FCC RADIO TEST REPORT

FCC ID	:	PY7-04606A
Equipment	:	GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII a/b/g/n/ac and NFC
Brand Name	:	Sony
Applicant	:	Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
Manufacturer	:	Sony Mobile Communications Inc. 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
Standard	:	FCC PART 15 Subpart E §15.407

The product was received on Mar. 25, 2018 and testing was started from Apr. 03, 2018 and completed on Apr. 26, 2018. We, SPORTON INTERNATIONAL INC., 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 INTERTIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory
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History of this test report

Report No.	Version	Description	Issued Date
FR832501-01E	01	Initial issue of report	May 29, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	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 6.84 dB at 5725.720 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 18.05 dB at 0.647 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Reviewed by: Louis Wu

Report Producer: Nancy Yang

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GNSS

Standards-related Product Specification	
Antenna Type	C-feed Antenna
Antenna Gain	**<5150 MHz ~ 5250 MHz>** -2.40 dBi **<5250 MHz ~ 5350 MHz>** -1.90 dBi **<5470 MHz ~ 5725 MHz>** -0.10 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	9.29	CQ3000NYWW	RF conducted measurement
		CQ3000NYWV	Radiated Spurious Emission
		CQ3000PSRK	Conducted Emission

Accessory List	
AC Adapter	Model No. : UCH20
	S/N : 3515W45302499 (for radiated spurious emission) 3515W45302520 (for conducted emission)
Earphone	Model No. : MH410c
	S/N: N/A
USB Cable	Model No. : UCB20
	S/N : N/A

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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

1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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.**
	03CH12-HY

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

1.4 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.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

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.

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**

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Earphone + Battery + USB Cable (Charging from Adapter)

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

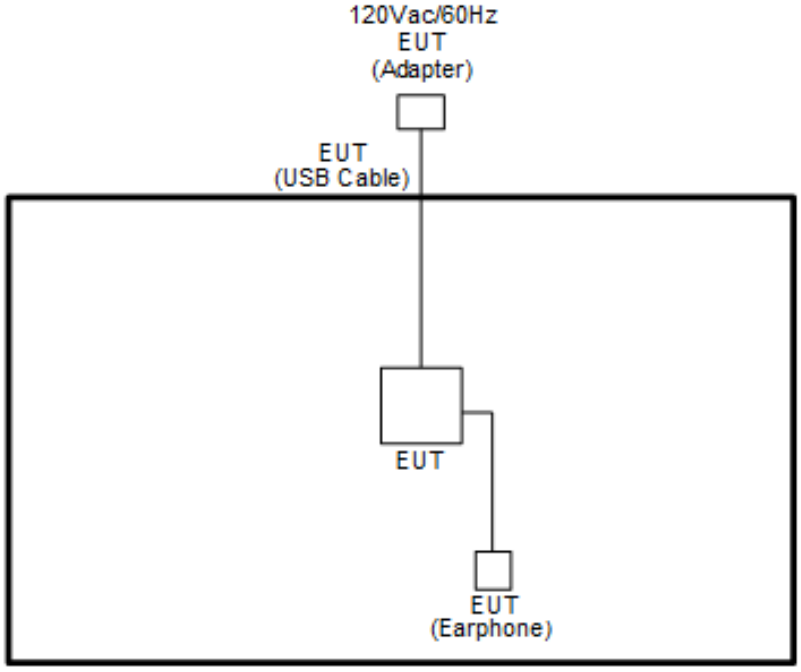
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

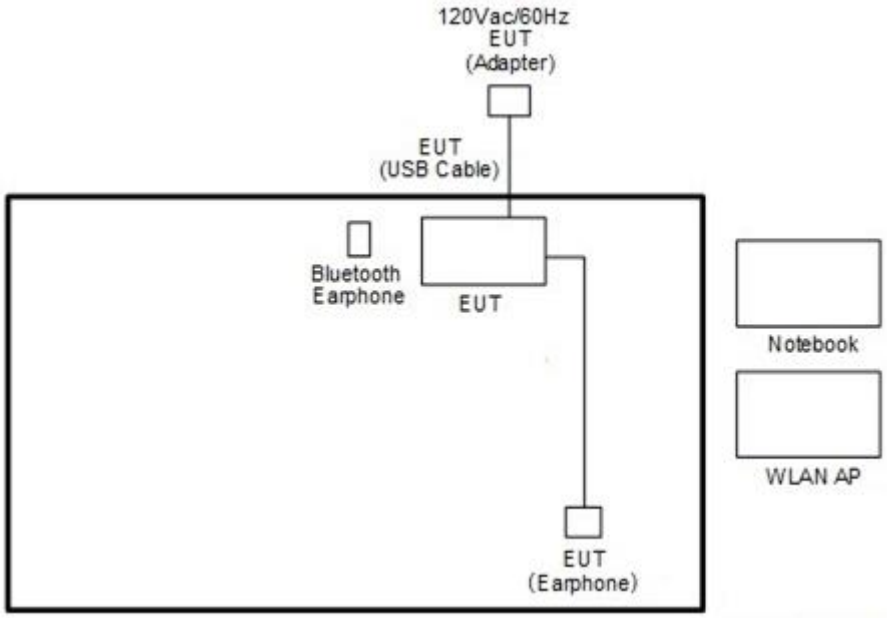
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emissions Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
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.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

For RF test items, an engineering test program was provided and enabled to make EUT transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

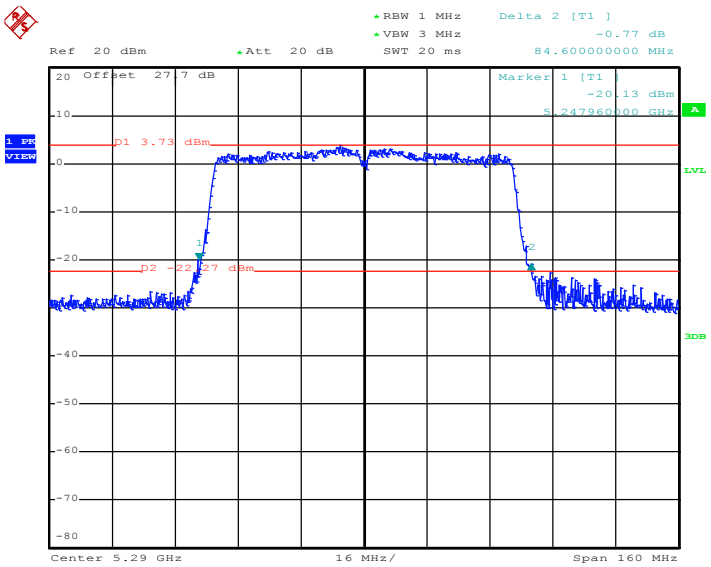
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup

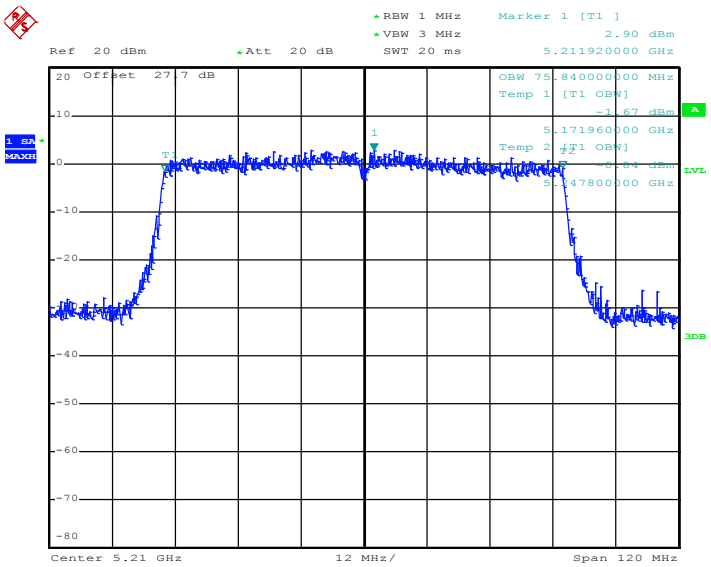
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

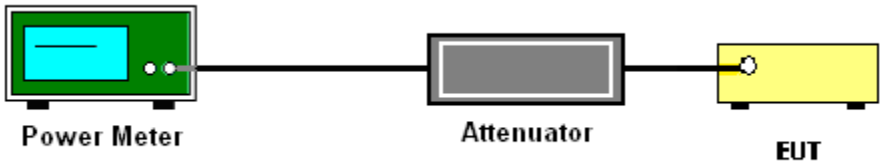
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

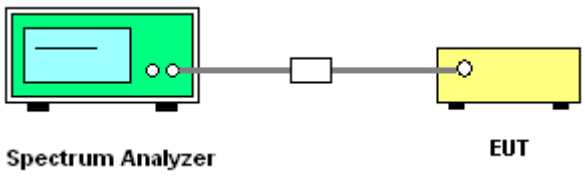
 # Method SA-2 #

(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 = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(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.

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.

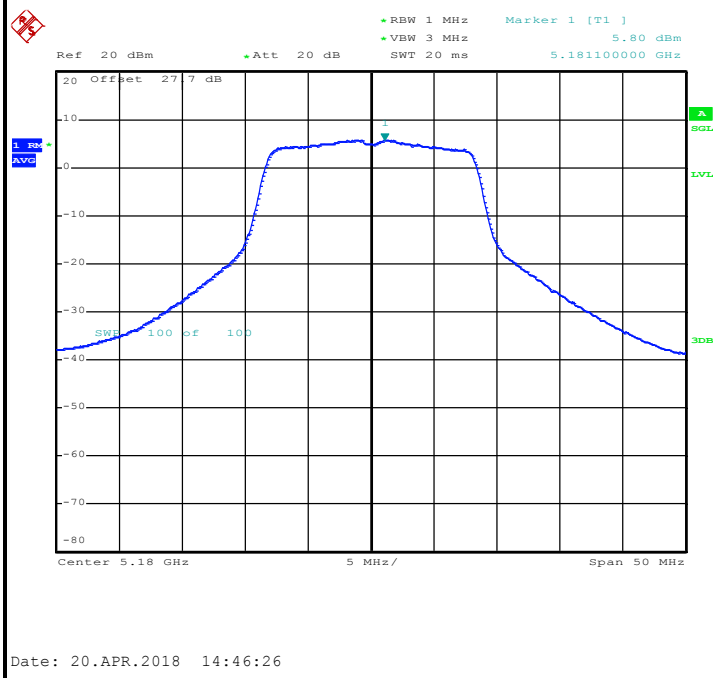
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

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 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

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

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

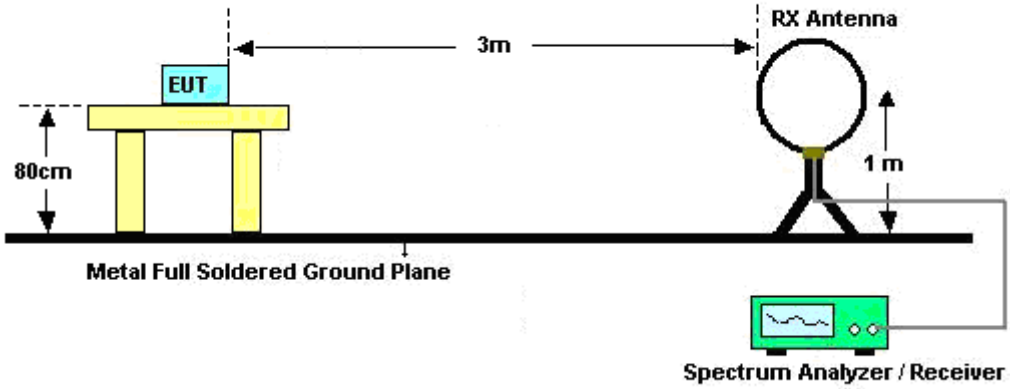
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

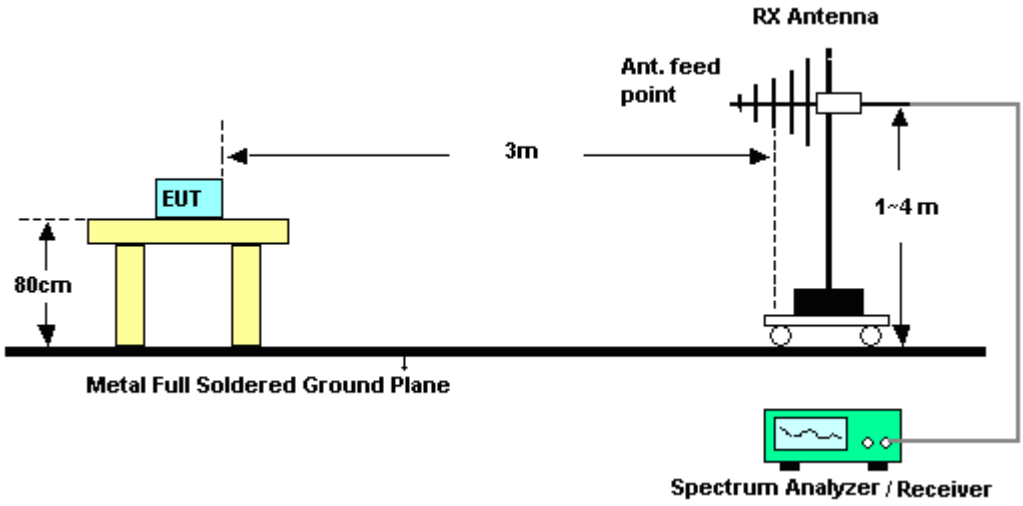
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

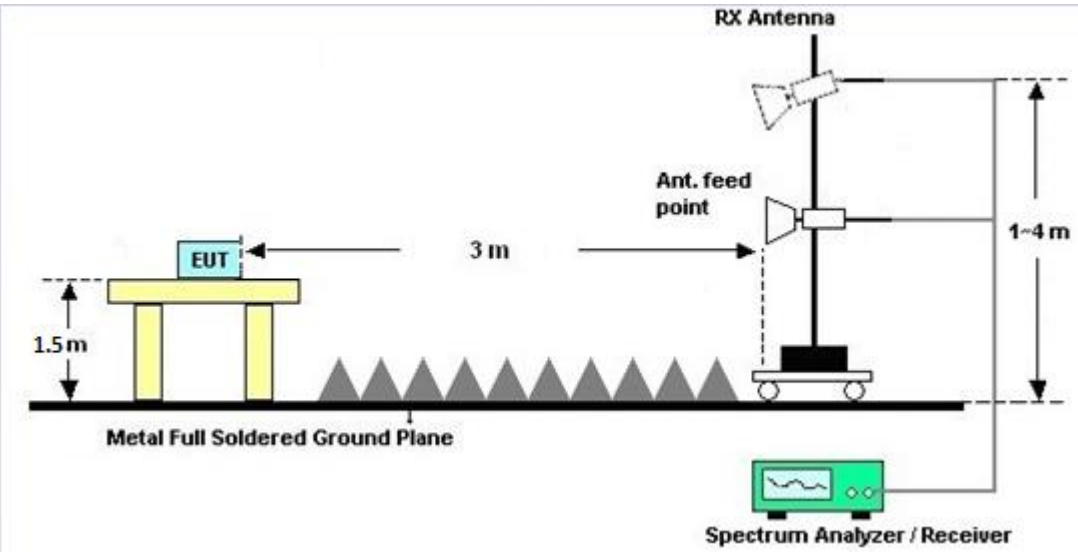
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Spurious 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 semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

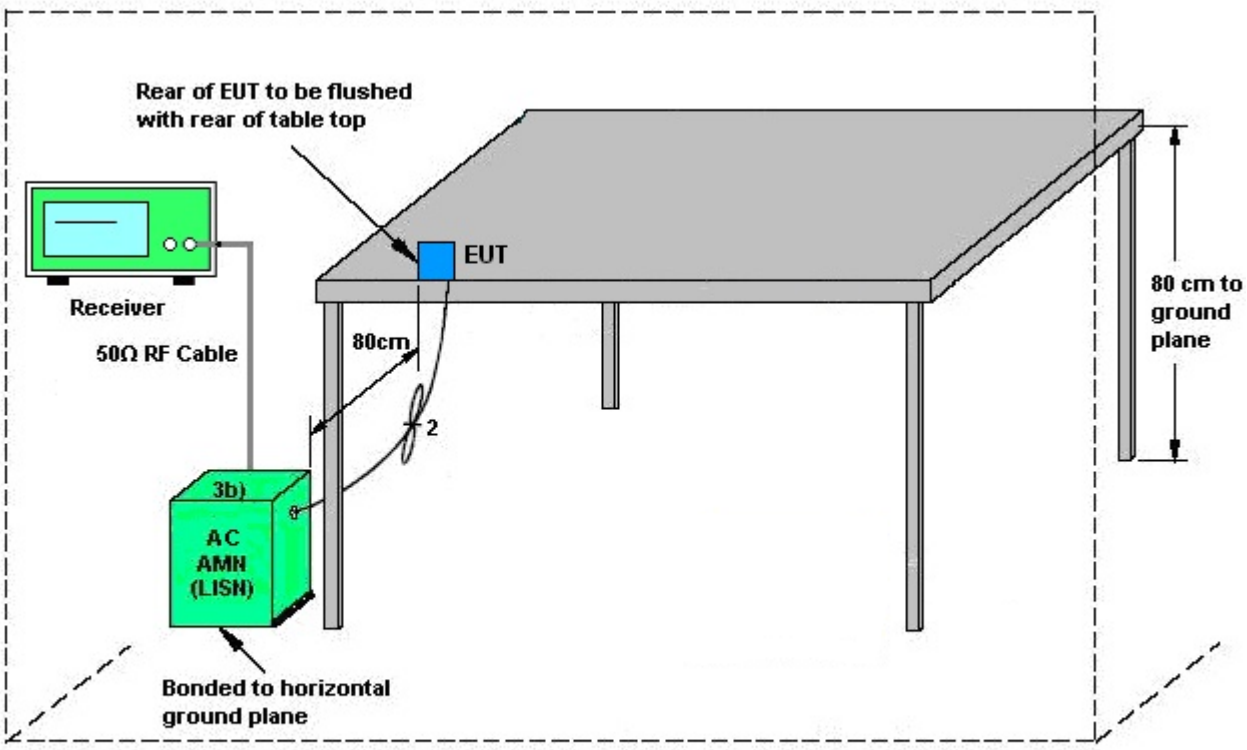
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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

The measuring equipment is listed in the section 4 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

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	Apr. 03, 2018~ Apr. 20, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Apr. 03, 2018~ Apr. 20, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	Apr. 03, 2018~ Apr. 20, 2018	Jun. 19, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Apr. 03, 2018~ Apr. 20, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Hygrometer	TECPEL	HTC-1	2	N/A	Mar. 06, 2018	Apr. 03, 2018~ Apr. 20, 2018	Mar. 05, 2019	Conducted (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	1GHz~26GHz	Dec. 01, 2017	Apr. 03, 2018~ Apr. 20, 2018	Nov. 30, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 17, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 17, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	May 02, 2017	Apr. 17, 2018	May 01, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 17, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Test Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 17, 2018	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0 602	30MHz~1GHz	Oct. 14, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBEC K	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 20, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170584	18GHz ~ 40GHz	Nov. 27, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 31, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Oct. 30, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 26, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Mar. 25, 2019	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03K	171000180005 4002	1GHz~18GHz	Apr. 17, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Apr. 16, 2019	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 15, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Jul. 17, 2018	Radiation (03CH12-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP140320	N/A	Nov. 13, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Nov. 12, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Mar. 14, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36979/4	30M-18G	Mar. 14, 2018	Apr. 24, 2018 ~ Apr. 26, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2G Low Pass	Jul. 17, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN2	3G High Pass	Sep. 18, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Sep. 17, 2018	Radiation (03CH12-HY)
Filter	Woken	WHKX8-5272. 5-6750-18000- 40ST	SN2	6.75G Highpass	Jul. 17, 2017	Apr. 24, 2018 ~ Apr. 26, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 24, 2018 ~ Apr. 26, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 24, 2018 ~ Apr. 26, 2018	N/A	Radiation (03CH12-HY)
Test Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 24, 2018 ~ Apr. 26, 2018	N/A	Radiation (03CH12-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.10**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.70**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiang Wang/Lena Lo	Temperature:	21~25	°C
Test Date:	2018/4/3~2018/4/20	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	17.70	-	25.95	-	-		22.48	-		
11a	6Mbps	1	44	5220	17.70	-	26.25	-	-		22.48	-		
11a	6Mbps	1	48	5240	17.65	-	27.50	-	-		22.47	-		
HT20	MCS0	1	36	5180	18.75	-	26.50	-	-		22.73	-		
HT20	MCS0	1	44	5220	18.80	-	26.50	-	-		22.74	-		
HT20	MCS0	1	48	5240	18.75	-	26.35	-	-		22.73	-		
HT40	MCS0	1	38	5190	36.60	-	42.40	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.60	-	42.28	-	-		23.01	-		
VHT80	MCS0	1	42	5210	75.84	-	84.56	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I															
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	36	5180	0.23	-	16.96	-		24.00	-	-2.40	-		Pass
11a	6Mbps	1	44	5220	0.23	-	16.87	-		24.00	-	-2.40	-		Pass
11a	6Mbps	1	48	5240	0.23	-	16.95	-		24.00	-	-2.40	-		Pass
HT20	MCS0	1	36	5180	0.25	-	13.99	-		24.00	-	-2.40	-		Pass
HT20	MCS0	1	44	5220	0.25	-	13.86	-		24.00	-	-2.40	-		Pass
HT20	MCS0	1	48	5240	0.25	-	13.98	-		24.00	-	-2.40	-		Pass
HT40	MCS0	1	38	5190	0.50	-	12.99	-		24.00	-	-2.40	-		Pass
HT40	MCS0	1	46	5230	0.50	-	12.96	-		24.00	-	-2.40	-		Pass
VHT20	MCS0	1	36	5180	0.25	-	13.88	-		24.00	-	-2.40	-		Pass
VHT20	MCS0	1	44	5220	0.25	-	13.85	-		24.00	-	-2.40	-		Pass
VHT20	MCS0	1	48	5240	0.25	-	13.86	-		24.00	-	-2.40	-		Pass
VHT40	MCS0	1	38	5190	0.44	-	12.79	-		24.00	-	-2.40	-		Pass
VHT40	MCS0	1	46	5230	0.44	-	12.78	-		24.00	-	-2.40	-		Pass
VHT80	MCS0	1	42	5210	0.57	-	11.88	-		24.00	-	-2.40	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.23	-	6.03	-		11.00	-	-2.40	-		Pass
11a	6Mbps	1	44	5220	0.23	-	5.36	-		11.00	-	-2.40	-		Pass
11a	6Mbps	1	48	5240	0.23	-	5.20	-		11.00	-	-2.40	-		Pass
HT20	MCS0	1	36	5180	0.25	-	2.67	-		11.00	-	-2.40	-		Pass
HT20	MCS0	1	44	5220	0.25	-	2.08	-		11.00	-	-2.40	-		Pass
HT20	MCS0	1	48	5240	0.25	-	2.04	-		11.00	-	-2.40	-		Pass
HT40	MCS0	1	38	5190	0.50	-	-1.37	-		11.00	-	-2.40	-		Pass
HT40	MCS0	1	46	5230	0.50	-	-1.97	-		11.00	-	-2.40	-		Pass
VHT80	MCS0	1	42	5210	0.57	-	-4.99	-		11.00	-	-2.40	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.75	-	26.50	-	23.49	-	29.49	-	23.98	-	
11a	6Mbps	1	60	5300	17.70	-	26.95	-	23.48	-	29.48	-	23.98	-	
11a	6Mbps	1	64	5320	17.80	-	27.20	-	23.50	-	29.50	-	23.98	-	
HT20	MCS0	1	52	5260	18.70	-	26.80	-	23.72	-	29.72	-	23.98	-	
HT20	MCS0	1	60	5300	18.70	-	27.55	-	23.72	-	29.72	-	23.98	-	
HT20	MCS0	1	64	5320	18.75	-	26.75	-	23.73	-	29.73	-	23.98	-	
HT40	MCS0	1	54	5270	36.60	-	42.30	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.70	-	41.84	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	75.84	-	84.60	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.23	-	16.99	-		23.98	-	-1.90	-	26.99	Pass
11a	6Mbps	1	60	5300	0.23	-	16.88	-		23.98	-	-1.90	-	26.99	Pass
11a	6Mbps	1	64	5320	0.23	-	16.86	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	52	5260	0.25	-	13.99	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	60	5300	0.25	-	13.93	-		23.98	-	-1.90	-	26.99	Pass
HT20	MCS0	1	64	5320	0.25	-	13.92	-		23.98	-	-1.90	-	26.99	Pass
HT40	MCS0	1	54	5270	0.50	-	12.93	-		23.98	-	-1.90	-	26.99	Pass
HT40	MCS0	1	62	5310	0.50	-	12.92	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	52	5260	0.25	-	13.98	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	60	5300	0.25	-	13.86	-		23.98	-	-1.90	-	26.99	Pass
VHT20	MCS0	1	64	5320	0.25	-	13.91	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	54	5270	0.44	-	12.84	-		23.98	-	-1.90	-	26.99	Pass
VHT40	MCS0	1	62	5310	0.44	-	12.71	-		23.98	-	-1.90	-	26.99	Pass
VHT80	MCS0	1	58	5290	0.57	-	11.81	-		23.98	-	-1.90	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.23	-	5.13	-		11.00	-	-1.90	-		Pass
11a	6Mbps	1	60	5300	0.23	-	4.98	-		11.00	-	-1.90	-		Pass
11a	6Mbps	1	64	5320	0.23	-	5.12	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	52	5260	0.25	-	1.91	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	60	5300	0.25	-	1.72	-		11.00	-	-1.90	-		Pass
HT20	MCS0	1	64	5320	0.25	-	1.80	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	54	5270	0.50	-	-2.11	-		11.00	-	-1.90	-		Pass
HT40	MCS0	1	62	5310	0.50	-	-2.13	-		11.00	-	-1.90	-		Pass
VHT80	MCS0	1	58	5290	0.57	-	-5.45	-		11.00	-	-1.90	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	17.90	-	25.90	-	23.53	-	29.53	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.85	-	27.95	-	23.52	-	29.52	-	23.98	-	----	----
11a	6Mbps	1	140	5700	18.10	-	29.70	-	23.58	-	29.58	-	23.98	-	----	----
11a	6Mbps	1	144	5720	14.05	-	11.30	-	22.48	-	28.48	-	21.53	-	2.9	----
HT20	MCS0	1	100	5500	18.70	-	27.15	-	23.72	-	29.72	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.70	-	26.60	-	23.72	-	29.72	-	23.98	-	----	----
HT20	MCS0	1	140	5700	18.65	-	27.05	-	23.71	-	29.71	-	23.98	-	----	----
HT20	MCS0	1	144	5720	14.35	-	18.25	-	22.57	-	28.57	-	23.61	-	2.55	----
HT40	MCS0	1	102	5510	36.60	-	42.48	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.60	-	41.83	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.70	-	42.12	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	142	5710	33.40	-	36.06	-	23.98	-	30.00	-	23.98	-	3.18	----
VHT80	MCS0	1	106	5530	75.84	-	84.16	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	75.84	-	83.84	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	138	5690	73.04	-	77.24	-	23.98	-	30.00	-	23.98	-	1.38	----

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.23	-	16.94	-		23.98	-	-0.10	-	26.99	Pass
11a	6Mbps	1	116	5580	0.23	-	16.93	-		23.98	-	-0.10	-	26.99	Pass
11a	6Mbps	1	140	5700	0.23	-	16.89	-		23.98	-	-0.10	-	26.99	Pass
11a	6Mbps	1	144	5720	0.23	-	16.98	-		21.53	-	-0.10	-	26.99	Pass
HT20	MCS0	1	100	5500	0.25	-	13.97	-		23.98	-	-0.10	-	26.99	Pass
HT20	MCS0	1	116	5580	0.25	-	13.98	-		23.98	-	-0.10	-	26.99	Pass
HT20	MCS0	1	140	5700	0.25	-	13.78	-		23.98	-	-0.10	-	26.99	Pass
HT20	MCS0	1	144	5720	0.25	-	13.84	-		23.61	-	-0.10	-	26.99	Pass
HT40	MCS0	1	102	5510	0.50	-	12.77	-		23.98	-	-0.10	-	26.99	Pass
HT40	MCS0	1	110	5550	0.50	-	12.81	-		23.98	-	-0.10	-	26.99	Pass
HT40	MCS0	1	134	5670	0.50	-	12.80	-		23.98	-	-0.10	-	26.99	Pass
HT40	MCS0	1	142	5710	0.50	-	12.83	-		23.98	-	-0.10	-	26.99	Pass
VHT20	MCS0	1	100	5500	0.25	-	13.89	-		23.98	-	-0.10	-	26.99	Pass
VHT20	MCS0	1	116	5580	0.25	-	13.94	-		23.98	-	-0.10	-	26.99	Pass
VHT20	MCS0	1	140	5700	0.25	-	13.65	-		23.98	-	-0.10	-	26.99	Pass
VHT20	MCS0	1	144	5720	0.25	-	13.72	-		20.52	-	-0.10	-	26.99	Pass
VHT40	MCS0	1	102	5510	0.44	-	12.76	-		23.98	-	-0.10	-	26.99	Pass
VHT40	MCS0	1	110	5550	0.44	-	12.78	-		23.98	-	-0.10	-	26.99	Pass
VHT40	MCS0	1	134	5670	0.44	-	12.74	-		23.98	-	-0.10	-	26.99	Pass
VHT40	MCS0	1	142	5710	0.44	-	12.68	-		19.08	-	-0.10	-	26.99	Pass
VHT80	MCS0	1	106	5530	0.57	-	11.74	-		23.98	-	-0.10	-	26.99	Pass
VHT80	MCS0	1	122	5610	0.57	-	11.87	-		23.98	-	-0.10	-	26.99	Pass
VHT80	MCS0	1	138	5690	0.57	-	11.94	-		23.98	-	-0.10	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.23	-	4.68	-		11.00	-	-0.10	-		Pass
11a	6Mbps	1	116	5580	0.23	-	5.41	-		11.00	-	-0.10	-		Pass
11a	6Mbps	1	140	5700	0.23	-	4.34	-		11.00	-	-0.10	-		Pass
11a	6Mbps	1	144	5720	0.23	-	4.28	-		11.00	-	-0.10	-		Pass
HT20	MCS0	1	100	5500	0.25	-	1.47	-		11.00	-	-0.10	-		Pass
HT20	MCS0	1	116	5580	0.25	-	2.32	-		11.00	-	-0.10	-		Pass
HT20	MCS0	1	140	5700	0.25	-	1.31	-		11.00	-	-0.10	-		Pass
HT20	MCS0	1	144	5720	0.25	-	1.27	-		11.00	-	-0.10	-		Pass
HT40	MCS0	1	102	5510	0.50	-	-2.22	-		11.00	-	-0.10	-		Pass
HT40	MCS0	1	110	5550	0.50	-	-1.64	-		11.00	-	-0.10	-		Pass
HT40	MCS0	1	134	5670	0.50	-	-2.05	-		11.00	-	-0.10	-		Pass
HT40	MCS0	1	142	5710	0.50	-	-2.83	-		11.00	-	-0.10	-		Pass
VHT80	MCS0	1	106	5530	0.57	-	-5.41	-		11.00	-	-0.10	-		Pass
VHT80	MCS0	1	122	5610	0.57	-	-4.90	-		11.00	-	-0.10	-		Pass
VHT80	MCS0	1	138	5690	0.57	-	-5.67	-		11.00	-	-0.10	-		Pass

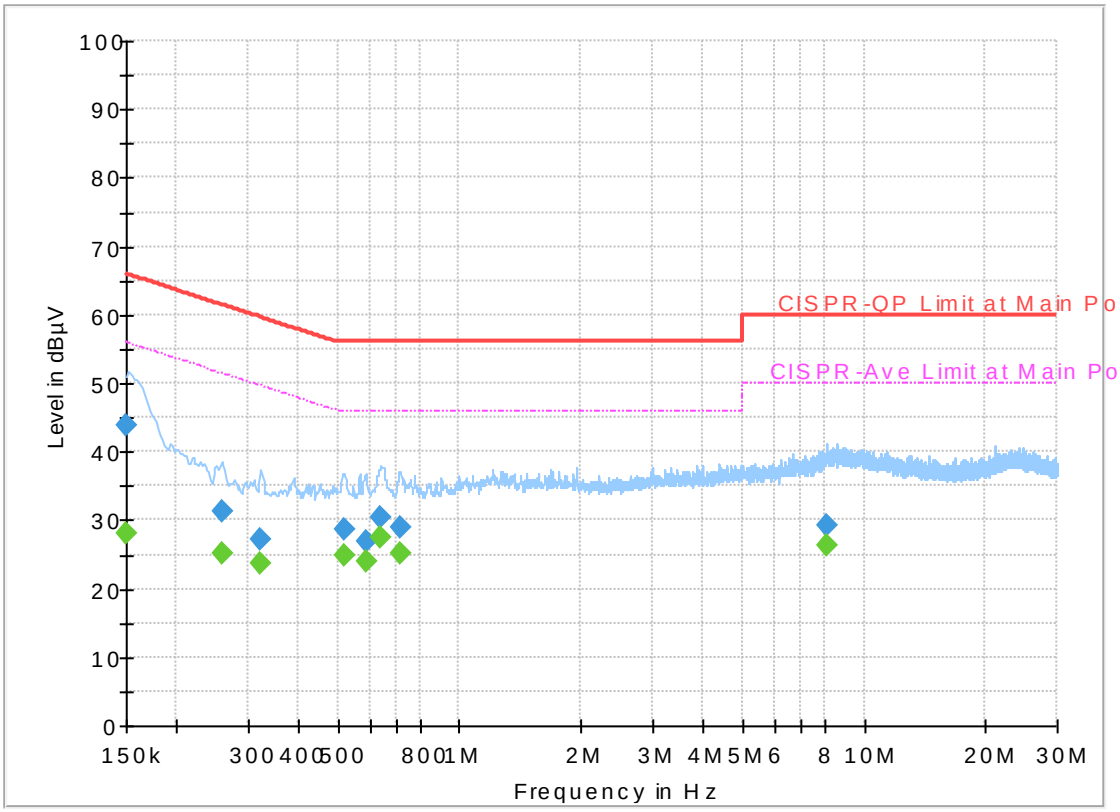
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	**Temperature :**	25~26℃
		Relative Humidity :	55~58%

EUT Information

Report NO :	832501-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



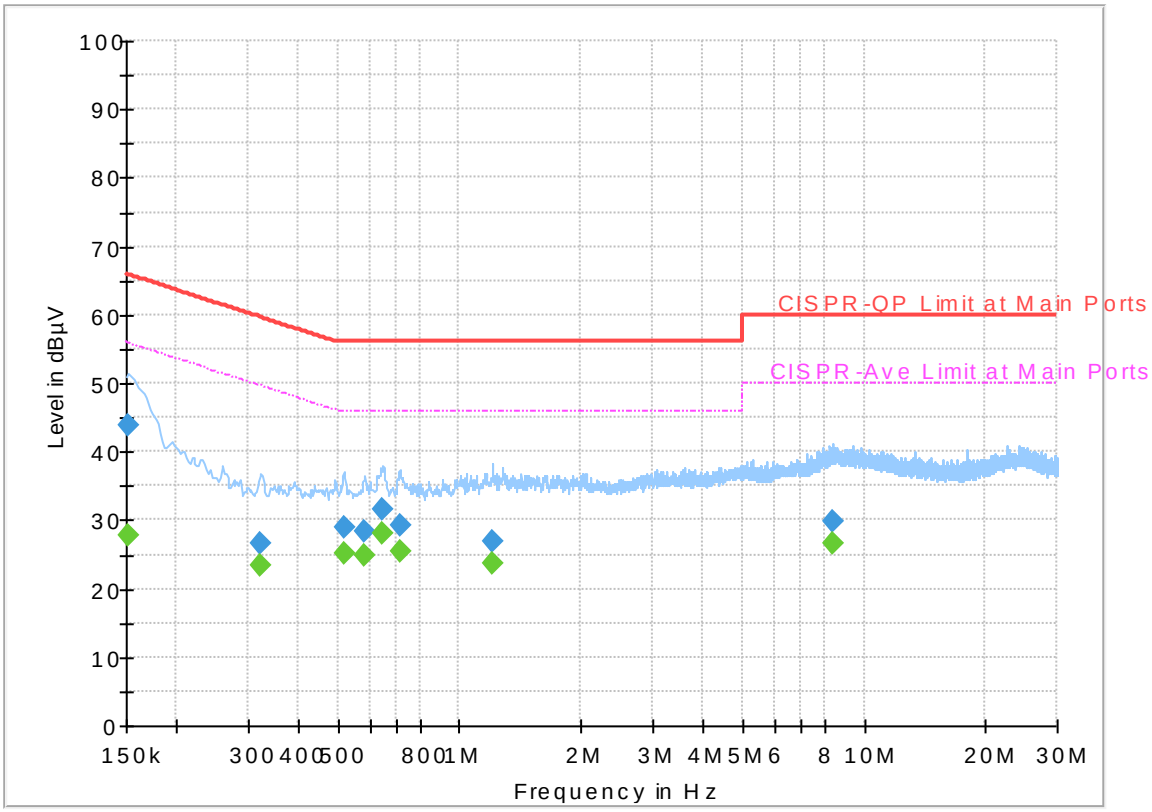
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	28.18	56.00	27.82	L1	OFF	19.5
0.150000	43.91	---	66.00	22.09	L1	OFF	19.5
0.258000	---	25.02	51.50	26.48	L1	OFF	19.5
0.258000	31.43	---	61.50	30.07	L1	OFF	19.5
0.323250	---	23.61	49.62	26.01	L1	OFF	19.5
0.323250	27.15	---	59.62	32.47	L1	OFF	19.5
0.516750	---	24.94	46.00	21.06	L1	OFF	19.5
0.516750	28.77	---	56.00	27.23	L1	OFF	19.5
0.586500	---	23.99	46.00	22.01	L1	OFF	19.5
0.586500	26.80	---	56.00	29.20	L1	OFF	19.5
0.640500	---	27.57	46.00	18.43	L1	OFF	19.5
0.640500	30.50	---	56.00	25.50	L1	OFF	19.5
0.714750	---	25.12	46.00	20.88	L1	OFF	19.5
0.714750	29.03	---	56.00	26.97	L1	OFF	19.5
8.070000	---	26.35	50.00	23.65	L1	OFF	19.7
8.070000	29.33	---	60.00	30.67	L1	OFF	19.7

EUT Information

Report NO :	832501-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	27.76	55.88	28.12	N	OFF	19.5
0.152250	44.00	---	65.88	21.88	N	OFF	19.5
0.323250	---	23.47	49.62	26.15	N	OFF	19.5
0.323250	26.68	---	59.62	32.94	N	OFF	19.5
0.519000	---	25.25	46.00	20.75	N	OFF	19.5
0.519000	28.96	---	56.00	27.04	N	OFF	19.5
0.584250	---	24.97	46.00	21.03	N	OFF	19.5
0.584250	28.31	---	56.00	27.69	N	OFF	19.5
0.647250	---	27.95	46.00	18.05	N	OFF	19.5
0.647250	31.68	---	56.00	24.32	N	OFF	19.5
0.714750	---	25.34	46.00	20.66	N	OFF	19.5
0.714750	29.27	---	56.00	26.73	N	OFF	19.5
1.205250	---	23.73	46.00	22.27	N	OFF	19.5
1.205250	26.93	---	56.00	29.07	N	OFF	19.5
8.369250	---	26.64	50.00	23.36	N	OFF	19.7
8.369250	29.89	---	60.00	30.11	N	OFF	19.7

Appendix C. Radiated Spurious Emission

Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	Temperature :	21~23°C
		Relative Humidity :	57~60%

Band 1 - 5150~5250MHz

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5140.66	60.77	-13.23	74	54.14	31.79	5.98	31.14	122	234	P	H
		5149.76	45.27	-8.73	54	38.63	31.79	5.99	31.14	122	234	A	H
	*	5180	109.42	-	-	102.73	31.81	6.02	31.14	122	234	P	H
	*	5180	98.1	-	-	91.41	31.81	6.02	31.14	122	234	A	H
													H
													H
		5147.42	59.43	-14.57	74	52.79	31.79	5.99	31.14	100	289	P	V
		5148.98	43.54	-10.46	54	36.9	31.79	5.99	31.14	100	289	A	V
	*	5180	106.52	-	-	99.83	31.81	6.02	31.14	100	289	P	V
	*	5180	95.2	-	-	88.51	31.81	6.02	31.14	100	289	A	V
													V
													V
802.11a CH 44 5220MHz		5143.26	51.4	-22.6	74	44.76	31.79	5.99	31.14	115	234	P	H
		5149.5	40.33	-13.67	54	33.69	31.79	5.99	31.14	115	234	A	H
	*	5220	109.2	-	-	102.47	31.83	6.04	31.14	115	234	P	H
	*	5220	97.94	-	-	91.21	31.83	6.04	31.14	115	234	A	H
		5414.92	49.28	-24.72	74	42.3	31.95	6.18	31.15	115	234	P	H
		5361.44	37.49	-16.51	54	30.58	31.92	6.14	31.15	115	234	A	H
		5140.92	50.09	-23.91	74	43.46	31.79	5.98	31.14	104	290	P	V
		5150	39.09	-14.91	54	32.45	31.79	5.99	31.14	104	290	A	V
	*	5220	106.34	-	-	99.61	31.83	6.04	31.14	104	290	P	V
	*	5220	94.95	-	-	88.22	31.83	6.04	31.14	104	290	A	V
		5372.36	48.43	-25.57	74	41.52	31.92	6.14	31.15	104	290	P	V
		5366.2	37.3	-16.7	54	30.39	31.92	6.14	31.15	104	290	A	V

802.11a CH 48 5240MHz		5138.58	49.47	-24.53	74	42.85	31.78	5.98	31.14	125	234	P	H
		5149.76	38.64	-15.36	54	32	31.79	5.99	31.14	125	234	A	H
	*	5240	108.6	-	-	101.85	31.84	6.05	31.14	125	234	P	H
	*	5240	97.47	-	-	90.72	31.84	6.05	31.14	125	234	A	H
		5395.88	48.64	-25.36	74	41.69	31.94	6.16	31.15	125	234	P	H
		5412.4	37.45	-16.55	54	30.47	31.95	6.18	31.15	125	234	A	H
		5135.46	48.19	-25.81	74	41.57	31.78	5.98	31.14	100	289	P	V
		5148.98	37.98	-16.02	54	31.34	31.79	5.99	31.14	100	289	A	V
	*	5240	105.22	-	-	98.47	31.84	6.05	31.14	100	289	P	V
	*	5240	94.27	-	-	87.52	31.84	6.05	31.14	100	289	A	V
		5448.24	48.76	-25.24	74	41.73	31.97	6.21	31.15	100	289	P	V
		5410.16	37.34	-16.66	54	30.39	31.94	6.16	31.15	100	289	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	48.06	-20.14	68.2	58.4	39.86	9.79	59.99	100	0	P	H
		15540	43.66	-30.34	74	50.94	38.53	12.23	58.04	100	0	P	H
													H
													H
		10360	53.93	-14.27	68.2	64.27	39.86	9.79	59.99	100	0	P	V
		15540	43.28	-30.72	74	50.56	38.53	12.23	58.04	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48.23	-19.97	68.2	58.6	39.98	9.82	60.17	100	0	P	H
		15660	43.96	-30.04	74	51.27	38.29	12.28	57.88	100	0	P	H
													H
													H
		10440	56	-12.2	68.2	66.37	39.98	9.82	60.17	100	0	P	V
		15660	43.86	-30.14	74	51.17	38.29	12.28	57.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	47.49	-20.71	68.2	57.83	40.07	9.85	60.26	100	0	P	H
		15720	43.96	-30.04	74	51.3	38.15	12.3	57.79	100	0	P	H
													H
													H
		10480	53.38	-14.82	68.2	63.72	40.07	9.85	60.26	100	0	P	V
		15720	45.95	-28.05	74	53.29	38.15	12.3	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5142.74	55.69	-18.31	74	49.05	31.79	5.99	31.14	122	233	P	H
		5148.2	41.47	-12.53	54	34.83	31.79	5.99	31.14	122	233	A	H
	*	5180	106.01	-	-	99.32	31.81	6.02	31.14	122	233	P	H
	*	5180	94.82	-	-	88.13	31.81	6.02	31.14	122	233	A	H
802.11n													H
HT20													H
CH 36		5143.78	52.17	-21.83	74	45.53	31.79	5.99	31.14	100	294	P	V
5180MHz		5149.76	40.04	-13.96	54	33.4	31.79	5.99	31.14	100	294	A	V
	*	5180	103.3	-	-	96.61	31.81	6.02	31.14	100	294	P	V
	*	5180	92.15	-	-	85.46	31.81	6.02	31.14	100	294	A	V
													V
													V
		5147.94	50.58	-23.42	74	43.94	31.79	5.99	31.14	118	234	P	H
		5150	39.01	-14.99	54	32.37	31.79	5.99	31.14	118	234	A	H
	*	5220	105.7	-	-	98.97	31.83	6.04	31.14	118	234	P	H
	*	5220	94.61	-	-	87.88	31.83	6.04	31.14	118	234	A	H
802.11n		5417.72	48.12	-25.88	74	41.14	31.95	6.18	31.15	118	234	P	H
HT20		5350	37.29	-16.71	54	30.41	31.91	6.12	31.15	118	234	A	H
CH 44		5140.66	48.81	-25.19	74	42.18	31.79	5.98	31.14	104	289	P	V
5220MHz		5148.72	38.48	-15.52	54	31.84	31.79	5.99	31.14	104	289	A	V
	*	5220	103.04	-	-	96.31	31.83	6.04	31.14	104	289	P	V
	*	5220	91.71	-	-	84.98	31.83	6.04	31.14	104	289	A	V
		5409.04	49.23	-24.77	74	42.28	31.94	6.16	31.15	104	289	P	V
		5418.84	37.24	-16.76	54	30.26	31.95	6.18	31.15	104	289	A	V

		5149.76	48.86	-25.14	74	42.22	31.79	5.99	31.14	112	235	P	H
		5148.98	37.88	-16.12	54	31.24	31.79	5.99	31.14	112	235	A	H
	*	5240	105.76	-	-	99.01	31.84	6.05	31.14	112	235	P	H
	*	5240	94.51	-	-	87.76	31.84	6.05	31.14	112	235	A	H
802.11n		5434.8	48.58	-25.42	74	41.58	31.96	6.19	31.15	112	235	P	H
HT20		5428.08	37.44	-16.56	54	30.46	31.95	6.18	31.15	112	235	A	H
CH 48		5143.52	49.1	-24.9	74	42.46	31.79	5.99	31.14	100	295	P	V
5240MHz		5146.64	37.41	-16.59	54	30.77	31.79	5.99	31.14	100	295	A	V
	*	5240	102.02	-	-	95.27	31.84	6.05	31.14	100	295	P	V
	*	5240	90.9	-	-	84.15	31.84	6.05	31.14	100	295	A	V
		5391.4	48.19	-25.81	74	41.26	31.93	6.15	31.15	100	295	P	V
		5435.64	37.19	-16.81	54	30.19	31.96	6.19	31.15	100	295	A	V

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

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10360	47.3	-20.9	68.2	57.64	39.86	9.79	59.99	100	0	P	H
		15540	43.05	-30.95	74	50.33	38.53	12.23	58.04	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	48.3	-19.9	68.2	58.64	39.86	9.79	59.99	100	0	P	V
5180MHz		15540	43.63	-30.37	74	50.91	38.53	12.23	58.04	100	0	P	V
													V
													V
		10440	47.9	-20.3	68.2	58.27	39.98	9.82	60.17	100	0	P	H
		15660	43.75	-30.25	74	51.06	38.29	12.28	57.88	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	48.27	-19.93	68.2	58.64	39.98	9.82	60.17	100	0	P	V
5220MHz		15660	44.06	-29.94	74	51.37	38.29	12.28	57.88	100	0	P	V
													V
													V
		10480	47.35	-20.85	68.2	57.69	40.07	9.85	60.26	100	0	P	H
		15720	44.33	-29.67	74	51.67	38.15	12.3	57.79	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	48.28	-19.92	68.2	58.62	40.07	9.85	60.26	100	0	P	V
5240MHz		15720	44.48	-29.52	74	51.82	38.15	12.3	57.79	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11n HT40 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5148.46	55.64	-18.36	74	49	31.79	5.99	31.14	106	235	P	H
		5148.72	42.84	-11.16	54	36.2	31.79	5.99	31.14	106	235	A	H
	*	5190	102.02	-	-	95.33	31.81	6.02	31.14	106	235	P	H
	*	5190	91.57	-	-	84.88	31.81	6.02	31.14	106	235	A	H
802.11n		5392.8	48.6	-25.4	74	41.67	31.93	6.15	31.15	106	235	P	H
HT40		5445.16	38.15	-15.85	54	31.15	31.96	6.19	31.15	106	235	A	H
CH 38		5139.36	53.39	-20.61	74	46.77	31.78	5.98	31.14	100	294	P	V
5190MHz		5148.46	41.18	-12.82	54	34.54	31.79	5.99	31.14	100	294	A	V
	*	5190	99.2	-	-	92.51	31.81	6.02	31.14	100	294	P	V
	*	5190	88.5	-	-	81.81	31.81	6.02	31.14	100	294	A	V
		5374.04	48.45	-25.55	74	41.54	31.92	6.14	31.15	100	294	P	V
		5454.68	37.9	-16.1	54	30.87	31.97	6.21	31.15	100	294	A	V
		5146.12	51.37	-22.63	74	44.73	31.79	5.99	31.14	128	235	P	H
		5148.72	40.94	-13.06	54	34.3	31.79	5.99	31.14	128	235	A	H
	*	5230	101.88	-	-	95.14	31.84	6.04	31.14	128	235	P	H
	*	5230	91.27	-	-	84.53	31.84	6.04	31.14	128	235	A	H
802.11n		5351.08	49.07	-24.93	74	42.19	31.91	6.12	31.15	128	235	P	H
HT40		5414.64	38.14	-15.86	54	31.16	31.95	6.18	31.15	128	235	A	H
CH 46		5144.82	50.3	-23.7	74	43.66	31.79	5.99	31.14	103	294	P	V
5230MHz		5146.12	39.88	-14.12	54	33.24	31.79	5.99	31.14	103	294	A	V
	*	5230	98.4	-	-	91.66	31.84	6.04	31.14	103	294	P	V
	*	5230	87.92	-	-	81.18	31.84	6.04	31.14	103	294	A	V
		5416.88	49.14	-24.86	74	42.16	31.95	6.18	31.15	103	294	P	V
		5423.32	38.54	-15.46	54	31.56	31.95	6.18	31.15	103	294	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10380	47.22	-20.98	68.2	57.57	39.89	9.8	60.04	100	0	P	H
		15570	43.83	-30.17	74	51.13	38.46	12.24	58	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	47.59	-20.61	68.2	57.94	39.89	9.8	60.04	100	0	P	V
5190MHz		15570	43.75	-30.25	74	51.05	38.46	12.24	58	100	0	P	V
													V
													V
		10460	47.46	-20.74	68.2	57.83	40.01	9.83	60.21	100	0	P	H
		15690	44.76	-29.24	74	52.09	38.22	12.28	57.83	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	48.03	-20.17	68.2	58.4	40.01	9.83	60.21	100	0	P	V
5230MHz		15690	44.34	-29.66	74	51.67	38.22	12.28	57.83	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5145.34	56.59	-17.41	74	49.95	31.79	5.99	31.14	116	223	P	H
		5142.48	41.42	-12.58	54	34.78	31.79	5.99	31.14	116	223	A	H
	*	5210	95.8	-	-	89.08	31.83	6.03	31.14	116	223	P	H
	*	5210	85.33	-	-	78.61	31.83	6.03	31.14	116	223	A	H
802.11ac		5369.56	48.74	-25.26	74	41.83	31.92	6.14	31.15	116	223	P	H
VHT80		5374.6	38.11	-15.89	54	31.2	31.92	6.14	31.15	116	223	A	H
CH 42		5143.78	58.04	-15.96	74	51.4	31.79	5.99	31.14	113	300	P	V
5210MHz		5137.54	41.58	-12.42	54	34.96	31.78	5.98	31.14	113	300	A	V
	*	5210	96.47	-	-	89.75	31.83	6.03	31.14	113	300	P	V
	*	5210	84.8	-	-	78.08	31.83	6.03	31.14	113	300	A	V
		5356.96	48.66	-25.34	74	41.78	31.91	6.12	31.15	113	300	P	V
		5429.48	38.06	-15.94	54	31.07	31.96	6.18	31.15	113	300	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10420	48.19	-25.81	74	58.55	39.95	9.81	60.12	100	0	P	H
		15630	44.63	-29.37	74	51.97	38.32	12.26	57.92	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	47.43	-26.57	74	57.79	39.95	9.81	60.12	100	0	P	V
5210MHz		15630	43.79	-30.21	74	51.13	38.32	12.26	57.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5140.42	48.5	-25.5	74	41.87	31.79	5.98	31.14	105	236	P	H
		5149.6	37.91	-16.09	54	31.27	31.79	5.99	31.14	105	236	A	H
	*	5260	108.31	-	-	101.53	31.86	6.07	31.15	105	236	P	H
	*	5260	97.06	-	-	90.28	31.86	6.07	31.15	105	236	A	H
		5431.44	49.13	-24.87	74	42.13	31.96	6.19	31.15	105	236	P	H
		5351.76	37.97	-16.03	54	31.09	31.91	6.12	31.15	105	236	A	H
		5081.26	48.57	-25.43	74	42.02	31.75	5.94	31.14	107	109	P	V
		5147.9	37.24	-16.76	54	30.6	31.79	5.99	31.14	107	109	A	V
	*	5260	104.5	-	-	97.72	31.86	6.07	31.15	107	109	P	V
	*	5260	93.38	-	-	86.6	31.86	6.07	31.15	107	109	A	V
		5384.88	48.86	-25.14	74	41.93	31.93	6.15	31.15	107	109	P	V
		5363.04	37.53	-16.47	54	30.62	31.92	6.14	31.15	107	109	A	V
802.11a CH 60 5300MHz		5149.6	48.43	-25.57	74	41.79	31.79	5.99	31.14	106	236	P	H
		5137.02	37.4	-16.6	54	30.78	31.78	5.98	31.14	106	236	A	H
	*	5300	107.86	-	-	101.04	31.88	6.09	31.15	106	236	P	H
	*	5300	96.66	-	-	89.84	31.88	6.09	31.15	106	236	A	H
		5350.08	49.89	-24.11	74	43.01	31.91	6.12	31.15	106	236	P	H
		5350.08	40.05	-13.95	54	33.17	31.91	6.12	31.15	106	236	A	H
		5130.9	48.11	-25.89	74	41.49	31.78	5.98	31.14	108	108	P	V
		5147.22	37.09	-16.91	54	30.45	31.79	5.99	31.14	108	108	A	V
	*	5300	105	-	-	98.18	31.88	6.09	31.15	108	108	P	V
	*	5300	94.03	-	-	87.21	31.88	6.09	31.15	108	108	A	V
		5356.08	49.18	-24.82	74	42.3	31.91	6.12	31.15	108	108	P	V
		5351.04	39.44	-14.56	54	32.56	31.91	6.12	31.15	108	108	A	V

802.11a CH 64 5320MHz	*	5320	107.7	-	-	100.86	31.89	6.1	31.15	111	235	P	H
	*	5320	96.46	-	-	89.62	31.89	6.1	31.15	111	235	A	H
		5351.84	53.45	-20.55	74	46.57	31.91	6.12	31.15	111	235	P	H
		5350.4	41.26	-12.74	54	34.38	31.91	6.12	31.15	111	235	A	H
													H
													H
	*	5320	105.68	-	-	98.84	31.89	6.1	31.15	102	106	P	V
	*	5320	94.64	-	-	87.8	31.89	6.1	31.15	102	106	A	V
		5352.48	52.24	-21.76	74	45.36	31.91	6.12	31.15	102	106	P	V
		5352.16	40.78	-13.22	54	33.9	31.91	6.12	31.15	102	106	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		10520	47.37	-20.83	68.2	57.74	40.11	9.87	60.35	100	0	P	H
		15780	43.15	-30.85	74	50.49	38.05	12.32	57.71	100	0	P	H
													H
													H
		10520	51.48	-16.72	68.2	61.85	40.11	9.87	60.35	100	0	P	V
		15780	43.58	-30.42	74	50.92	38.05	12.32	57.71	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	47.11	-26.89	74	57.57	40.18	9.9	60.54	100	0	P	H
		15900	43.87	-30.13	74	51.23	37.81	12.37	57.54	100	0	P	H
													H
													H
		10600	56.77	-17.23	74	67.23	40.18	9.9	60.54	100	16	P	V
		10600	41.9	-12.1	54	52.36	40.18	9.9	60.54	100	16	A	V
		15900	43.4	-30.6	74	50.76	37.81	12.37	57.54	100	0	P	V
													V
802.11a CH 64 5320MHz		10640	47.11	-26.89	74	57.63	40.21	9.91	60.64	100	0	P	H
		15960	42.72	-31.28	74	50.13	37.67	12.38	57.46	100	0	P	H
													H
													H
		10640	54.87	-19.13	74	65.39	40.21	9.91	60.64	106	16	P	V
		10640	40.61	-13.39	54	51.13	40.21	9.91	60.64	106	16	A	V
		15960	43.04	-30.96	74	50.45	37.67	12.38	57.46	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5049.64	48.48	-25.52	74	41.97	31.73	5.92	31.14	114	235	P	H
		5142.8	37.65	-16.35	54	31.01	31.79	5.99	31.14	114	235	A	H
	*	5260	105.39	-	-	98.61	31.86	6.07	31.15	114	235	P	H
	*	5260	94.08	-	-	87.3	31.86	6.07	31.15	114	235	A	H
802.11n		5422.56	48.6	-25.4	74	41.62	31.95	6.18	31.15	114	235	P	H
HT20		5420.64	37.47	-16.53	54	30.49	31.95	6.18	31.15	114	235	A	H
CH 52		5067.66	48.4	-25.6	74	41.87	31.74	5.93	31.14	124	295	P	V
5260MHz		5148.24	37.18	-16.82	54	30.54	31.79	5.99	31.14	124	295	A	V
	*	5260	100.98	-	-	94.2	31.86	6.07	31.15	124	295	P	V
	*	5260	89.79	-	-	83.01	31.86	6.07	31.15	124	295	A	V
		5360.4	48.93	-25.07	74	42.03	31.91	6.14	31.15	124	295	P	V
		5416.8	37.26	-16.74	54	30.28	31.95	6.18	31.15	124	295	A	V
		5062.22	48.46	-25.54	74	41.93	31.74	5.93	31.14	112	235	P	H
		5141.44	37.23	-16.77	54	30.6	31.79	5.98	31.14	112	235	A	H
	*	5300	104.79	-	-	97.97	31.88	6.09	31.15	112	235	P	H
	*	5300	93.57	-	-	86.75	31.88	6.09	31.15	112	235	A	H
802.11n		5400.72	49.26	-24.74	74	42.31	31.94	6.16	31.15	112	235	P	H
HT20		5350.08	39.05	-14.95	54	32.17	31.91	6.12	31.15	112	235	A	H
CH 60		5103.36	48.86	-25.14	74	42.29	31.76	5.95	31.14	106	114	P	V
5300MHz		5142.12	36.98	-17.02	54	30.35	31.79	5.98	31.14	106	114	A	V
	*	5300	102.16	-	-	95.34	31.88	6.09	31.15	106	114	P	V
	*	5300	90.93	-	-	84.11	31.88	6.09	31.15	106	114	A	V
		5371.44	50.07	-23.93	74	43.16	31.92	6.14	31.15	106	114	P	V
		5351.28	38.83	-15.17	54	31.95	31.91	6.12	31.15	106	114	A	V

	*	5320	104.43	-	-	97.59	31.89	6.1	31.15	123	235	P	H
	*	5320	93.29	-	-	86.45	31.89	6.1	31.15	123	235	A	H
		5350.88	50.41	-23.59	74	43.53	31.91	6.12	31.15	123	235	P	H
		5350.24	39.41	-14.59	54	32.53	31.91	6.12	31.15	123	235	A	H
802.11n													H
HT20													H
CH 64	*	5320	102.71	-	-	95.87	31.89	6.1	31.15	103	106	P	V
5320MHz	*	5320	91.5	-	-	84.66	31.89	6.1	31.15	103	106	A	V
		5354.4	51.52	-22.48	74	44.64	31.91	6.12	31.15	103	106	P	V
		5350.24	39.3	-14.7	54	32.42	31.91	6.12	31.15	103	106	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10520	48.47	-19.73	68.2	58.84	40.11	9.87	60.35	100	0	P	H
		15780	43.31	-30.69	74	50.65	38.05	12.32	57.71	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	46.69	-21.51	68.2	57.06	40.11	9.87	60.35	100	0	P	V
5260MHz		15780	43.29	-30.71	74	50.63	38.05	12.32	57.71	100	0	P	V
													V
													V
		10600	47.72	-26.28	74	58.18	40.18	9.9	60.54	100	0	P	H
		15900	44.04	-29.96	74	51.4	37.81	12.37	57.54	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	47.95	-26.05	74	58.41	40.18	9.9	60.54	100	0	P	V
5300MHz		15900	43.22	-30.78	74	50.58	37.81	12.37	57.54	100	0	P	V
													V
													V
		10640	46.7	-27.3	74	57.22	40.21	9.91	60.64	100	0	P	H
		15960	42.53	-31.47	74	49.94	37.67	12.38	57.46	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	48.92	-25.08	74	59.44	40.21	9.91	60.64	100	0	P	V
5320MHz		15960	42.63	-31.37	74	50.04	37.67	12.38	57.46	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5147.56	49.17	-24.83	74	42.53	31.79	5.99	31.14	100	234	P	H
		5148.92	37.68	-16.32	54	31.04	31.79	5.99	31.14	100	234	A	H
	*	5270	101.15	-	-	94.36	31.86	6.08	31.15	100	234	P	H
	*	5270	90.6	-	-	83.81	31.86	6.08	31.15	100	234	A	H
802.11n		5411.04	48.98	-25.02	74	42.03	31.94	6.16	31.15	100	234	P	H
HT40		5350.08	38.05	-15.95	54	31.17	31.91	6.12	31.15	100	234	A	H
CH 54		5132.94	48.12	-25.88	74	41.5	31.78	5.98	31.14	100	109	P	V
5270MHz		5145.18	37.42	-16.58	54	30.78	31.79	5.99	31.14	100	109	A	V
	*	5270	98.05	-	-	91.26	31.86	6.08	31.15	100	109	P	V
	*	5270	87.39	-	-	80.6	31.86	6.08	31.15	100	109	A	V
		5373.12	48.45	-25.55	74	41.54	31.92	6.14	31.15	100	109	P	V
		5350.32	38.16	-15.84	54	31.28	31.91	6.12	31.15	100	109	A	V
		5087.38	48.62	-25.38	74	42.07	31.75	5.94	31.14	128	235	P	H
		5149.26	38.07	-15.93	54	31.43	31.79	5.99	31.14	128	235	A	H
	*	5310	100.65	-	-	93.81	31.89	6.1	31.15	128	235	P	H
	*	5310	89.86	-	-	83.02	31.89	6.1	31.15	128	235	A	H
802.11n		5351.52	53.46	-20.54	74	46.58	31.91	6.12	31.15	128	235	P	H
HT40		5350.08	42.46	-11.54	54	35.58	31.91	6.12	31.15	128	235	A	H
CH 62		5107.1	49.29	-24.71	74	42.69	31.77	5.97	31.14	100	104	P	V
5310MHz		5136.34	37.9	-16.1	54	31.28	31.78	5.98	31.14	100	104	A	V
	*	5310	98.83	-	-	91.99	31.89	6.1	31.15	100	104	P	V
	*	5310	88.12	-	-	81.28	31.89	6.1	31.15	100	104	A	V
		5360.88	52.79	-21.21	74	45.88	31.92	6.14	31.15	100	104	P	V
		5350.08	42.35	-11.65	54	35.47	31.91	6.12	31.15	100	104	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10540	47.89	-26.11	74	58.28	40.13	9.88	60.4	100	0	P	H
		15810	44.66	-29.34	74	52.01	37.98	12.34	57.67	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	48.26	-25.74	74	58.65	40.13	9.88	60.4	100	0	P	V
5270MHz		15810	45.78	-28.22	74	53.13	37.98	12.34	57.67	100	0	P	V
													V
													V
		10620	47.61	-26.39	74	58.1	40.2	9.9	60.59	100	0	P	H
		15930	44.82	-29.18	74	52.19	37.74	12.39	57.5	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	48.5	-25.5	74	58.99	40.2	9.9	60.59	100	0	P	V
5310MHz		15930	44.44	-29.56	74	51.81	37.74	12.39	57.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5067.32	48.67	-25.33	74	42.14	31.74	5.93	31.14	112	239	P	H
		5143.48	38.15	-15.85	54	31.51	31.79	5.99	31.14	112	239	A	H
	*	5290	95.96	-	-	89.15	31.87	6.09	31.15	112	239	P	H
	*	5290	84.58	-	-	77.77	31.87	6.09	31.15	112	239	A	H
802.11ac		5350.08	54.88	-19.12	74	48	31.91	6.12	31.15	112	239	P	H
VHT80		5354.16	41.17	-12.83	54	34.29	31.91	6.12	31.15	112	239	A	H
CH 58		5061.2	47.91	-26.09	74	41.38	31.74	5.93	31.14	100	107	P	V
5290MHz		5145.52	37.82	-16.18	54	31.18	31.79	5.99	31.14	100	107	A	V
	*	5290	94.26	-	-	87.45	31.87	6.09	31.15	100	107	P	V
	*	5290	83.08	-	-	76.27	31.87	6.09	31.15	100	107	A	V
		5352.48	54.38	-19.62	74	47.5	31.91	6.12	31.15	100	107	P	V
		5350.08	41.46	-12.54	54	34.58	31.91	6.12	31.15	100	107	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		10580	48.54	-25.46	74	58.96	40.17	9.9	60.49	100	0	P	H
		15870	44.84	-29.16	74	52.23	37.84	12.35	57.58	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	47.26	-26.74	74	57.68	40.17	9.9	60.49	100	0	P	V
5290MHz		15870	44.15	-29.85	74	51.54	37.84	12.35	57.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5446.48	52.78	-21.22	74	45.77	31.97	6.19	31.15	105	133	P	H
		5469.84	55.99	-12.21	68.2	48.93	31.98	6.23	31.15	105	133	P	H
		5458	39.5	-14.5	54	32.47	31.97	6.21	31.15	105	133	A	H
	*	5500	103.95	-	-	96.86	32	6.24	31.15	105	133	P	H
	*	5500	92.46	-	-	85.37	32	6.24	31.15	105	133	A	H
													H
		5454.16	56.23	-17.77	74	49.2	31.97	6.21	31.15	101	96	P	V
		5464.4	58.22	-9.98	68.2	51.18	31.98	6.21	31.15	101	96	P	V
		5457.84	41.28	-12.72	54	34.25	31.97	6.21	31.15	101	96	A	V
	*	5500	106.91	-	-	99.82	32	6.24	31.15	101	96	P	V
	*	5500	95.65	-	-	88.56	32	6.24	31.15	101	96	A	V
													V
802.11a CH 116 5580MHz		5389.84	49.14	-24.86	74	42.21	31.93	6.15	31.15	111	132	P	H
		5468.56	47.88	-20.32	68.2	40.82	31.98	6.23	31.15	111	132	P	H
		5427.76	37.42	-16.58	54	30.44	31.95	6.18	31.15	111	132	A	H
	*	5580	104.21	-	-	96.99	32.1	6.32	31.2	111	132	P	H
	*	5580	92.85	-	-	85.63	32.1	6.32	31.2	111	132	A	H
		5732.87	48.87	-19.33	68.2	41.46	32.31	6.37	31.27	111	132	P	H
		5382.16	48.64	-25.36	74	41.71	31.93	6.15	31.15	108	87	P	V
		5466.4	48.54	-19.66	68.2	41.48	31.98	6.23	31.15	108	87	P	V
		5407.84	37.59	-16.41	54	30.64	31.94	6.16	31.15	108	87	A	V
	*	5580	107.67	-	-	100.45	32.1	6.32	31.2	108	87	P	V
	*	5580	96.33	-	-	89.11	32.1	6.32	31.2	108	87	A	V
		5735.705	49.05	-19.15	68.2	41.61	32.34	6.37	31.27	108	87	P	V

802.11a CH 140 5700MHz	*	5700	103.03	-	-	95.65	32.27	6.36	31.25	109	135	P	H
	*	5700	91.73	-	-	84.35	32.27	6.36	31.25	109	135	A	H
		5726.36	57.47	-10.73	68.2	50.05	32.31	6.37	31.26	109	135	P	H
													H
													H
													H
	*	5700	105.54	-	-	98.16	32.27	6.36	31.25	112	85	P	V
	*	5700	94.57	-	-	87.19	32.27	6.36	31.25	112	85	A	V
		5725.72	61.36	-6.84	68.2	53.94	32.31	6.37	31.26	112	85	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	48.5	-25.5	74	59.42	40.5	10.08	61.5	100	0	P	H
		16500	43.11	-25.09	68.2	48.32	39.6	12.49	57.3	100	0	P	H
													H
													H
		11000	48.47	-25.53	74	59.39	40.5	10.08	61.5	100	0	P	V
		16500	43.79	-24.41	68.2	49	39.6	12.49	57.3	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	47.58	-26.42	74	58.58	40.37	10.16	61.53	100	0	P	H
		16740	44.67	-23.53	68.2	48.84	40.13	12.52	56.82	100	0	P	H
													H
													H
		11160	48.05	-25.95	74	59.05	40.37	10.16	61.53	100	0	P	V
		16740	45.66	-22.54	68.2	49.83	40.13	12.52	56.82	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	45.6	-28.4	74	56.71	40.18	10.29	61.58	100	0	P	H
		17100	46.67	-21.53	68.2	49.05	41.06	12.64	56.08	100	0	P	H
													H
													H
		11400	47.7	-26.3	74	58.81	40.18	10.29	61.58	100	0	P	V
		17100	48.07	-20.13	68.2	50.45	41.06	12.64	56.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5459.28	50.29	-23.71	74	43.26	31.97	6.21	31.15	102	235	P	H
		5462.64	50.06	-18.14	68.2	43.02	31.98	6.21	31.15	102	235	P	H
		5454.48	38.23	-15.77	54	31.2	31.97	6.21	31.15	102	235	A	H
	*	5500	100.3	-	-	93.21	32	6.24	31.15	102	235	P	H
802.11n	*	5500	89.05	-	-	81.96	32	6.24	31.15	102	235	A	H
HT20													H
CH 100		5449.2	50.47	-23.53	74	43.44	31.97	6.21	31.15	100	95	P	V
5500MHz		5469.04	53.07	-15.13	68.2	46.01	31.98	6.23	31.15	100	95	P	V
		5457.04	38.99	-15.01	54	31.96	31.97	6.21	31.15	100	95	A	V
	*	5500	104.29	-	-	97.2	32	6.24	31.15	100	95	P	V
	*	5500	92.94	-	-	85.85	32	6.24	31.15	100	95	A	V
													V
		5361.76	48.1	-25.9	74	41.19	31.92	6.14	31.15	104	141	P	H
		5466.16	48.74	-19.46	68.2	41.68	31.98	6.23	31.15	104	141	P	H
		5426.32	37.43	-16.57	54	30.45	31.95	6.18	31.15	104	141	A	H
	*	5580	100.7	-	-	93.48	32.1	6.32	31.2	104	141	P	H
802.11n	*	5580	89.53	-	-	82.31	32.1	6.32	31.2	104	141	A	H
HT20		5754.605	48.53	-19.67	68.2	41.07	32.36	6.37	31.27	104	141	P	H
CH 116		5425.36	48.41	-25.59	74	41.43	31.95	6.18	31.15	100	93	P	V
5580MHz		5467.84	47.73	-20.47	68.2	40.67	31.98	6.23	31.15	100	93	P	V
		5441.44	37.41	-16.59	54	30.41	31.96	6.19	31.15	100	93	A	V
	*	5580	103.99	-	-	96.77	32.1	6.32	31.2	100	93	P	V
	*	5580	92.85	-	-	85.63	32.1	6.32	31.2	100	93	A	V
		5752.4	48.09	-20.11	68.2	40.63	32.36	6.37	31.27	100	93	P	V

	*	5700	99.33	-	-	91.95	32.27	6.36	31.25	100	132	P	H
	*	5700	88.18	-	-	80.8	32.27	6.36	31.25	100	132	A	H
		5749.56	50.28	-17.92	68.2	42.84	32.34	6.37	31.27	100	132	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	102.06	-	-	94.68	32.27	6.36	31.25	100	88	P	V
5700MHz	*	5700	90.89	-	-	83.51	32.27	6.36	31.25	100	88	A	V
		5728.12	53.25	-14.95	68.2	45.83	32.31	6.37	31.26	100	88	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11000	46.67	-27.33	74	57.59	40.5	10.08	61.5	100	0	P	H
		16500	43.54	-24.66	68.2	48.75	39.6	12.49	57.3	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	48.77	-25.23	74	59.69	40.5	10.08	61.5	100	0	P	V
5500MHz		16500	42.92	-25.28	68.2	48.13	39.6	12.49	57.3	100	0	P	V
													V
													V
		11160	47.08	-26.92	74	58.08	40.37	10.16	61.53	100	0	P	H
		16740	44.33	-23.87	68.2	48.5	40.13	12.52	56.82	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	46.51	-27.49	74	57.51	40.37	10.16	61.53	100	0	P	V
5580MHz		16740	44.46	-23.74	68.2	48.63	40.13	12.52	56.82	100	0	P	V
													V
													V
		11400	45.74	-28.26	74	56.85	40.18	10.29	61.58	100	0	P	H
		17100	46.87	-21.33	68.2	49.25	41.06	12.64	56.08	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	46.54	-27.46	74	57.65	40.18	10.29	61.58	100	0	P	V
5700MHz		17100	45.63	-22.57	68.2	48.01	41.06	12.64	56.08	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5444.56	49.18	-24.82	74	42.18	31.96	6.19	31.15	100	156	P	H
		5468.8	49.86	-18.34	68.2	42.8	31.98	6.23	31.15	100	156	P	H
		5454.88	39.02	-14.98	54	31.99	31.97	6.21	31.15	100	156	A	H
	*	5510	95.99	-	-	88.89	32	6.26	31.16	100	156	P	H
802.11n	*	5510	85.59	-	-	78.49	32	6.26	31.16	100	156	A	H
HT40		5758.385	48.22	-19.98	68.2	40.77	32.36	6.37	31.28	100	156	P	H
CH 102		5456.32	51.57	-22.43	74	44.54	31.97	6.21	31.15	100	98	P	V
5510MHz		5466.64	52.02	-16.18	68.2	44.96	31.98	6.23	31.15	100	98	P	V
		5459.68	40.66	-13.34	54	33.63	31.97	6.21	31.15	100	98	A	V
	*	5510	99.81	-	-	92.71	32	6.26	31.16	100	98	P	V
	*	5510	89.08	-	-	81.98	32	6.26	31.16	100	98	A	V
		5754.29	48.37	-19.83	68.2	40.91	32.36	6.37	31.27	100	98	P	V
		5428	49.42	-24.58	74	42.44	31.95	6.18	31.15	100	280	P	H
		5470	49.37	-18.83	68.2	42.31	31.98	6.23	31.15	100	280	P	H
		5454.88	38.42	-15.58	54	31.39	31.97	6.21	31.15	100	280	A	H
	*	5550	96.54	-	-	89.35	32.07	6.29	31.17	100	280	P	H
802.11n	*	5550	85.83	-	-	78.64	32.07	6.29	31.17	100	280	A	H
HT40		5736.965	48.56	-19.64	68.2	41.12	32.34	6.37	31.27	100	280	P	H
CH 110		5433.76	48.75	-25.25	74	41.75	31.96	6.19	31.15	113	98	P	V
5550MHz		5466.88	49.59	-18.61	68.2	42.53	31.98	6.23	31.15	113	98	P	V
		5454.64	38.88	-15.12	54	31.85	31.97	6.21	31.15	113	98	A	V
	*	5550	99.83	-	-	92.64	32.07	6.29	31.17	113	98	P	V
	*	5550	89.22	-	-	82.03	32.07	6.29	31.17	113	98	A	V
		5743.895	48.55	-19.65	68.2	41.11	32.34	6.37	31.27	113	98	P	V

		5376.95	49.49	-24.51	74	42.57	31.92	6.15	31.15	100	245	P	H
		5469	47.9	-20.3	68.2	40.84	31.98	6.23	31.15	100	245	P	H
		5406	38.24	-15.76	54	31.29	31.94	6.16	31.15	100	245	A	H
	*	5670	95.55	-	-	88.19	32.24	6.35	31.23	100	245	P	H
802.11n	*	5670	85.03	-	-	77.67	32.24	6.35	31.23	100	245	A	H
HT40		5730.875	51.71	-16.49	68.2	44.3	32.31	6.37	31.27	100	245	P	H
CH 134		5361.2	48.54	-25.46	74	41.63	31.92	6.14	31.15	114	90	P	V
5670MHz		5465.85	47.62	-20.58	68.2	40.58	31.98	6.21	31.15	114	90	P	V
		5450.8	37.96	-16.04	54	30.93	31.97	6.21	31.15	114	90	A	V
	*	5670	98.6	-	-	91.24	32.24	6.35	31.23	114	90	P	V
	*	5670	87.89	-	-	80.53	32.24	6.35	31.23	114	90	A	V
		5730.875	51.41	-16.79	68.2	44	32.31	6.37	31.27	114	90	P	V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11020	47.1	-26.9	74	58.01	40.49	10.1	61.5	100	0	P	H
		16530	44.56	-23.64	68.2	49.63	39.68	12.49	57.24	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	47.81	-26.19	74	58.72	40.49	10.1	61.5	100	0	P	V
5510MHz		16530	44.94	-23.26	68.2	50.01	39.68	12.49	57.24	100	0	P	V
													V
													V
		11100	47.82	-26.18	74	58.78	40.42	10.14	61.52	100	0	P	H
		16650	44.83	-23.37	68.2	49.38	39.94	12.51	57	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	46.92	-27.08	74	57.88	40.42	10.14	61.52	100	0	P	V
5550MHz		16650	44.3	-23.9	68.2	48.85	39.94	12.51	57	100	0	P	V
													V
													V
		11340	46.49	-27.51	74	57.57	40.23	10.26	61.57	100	0	P	H
		17010	45.33	-22.87	68.2	48.29	40.76	12.56	56.28	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	46.33	-27.67	74	57.41	40.23	10.26	61.57	100	0	P	V
5670MHz		17010	44.54	-23.66	68.2	47.5	40.76	12.56	56.28	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5456.08	51.56	-22.44	74	44.53	31.97	6.21	31.15	125	281	P	H
		5464.72	52.29	-15.91	68.2	45.25	31.98	6.21	31.15	125	281	P	H
		5452.48	39.78	-14.22	54	32.75	31.97	6.21	31.15	125	281	A	H
	*	5530	93.36	-	-	86.24	32.02	6.27	31.17	125	281	P	H
802.11ac	*	5530	81.76	-	-	74.64	32.02	6.27	31.17	125	281	A	H
VHT80		5740.115	48.61	-19.59	68.2	41.17	32.34	6.37	31.27	125	281	P	H
CH 106		5455.6	54.22	-19.78	74	47.19	31.97	6.21	31.15	113	96	P	V
5530MHz		5465.68	55.59	-12.61	68.2	48.55	31.98	6.21	31.15	113	96	P	V
		5456.8	40.71	-13.29	54	33.68	31.97	6.21	31.15	113	96	A	V
	*	5530	95.32	-	-	88.2	32.02	6.27	31.17	113	96	P	V
	*	5530	84.37	-	-	77.25	32.02	6.27	31.17	113	96	A	V
		5740.745	48.64	-19.56	68.2	41.2	32.34	6.37	31.27	113	96	P	V
		5446.72	49.11	-24.89	74	42.1	31.97	6.19	31.15	109	282	P	H
		5464	47.75	-20.45	68.2	40.71	31.98	6.21	31.15	109	282	P	H
		5416.24	38.16	-15.84	54	31.18	31.95	6.18	31.15	109	282	A	H
	*	5610	92.65	-	-	85.38	32.14	6.34	31.21	109	282	P	H
802.11ac	*	5610	81.38	-	-	74.11	32.14	6.34	31.21	109	282	A	H
VHT80		5737.595	49.35	-18.85	68.2	41.91	32.34	6.37	31.27	109	282	P	H
CH 122		5448.16	49.42	-24.58	74	42.39	31.97	6.21	31.15	105	91	P	V
5610MHz		5463.76	48.16	-20.04	68.2	41.12	31.98	6.21	31.15	105	91	P	V
		5410.96	38.37	-15.63	54	31.42	31.94	6.16	31.15	105	91	A	V
	*	5610	95.34	-	-	88.07	32.14	6.34	31.21	105	91	P	V
	*	5610	84.31	-	-	77.04	32.14	6.34	31.21	105	91	A	V
		5758.7	48.5	-19.7	68.2	41.05	32.36	6.37	31.28	105	91	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11060	47.67	-26.33	74	58.61	40.45	10.12	61.51	100	0	P	H
		16590	44.47	-23.73	68.2	49.3	39.79	12.5	57.12	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	47.92	-26.08	74	58.86	40.45	10.12	61.51	100	0	P	V
5530MHz		16590	44.31	-23.89	68.2	49.14	39.79	12.5	57.12	100	0	P	V
													V
													V
		11220	45.89	-28.11	74	56.9	40.33	10.2	61.54	100	0	P	H
		16830	46.04	-22.16	68.2	49.82	40.32	12.54	56.64	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	46.4	-27.6	74	57.41	40.33	10.2	61.54	100	0	P	V
5610MHz		16830	45.83	-22.37	68.2	49.61	40.32	12.54	56.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5720	104.59	-	-	97.17	32.31	6.37	31.26	123	280	P	H
	*	5720	93.28	-	-	85.86	32.31	6.37	31.26	123	280	A	H
													H
													H
													H
													H
	*	5720	106.27	-	-	98.85	32.31	6.37	31.26	126	91	P	V
	*	5720	95.09	-	-	87.67	32.31	6.37	31.26	126	91	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	46.05	-27.95	74	57.19	40.15	10.3	61.59	100	0	P	H
		17160	46.47	-21.73	68.2	48.45	41.3	12.67	55.95	100	0	P	H
													H
													H
		11440	49.32	-24.68	74	60.46	40.15	10.3	61.59	100	0	P	V
		17160	50.93	-17.27	68.2	52.91	41.3	12.67	55.95	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	5720	100.89	-	-	93.47	32.31	6.37	31.26	125	281	P	H
	*	5720	89.57	-	-	82.15	32.31	6.37	31.26	125	281	A	H
													H
													H
802.11n													H
HT20													H
CH 144	*	5720	102.49	-	-	95.07	32.31	6.37	31.26	124	90	P	V
5720MHz	*	5720	91.35	-	-	83.93	32.31	6.37	31.26	124	90	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11440	45.78	-28.22	74	56.92	40.15	10.3	61.59	100	0	P	H
		17160	47.18	-21.02	68.2	49.16	41.3	12.67	55.95	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	46.12	-27.88	74	57.26	40.15	10.3	61.59	100	0	P	V
5720MHz		17160	46.74	-21.46	68.2	48.72	41.3	12.67	55.95	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	5710	96.53	-	-	89.14	32.29	6.36	31.26	127	299	P	H
	*	5710	85.89	-	-	78.5	32.29	6.36	31.26	127	299	A	H
													H
													H
802.11n													H
HT40													H
CH 142	*	5710	98.15	-	-	90.76	32.29	6.36	31.26	100	91	P	V
5710MHz	*	5710	87.92	-	-	80.53	32.29	6.36	31.26	100	91	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11420	45.89	-28.11	74	57.01	40.17	10.29	61.58	100	0	P	H
		17130	45.98	-22.22	68.2	48.15	41.18	12.66	56.01	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	46.26	-27.74	74	57.38	40.17	10.29	61.58	100	0	P	V
5710MHz		17130	46.14	-22.06	68.2	48.31	41.18	12.66	56.01	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	5690	92.16	-	-	84.78	32.27	6.36	31.25	100	247	P	H
	*	5690	81.4	-	-	74.02	32.27	6.36	31.25	100	247	A	H
													H
													H
802.11ac													H
VHT80													H
CH 138	*	5690	94.16	-	-	86.78	32.27	6.36	31.25	115	90	P	V
5690MHz	*	5690	83.89	-	-	76.51	32.27	6.36	31.25	115	90	A	V
													V
													V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11380	46.38	-27.62	74	57.49	40.19	10.28	61.58	100	0	P	H
		17070	46.2	-22	68.2	48.8	40.94	12.61	56.15	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	46.36	-27.64	74	57.47	40.19	10.28	61.58	100	0	P	V
5690MHz		17070	46.65	-21.55	68.2	49.25	40.94	12.61	56.15	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11a (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		31.89	22.77	-17.23	40	29.3	23.24	0.44	30.21	-	-	P	H
		94.26	28.05	-15.45	43.5	42.58	15.04	0.86	30.43	-	-	P	H
		146.64	23.19	-20.31	43.5	35.63	16.89	1.05	30.38	-	-	P	H
		579.3	27.85	-18.15	46	29.98	25.48	2.05	29.66	-	-	P	H
		638.8	28.24	-17.76	46	29.4	26.3	2.13	29.59	-	-	P	H
		949.6	33.63	-12.37	46	29.34	30.56	2.73	29	100	0	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		60.51	28.28	-11.72	40	46.52	11.5	0.72	30.46	-	-	P	V
		84.81	28.96	-11.04	40	44.75	13.83	0.82	30.44	100	0	P	V
		119.37	27.95	-15.55	43.5	40.17	17.27	0.92	30.41	-	-	P	V
		562.5	27.38	-18.62	46	29.06	25.98	2.03	29.69	-	-	P	V
		769	30.13	-15.87	46	29.19	27.95	2.35	29.36	-	-	P	V
		948.9	33.43	-12.57	46	29.19	30.51	2.73	29	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission

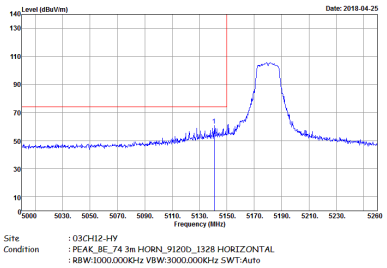
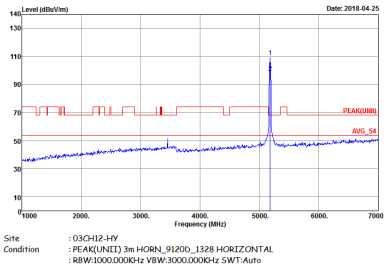
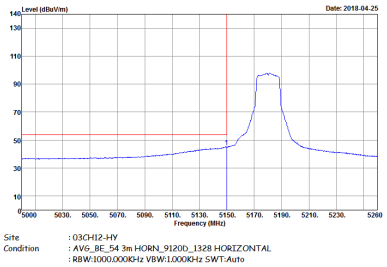
Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	**Temperature :**	21~23°C
		Relative Humidity :	57~60%

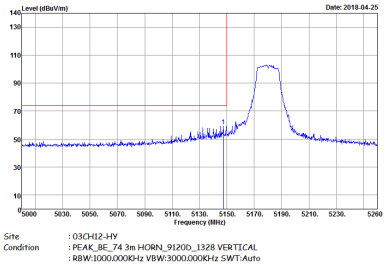
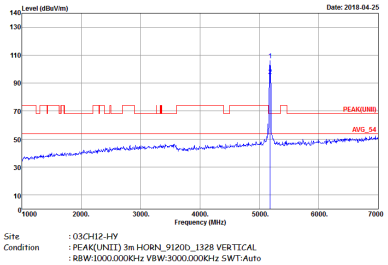
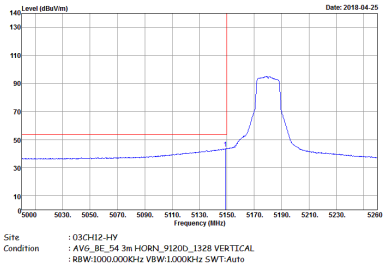
Note symbol

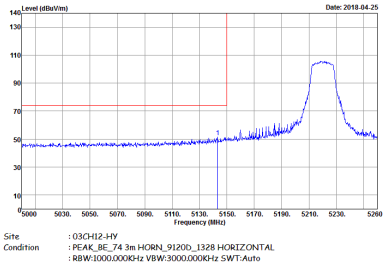
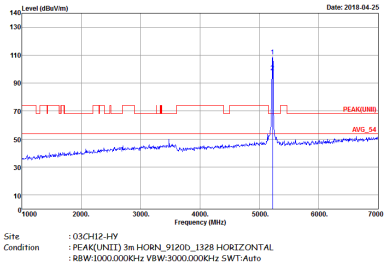
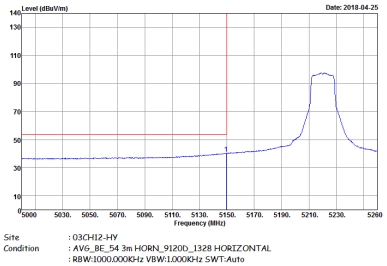
-L	**Low channel location**
-R	**High channel location**

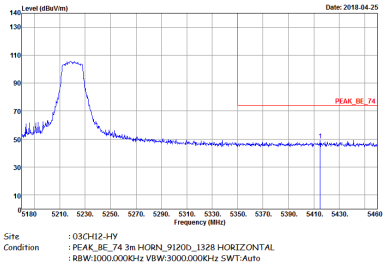
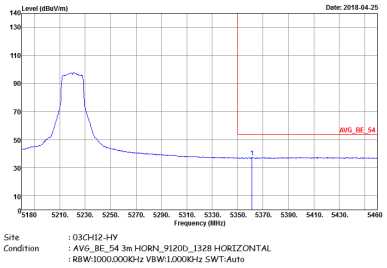
Band 1 - 5150~5250MHz

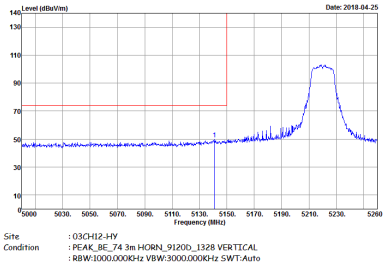
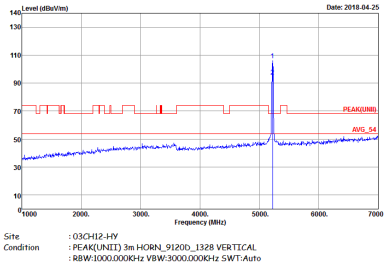
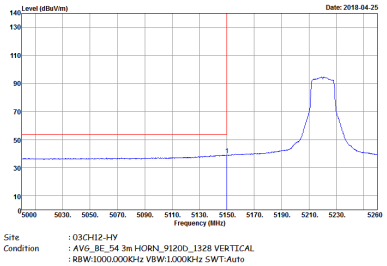
WIFI 802.11a (Band Edge @ 3m)

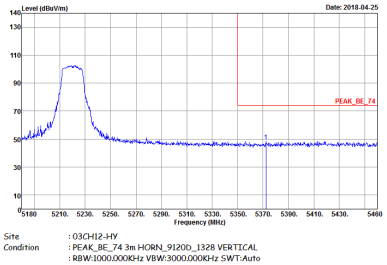
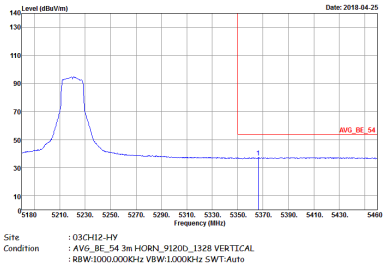
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

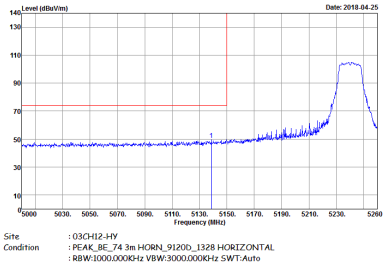
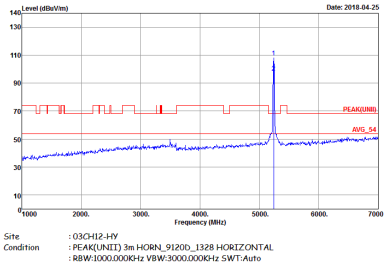
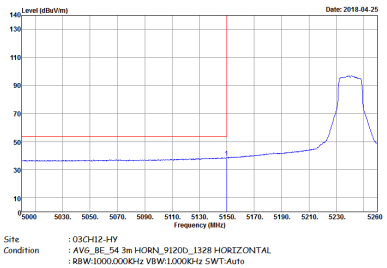
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

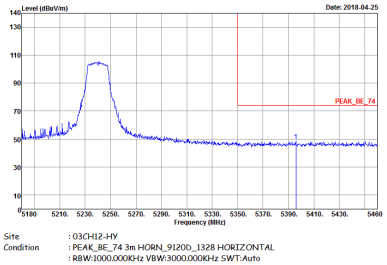
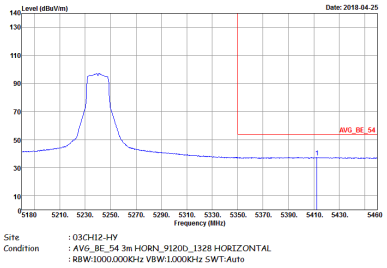
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

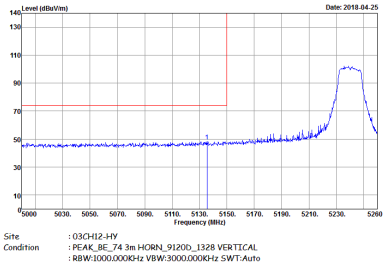
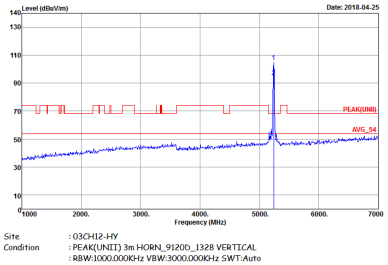
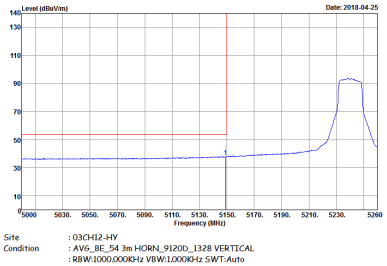
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

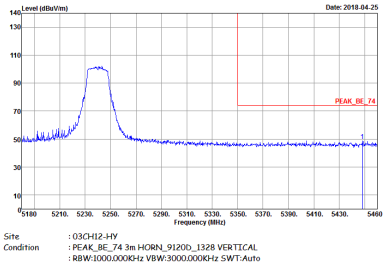
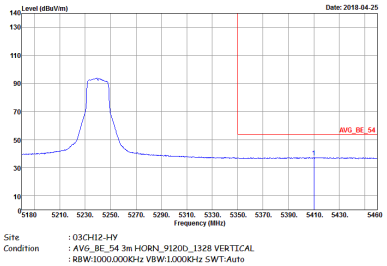
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

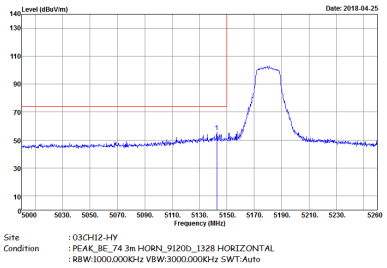
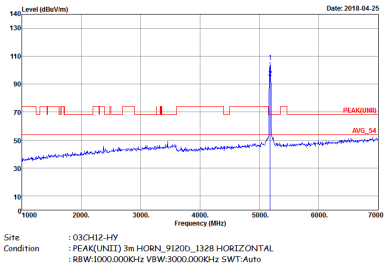
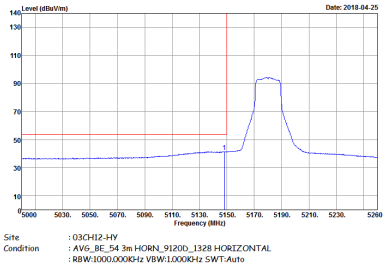
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

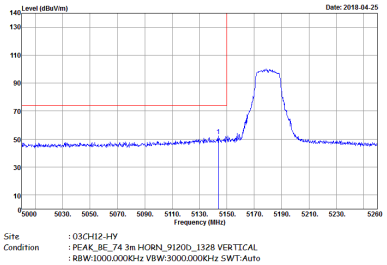
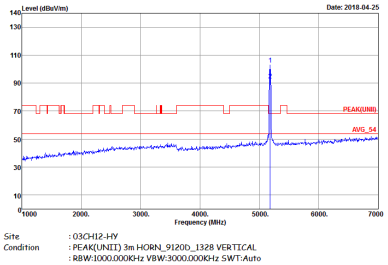
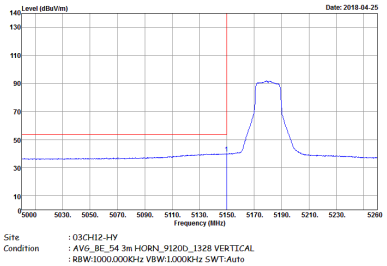
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

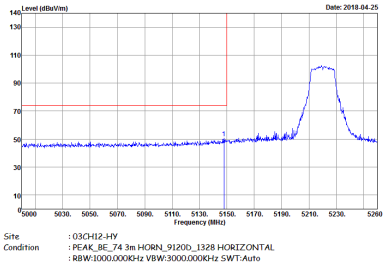
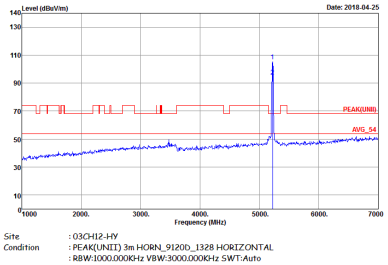
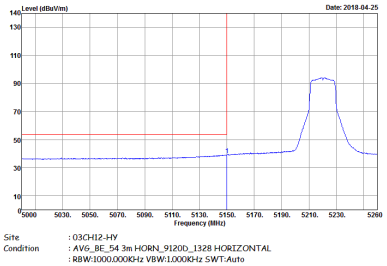
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

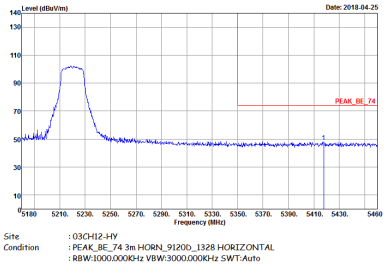
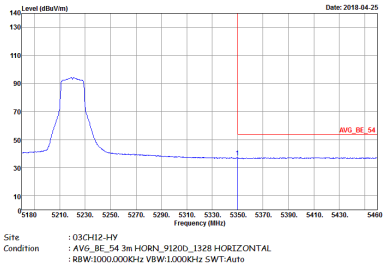
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

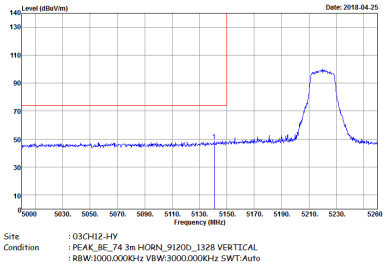
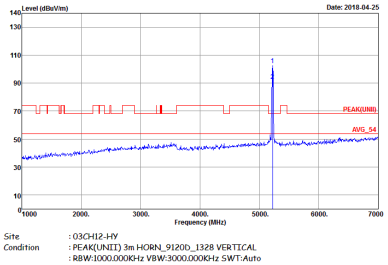
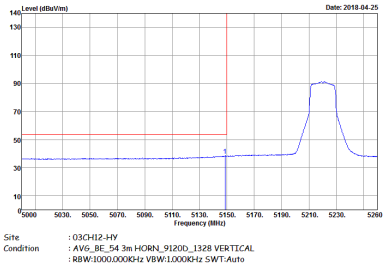
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

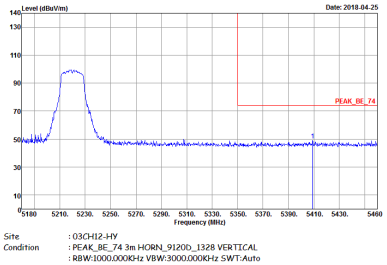
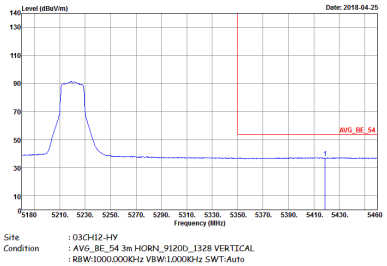
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

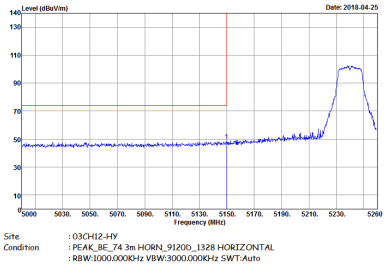
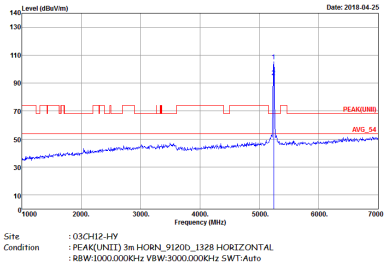
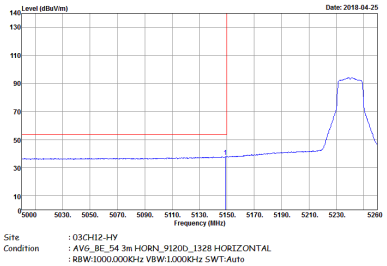
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

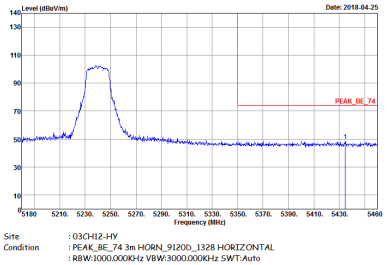
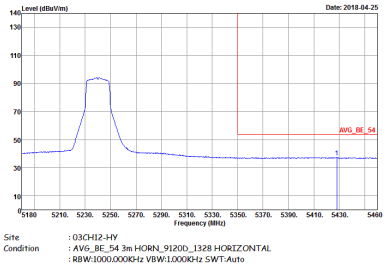
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

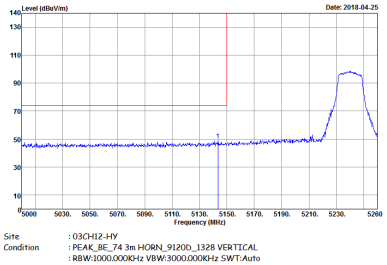
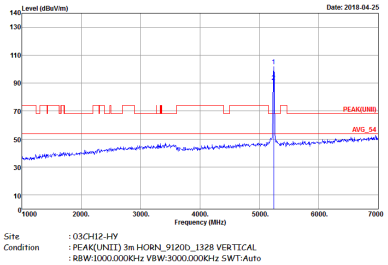
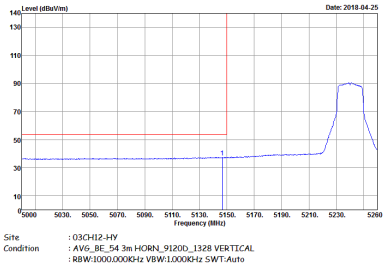
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

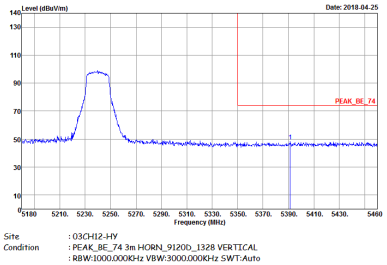
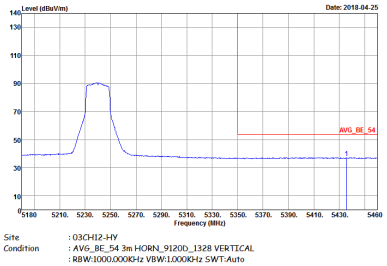
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

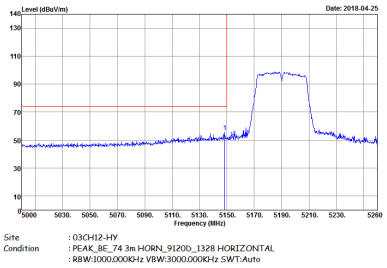
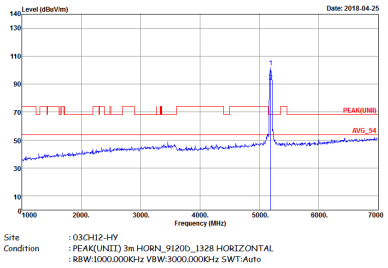
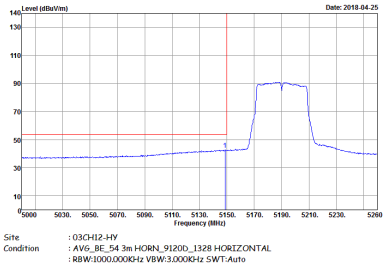
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

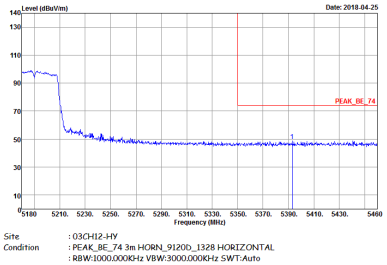
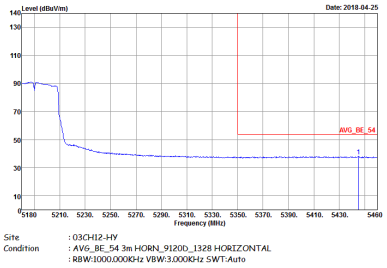
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

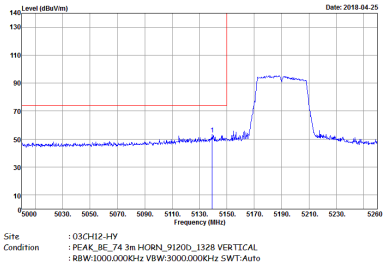
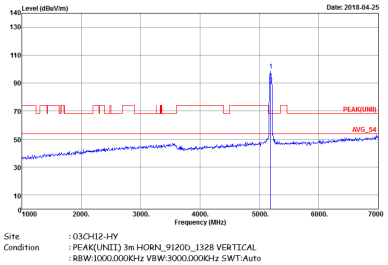
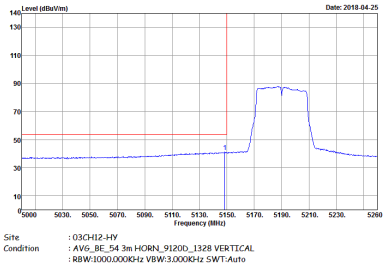
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

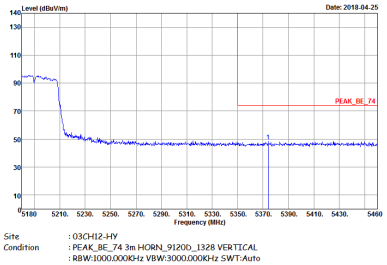
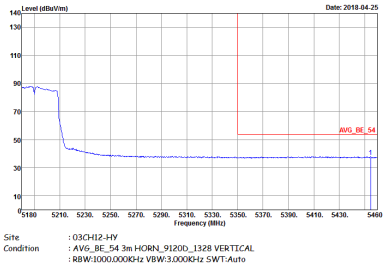
Band 1 5150~5250MHz

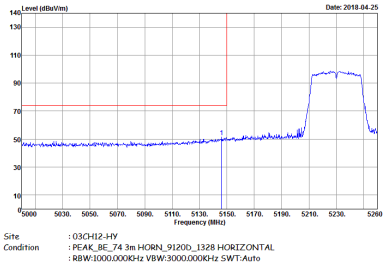
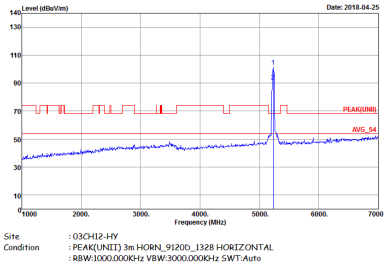
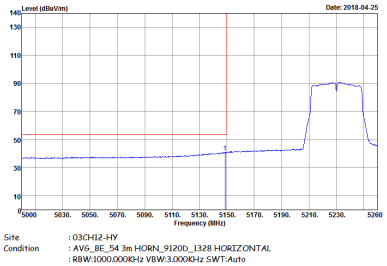
WIFI 802.11n HT40 (Band Edge @ 3m)

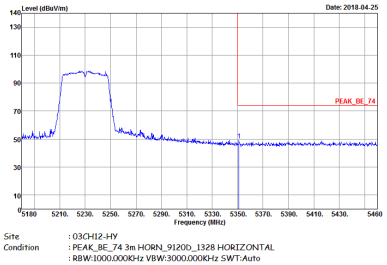
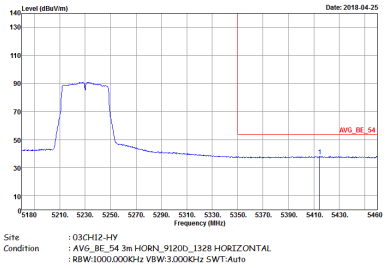
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

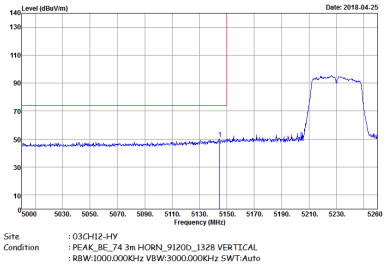
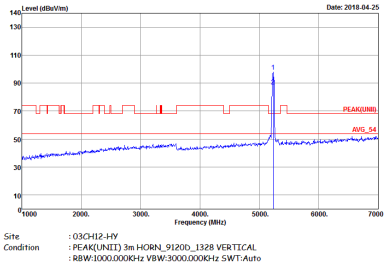
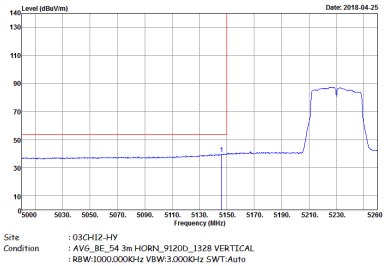
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

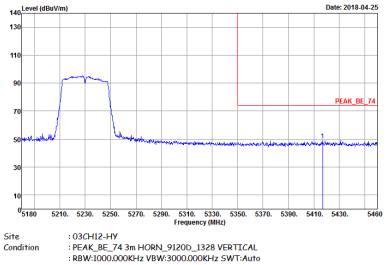
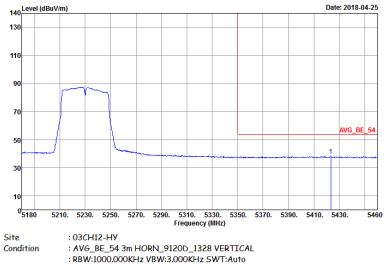
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

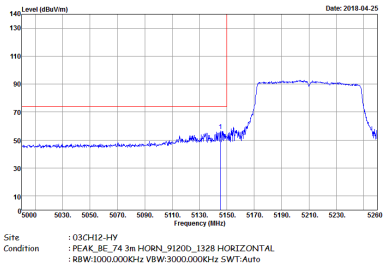
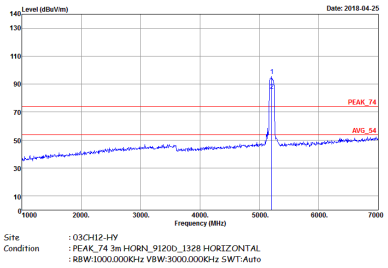
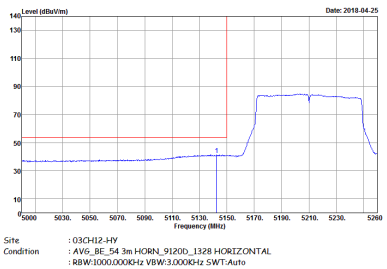
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

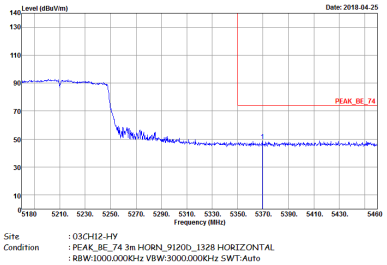
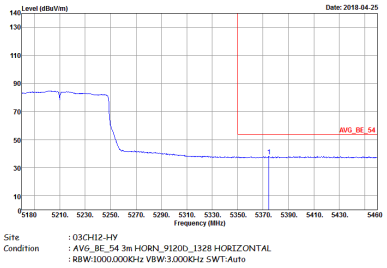
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

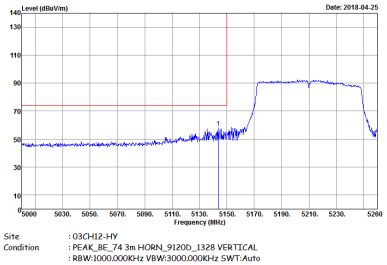
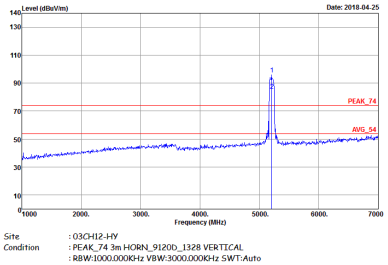
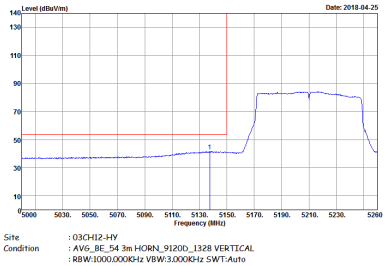
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

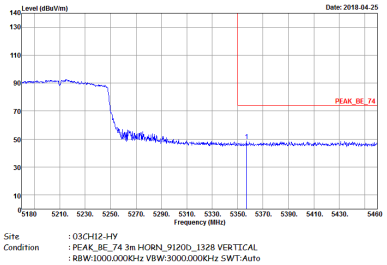
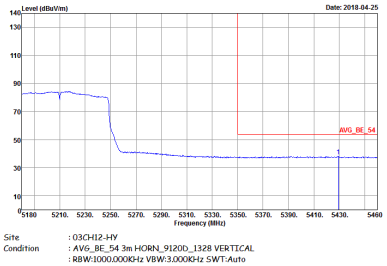
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

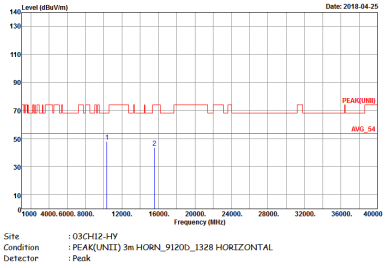
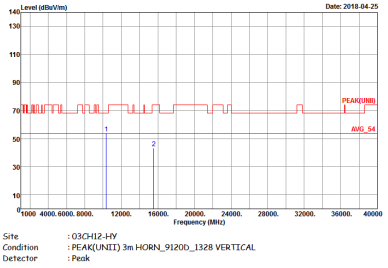
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

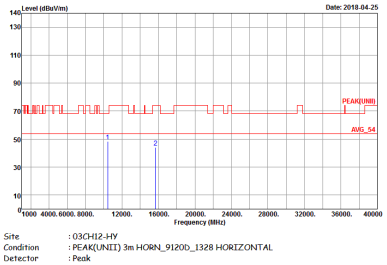
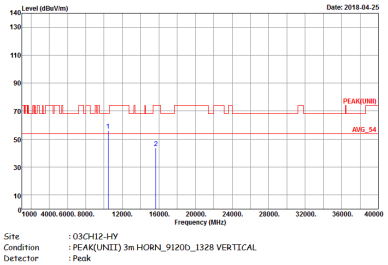
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

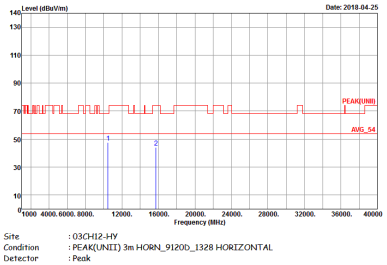
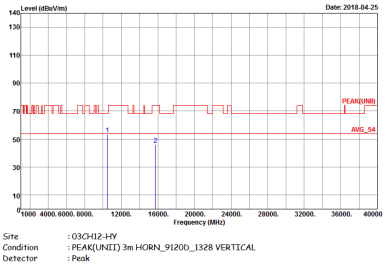
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

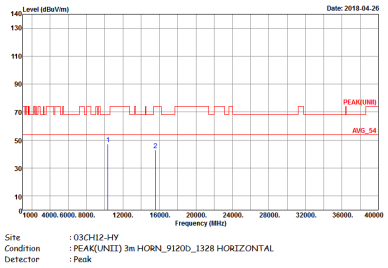
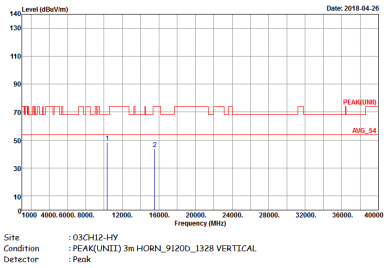
WIFI 802.11a (Harmonic @ 3m)

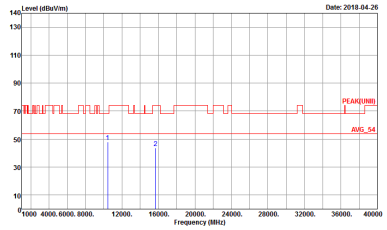
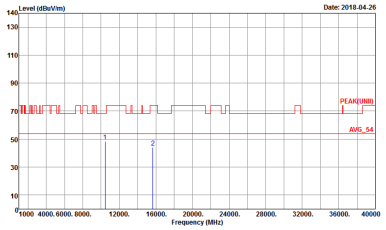
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak		

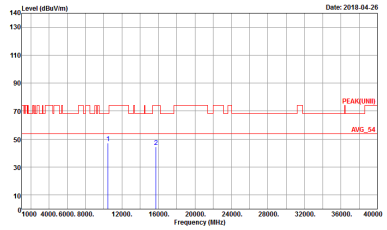
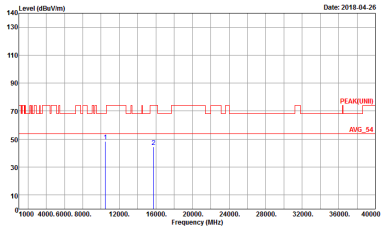
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

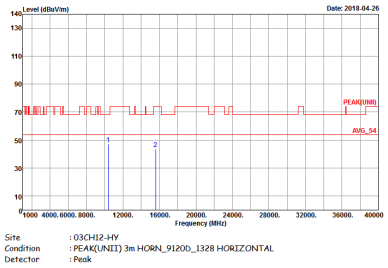
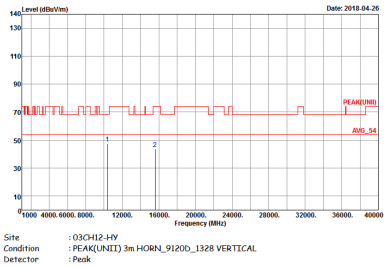
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

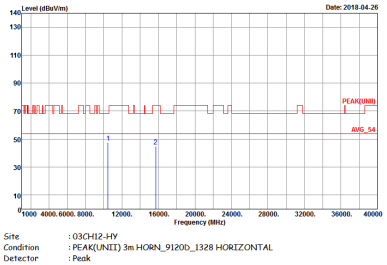
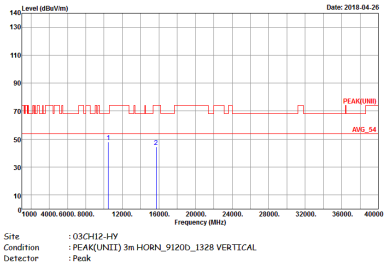
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

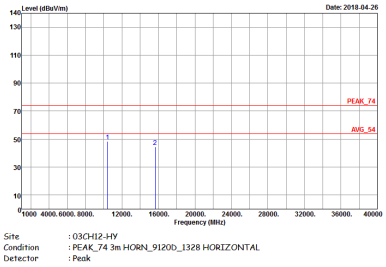
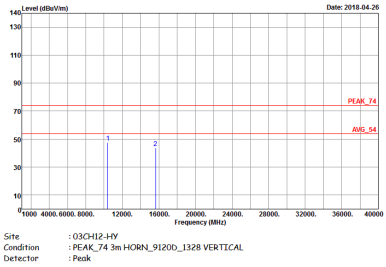
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak		

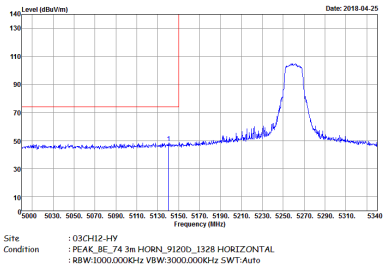
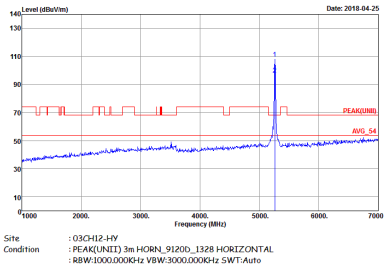
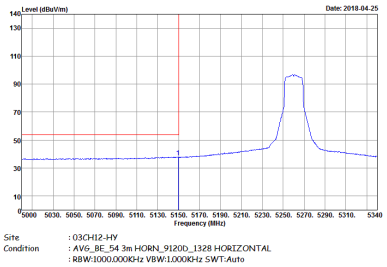
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak		

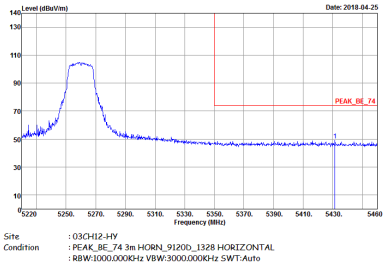
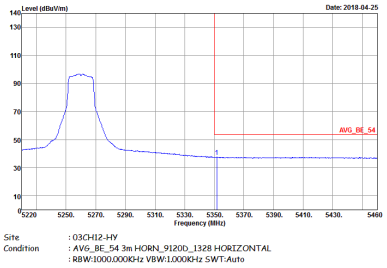
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

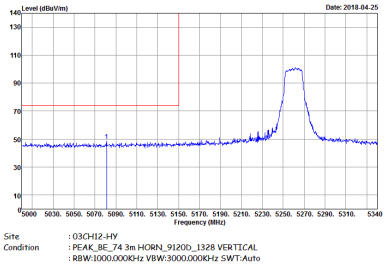
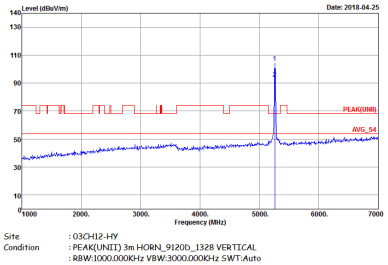
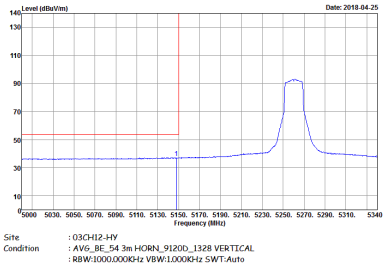
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak		

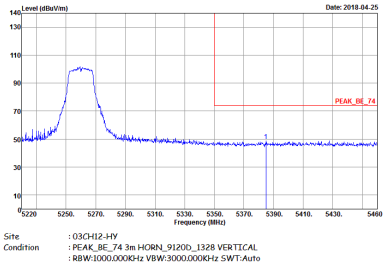
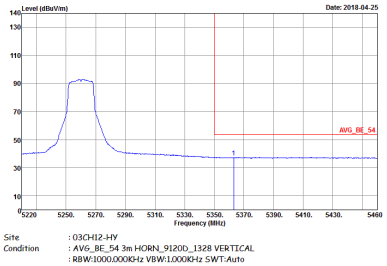
Band 2 - 5250~5350MHz

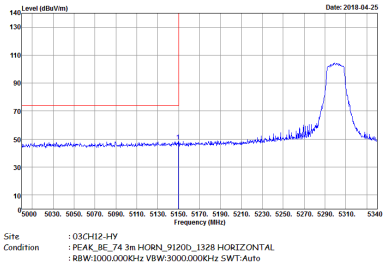
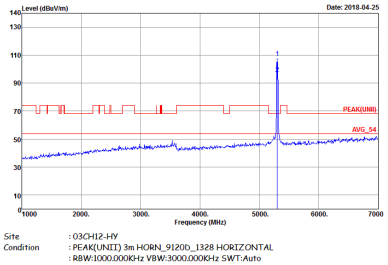
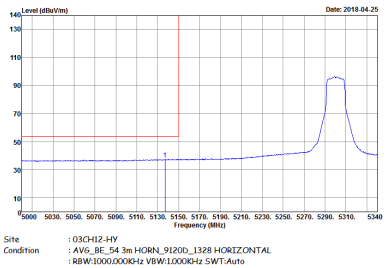
WIFI 802.11a (Band Edge @ 3m)

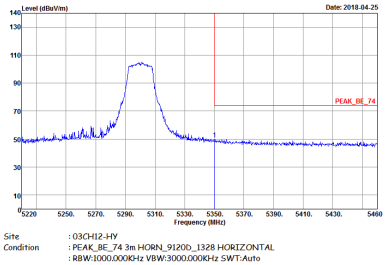
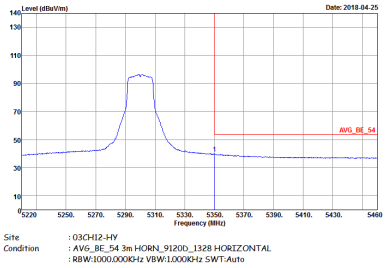
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

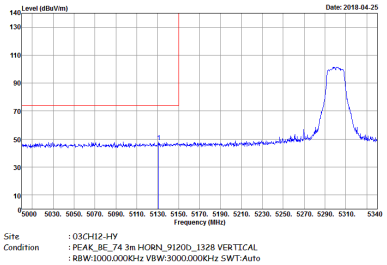
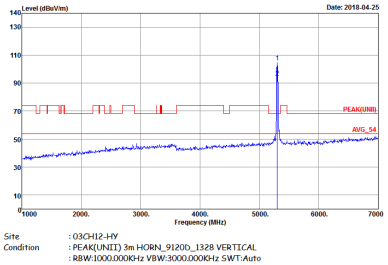
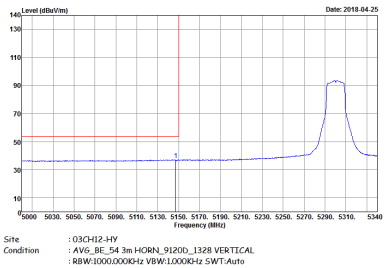
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

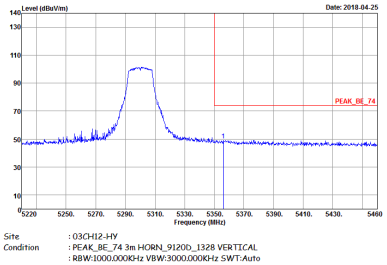
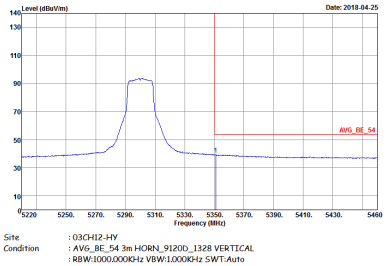
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

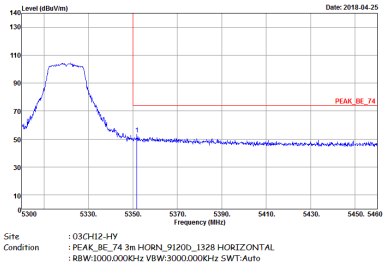
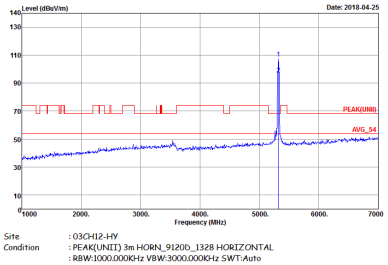
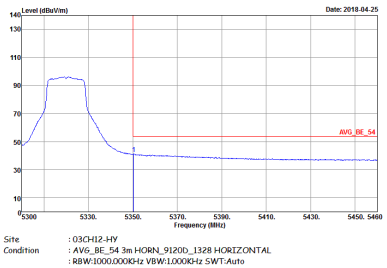
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

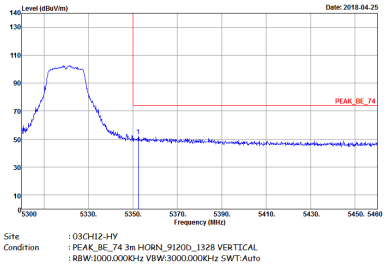
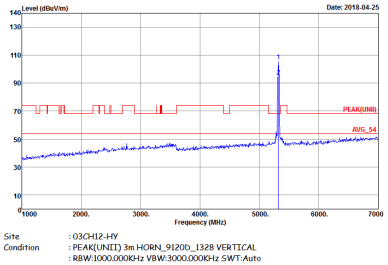
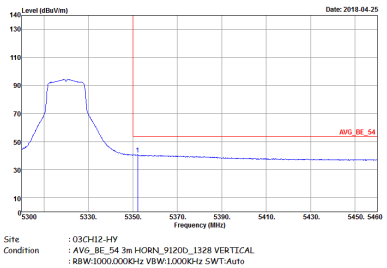
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

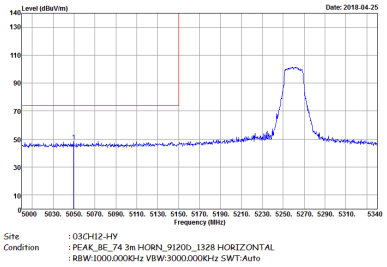
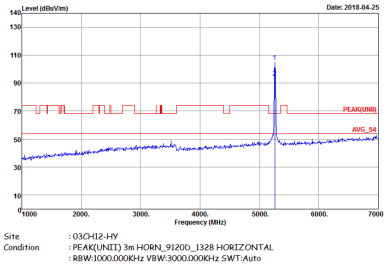
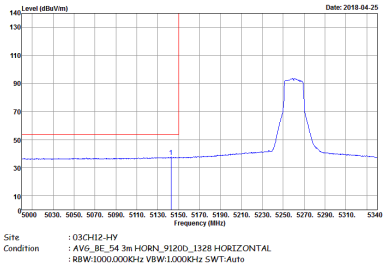
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

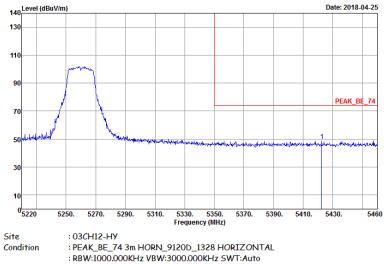
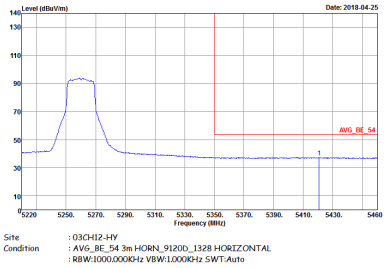
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

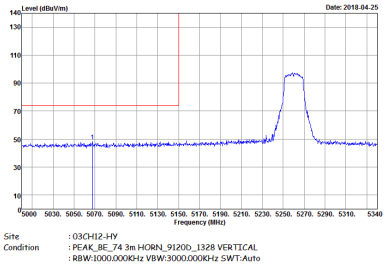
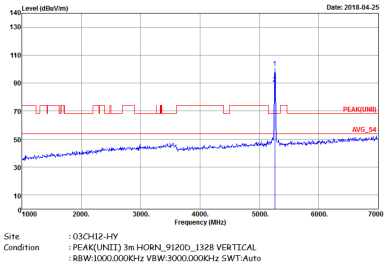
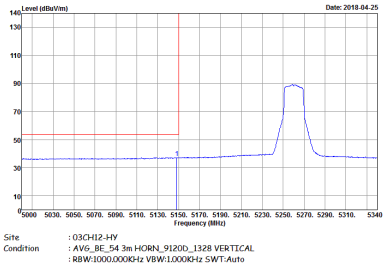
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

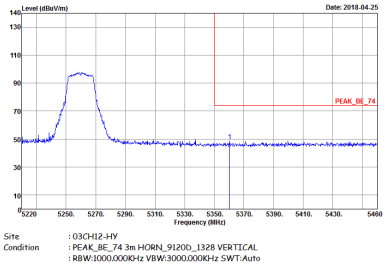
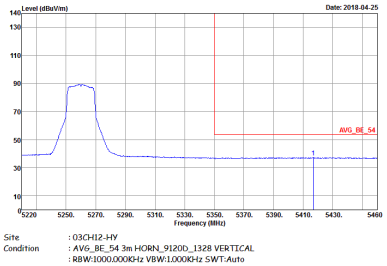
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

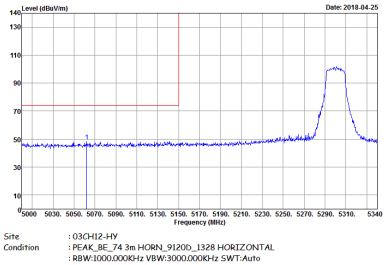
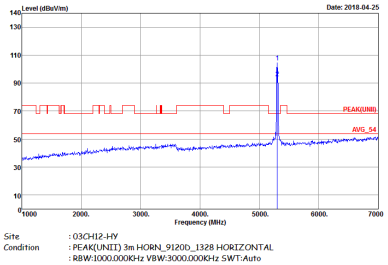
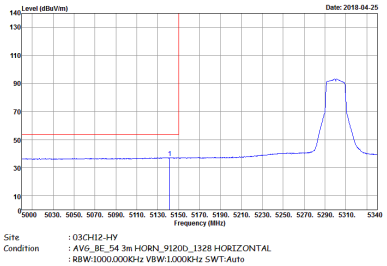
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

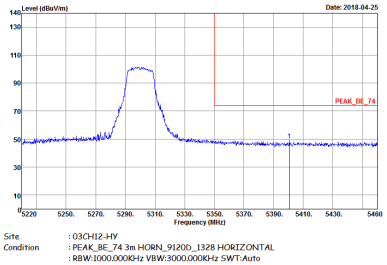
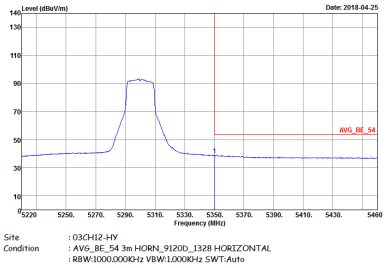
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

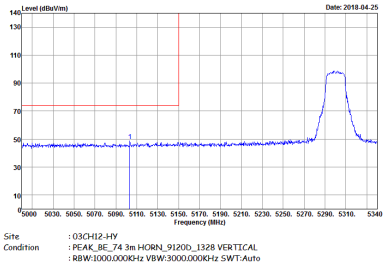
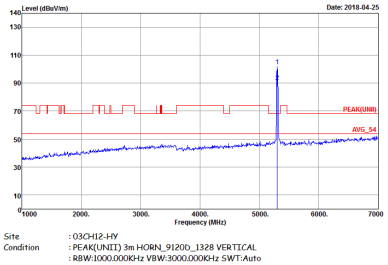
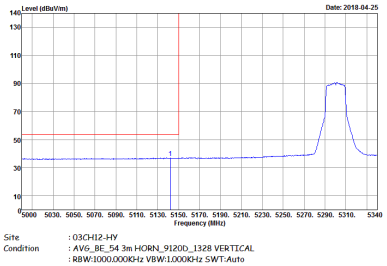
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

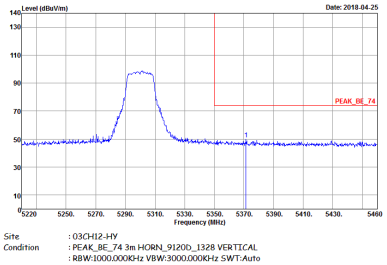
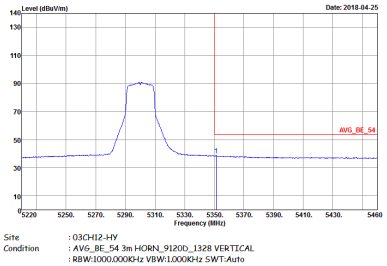
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

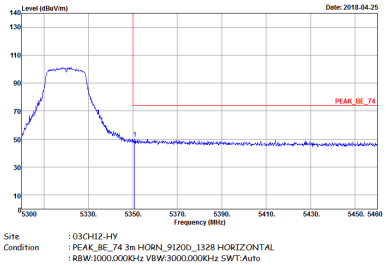
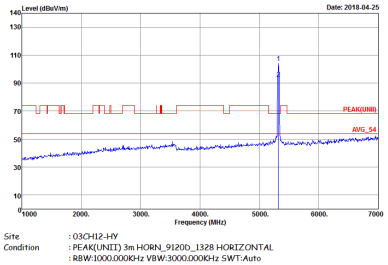
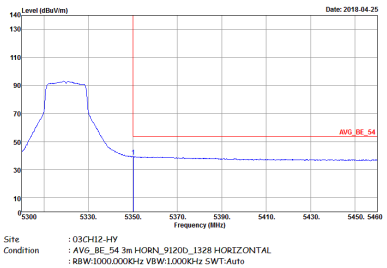
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

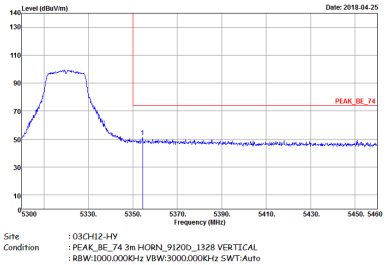
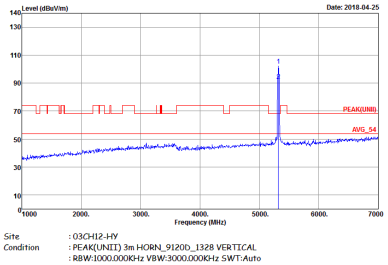
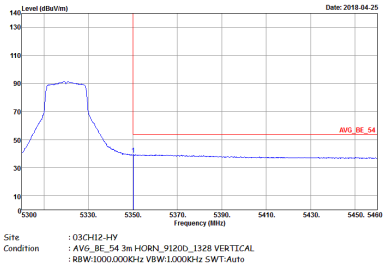
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

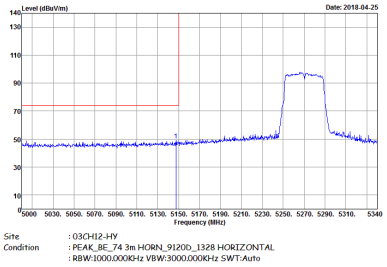
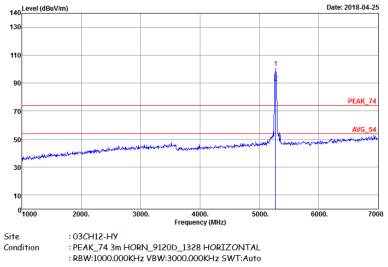
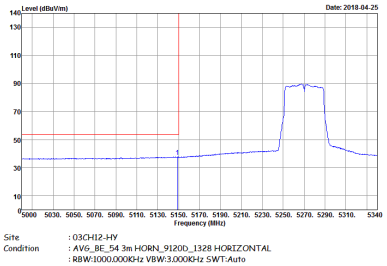
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

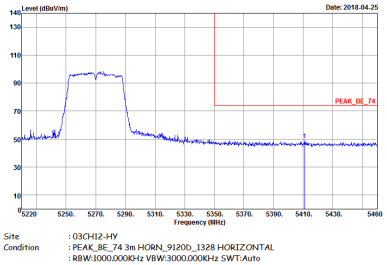
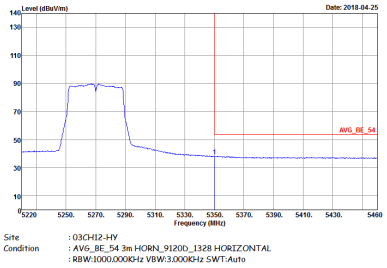
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

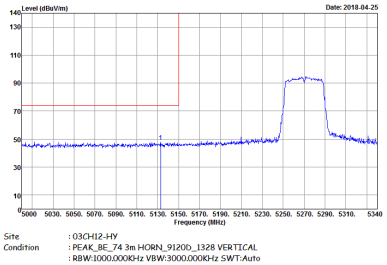
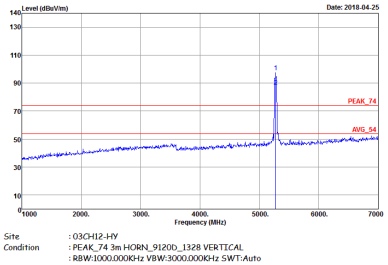
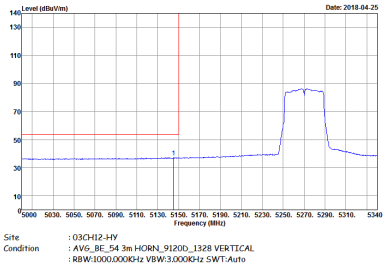
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

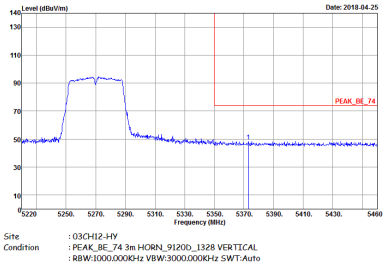
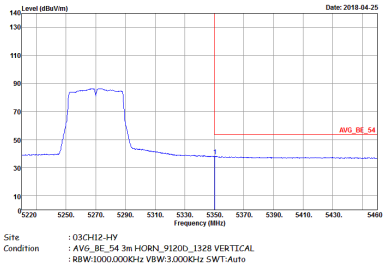
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

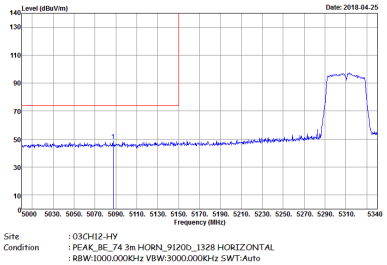
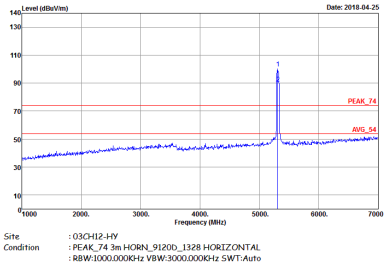
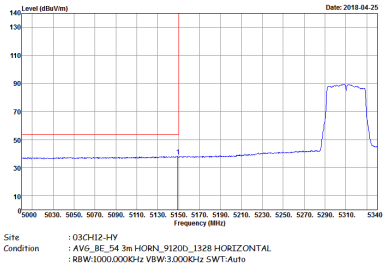
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

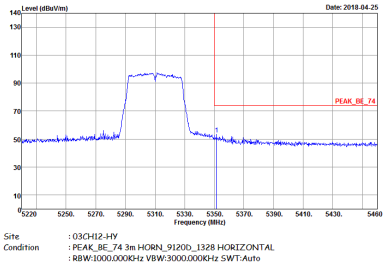
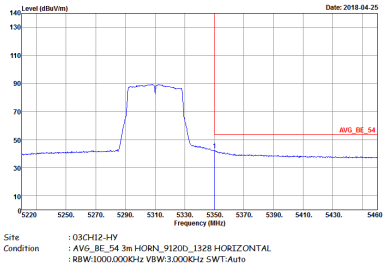
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

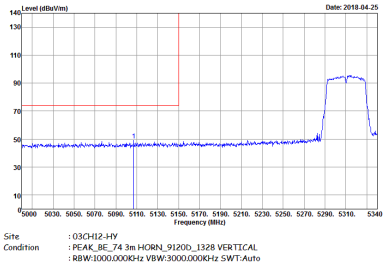
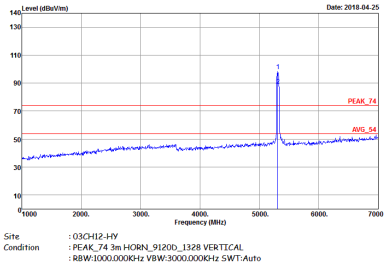
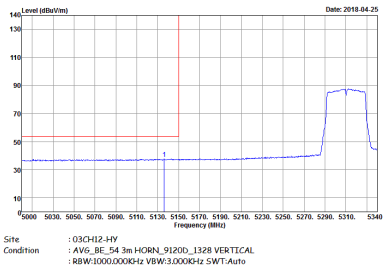
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

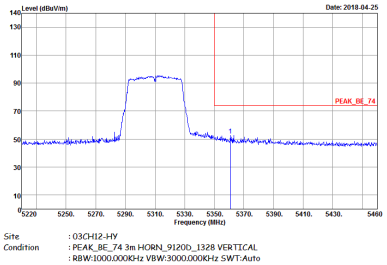
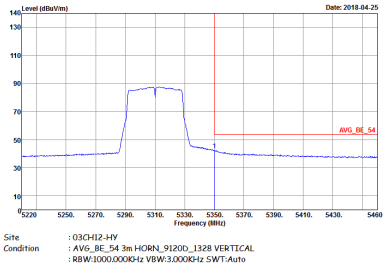
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - R	
1	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

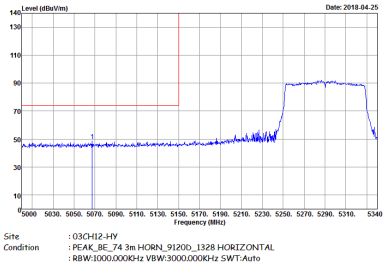
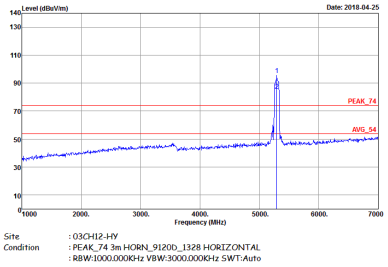
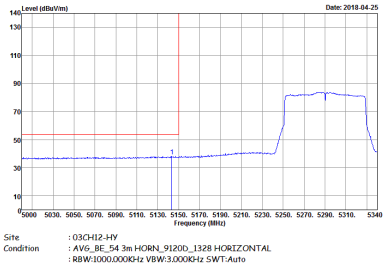
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

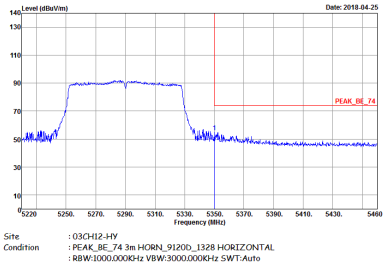
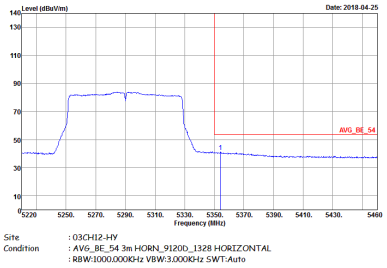
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

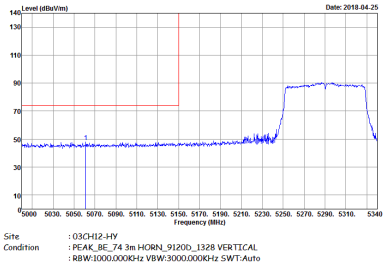
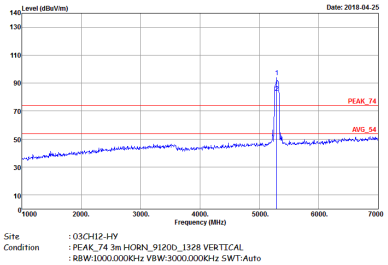
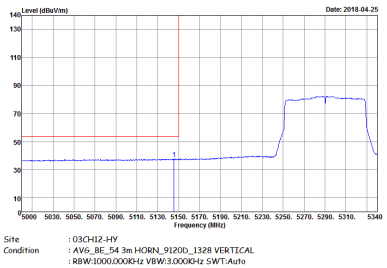
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

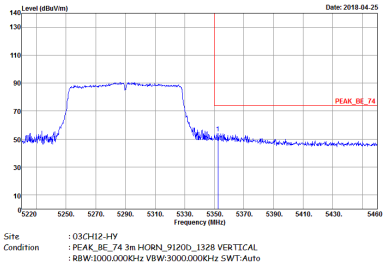
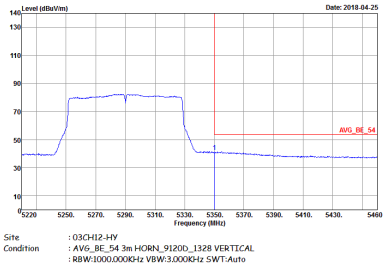
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

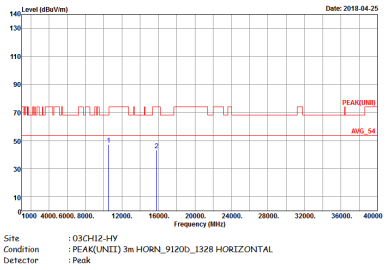
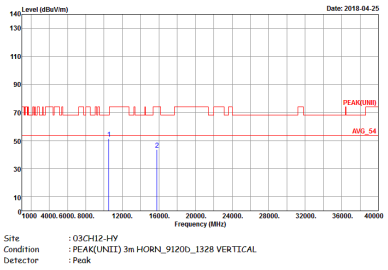
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

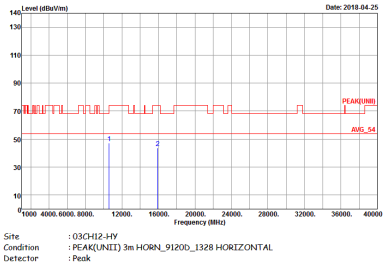
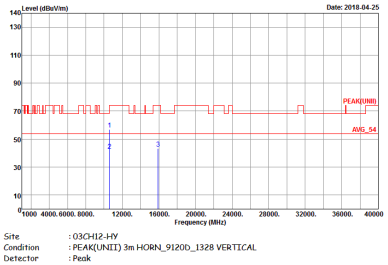
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

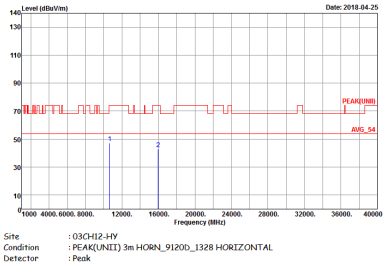
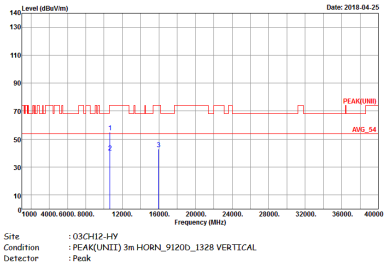
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

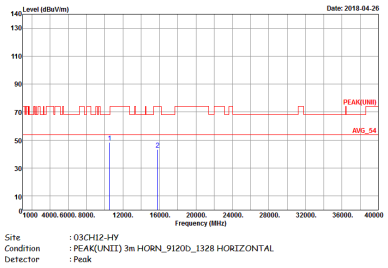
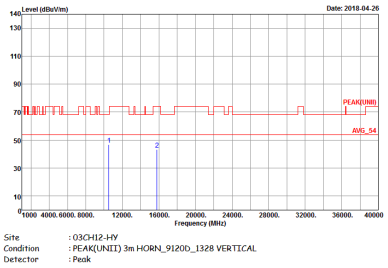
WIFI 802.11a (Harmonic @ 3m)

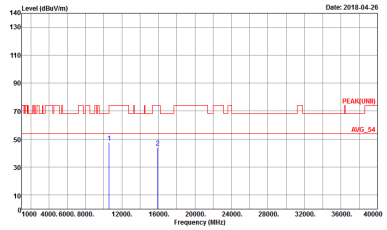
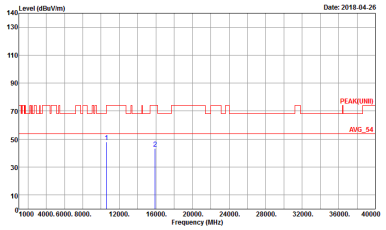
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak		

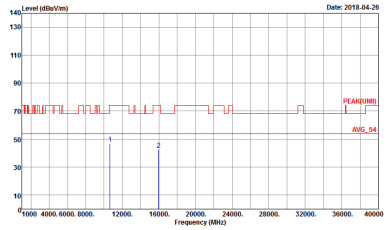
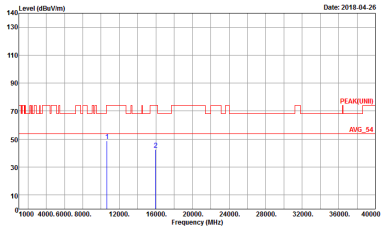
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak		

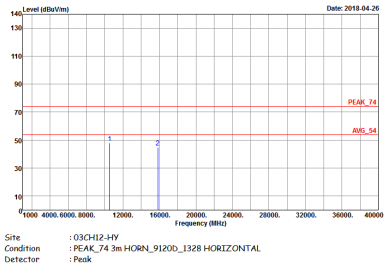
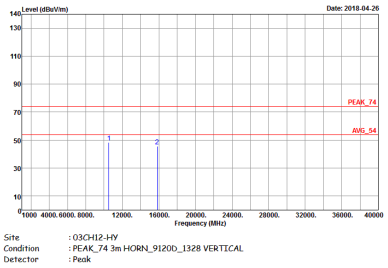
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

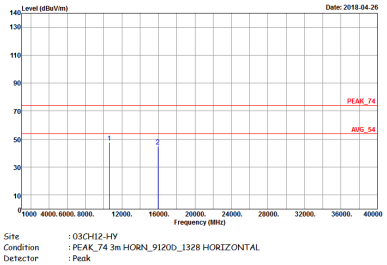
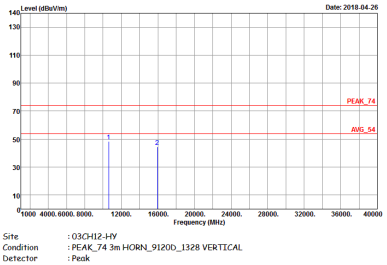
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

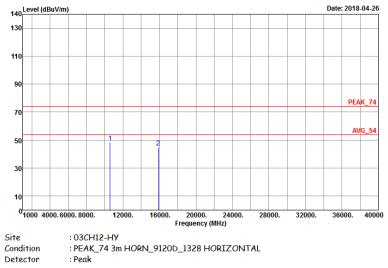
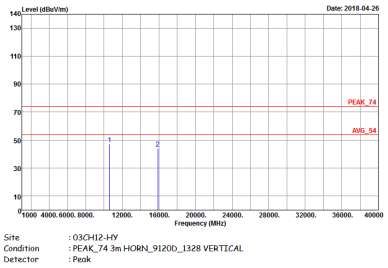
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270 MHz	
1	Horizontal	Vertical
Peak		

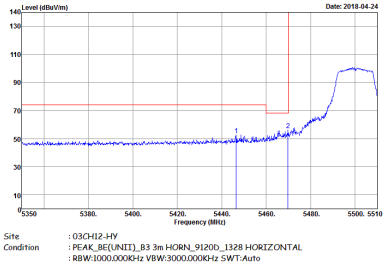
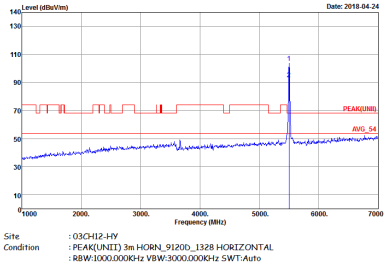
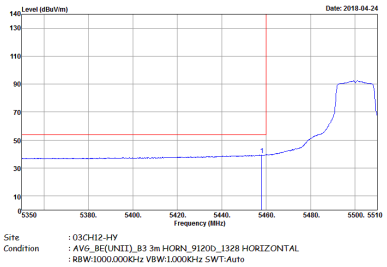
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310 MHz	
1	Horizontal	Vertical
Peak		

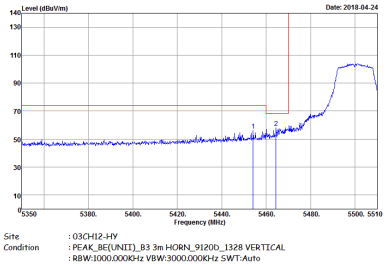
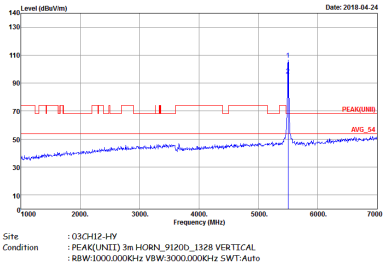
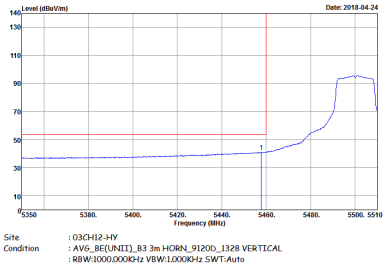
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

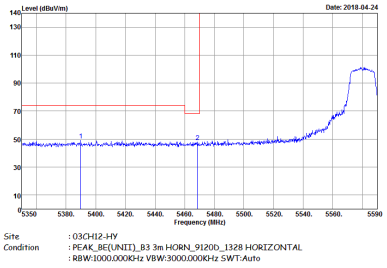
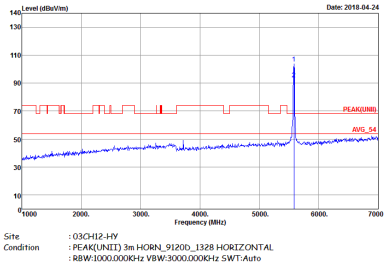
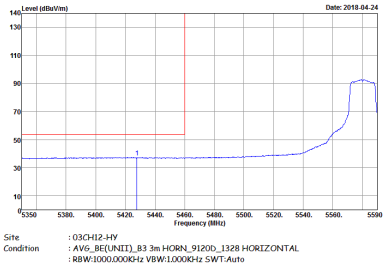
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak		

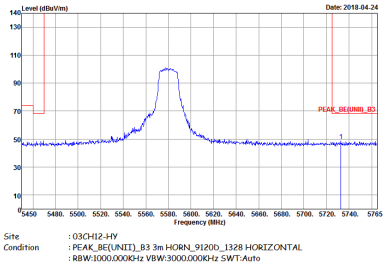
Band 3 - 5470~5725MHz

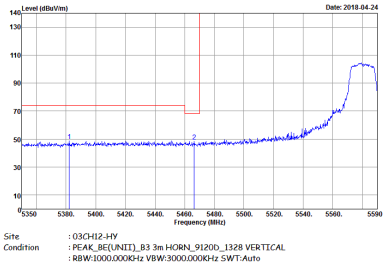
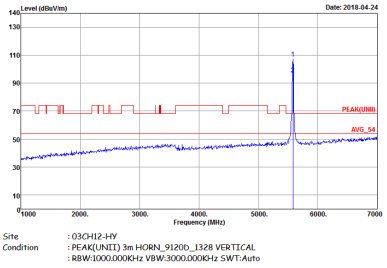
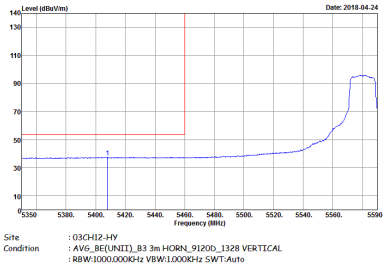
WIFI 802.11a (Band Edge @ 3m)

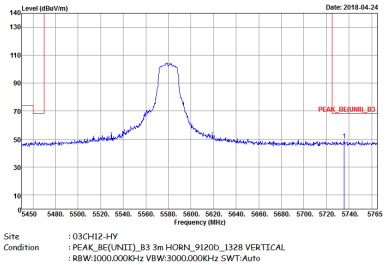
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

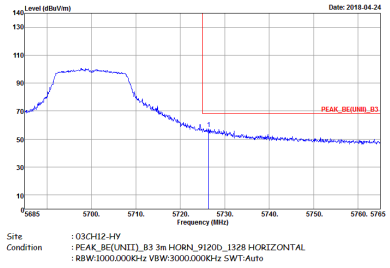
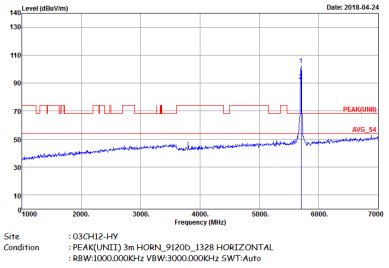
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

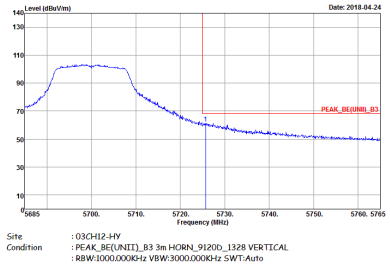
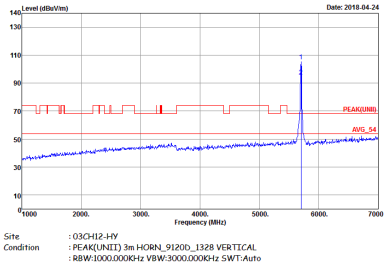
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

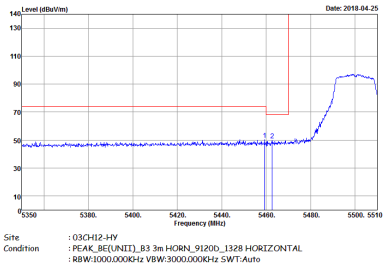
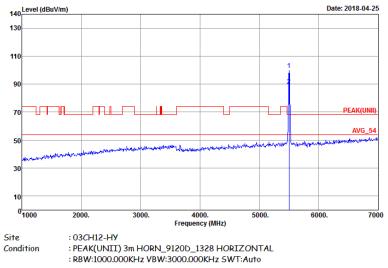
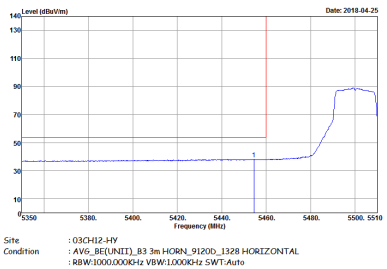
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

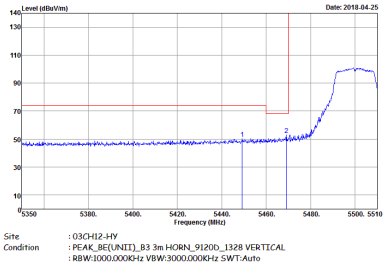
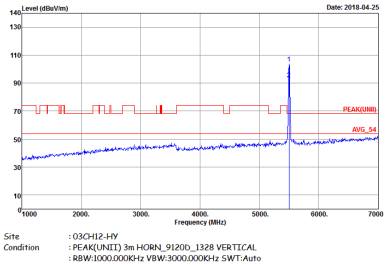
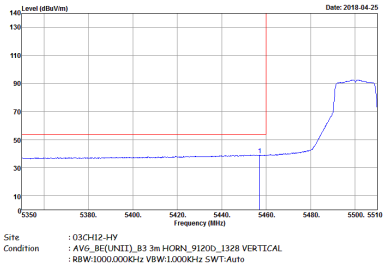
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

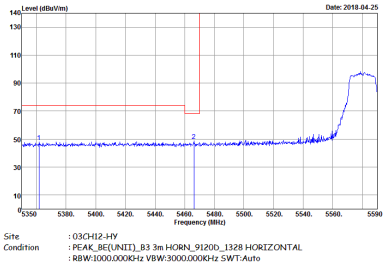
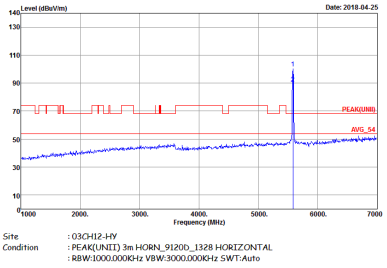
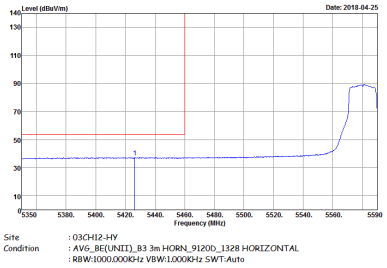
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

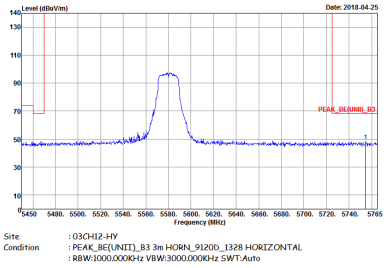
Band 3 5470~5725MHz

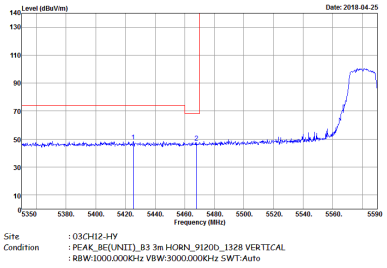
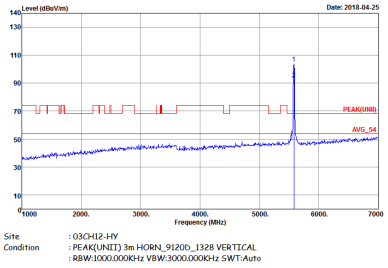
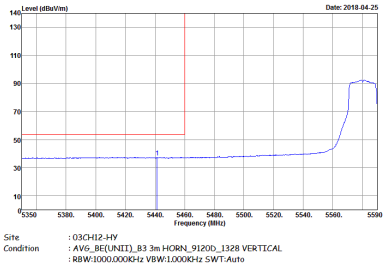
WIFI 802.11n HT20 (Band Edge @ 3m)

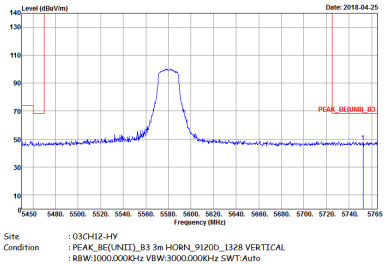
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

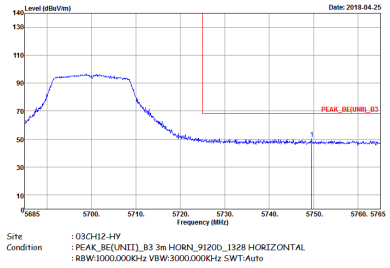
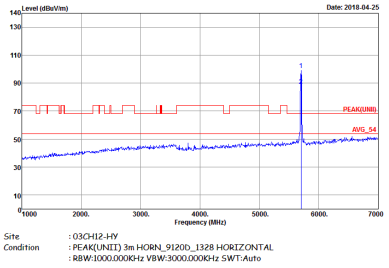
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

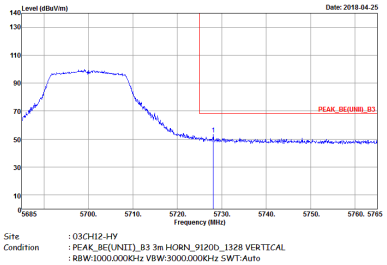
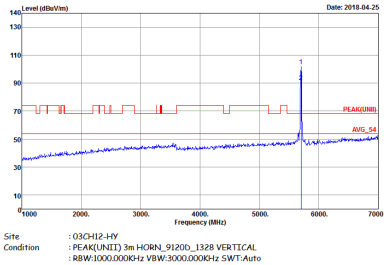
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

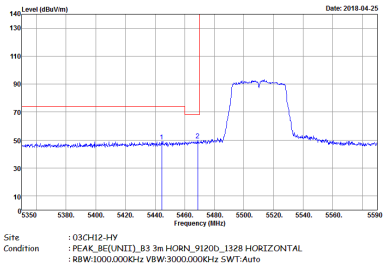
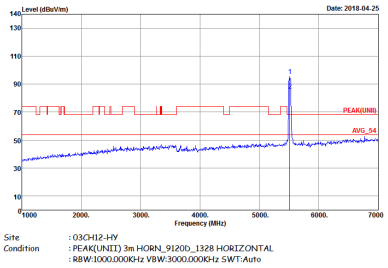
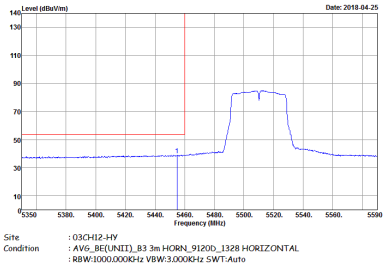
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

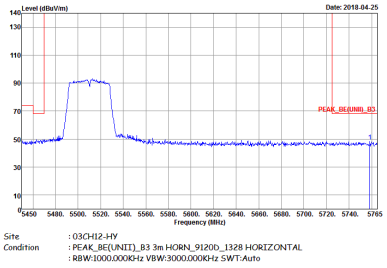
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

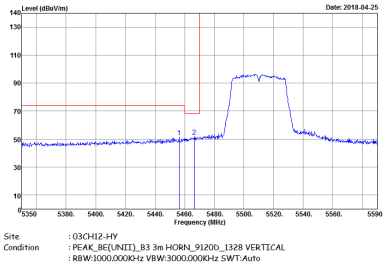
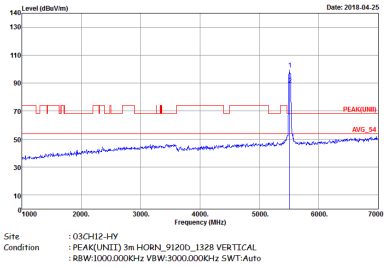
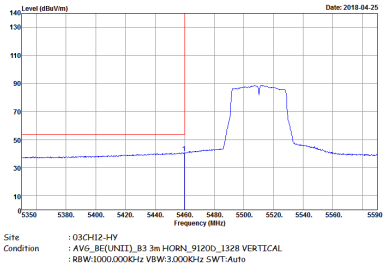
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

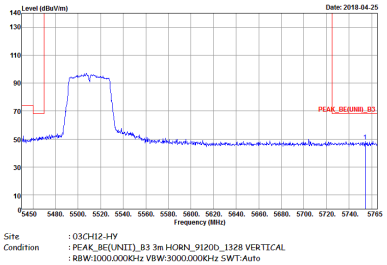
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

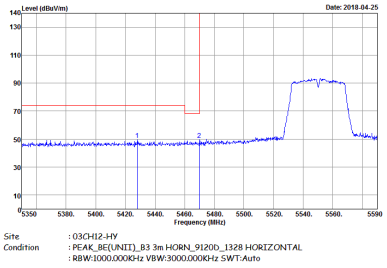
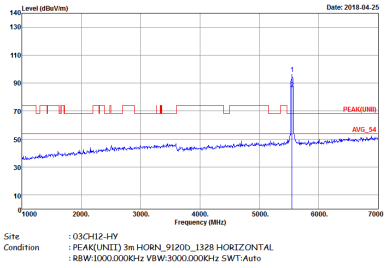
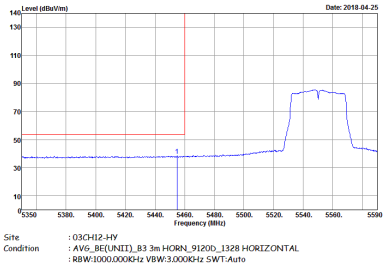
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

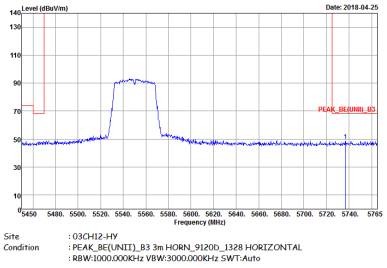
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

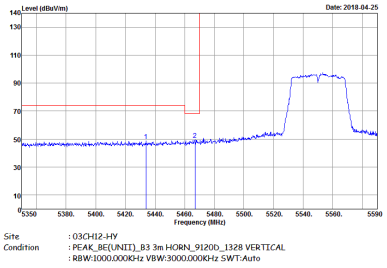
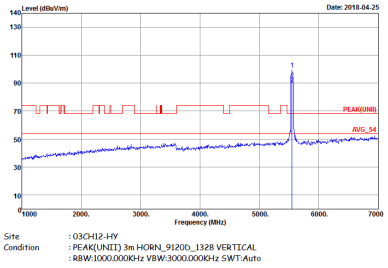
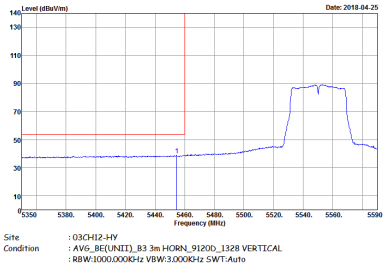
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

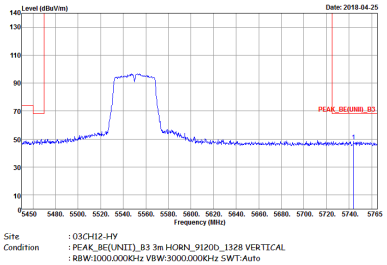
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

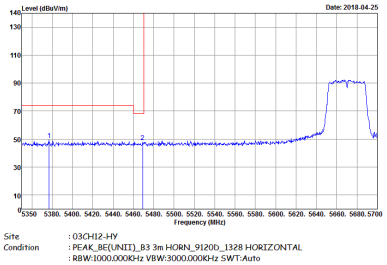
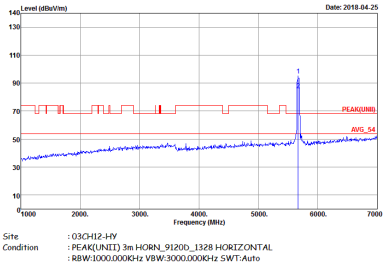
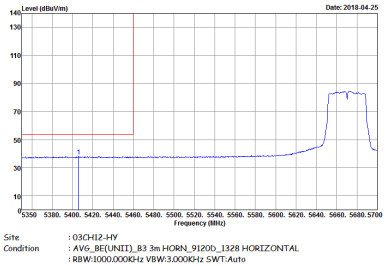
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

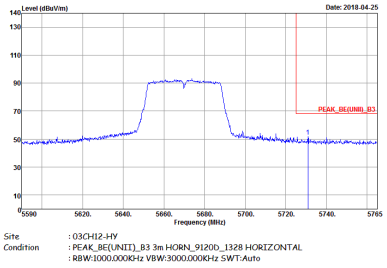
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

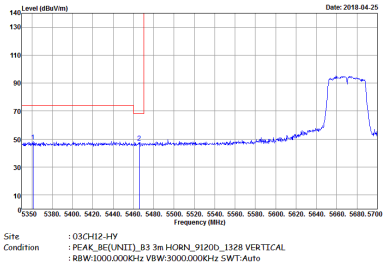
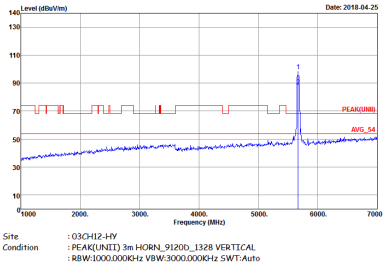
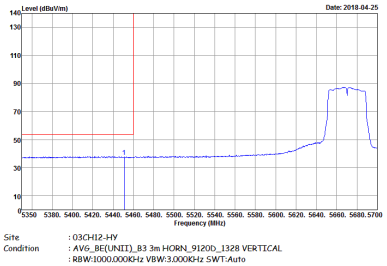
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

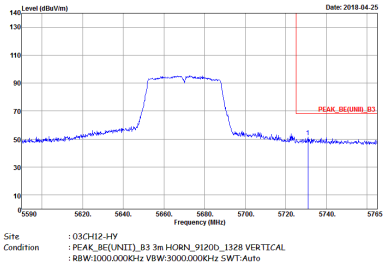
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak		Left blank

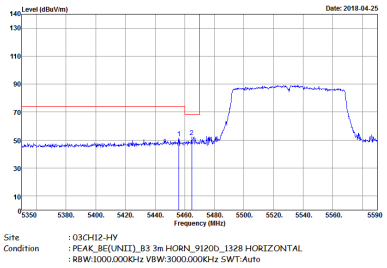
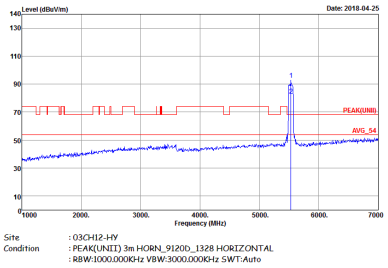
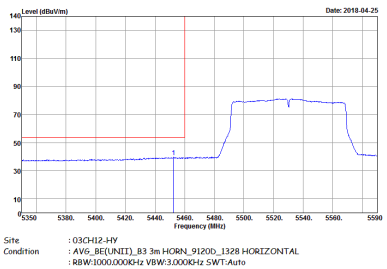
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

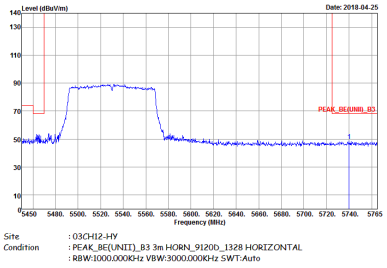
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

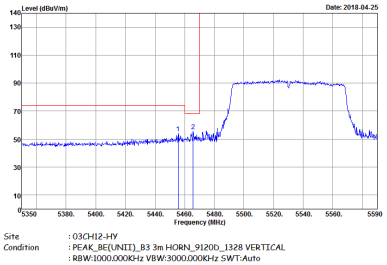
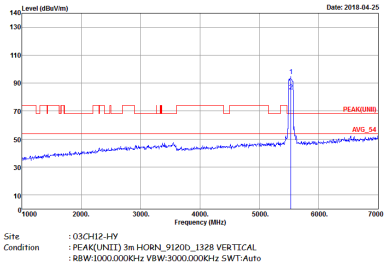
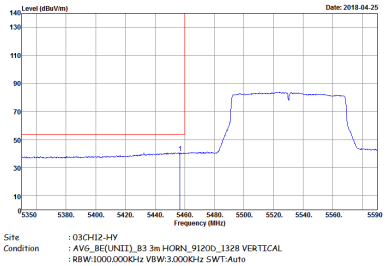
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

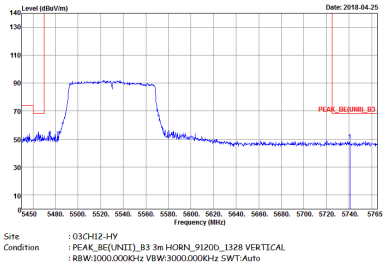
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

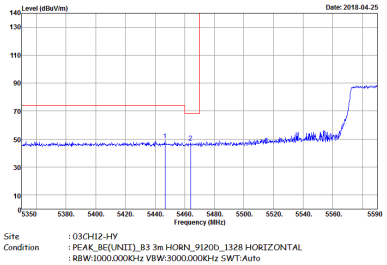
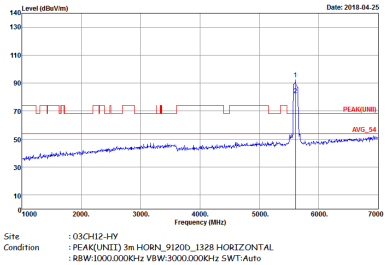
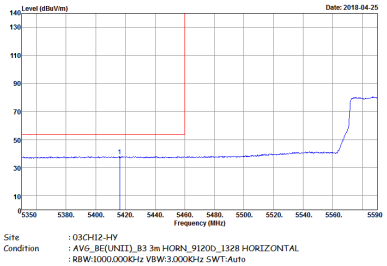
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

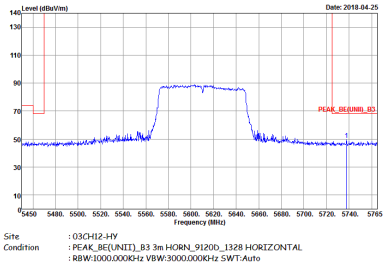
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

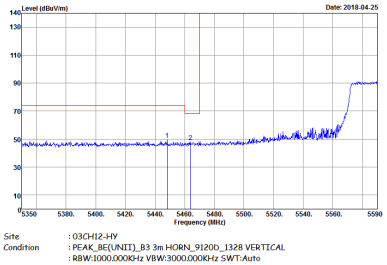
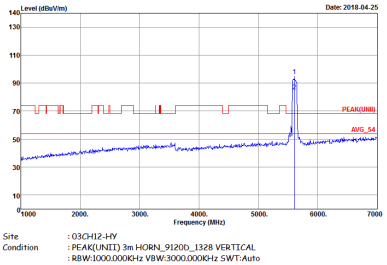
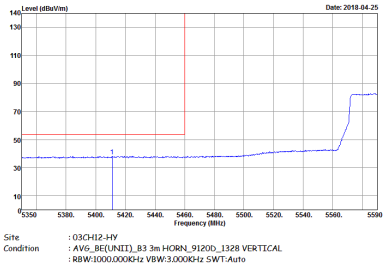
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

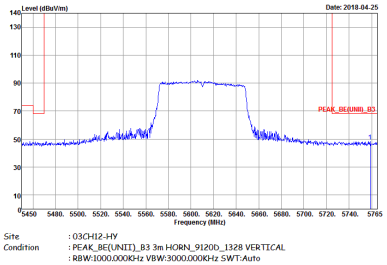
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

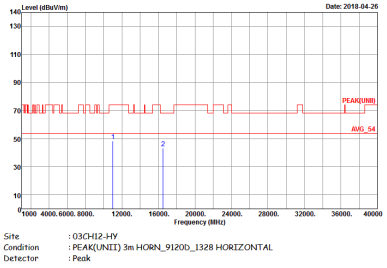
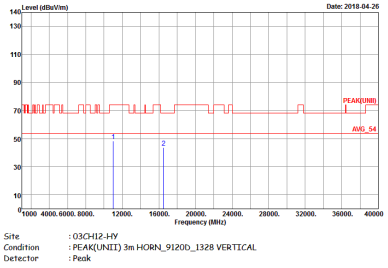
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

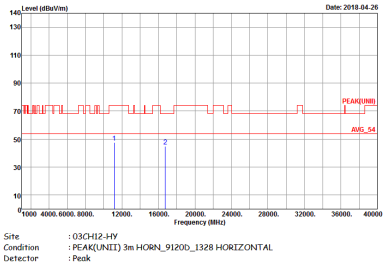
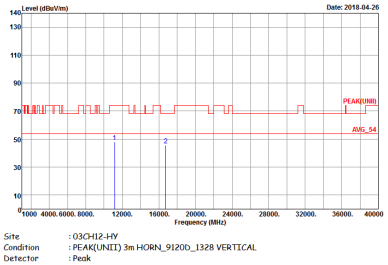
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

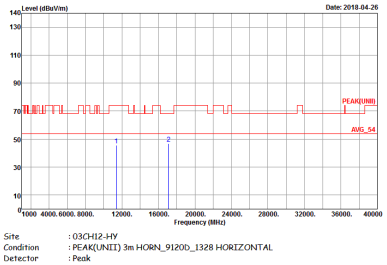
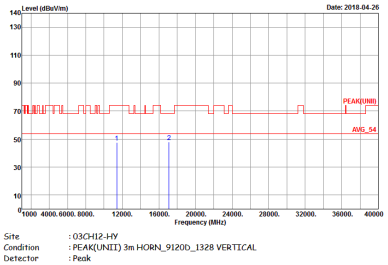
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

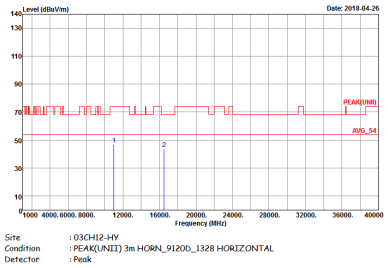
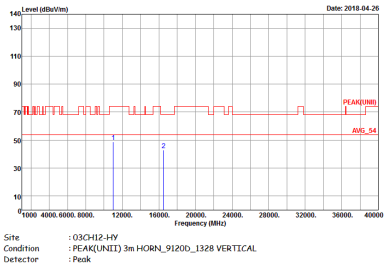
WIFI 802.11a (Harmonic @ 3m)

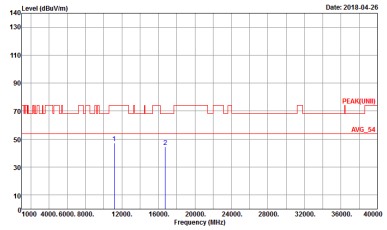
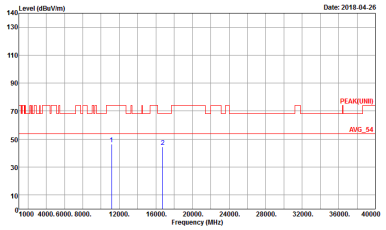
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak		

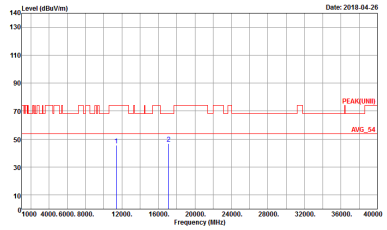
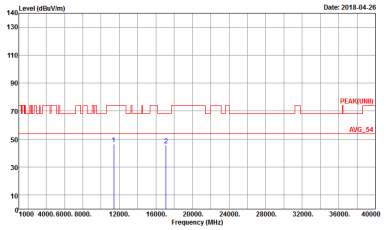
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak		

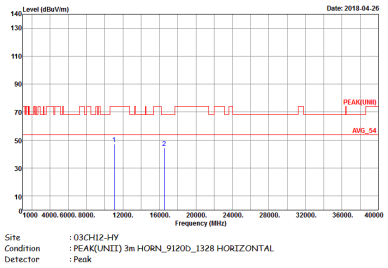
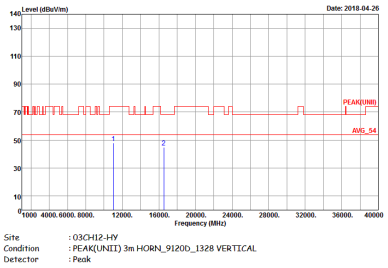
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

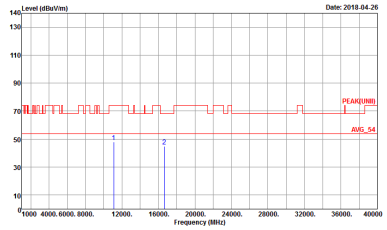
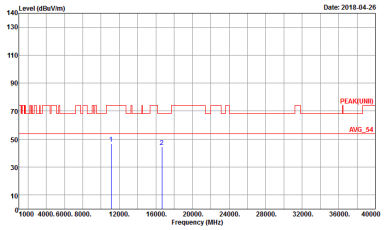
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak		

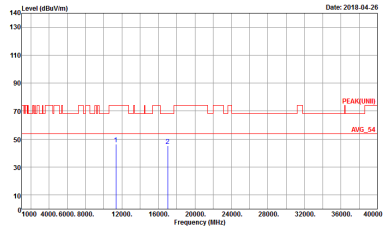
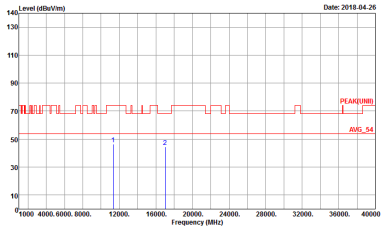
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

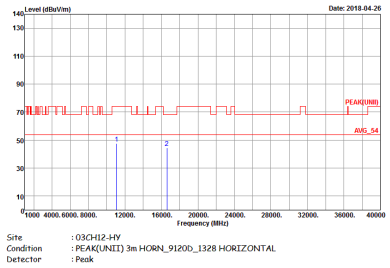
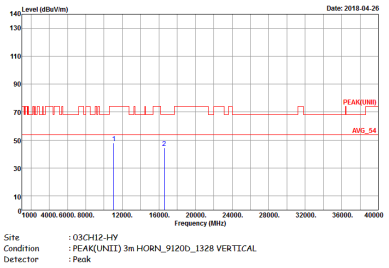
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

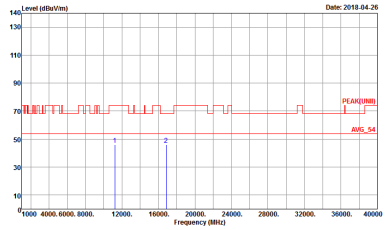
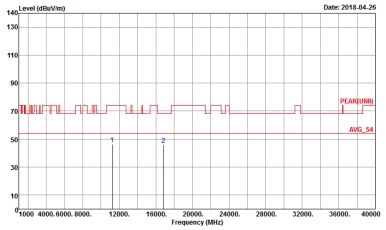
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

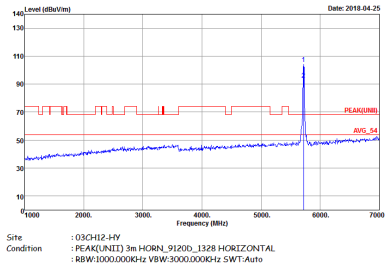
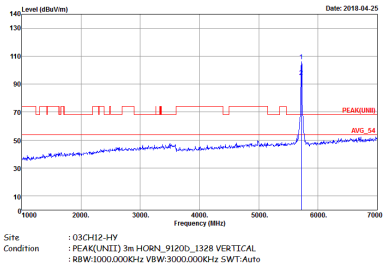
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak

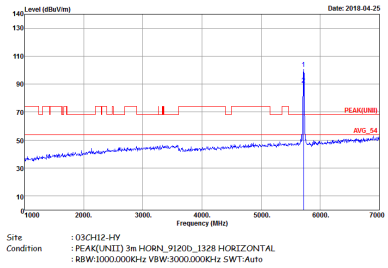
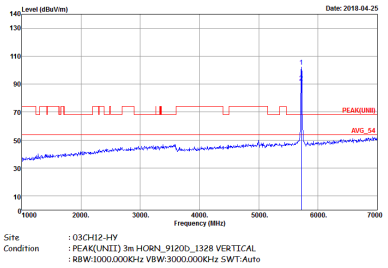
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

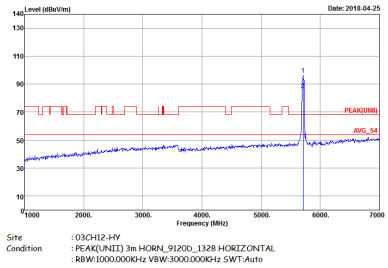
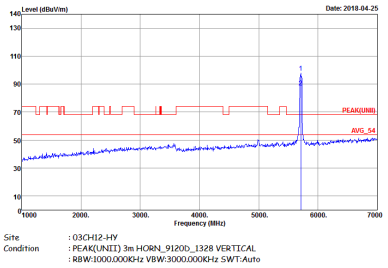
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

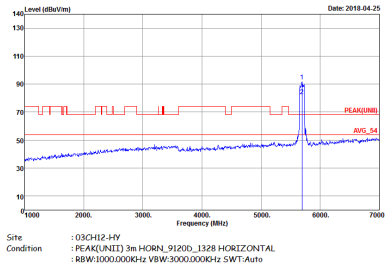
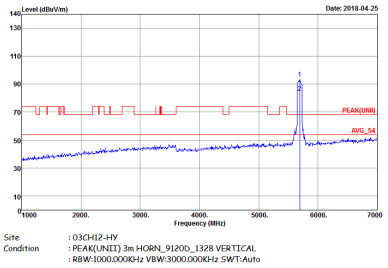
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

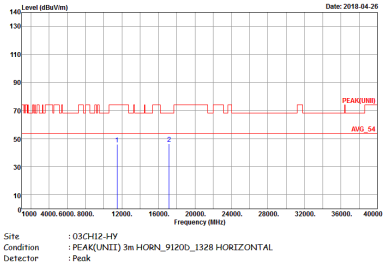
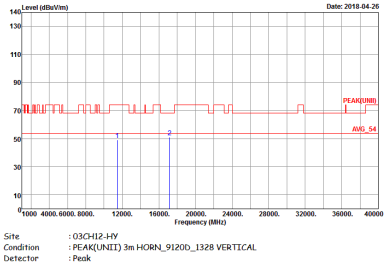
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Fundamental @ 3m)

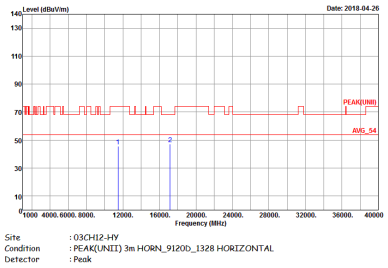
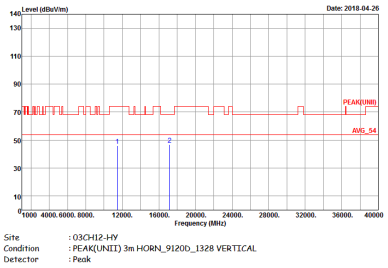
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 - Straddle Channel

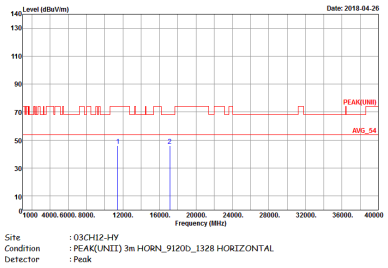
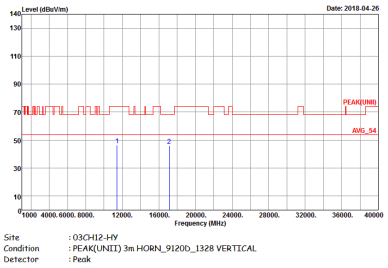
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak		

Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

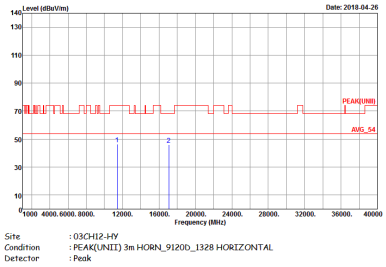
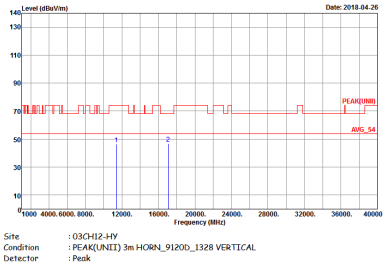
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak		

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak		

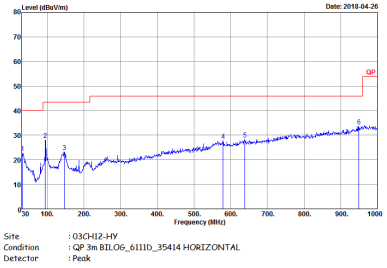
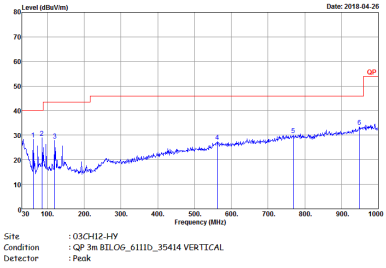
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak		

Emission below 1GHz

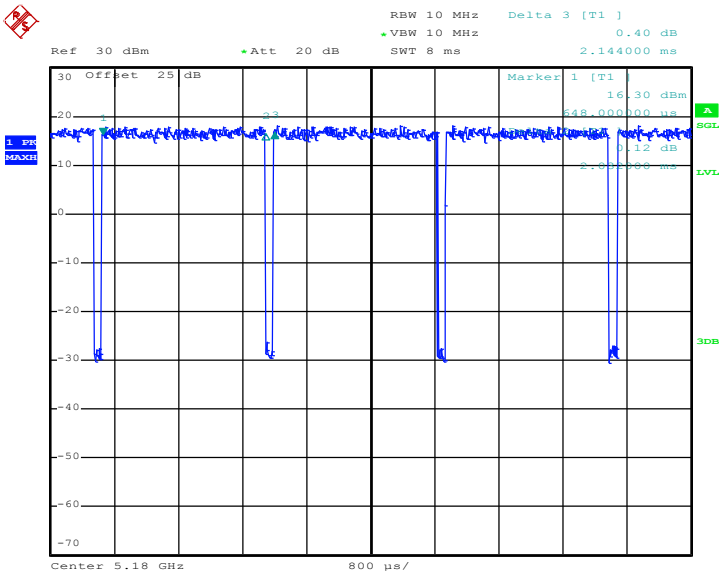
5GHz WIFI 802.11a (LF)

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

Appendix E. Duty Cycle Plots

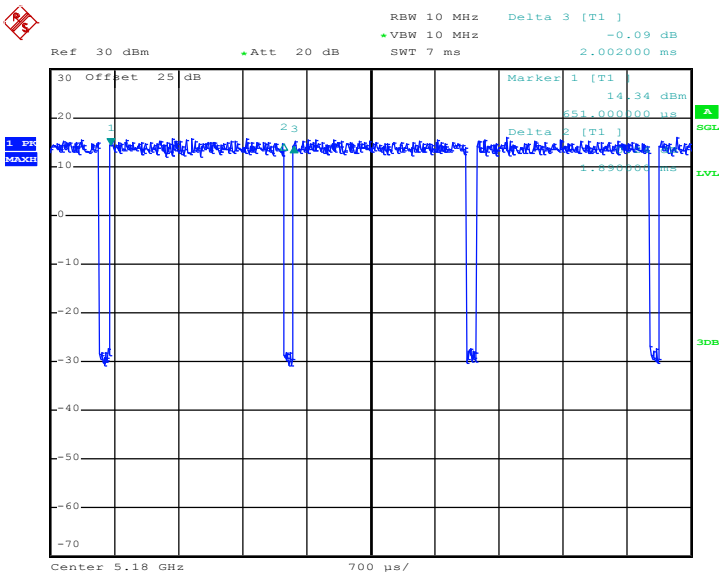
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	94.78	2032	0.49	1kHz	0.23
5GHz 802.11n HT20	94.41	1890	0.53	1kHz	0.25
5GHz 802.11n HT40	89.15	920	1.09	3kHz	0.50
5GHz 802.11ac VHT20	94.44	1904	0.53	1kHz	0.25
5GHz 802.11ac VHT40	90.34	935	1.07	3kHz	0.44
5GHz 802.11ac VHT80	87.77	732	1.37	3kHz	0.57

802.11a



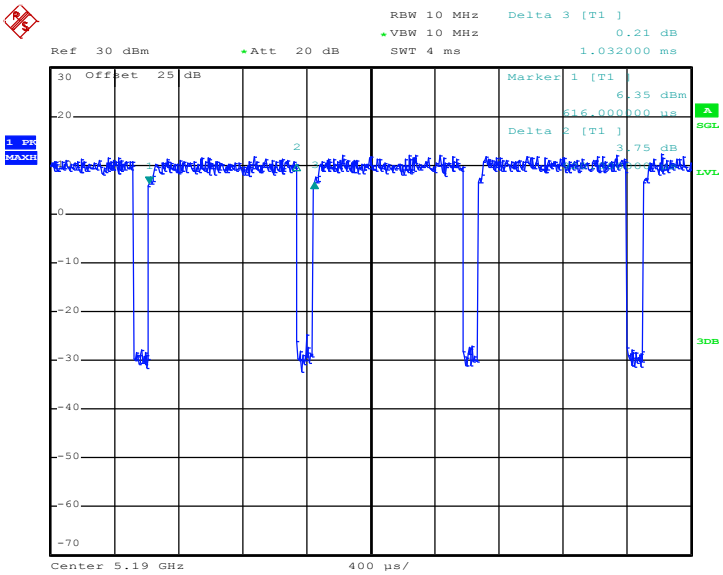
Date: 3.APR.2018 02:56:47

802.11n HT20



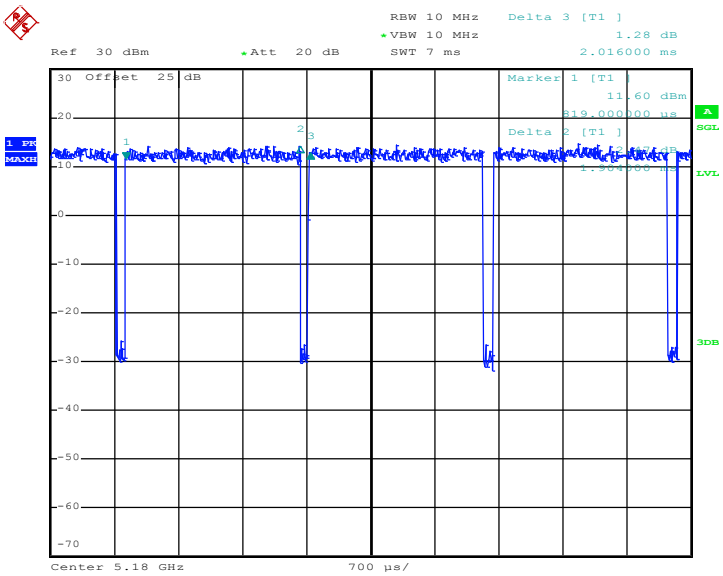
Date: 3.APR.2018 03:18:53

802.11n HT40



Date: 3.APR.2018 03:31:05

802.11ac VHT20



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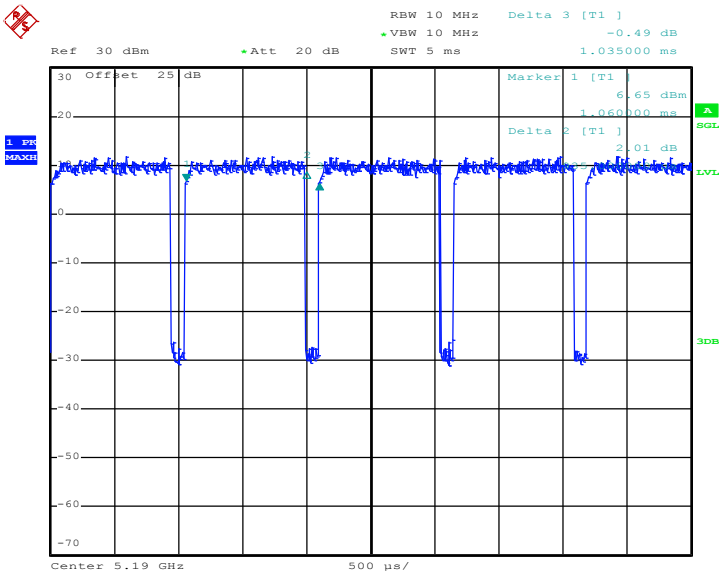
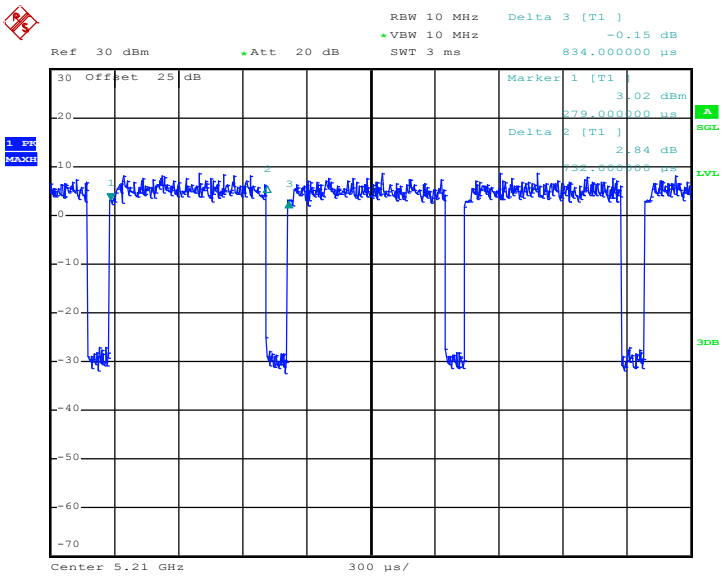
802.11ac VHT40



Date: 3.APR.2018 04:07:30

802.11ac VHT80



Date: 3.APR.2018 04:34:55

THE END