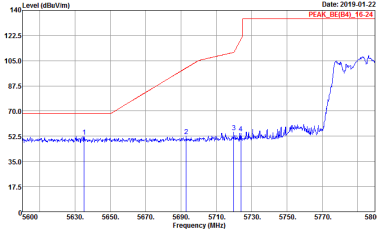
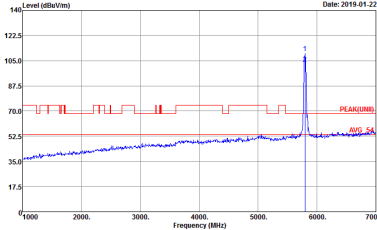
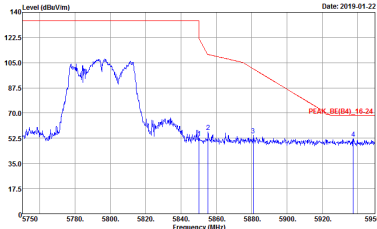
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15	Left blank

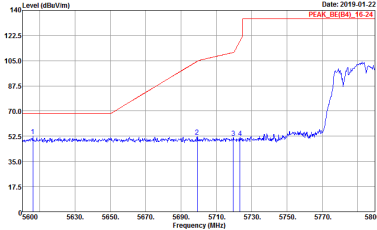
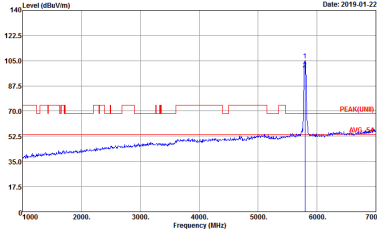
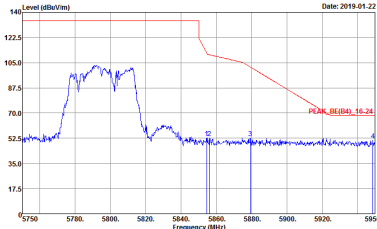


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 153 Power : 15	Left blank



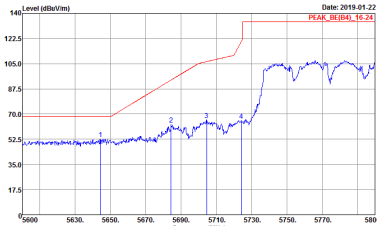
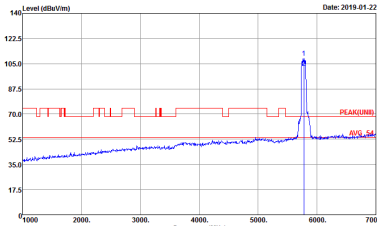
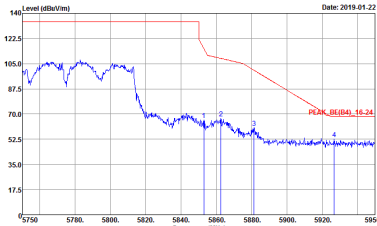
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15	 Site : 03CH13-HY Condition : PEAK(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15	Left blank



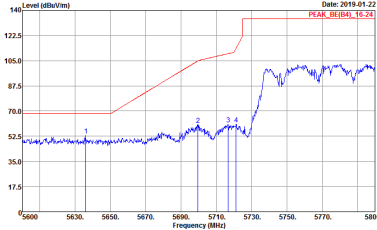
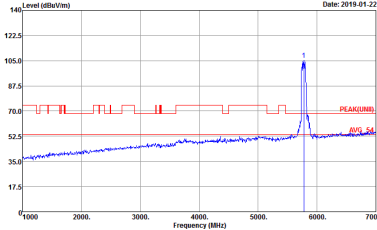
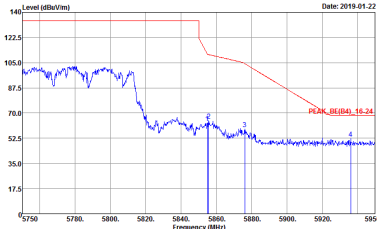
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15	 Site : 03CH13-HY Condition : PEAK(FUND)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 154 Power : 15	Left blank



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

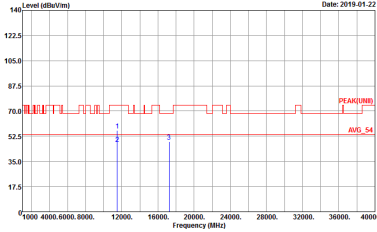
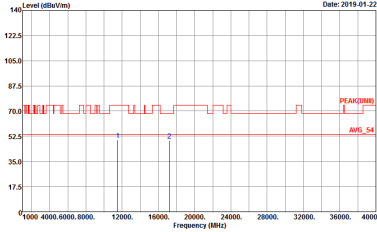
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(FUND)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5
	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_1241 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 8N0131-01 Mode : 155 Power : 15.5	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UMB) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16	 Site : 03CH13-HY Condition : PEAK(UMB) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 147 Power : 16



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2018-12-20 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 8N0131-01 Mode : 14B Power : 20	Level (dBuV/m) Date: 2018-12-20 Frequency (MHz) Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 8N0131-01 Mode : 14B Power : 20