FCC RADIO TEST REPORT

FCC ID	:	**Q3K-5XACULCHG**
Equipment	:	**5 GHz Outdoor PtP/PtMP High Gain Radio Unit**
Brand Name	:	**RADWIN 2000, RADWIN 5000**
Model Name	:	**Alpha INT, SU-Air INT, SU-Pro INT**
Applicant	:	**Radwin Ltd. Habarzel 27 Tel Aviv ISRAEL**
Manufacturer	:	**Radwin Ltd. Habarzel 27 Tel Aviv ISRAEL**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Oct. 31, 2018 and testing was started from Nov. 07, 2018 and completed on Nov. 16, 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 INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Joseph Lin

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

Report No.	Version	Description	Issued Date
FR8O3134D	01	Initial issue of report	Nov. 28, 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 0.14 dB at 5465.680 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.91 dB at 0.463 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.
Comments and Explanations:
None

Reviewed by: Wii Chang

Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

Wireless 2.4GHz and Wireless 5GHz

Product Specification subjective to this standard	
Antenna Type	Wireless 2.4GHz: Printed PCB Antenna Wireless 5GHz: Integrated FP Xpole Antenna

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.**
	03CH13-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.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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

2.1 Carrier Frequency and Channel

Frequency Band	Freq. (MHz)			
5250-5350 MHz Band 2 (U-NII-2A)	5260	5265	5270	5275
	5280	5285	5290	5295
	5300	5305	5310	5315
	5320	5325	5330	

Frequency Band	Freq. (MHz)			
5470-5725 MHz Band 3 (U-NII-2C)	5490	5495	5500	5505
	5510	5515	5520	5525
	5530	5535	5540	5545
	5550	5555	5560	5680
	5685	5690	5695	5700
	5705			

Frequency Band	Freq. (MHz)			
TDWR	5565	5570	5575	5580
	5585	5590	5595	5600
	5605	5610	5615	5620
	5625	5630	5635	5640
	5645	5650	5655	5660
	5665	5670	5675	

2.2 Test Mode

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

MIMO Mode

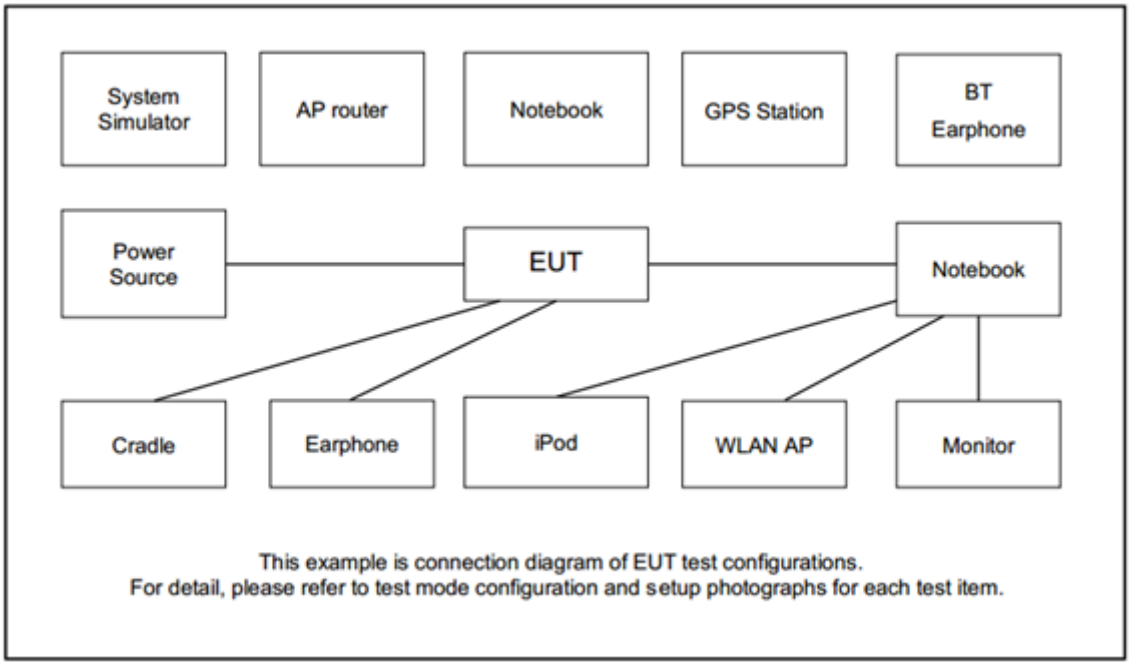
Channel Bandwidth	Data Rate
20 MHz	MCS8
40 MHz	MCS9
80 MHz	MCS9

Test Cases	
AC Conducted Emission	Mode 1 : Wireless (5GHz) Tx + LAN Link + POE Adapter

Band II：5260-5330 MHz				
Freq. (MHz)		20 MHz	40 MHz	80 MHz
L	Low	5260	5270	5290
M	Middle	5300	5300	5295
H	High	5330	5320	5300

Band III：5490-5705 MHz				
Freq. (MHz)		20 MHz	40 MHz	80 MHz
L	Low	5490	5500	5525
M	Middle	5590	5580	5560
H	High	5705	5695	5675

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Vostro	Vostro3360	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m

2.5 EUT Operation Test Setup

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

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.

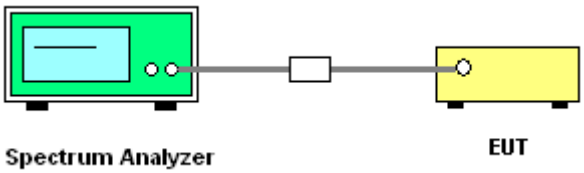
3.1.2 Measuring Instruments

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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

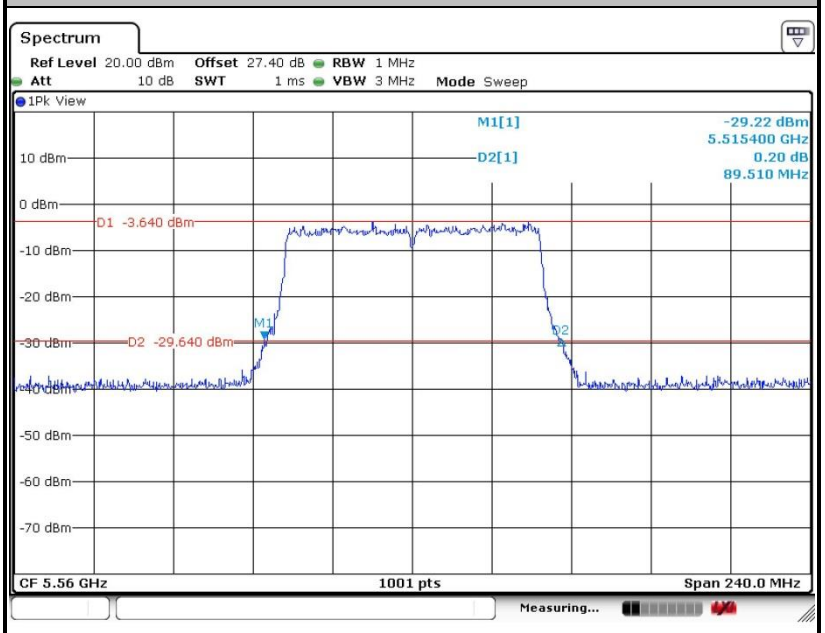
3.1.4 Test Setup



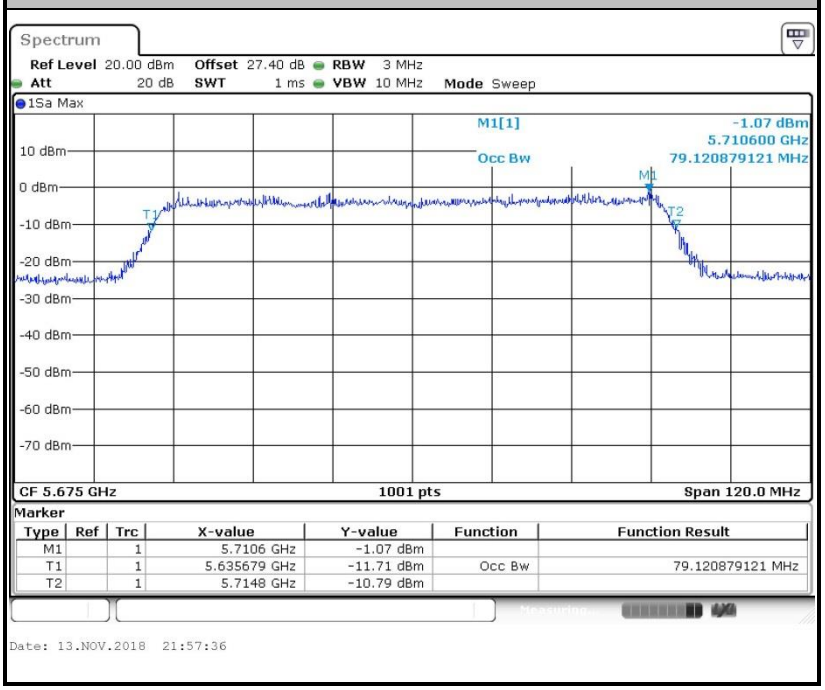
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

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 5.25–5.725 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.

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.

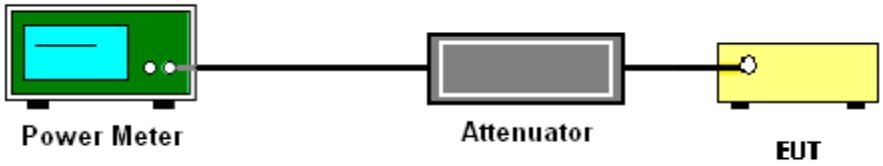
3.2.3 Test Procedures

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.

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 5.25–5.725 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.

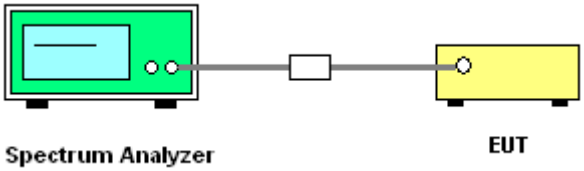
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

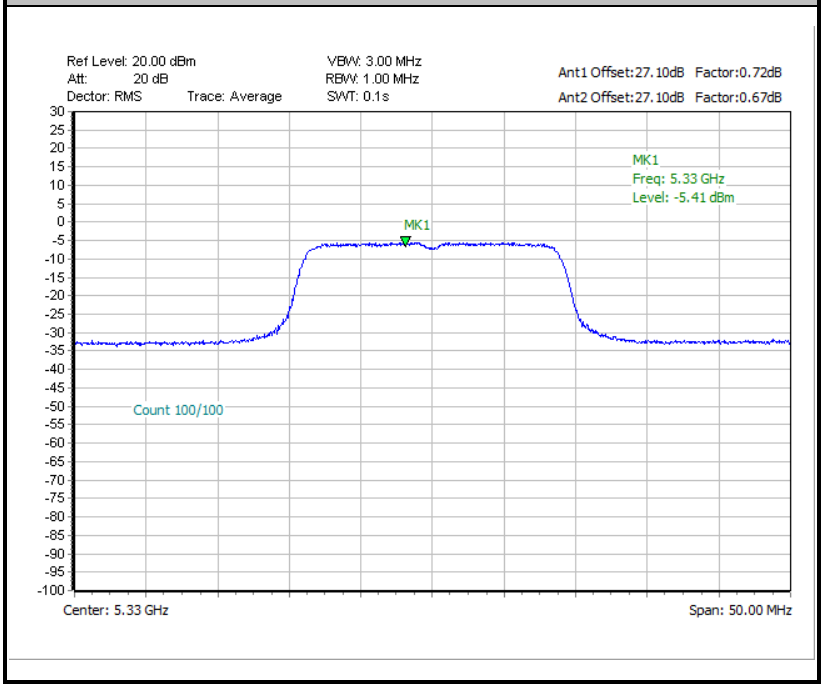
3.3.4 Test Setup



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 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 5470–5725 MHz band: All emissions outside of the 5470–5725 MHz 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/MHz)	Field Strength at 3m (dBμV/m)
- 27	68.23

(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.

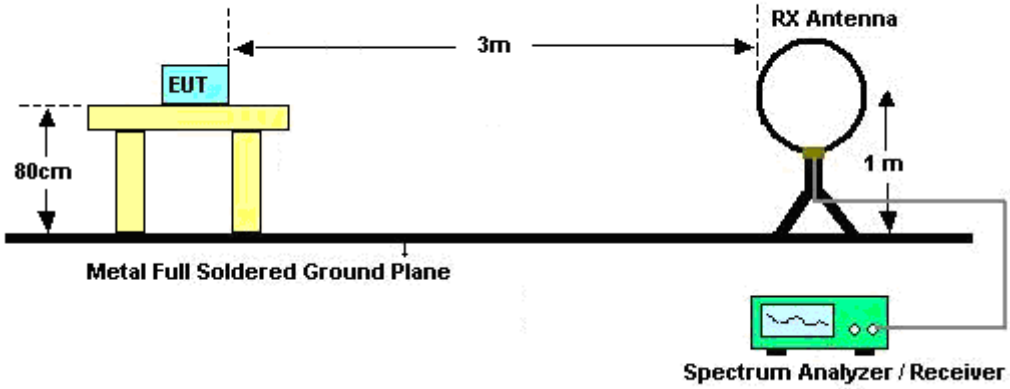
   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (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

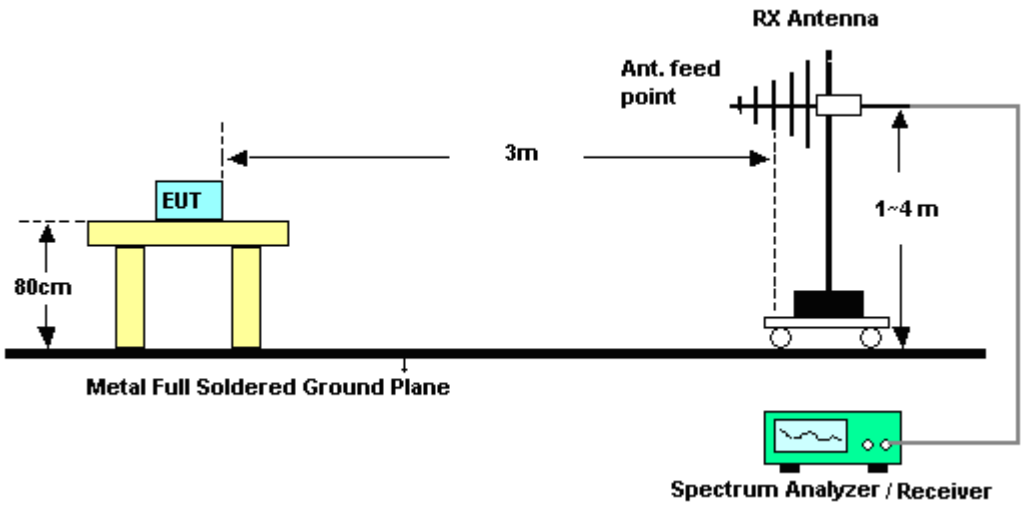
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting 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

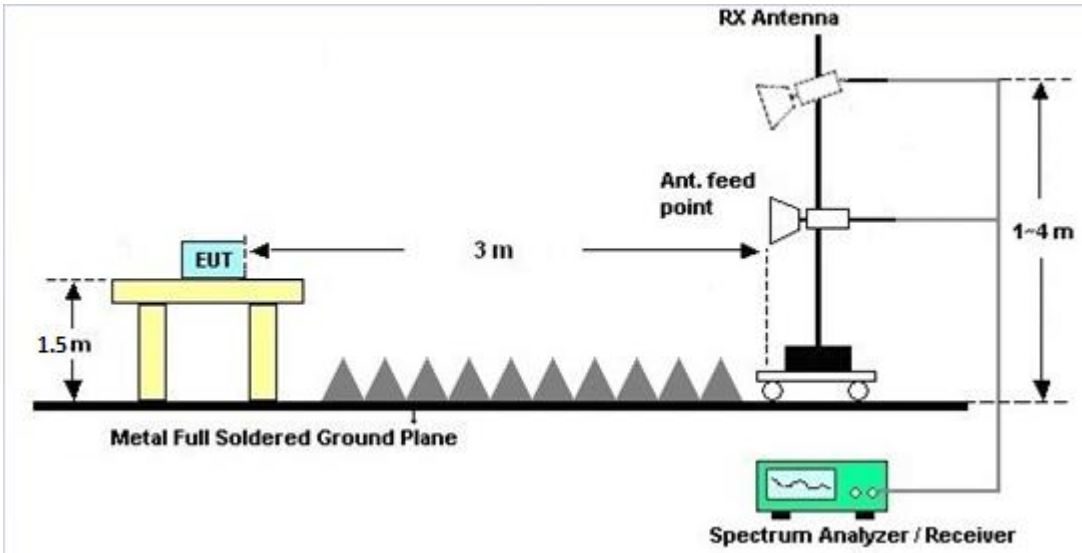
For radiated emissions below 30MHz



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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated 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.

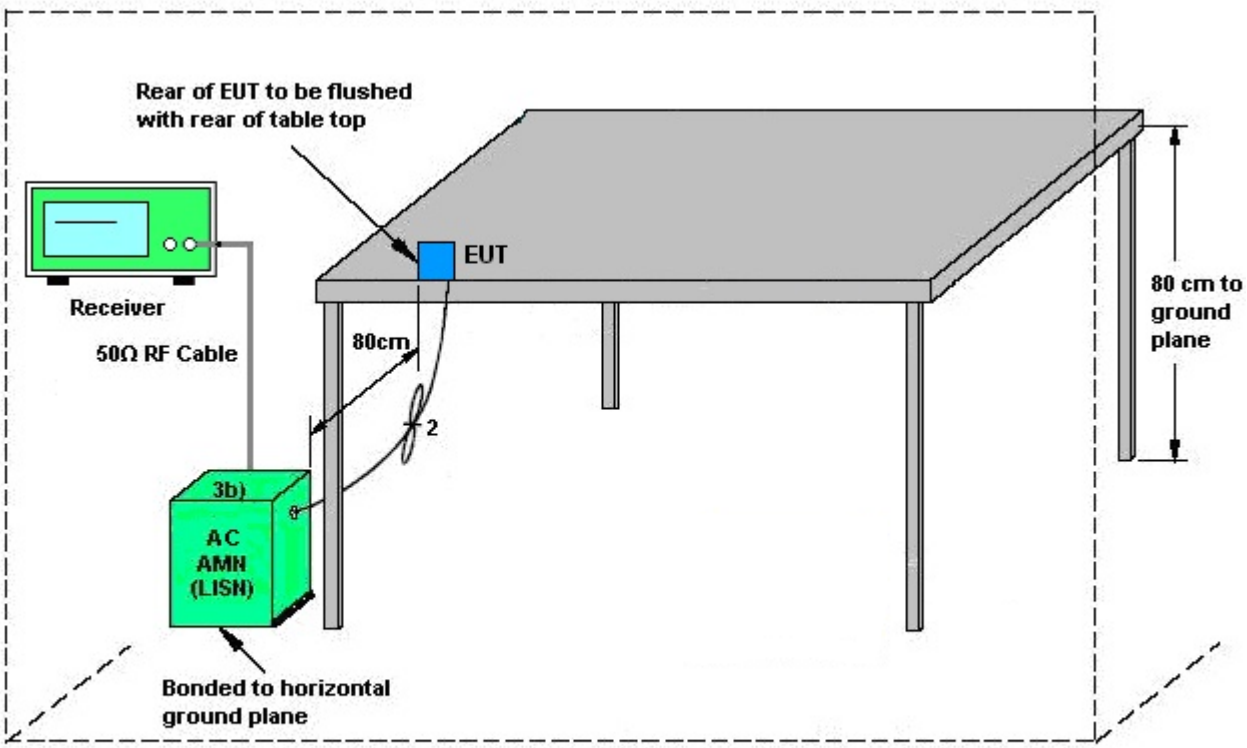
3.5.2 Measuring Instruments

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

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band II	22.00	22.00	22.00	22.00	16.00	16.00
Band III	22.00	22.00	22.00	22.00	16.00	16.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Nov. 07, 2018 ~ Nov. 15, 2018	Nov. 22, 2018	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Jan. 10, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jan. 09, 2019	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jun. 29, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jun. 28, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Nov. 07, 2018 ~ Nov. 15, 2018	Nov. 26, 2018	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Nov. 07, 2018 ~ Nov. 15, 2018	Dec. 20, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 21, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	May 20, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Feb. 02, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Feb. 01, 2019	Radiation (03CH13-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jul. 15, 2019	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 16, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jan. 15, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 15, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Mar. 14, 2019	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 07, 2018 ~ Nov. 15, 2018	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 07, 2018 ~ Nov. 15, 2018	N/A	Radiation (03CH13-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 02, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Nov. 01, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN4	6.75 GHz Highpass	May 22, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	May 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Jan. 22, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	335041/4	30M-18G	Jan. 22, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M~18GHz	Jan. 22, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 14, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Mar. 13, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 14, 2018	Nov. 07, 2018 ~ Nov. 15, 2018	Mar. 13, 2019	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Nov. 07, 2018 ~ Nov. 15, 2018	N/A	Radiation (03CH13-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 08, 2018	Nov. 09, 2018 ~ Nov. 16, 2018	Oct. 07, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 08, 2018	Nov. 09, 2018 ~ Nov. 16, 2018	Oct. 07, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 20, 2018	Nov. 09, 2018 ~ Nov. 16, 2018	Apr. 19, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Nov. 09, 2018 ~ Nov. 16, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 08, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Nov. 08, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Nov. 08, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 08, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Nov. 08, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Nov. 08, 2018	Jan. 02, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

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

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/11/09 ~ 2018/11/16	Relative Humidity:	51~54	%

Report Number : FR8O3134D

TEST RESULTS DATA
26dB and 99% OBW

Band II														
Ch. BW (MHz)	Data Rate	NTX	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	
20	MCS8	2	5260	18.43	18.58	25.67	26.92	23.66		29.66		23.98		
20	MCS8	2	5300	18.58	18.53	25.52	26.07	23.68		29.68		23.98		
20	MCS8	2	5330	18.58	18.68	25.82	25.77	23.69		29.69		23.98		
40	MCS9	2	5270	37.56	37.66	46.12	45.85	23.98		30.00		23.98		
40	MCS9	2	5300	37.76	37.66	46.12	45.76	23.98		30.00		23.98		
40	MCS9	2	5320	37.86	37.56	46.03	45.85	23.98		30.00		23.98		
80	MCS9	2	5290	77.92	78.16	88.55	88.55	23.98		30.00		23.98		
80	MCS9	2	5295	77.92	78.16	88.87	88.07	23.98		30.00		23.98		
80	MCS9	2	5300	78.04	78.16	88.71	88.23	23.98		30.00		23.98		

Report Number : FR8O3134D

TEST RESULTS DATA
Average Power Table

FCC Band II														
Ch. BW (MHz)	Data Rate	NTX	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		
20	MCS8	2	5260	0.72	0.67	2.06	2.68	5.39	7.98		22.00		30	Pass
20	MCS8	2	5300	0.72	0.67	1.92	2.84	5.42	7.98		22.00		30	Pass
20	MCS8	2	5330	0.72	0.67	2.37	2.99	5.70	7.98		22.00		30	Pass
40	MCS9	2	5270	1.00	1.02	4.43	4.77	7.62	7.98		22.00		30	Pass
40	MCS9	2	5300	1.00	1.02	4.15	4.98	7.60	7.98		22.00		30	Pass
40	MCS9	2	5320	1.00	1.02	3.60	4.37	7.01	7.98		22.00		30	Pass
80	MCS9	2	5290	4.60	4.62	4.59	5.00	7.81	7.98		22.00		30	Pass
80	MCS9	2	5295	4.60	4.62	4.54	5.06	7.82	7.98		22.00		30	Pass
80	MCS9	2	5300	4.60	4.62	1.03	2.18	4.65	7.98		22.00		30	Pass

Report Number : FR8O3134D

TEST RESULTS DATA
Power Spectral Density

Band II														
Ch. BW (MHz)	Data Rate	NTX	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		
20	MCS8	2	5260	0.72	0.67			-5.69	-5.00		22.00			Pass
20	MCS8	2	5300	0.72	0.67			-5.65	-5.00		22.00			Pass
20	MCS8	2	5330	0.72	0.67			-5.41	-5.00		22.00			Pass
40	MCS9	2	5270	1.00	1.02			-6.49	-5.00		22.00			Pass
40	MCS9	2	5300	1.00	1.02			-6.58	-5.00		22.00			Pass
40	MCS9	2	5320	1.00	1.02			-7.08	-5.00		22.00			Pass
80	MCS9	2	5290	4.60	4.62			-8.72	-5.00		22.00			Pass
80	MCS9	2	5295	4.60	4.62			-8.72	-5.00		22.00			Pass
80	MCS9	2	5300	4.60	4.62			-11.73	-5.00		22.00			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III													
Ch. BW (MHz)	Data Rate	NTX	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)	
				Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
20	MCS8	2	5490	18.28	18.18	25.83	27.09	23.60		29.60		23.98	
20	MCS8	2	5590	18.18	18.13	25.65	25.65	23.58		29.58		23.98	
20	MCS8	2	5705	18.23	18.23	25.71	25.89	23.61		29.61		23.98	
40	MCS9	2	5500	37.86	37.66	45.55	46.30	23.98		30.00		23.98	
40	MCS9	2	5580	37.46	37.46	46.27	45.91	23.98		30.00		23.98	
40	MCS9	2	5695	40.26	39.46	45.79	45.76	23.98		30.00		23.98	
80	MCS9	2	5525	78.16	78.16	88.07	87.27	23.98		30.00		23.98	
80	MCS9	2	5560	78.52	78.40	89.51	87.99	23.98		30.00		23.98	
80	MCS9	2	5675	79.12	79.12	89.03	88.23	23.98		30.00		23.98	

Report Number : FR8O3134D

TEST RESULTS DATA
Average Power Table

FCC Band III														
Ch. BW (MHz)	Data Rate	NTX	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		
20	MCS8	2	5490	0.72	0.67	2.38	3.05	5.74	7.98		22.00		30	Pass
20	MCS8	2	5590	0.72	0.67	2.79	2.99	5.90	7.98		22.00		30	Pass
20	MCS8	2	5705	0.72	0.67	0.32	1.05	3.71	7.98		22.00		30	Pass
40	MCS9	2	5500	1.00	1.02	4.43	4.83	7.65	7.98		22.00		30	Pass
40	MCS9	2	5580	1.00	1.02	4.61	4.84	7.74	7.98		22.00		30	Pass
40	MCS9	2	5695	1.00	1.02	0.68	1.29	4.01	7.98		22.00		30	Pass
80	MCS9	2	5525	4.60	4.62	4.62	5.27	7.96	7.98		22.00		30	Pass
80	MCS9	2	5560	4.60	4.62	4.49	5.04	7.78	7.98		22.00		30	Pass
80	MCS9	2	5675	4.60	4.62	1.20	1.88	4.56	7.98		22.00		30	Pass

Report Number : FR8O3134D

TEST RESULTS DATA
Power Spectral Density

Band III														
Ch. BW (MHz)	Data Rate	NTX	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		
20	MCS8	2	5490	0.72	0.67			-5.63	-5.00		22.00			Pass
20	MCS8	2	5590	0.72	0.67			-5.59	-5.00		22.00			Pass
20	MCS8	2	5705	0.72	0.67			-7.66	-5.00		22.00			Pass
40	MCS9	2	5500	1.00	1.02			-6.55	-5.00		22.00			Pass
40	MCS9	2	5580	1.00	1.02			-6.28	-5.00		22.00			Pass
40	MCS9	2	5695	1.00	1.02			-10.24	-5.00		22.00			Pass
80	MCS9	2	5525	4.60	4.62			-9.38	-5.00		22.00			Pass
80	MCS9	2	5560	4.60	4.62			-8.75	-5.00		22.00			Pass
80	MCS9	2	5675	4.60	4.62			-11.88	-5.00		22.00			Pass

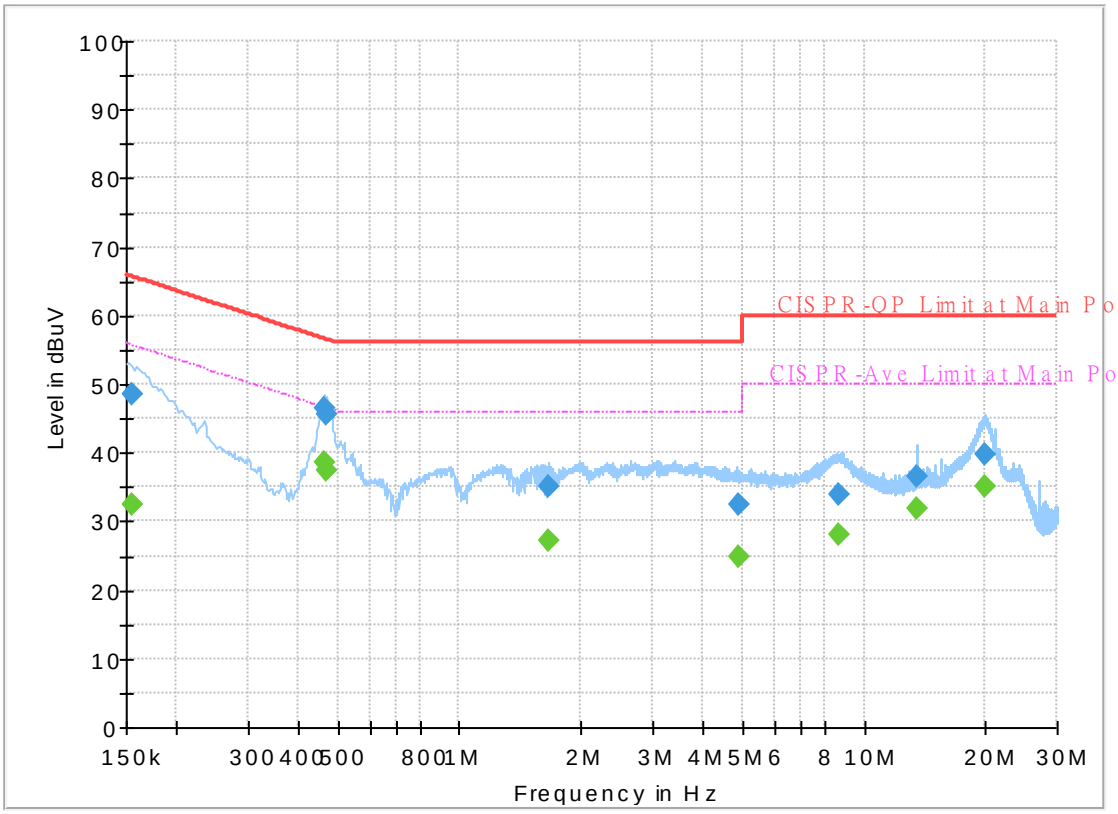
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang and Rick Lin	**Temperature :**	24~26℃
		Relative Humidity :	52~53%

EUT Information

Report NO :	8O3134
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum

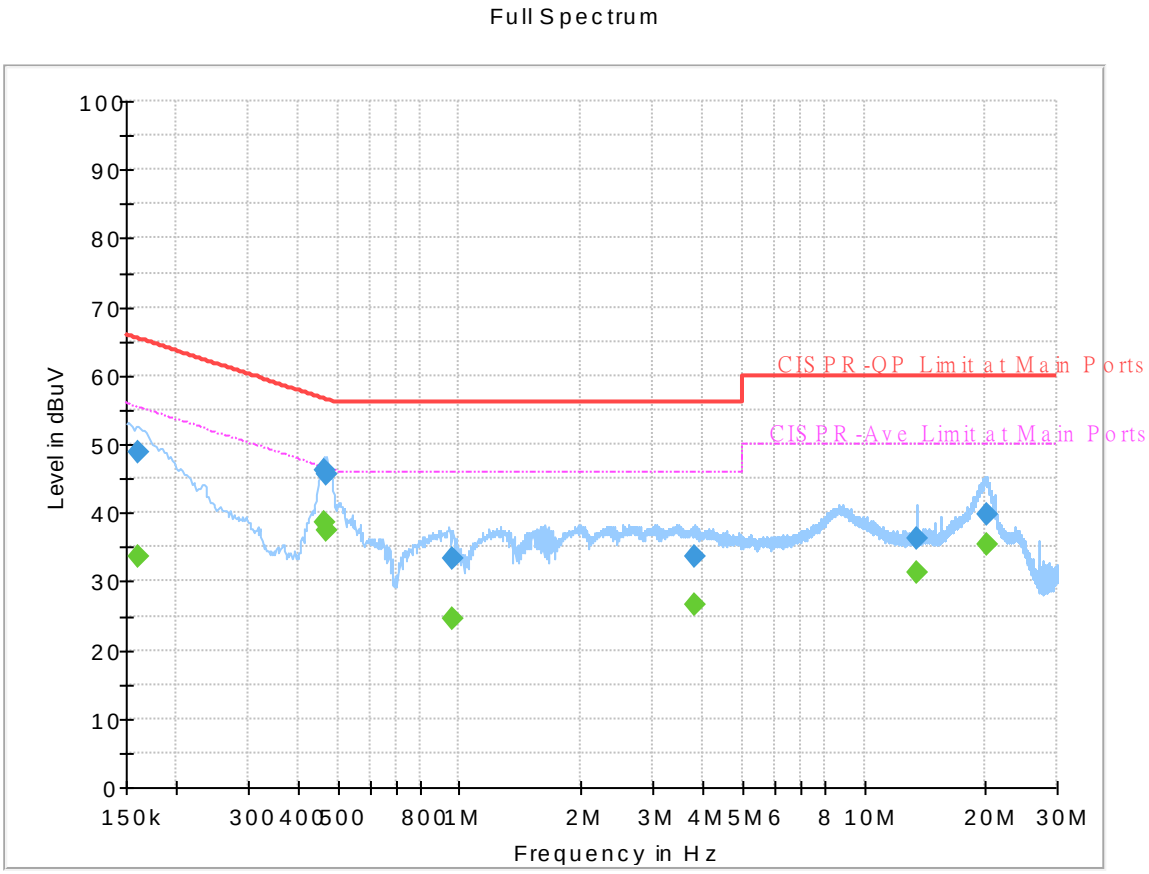


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	32.55	55.75	23.20	L1	OFF	19.5
0.154500	48.60	---	65.75	17.15	L1	OFF	19.5
0.462750	---	38.73	46.64	7.91	L1	OFF	19.5
0.462750	46.37	---	56.64	10.27	L1	OFF	19.5
0.469500	---	37.52	46.52	9.00	L1	OFF	19.5
0.469500	45.72	---	56.52	10.80	L1	OFF	19.5
1.655250	---	27.09	46.00	18.91	L1	OFF	19.6
1.655250	35.07	---	56.00	20.93	L1	OFF	19.6
4.913250	---	24.87	46.00	21.13	L1	OFF	19.6
4.913250	32.53	---	56.00	23.47	L1	OFF	19.6
8.704500	---	28.01	50.00	21.99	L1	OFF	19.7
8.704500	34.04	---	60.00	25.96	L1	OFF	19.7
13.560000	---	31.82	50.00	18.18	L1	OFF	19.7
13.560000	36.52	---	60.00	23.48	L1	OFF	19.7
19.828500	---	35.11	50.00	14.89	L1	OFF	19.8
19.828500	39.79	---	60.00	20.21	L1	OFF	19.8

EUT Information

Report NO :	8O3134
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	33.55	55.40	21.85	N	OFF	19.5
0.161250	48.93	---	65.40	16.47	N	OFF	19.5
0.462750	---	38.62	46.64	8.02	N	OFF	19.5
0.462750	46.18	---	56.64	10.46	N	OFF	19.5
0.469500	---	37.48	46.52	9.04	N	OFF	19.5
0.469500	45.55	---	56.52	10.97	N	OFF	19.5
0.962250	---	24.52	46.00	21.48	N	OFF	19.5
0.962250	33.36	---	56.00	22.64	N	OFF	19.5
3.797250	---	26.73	46.00	19.27	N	OFF	19.6
3.797250	33.71	---	56.00	22.29	N	OFF	19.6
13.560000	---	31.23	50.00	18.77	N	OFF	19.8
13.560000	36.22	---	60.00	23.78	N	OFF	19.8
20.073750	---	35.40	50.00	14.60	N	OFF	19.9
20.073750	39.91	---	60.00	20.09	N	OFF	19.9

Appendix C. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Fu Chen, and Wilson Wu	Temperature :	24~25°C
		Relative Humidity :	50~51%

Band 2 - 5250~5350MHz

Channel Bandwidth 20 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 20 MHz 5260MHz		5143.48	60.64	-13.36	74	50.33	31.69	8.17	29.55	170	2	P	H
		5120.02	47.93	-6.07	54	37.67	31.67	8.14	29.55	170	2	A	H
	*	5260	119.01	-	-	108.55	31.76	8.26	29.56	170	2	P	H
	*	5260	111.81	-	-	101.35	31.76	8.26	29.56	170	2	A	H
		5363.76	63.32	-10.68	74	52.77	31.82	8.3	29.57	170	2	P	H
		5439.84	51.32	-2.68	54	40.62	31.86	8.42	29.58	170	2	A	H
		5125.46	59.06	-14.94	74	48.78	31.68	8.15	29.55	175	0	P	V
		5136	47.28	-6.72	54	36.99	31.68	8.16	29.55	175	0	A	V
	*	5260	118.44	-	-	107.98	31.76	8.26	29.56	175	0	P	V
	*	5260	110.67	-	-	100.21	31.76	8.26	29.56	175	0	A	V
		5352.24	60.79	-13.21	74	50.26	31.81	8.29	29.57	175	0	P	V
		5376	53.17	-0.83	54	42.63	31.82	8.3	29.58	175	0	A	V
Ch. BW 20 MHz 5300MHz		5108.12	54.2	-19.8	74	43.94	31.67	8.13	29.54	171	1	P	H
		5120.02	44.49	-9.51	54	34.23	31.67	8.14	29.55	171	1	A	H
	*	5300	118.04	-	-	107.56	31.78	8.27	29.57	171	1	P	H
	*	5300	110.46	-	-	99.98	31.78	8.27	29.57	171	1	A	H
		5351.52	61.29	-12.71	74	50.76	31.81	8.29	29.57	171	1	P	H
		5439.84	48.38	-5.62	54	37.68	31.86	8.42	29.58	171	1	A	H
		5121.72	57.18	-16.82	74	46.92	31.67	8.14	29.55	174	0	P	V
		5136	45.84	-8.16	54	35.55	31.68	8.16	29.55	174	0	A	V
	*	5300	119.26	-	-	108.78	31.78	8.27	29.57	174	0	P	V
	*	5300	110.54	-	-	100.06	31.78	8.27	29.57	174	0	A	V
		5362.08	64.39	-9.61	74	53.84	31.82	8.3	29.57	174	0	P	V
		5376	51.66	-2.34	54	41.12	31.82	8.3	29.58	174	0	A	V

Ch. BW 20 MHz 5330MHz	*	5330	115.13	-	-	104.61	31.8	8.29	29.57	177	2	P	H
	*	5330	107.56	-	-	97.04	31.8	8.29	29.57	177	2	A	H
		5351.2	62.08	-11.92	74	51.55	31.81	8.29	29.57	177	2	P	H
		5350.4	52.26	-1.74	54	41.73	31.81	8.29	29.57	177	2	A	H
													H
													H
	*	5330	114.59	-	-	104.07	31.8	8.29	29.57	177	0	P	V
	*	5330	107.09	-	-	96.57	31.8	8.29	29.57	177	0	A	V
		5350.72	70.13	-3.87	74	59.6	31.81	8.29	29.57	177	0	P	V
		5350.24	53.01	-0.99	54	42.48	31.81	8.29	29.57	177	0	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

Channel Bandwidth 20 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 20 MHz 5260MHz		10520	48.5	-19.7	68.2	52.97	40.02	12.39	56.88	100	0	P	H
		15780	50.79	-23.21	74	54.39	38.04	14.72	56.36	399	0	P	H
		15780	38.33	-15.67	54	41.93	38.04	14.72	56.36	399	0	A	H
													H
		10520	48.77	-19.43	68.2	53.24	40.02	12.39	56.88	100	0	P	V
		15780	47.64	-26.36	74	51.24	38.04	14.72	56.36	100	0	P	V
													V
													V
Ch. BW 20 MHz 5300MHz		10600	46.97	-27.03	74	51.28	40.1	12.41	56.82	100	0	P	H
		15900	44.98	-29.02	74	48.68	37.75	14.77	56.22	100	0	P	H
													H
													H
		10600	46.74	-27.26	74	51.05	40.1	12.41	56.82	100	0	P	V
		15900	45.62	-28.38	74	49.32	37.75	14.77	56.22	100	0	P	V
													V
													V
Ch. BW 20 MHz 5330MHz		10660	47.4	-26.6	74	51.59	40.16	12.42	56.77	100	0	P	H
		15990	45.74	-28.26	74	49.55	37.5	14.8	56.11	100	0	P	H
													H
													H
		10660	47.15	-26.85	74	51.34	40.16	12.42	56.77	100	0	P	V
		15990	46.4	-27.6	74	50.21	37.5	14.8	56.11	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

Channel Bandwidth 40 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 40 MHz 5270MHz		5137.7	54.51	-19.49	74	44.22	31.68	8.16	29.55	182	2	P	H
		5120.02	45.39	-8.61	54	35.13	31.67	8.14	29.55	182	2	A	H
	*	5270	113.49	-	-	103.03	31.76	8.26	29.56	182	2	P	H
	*	5270	105.68	-	-	95.22	31.76	8.26	29.56	182	2	A	H
		5357.76	56.61	-17.39	74	46.07	31.81	8.3	29.57	182	2	P	H
		5440.08	48.9	-5.1	54	38.2	31.86	8.42	29.58	182	2	A	H
		5119.68	53.9	-20.1	74	43.64	31.67	8.14	29.55	166	0	P	V
		5120.02	44.94	-9.06	54	34.68	31.67	8.14	29.55	166	0	A	V
	*	5270	113.3	45.1	68.2	102.84	31.76	8.26	29.56	166	0	P	V
	*	5270	104.68	50.68	54	94.22	31.76	8.26	29.56	166	0	A	V
		5354.64	61.23	-12.77	74	50.7	31.81	8.29	29.57	166	0	P	V
		5376	50.64	-3.36	54	40.1	31.82	8.3	29.58	166	0	A	V
Ch. BW 40 MHz 5300MHz		5149.94	55.18	-18.82	74	44.86	31.69	8.18	29.55	175	0	P	H
		5120.02	44.99	-9.01	54	34.73	31.67	8.14	29.55	175	0	A	H
	*	5300	116.47	-	-	105.99	31.78	8.27	29.57	175	0	P	H
	*	5300	108.35	-	-	97.87	31.78	8.27	29.57	175	0	A	H
		5353.92	64.48	-9.52	74	53.95	31.81	8.29	29.57	175	0	P	H
		5350.08	52.81	-1.19	54	42.28	31.81	8.29	29.57	175	0	A	H
		5117.64	59.41	-14.59	74	49.14	31.67	8.14	29.54	168	0	P	V
		5136	46.5	-7.5	54	36.21	31.68	8.16	29.55	168	0	A	V
	*	5300	116.47	-	-	105.99	31.78	8.27	29.57	168	0	P	V
	*	5300	108.35	-	-	97.87	31.78	8.27	29.57	168	0	A	V
		5366.4	65.75	-8.25	74	55.2	31.82	8.3	29.57	168	0	P	V
		5350.08	52.83	-1.17	54	42.3	31.81	8.29	29.57	168	0	A	V

Ch. BW 40 MHz 5320 MHz		5112.88	51.98	-22.02	74	41.72	31.67	8.13	29.54	178	0	P	H
		5120.02	44	-10	54	33.74	31.67	8.14	29.55	178	0	A	H
	*	5320	110.71	-	-	100.21	31.79	8.28	29.57	178	0	P	H
	*	5320	102.45	-	-	91.95	31.79	8.28	29.57	178	0	A	H
		5351.28	67.36	-6.64	74	56.83	31.81	8.29	29.57	178	0	P	H
		5350.32	53.79	-0.21	54	43.26	31.81	8.29	29.57	178	0	A	H
		5086.02	53.42	-20.58	74	43.21	31.65	8.1	29.54	176	360	P	V
		5136	44.28	-9.72	54	33.99	31.68	8.16	29.55	176	360	A	V
	*	5320	109.38	-	-	98.88	31.79	8.28	29.57	176	360	P	V
	*	5320	101.72	-	-	91.22	31.79	8.28	29.57	176	360	A	V
		5352.24	67.23	-6.77	74	56.7	31.81	8.29	29.57	176	360	P	V
		5350.08	53.8	-0.2	54	43.27	31.81	8.29	29.57	176	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

Channel Bandwidth 40 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 40 MHz 5270MHz		10540	47.98	-20.22	68.2	52.43	40.03	12.39	56.87	100	0	P	H
		15810	45.23	-28.77	74	48.87	37.96	14.73	56.33	100	0	P	H
													H
													H
		10540	48.65	-19.55	68.2	53.1	40.03	12.39	56.87	100	0	P	V
		15810	46.51	-27.49	74	50.15	37.96	14.73	56.33	100	0	P	V
													V
													V
Ch. BW 40 MHz 5300MHz		10600	46.34	-27.66	74	50.65	40.1	12.41	56.82	100	0	P	H
		15900	45.86	-28.14	74	49.56	37.75	14.77	56.22	100	0	P	H
													H
													H
		10600	46.27	-27.73	74	50.58	40.1	12.41	56.82	100	0	P	V
		15900	44.9	-29.1	74	48.6	37.75	14.77	56.22	100	0	P	V
													V
													V
Ch. BW 40 MHz 5320 MHz		10640	47.38	-26.62	74	51.62	40.14	12.41	56.79	100	0	P	H
		15960	45.82	-28.18	74	49.6	37.58	14.79	56.15	100	0	P	H
													H
													H
		10640	46.94	-27.06	74	51.18	40.14	12.41	56.79	100	0	P	V
		15960	45.07	-28.93	74	48.85	37.58	14.79	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.												

Band 2 5250~5350MHz

Channel Bandwidth 80 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 80 MHz 5290MHz		5135.32	54.2	-19.8	74	43.91	31.68	8.16	29.55	180	2	P	H
		5120.02	45.75	-8.25	54	35.49	31.67	8.14	29.55	180	2	A	H
	*	5290	109.2	-	-	98.72	31.77	8.27	29.56	180	2	P	H
	*	5290	101.01	-	-	90.53	31.77	8.27	29.56	180	2	A	H
		5352.72	60.82	-13.18	74	50.29	31.81	8.29	29.57	180	2	P	H
		5352	53.27	-0.73	54	42.74	31.81	8.29	29.57	180	2	A	H
		5145.52	54.16	-19.84	74	43.85	31.69	8.17	29.55	178	0	P	V
		5135.66	45.76	-8.24	54	35.47	31.68	8.16	29.55	178	0	A	V
	*	5290	108.19	-	-	97.71	31.77	8.27	29.56	178	0	P	V
	*	5290	100.5	-	-	90.02	31.77	8.27	29.56	178	0	A	V
		5351.28	68.8	-5.2	74	58.27	31.81	8.29	29.57	178	0	P	V
		5376	53.76	-0.24	54	43.22	31.82	8.3	29.58	178	0	A	V
Ch. BW 80 MHz 5295MHz		5047.94	51.9	-22.1	74	41.76	31.63	8.05	29.54	177	2	P	H
		5120.02	44.41	-9.59	54	34.15	31.67	8.14	29.55	177	2	A	H
	*	5295	108.81	-	-	98.32	31.78	8.27	29.56	177	2	P	H
	*	5295	101.25	-	-	90.76	31.78	8.27	29.56	177	2	A	H
		5355.12	60.99	-13.01	74	50.46	31.81	8.29	29.57	177	2	P	H
		5350.32	53.38	-0.62	54	42.85	31.81	8.29	29.57	177	2	A	H
		5103.7	52.68	-21.32	74	42.44	31.66	8.12	29.54	172	1	P	V
		5140.42	44.6	-9.4	54	34.29	31.69	8.17	29.55	172	1	A	V
	*	5295	108.14	-	-	97.65	31.78	8.27	29.56	172	1	P	V
	*	5295	100.4	-	-	89.91	31.78	8.27	29.56	172	1	A	V
		5351.04	67.74	-6.26	74	57.21	31.81	8.29	29.57	172	1	P	V
		5350.08	53.21	-0.79	54	42.68	31.81	8.29	29.57	172	1	A	V

Ch. BW 80 MHz 5300MHz		5065.96	51.32	-22.68	74	41.15	31.64	8.07	29.54	169	2	P	H
		5106.08	43.27	-10.73	54	33.02	31.67	8.12	29.54	169	2	A	H
	*	5300	104.53	-	-	94.05	31.78	8.27	29.57	169	2	P	H
	*	5300	96.97	-	-	86.49	31.78	8.27	29.57	169	2	A	H
		5350.56	62.75	-11.25	74	52.22	31.81	8.29	29.57	169	2	P	H
		5350.08	53.23	-0.77	54	42.7	31.81	8.29	29.57	169	2	A	H
		5131.58	51.92	-22.08	74	41.64	31.68	8.15	29.55	173	1	P	V
		5120.02	43.84	-10.16	54	33.58	31.67	8.14	29.55	173	1	A	V
	*	5300	105.33	-	-	94.85	31.78	8.27	29.57	173	1	P	V
	*	5300	97.32	-	-	86.84	31.78	8.27	29.57	173	1	A	V
		5351.52	63.48	-10.52	74	52.95	31.81	8.29	29.57	173	1	P	V
		5350.08	53.39	-0.61	54	42.86	31.81	8.29	29.57	173	1	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

Channel Bandwidth 80 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 80 MHz 5290MHz		10580	46.62	-21.58	68.2	50.97	40.09	12.4	56.84	100	0	P	H
		15870	44.83	-29.17	74	48.55	37.79	14.75	56.26	100	0	P	H
													H
													H
		10580	47.21	-20.99	68.2	51.56	40.09	12.4	56.84	100	0	P	V
		15870	44.69	-29.31	74	48.41	37.79	14.75	56.26	100	0	P	V
													V
													V
Ch. BW 80 MHz 5295MHz		10590	47.71	-20.49	68.2	52.04	40.09	12.41	56.83	100	0	P	H
		15885	45.01	-28.99	74	48.74	37.75	14.76	56.24	100	0	P	H
													H
													H
		10590	47.22	-20.98	68.2	51.55	40.09	12.41	56.83	100	0	P	V
		15885	44.49	-29.51	74	48.22	37.75	14.76	56.24	100	0	P	V
													V
													V
Ch. BW 80 MHz 5300MHz		10600	46.02	-27.98	74	50.33	40.1	12.41	56.82	100	0	P	H
		15900	45.1	-28.9	74	48.8	37.75	14.77	56.22	100	0	P	H
													H
													H
		10600	46.35	-27.65	74	50.66	40.1	12.41	56.82	100	0	P	V
		15900	45.18	-28.82	74	48.88	37.75	14.77	56.22	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

Channel Bandwidth 20 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 20 MHz 5490MHz		5443.28	64.7	-9.3	74	53.99	31.86	8.43	29.58	181	1	P	H
		5469.04	67.87	-0.33	68.2	57.08	31.88	8.5	29.59	181	1	P	H
		5460	49.32	-4.68	54	38.57	31.87	8.47	29.59	181	1	A	H
	*	5490	117.3	-	-	106.45	31.89	8.55	29.59	181	1	P	H
	*	5490	109.23	-	-	98.38	31.89	8.55	29.59	181	1	A	H
													H
		5453.84	62.96	-11.04	74	52.22	31.87	8.46	29.59	178	2	P	V
		5469.2	67.66	-0.54	68.2	56.87	31.88	8.5	29.59	178	2	P	V
		5375.92	49.69	-4.31	54	39.15	31.82	8.3	29.58	178	2	A	V
	*	5490	116.16	-	-	105.31	31.89	8.55	29.59	178	2	P	V
	*	5490	107.65	-	-	96.8	31.89	8.55	29.59	178	2	A	V
													V
Ch. BW 20 MHz 5590MHz		5451.04	67.33	-6.67	74	56.6	31.87	8.45	29.59	169	0	P	H
		5465.68	68.06	-0.14	68.2	57.28	31.88	8.49	29.59	169	0	P	H
		5440	49.87	-4.13	54	39.17	31.86	8.42	29.58	169	0	A	H
	*	5590	128.42	-	-	117.21	32.02	8.82	29.63	169	0	P	H
	*	5590	120.35	-	-	109.14	32.02	8.82	29.63	169	0	A	H
		5725.31	60.96	-7.24	68.2	49.61	32.21	8.82	29.68	169	0	P	H
		5452.48	67.18	-6.82	74	56.45	31.87	8.45	29.59	163	360	P	V
		5466.16	67.65	-0.55	68.2	56.87	31.88	8.49	29.59	163	360	P	V
		5375.92	51.49	-2.51	54	40.95	31.82	8.3	29.58	163	360	A	V
	*	5590	128.81	-	-	117.6	32.02	8.82	29.63	163	360	P	V
	*	5590	120.31	-	-	109.1	32.02	8.82	29.63	163	360	A	V
		5735.705	63.53	-4.67	68.2	52.16	32.24	8.82	29.69	163	360	P	V

Ch. BW 20 MHz 5705MHz	*	5705	110.48	-	-	99.15	32.19	8.82	29.68	179	3	P	H
	*	5705	102.35	-	-	91.02	32.19	8.82	29.68	179	3	A	H
		5725.24	65.94	-2.26	68.2	54.59	32.21	8.82	29.68	179	3	P	H
													H
													H
													H
	*	5705	110.12	-	-	98.79	32.19	8.82	29.68	179	1	P	V
	*	5705	102.23	-	-	90.9	32.19	8.82	29.68	179	1	A	V
		5725.96	65.52	-2.68	68.2	54.17	32.21	8.82	29.68	179	1	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

Channel Bandwidth 20 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 20 MHz 5490MHz		10980	48.78	-25.22	74	52.31	40.48	12.51	56.52	100	0	P	H
		16470	46.68	-21.52	68.2	48.22	39.27	14.91	55.72	100	0	P	H
													H
													H
		10980	47.91	-26.09	74	51.44	40.48	12.51	56.52	100	0	P	V
		16470	46.28	-21.92	68.2	47.82	39.27	14.91	55.72	100	0	P	V
													V
													V
Ch. BW 20 MHz 5590MHz		11180	62.31	-11.69	74	65.86	40.28	12.6	56.43	196	326	P	H
		11180	51.55	-2.45	54	55.1	40.28	12.6	56.43	196	326	A	H
		16770	56.32	-11.88	68.2	57.54	39.73	14.97	55.92	100	0	P	H
													H
		11180	63.4	-10.6	74	66.95	40.28	12.6	56.43	205	348	P	V
		11180	52.37	-1.63	54	55.92	40.28	12.6	56.43	205	348	A	V
		16770	55.88	-12.32	68.2	57.1	39.73	14.97	55.92	100	0	P	V
													V
Ch. BW 20 MHz 5705MHz		11410	47.09	-26.91	74	50.71	40.02	12.7	56.34	100	0	P	H
		17115	49.69	-18.51	68.2	50.54	40.42	15.06	56.33	100	0	P	H
													H
													H
		11410	47.29	-26.71	74	50.91	40.02	12.7	56.34	100	0	P	V
		17115	48.8	-19.4	68.2	49.65	40.42	15.06	56.33	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

Channel Bandwidth 40 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 40 MHz 5500MHz		5456.56	61.88	-12.12	74	51.14	31.87	8.46	29.59	177	2	P	H
		5469.76	67.52	-0.68	68.2	56.73	31.88	8.5	29.59	177	2	P	H
		5458.96	51.18	-2.82	54	40.43	31.87	8.47	29.59	177	2	A	H
	*	5500	114.02	-	-	103.13	31.9	8.58	29.59	177	2	P	H
	*	5500	104.67	-	-	93.78	31.9	8.58	29.59	177	2	A	H
		5744.21	54.8	-13.4	68.2	43.44	32.24	8.81	29.69	177	2	P	H
		5459.44	62.45	-11.55	74	51.7	31.87	8.47	29.59	178	2	P	V
		5468.32	66.12	-2.08	68.2	55.34	31.88	8.49	29.59	178	2	P	V
		5459.92	50.09	-3.91	54	39.34	31.87	8.47	29.59	178	2	A	V
	*	5500	112.01	-	-	101.12	31.9	8.58	29.59	178	2	P	V
	*	5500	103.08	-	-	92.19	31.9	8.58	29.59	178	2	A	V
		5728.46	55.91	-12.29	68.2	44.56	32.21	8.82	29.68	178	2	P	V
Ch. BW 40 MHz 5580MHz		5455.6	63.7	-10.3	74	52.96	31.87	8.46	29.59	178	2	P	H
		5465.44	63.8	-4.4	68.2	53.02	31.88	8.49	29.59	178	2	P	H
		5439.76	48.81	-5.19	54	38.11	31.86	8.42	29.58	178	2	A	H
	*	5580	119.56	-	-	108.39	32	8.8	29.63	178	2	P	H
	*	5580	110.44	-	-	99.27	32	8.8	29.63	178	2	A	H
		5728.775	56.88	-11.32	68.2	45.53	32.21	8.82	29.68	178	2	P	H
		5451.52	62.4	-11.6	74	51.67	31.87	8.45	29.59	178	1	P	V
		5464.48	61.56	-6.64	68.2	50.79	31.88	8.48	29.59	178	1	P	V
		5424.16	49.93	-4.07	54	39.28	31.85	8.38	29.58	178	1	A	V
	*	5580	119.41	-	-	108.24	32	8.8	29.63	178	1	P	V
	*	5580	110.24	-	-	99.07	32	8.8	29.63	178	1	A	V
		5759.96	59.62	-8.58	68.2	48.26	32.26	8.81	29.71	178	1	P	V

Ch. BW 40 MHz 5695MHz		5431.55	52.9	-21.1	74	42.22	31.86	8.4	29.58	177	2	P	H
		5467.6	53.25	-14.95	68.2	42.47	31.88	8.49	29.59	177	2	P	H
		5439.95	44.9	-9.1	54	34.2	31.86	8.42	29.58	177	2	A	H
	*	5695	108.49	-	-	97.16	32.17	8.83	29.67	177	2	P	H
	*	5695	99.92	-	-	88.59	32.17	8.83	29.67	177	2	A	H
		5725.31	65.19	-3.01	68.2	53.84	32.21	8.82	29.68	177	2	P	H
		5402.15	52.32	-21.68	74	41.74	31.84	8.32	29.58	177	1	P	V
		5462	51.38	-16.82	68.2	40.62	31.87	8.48	29.59	177	1	P	V
		5417.9	43.39	-10.61	54	32.76	31.85	8.36	29.58	177	1	A	V
	*	5695	108.77	-	-	97.44	32.17	8.83	29.67	177	1	P	V
	*	5695	100.12	-	-	88.79	32.17	8.83	29.67	177	1	A	V
		5725	67.18	-1.02	68.2	55.83	32.21	8.82	29.68	177	1	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

Channel Bandwidth 40 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 40 MHz 5500MHz		11000	47.21	-26.79	74	50.7	40.5	12.51	56.5	100	0	P	H
		16500	46.96	-21.24	68.2	48.34	39.4	14.92	55.7	100	0	P	H
													H
													H
		11000	48.53	-25.47	74	52.02	40.5	12.51	56.5	100	0	P	V
		16500	47.98	-20.22	68.2	49.36	39.4	14.92	55.7	100	0	P	V
													V
													V
Ch. BW 40 MHz 5580MHz		11160	48.18	-25.82	74	51.73	40.3	12.59	56.44	100	0	P	H
		16740	46.94	-21.26	68.2	48.18	39.69	14.96	55.89	100	0	P	H
													H
													H
		11160	46.82	-27.18	74	50.37	40.3	12.59	56.44	100	0	P	V
		16740	47.68	-20.52	68.2	48.92	39.69	14.96	55.89	100	0	P	V
													V
													V
Ch. BW 40 MHz 5695MHz		11390	47.87	-26.13	74	51.47	40.04	12.7	56.34	100	0	P	H
		17085	47.95	-20.25	68.2	48.87	40.3	15.05	56.27	100	0	P	H
													H
													H
		11390	47.6	-26.4	74	51.2	40.04	12.7	56.34	100	0	P	V
		17085	48.11	-20.09	68.2	49.03	40.3	15.05	56.27	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

Channel Bandwidth 80 MHz (Band Edge @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 80 MHz 5525MHz		5452.72	60.67	-13.33	74	49.94	31.87	8.45	29.59	178	2	P	H
		5467.6	61.5	-6.7	68.2	50.72	31.88	8.49	29.59	178	2	P	H
		5459.44	52.16	-1.84	54	41.41	31.87	8.47	29.59	178	2	A	H
	*	5525	110.81	-	-	99.84	31.92	8.65	29.6	178	2	P	H
	*	5525	102.1	-	-	91.13	31.92	8.65	29.6	178	2	A	H
		5747.36	53.94	-14.26	68.2	42.58	32.24	8.81	29.69	178	2	P	H
		5452	62.3	-11.7	74	51.57	31.87	8.45	29.59	177	1	P	V
		5468.08	62.95	-5.25	68.2	52.17	31.88	8.49	29.59	177	1	P	V
		5459.92	51.93	-2.07	54	41.18	31.87	8.47	29.59	177	1	A	V
	*	5525	110.29	-	-	99.32	31.92	8.65	29.6	177	1	P	V
	*	5525	101.4	-	-	90.43	31.92	8.65	29.6	177	1	A	V
		5728.775	57.9	-10.3	68.2	46.55	32.21	8.82	29.68	177	1	P	V
Ch. BW 80 MHz 5560MHz		5455.12	61.25	-12.75	74	50.51	31.87	8.46	29.59	177	2	P	H
		5462.8	61.34	-6.86	68.2	50.57	31.88	8.48	29.59	177	2	P	H
		5459.44	51.03	-2.97	54	40.28	31.87	8.47	29.59	177	2	A	H
	*	5560	112.34	-	-	101.25	31.97	8.74	29.62	177	2	P	H
	*	5560	102.63	-	-	91.54	31.97	8.74	29.62	177	2	A	H
		5737.595	56.92	-11.28	68.2	45.55	32.24	8.82	29.69	177	2	P	H
		5427.04	60.13	-13.87	74	49.48	31.85	8.38	29.58	170	360	P	V
		5468.32	62.24	-5.96	68.2	51.46	31.88	8.49	29.59	170	360	P	V
		5459.92	49.48	-4.52	54	38.73	31.87	8.47	29.59	170	360	A	V
	*	5560	110.59	-	-	99.5	31.97	8.74	29.62	170	360	P	V
	*	5560	101.68	-	-	90.59	31.97	8.74	29.62	170	360	A	V
		5728.46	56.97	-11.23	68.2	45.62	32.21	8.82	29.68	170	360	P	V

Ch. BW 80 MHz 5675MHz		5457.1	52.79	-21.21	74	42.05	31.87	8.46	29.59	177	2	P	H
		5462.7	53.03	-15.17	68.2	42.26	31.88	8.48	29.59	177	2	P	H
		5439.95	45.37	-8.63	54	34.67	31.86	8.42	29.58	177	2	A	H
	*	5675	106.24	-	-	94.93	32.14	8.83	29.66	177	2	P	H
	*	5675	97.26	-	-	85.95	32.14	8.83	29.66	177	2	A	H
		5725	64.67	-3.53	68.2	53.32	32.21	8.82	29.68	177	2	P	H
		5419.65	52.03	-21.97	74	41.4	31.85	8.36	29.58	179	1	P	V
		5466.9	52.02	-16.18	68.2	41.24	31.88	8.49	29.59	179	1	P	V
		5447.3	43.54	-10.46	54	32.81	31.87	8.44	29.58	179	1	A	V
	*	5675	106.56	-	-	95.25	32.14	8.83	29.66	179	1	P	V
	*	5675	98.19	-	-	86.88	32.14	8.83	29.66	179	1	A	V
		5725	67.88	-0.32	68.2	56.53	32.21	8.82	29.68	179	1	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

Channel Bandwidth 80 MHz (Harmonic @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 80 MHz 5525MHz		11050	48.31	-25.69	74	51.82	40.44	12.53	56.48	100	0	P	H
		16575	46.91	-21.29	68.2	48.26	39.48	14.93	55.76	100	0	P	H
													H
													H
		11050	46.59	-27.41	74	50.1	40.44	12.53	56.48	100	0	P	V
		16575	47.17	-21.03	68.2	48.52	39.48	14.93	55.76	100	0	P	V
													V
													V
Ch. BW 80 MHz 5560MHz		11120	47.85	-26.15	74	51.37	40.36	12.57	56.45	100	0	P	H
		16680	47.83	-20.37	68.2	49.11	39.61	14.95	55.84	100	0	P	H
													H
													H
		11120	47.24	-26.76	74	50.76	40.36	12.57	56.45	100	0	P	V
		16680	47.08	-21.12	68.2	48.36	39.61	14.95	55.84	100	0	P	V
													V
													V
Ch. BW 80 MHz 5675MHz		11350	47.07	-26.93	74	50.67	40.08	12.68	56.36	100	0	P	H
		17025	49.09	-19.11	68.2	50.1	40.12	15.02	56.15	100	0	P	H
													H
													H
		11350	46.76	-27.24	74	50.36	40.08	12.68	56.36	100	0	P	V
		17025	49.38	-18.82	68.2	50.39	40.12	15.02	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

Channel Bandwidth 20 MHz (LF @ 3m)

Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
Ch. BW 20 MHz LF		92.64	33.38	-10.12	43.5	49.01	15.33	1.33	32.29	-	-	P	H
		107.49	38.71	-4.79	43.5	52.97	16.66	1.37	32.29	100	0	P	H
		120.45	34.67	-8.83	43.5	48.23	17.35	1.38	32.29	-	-	P	H
		372.8	32.75	-13.25	46	41.5	21.03	2.36	32.14	-	-	P	H
		830.6	32.82	-13.18	46	32.67	28.51	3.48	31.84	-	-	P	H
		885.9	35.76	-10.24	46	34.81	28.99	3.54	31.58	-	-	P	H
													H
													H
													H
													H
													H
													H
		93.18	34.36	-9.14	43.5	49.94	15.38	1.33	32.29	-	-	P	V
		106.95	37.03	-6.47	43.5	51.3	16.65	1.37	32.29	-	-	P	V
		120.72	31.6	-11.9	43.5	45.14	17.37	1.38	32.29	-	-	P	V
		433	37.27	-8.73	46	44.04	22.88	2.52	32.17	-	-	P	V
		894.3	40.27	-5.73	46	39.26	29.01	3.54	31.54	100	0	P	V
		952.4	33.7	-12.3	46	30.27	30.76	3.71	31.04	-	-	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+2		(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 Plots

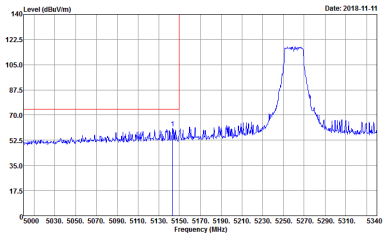
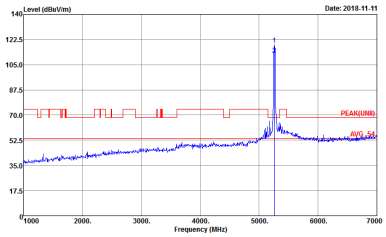
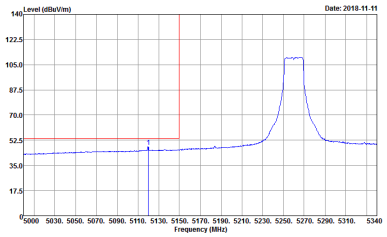
Test Engineer :	Alex Jheng, Fu Chen, and Wilson Wu	**Temperature :**	24~25°C
		Relative Humidity :	50~51%

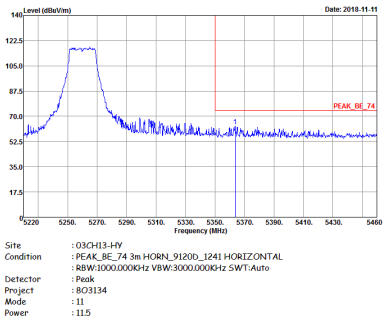
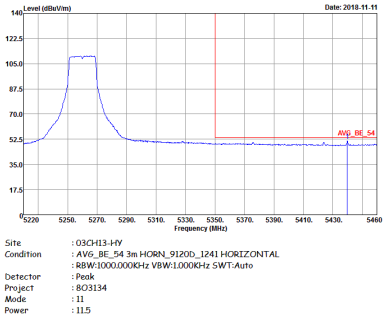
Note symbol

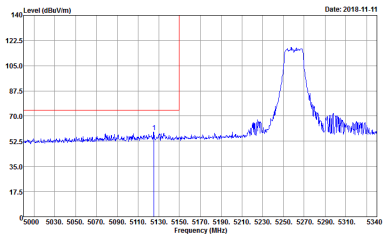
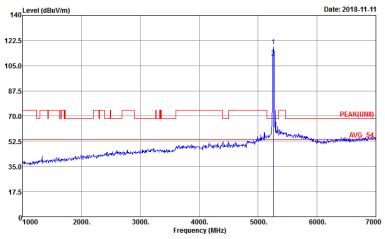
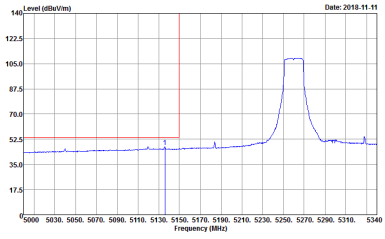
-L	**Low channel location**
-R	**High channel location**

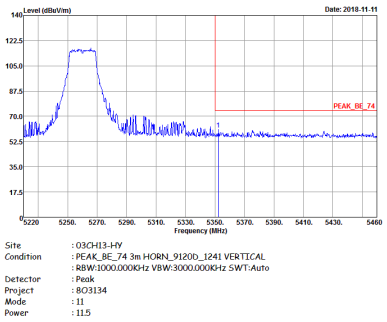
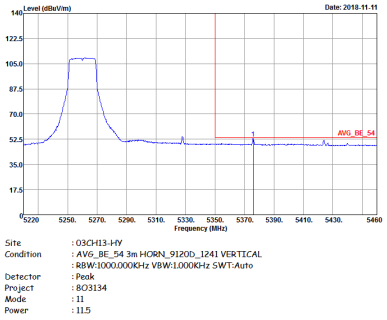
Band 2 - 5250~5350MHz

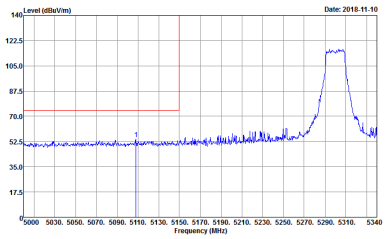
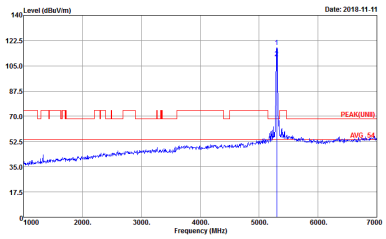
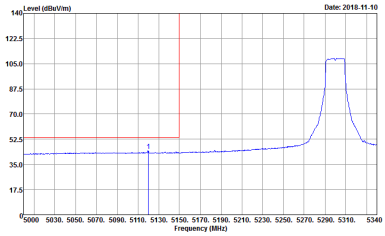
Channel Bandwidth 20MHz (Band Edge @ 3m)

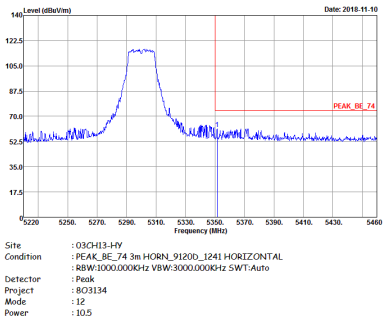
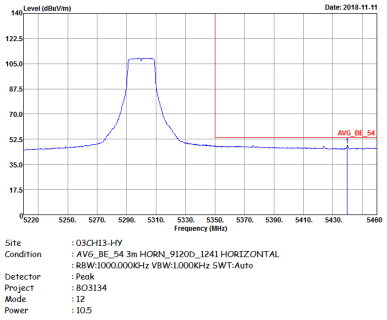
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5	Left blank

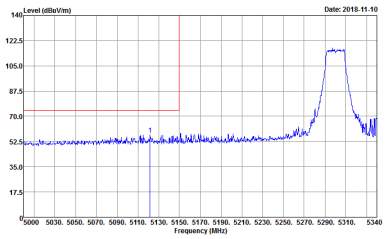
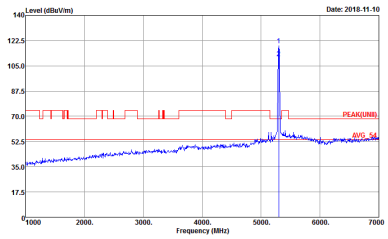
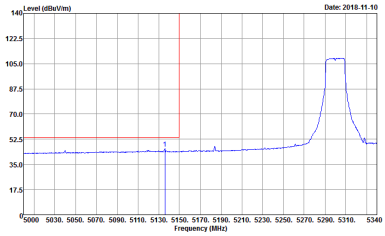
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

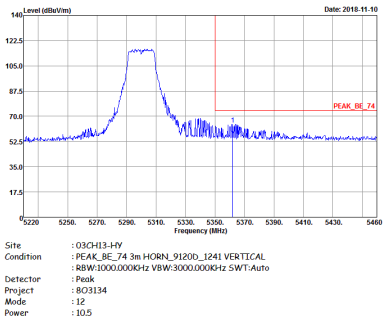
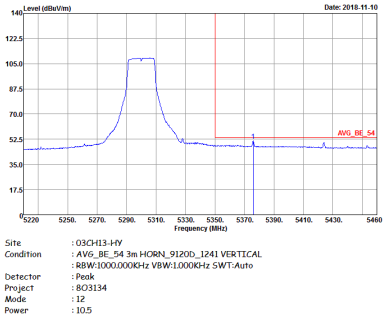
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 11 Power : 11.5	Left blank

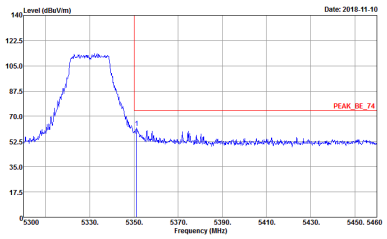
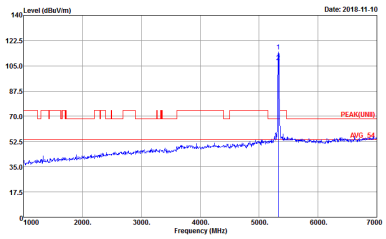
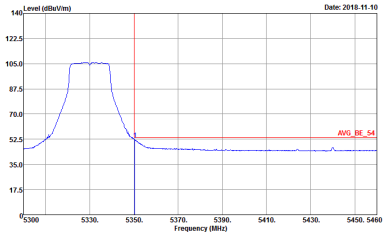
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

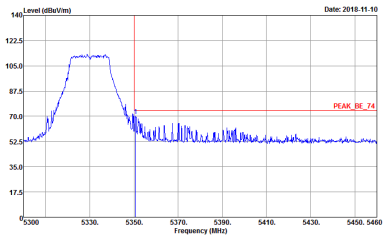
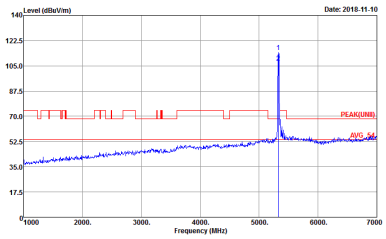
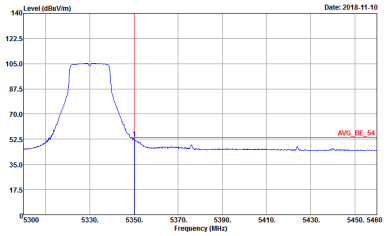
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5	Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5	Left blank

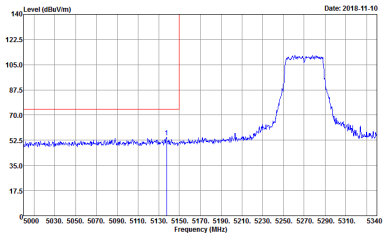
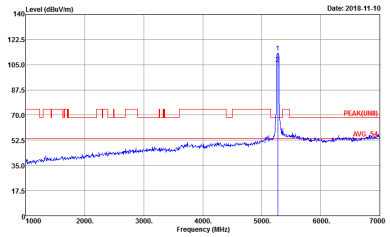
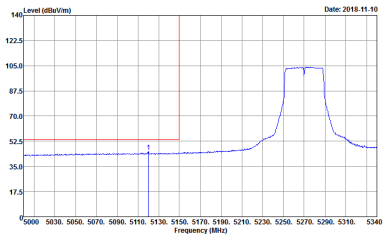
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

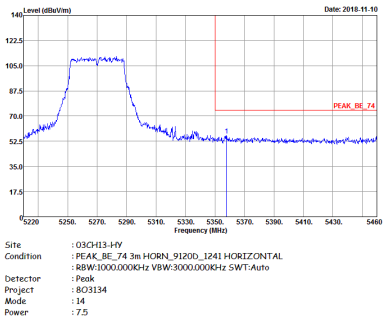
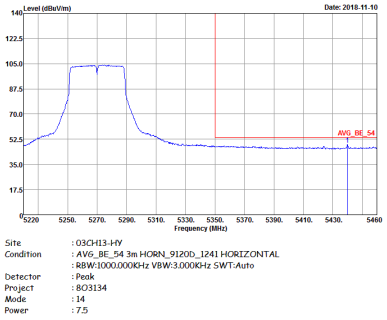
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5330MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5	Left blank

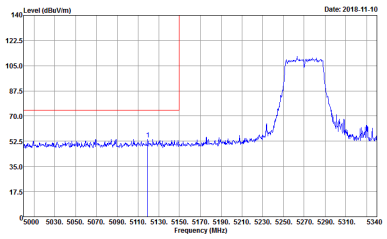
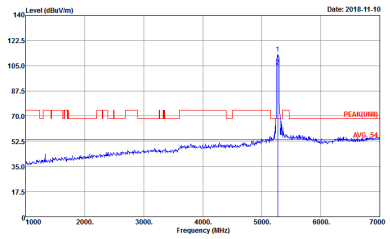
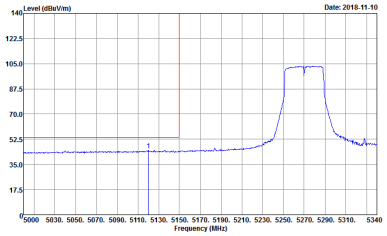
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5330MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5	Left blank

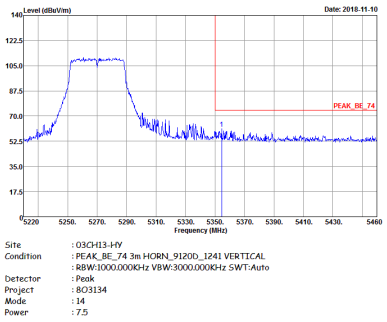
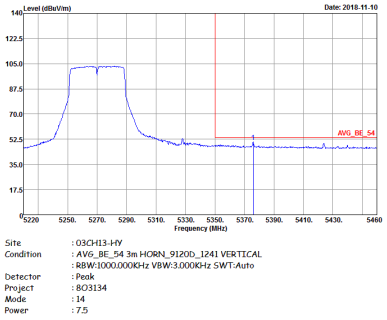
Band 2 5250~5350MHz

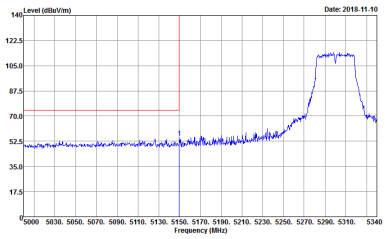
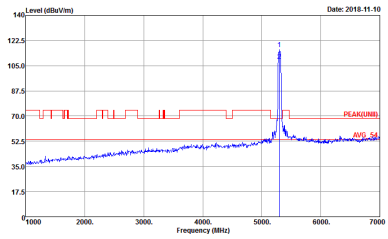
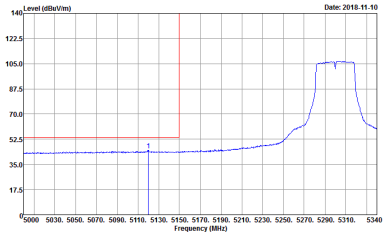
Channel Bandwidth 40MHz (Band Edge @ 3m)

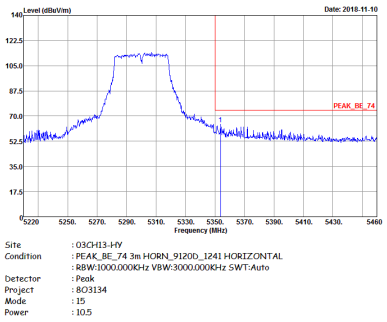
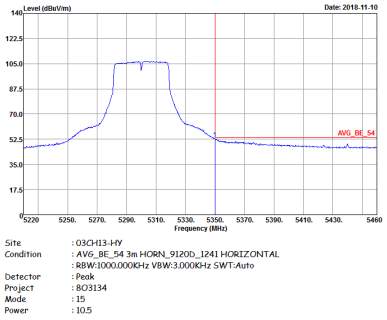
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5270MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5	Left blank

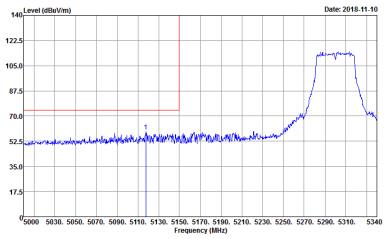
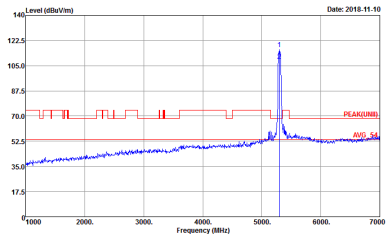
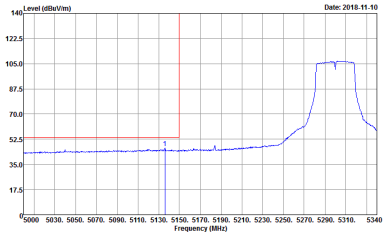
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5270MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

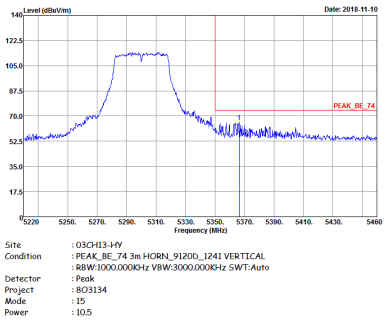
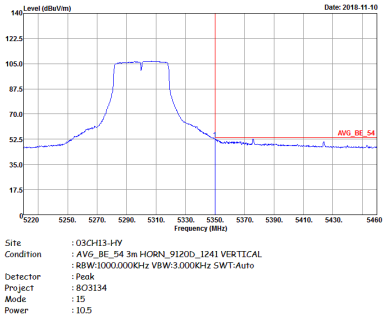
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5270MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 14 Power : 7.5	Left blank

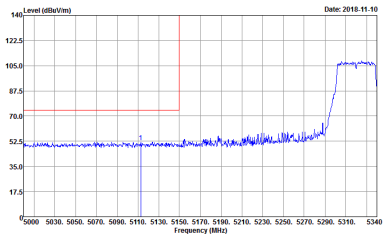
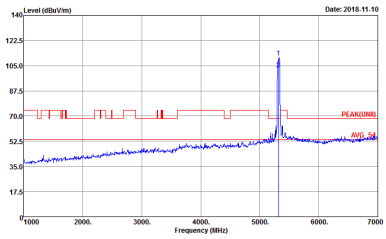
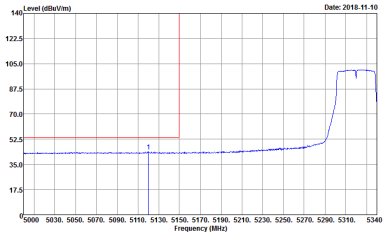
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5270MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

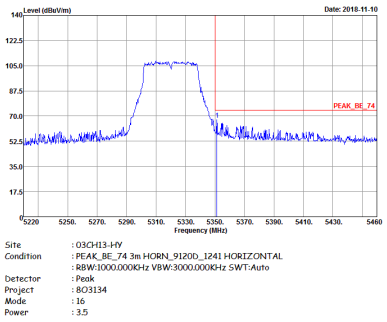
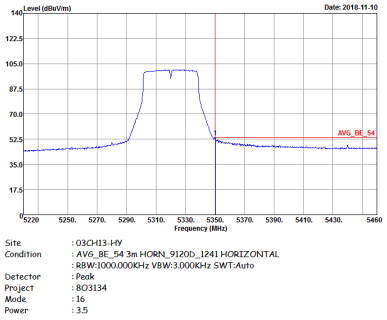
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5	Left blank

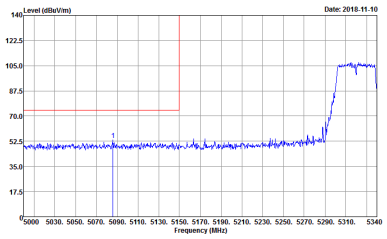
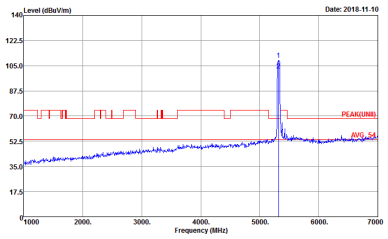
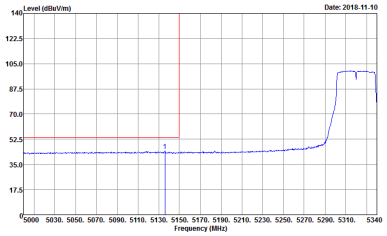
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

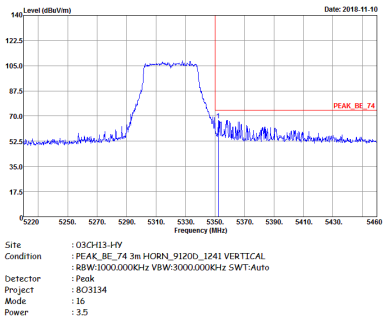
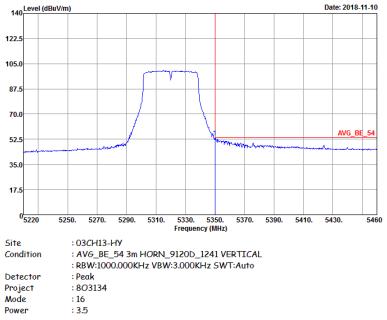
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5	Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5320MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5	Left blank

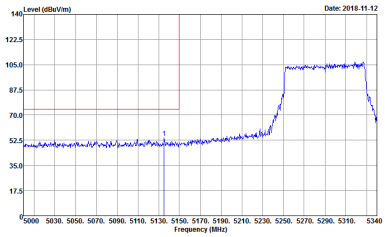
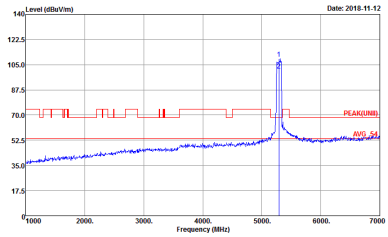
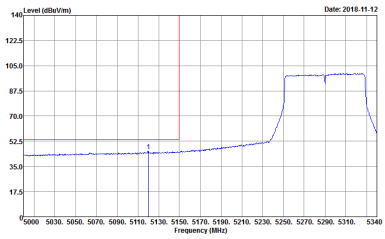
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5320MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

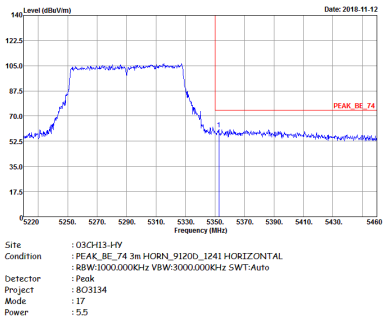
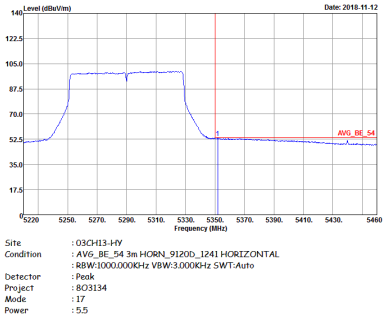
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5320MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5	Left blank

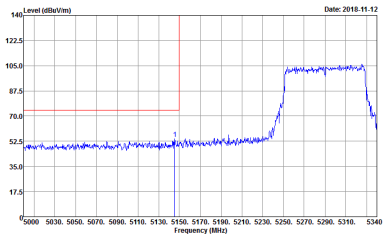
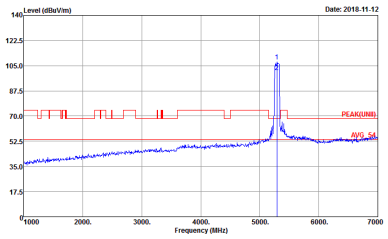
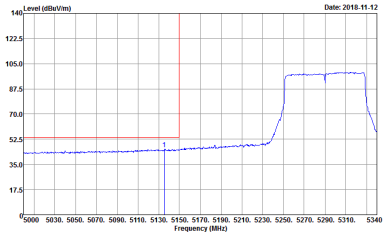
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5320MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

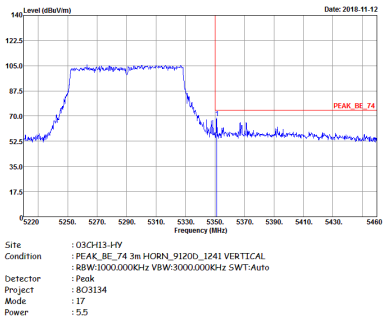
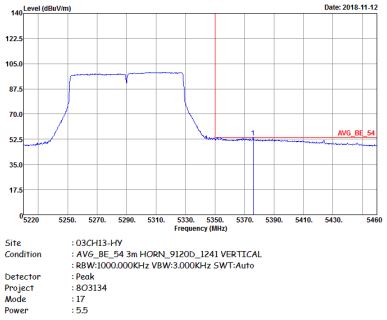
Band 2 5250~5350MHz

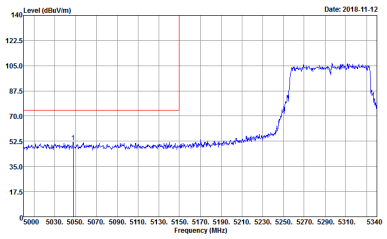
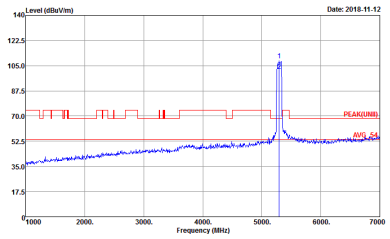
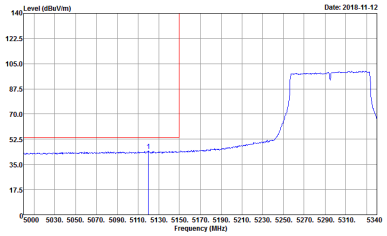
Channel Bandwidth 80MHz (Band Edge @ 3m)

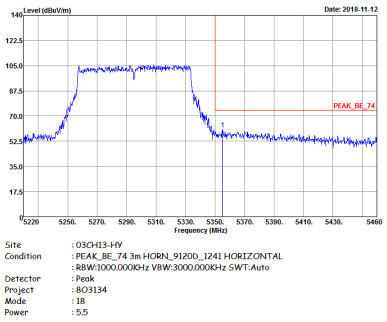
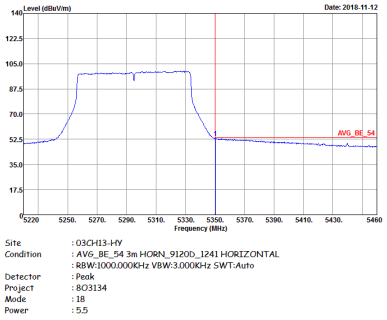
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5	Left blank

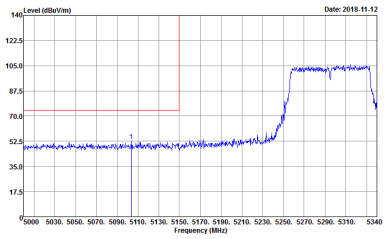
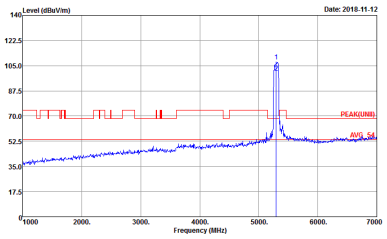
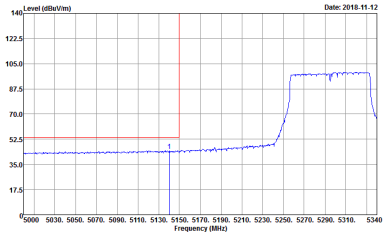
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

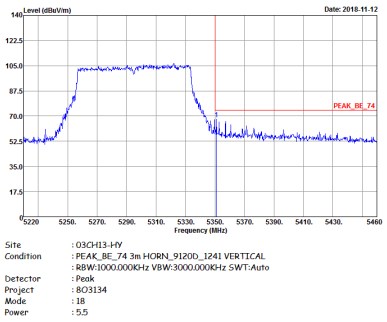
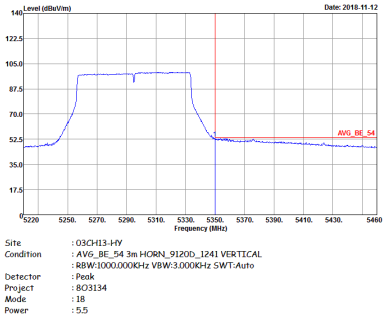
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 17 Power : 5.5	Left blank

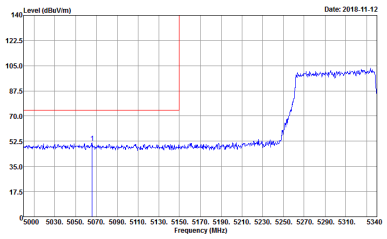
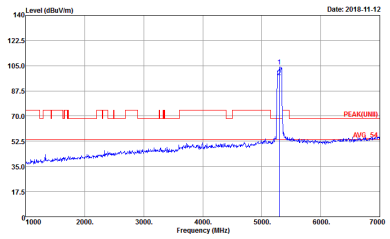
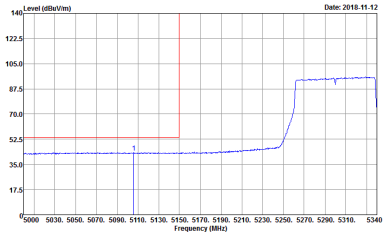
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

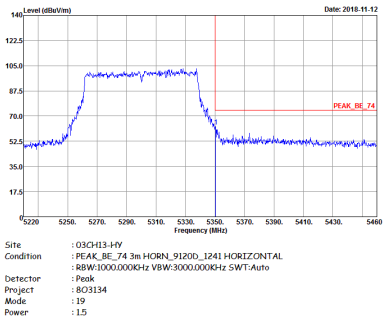
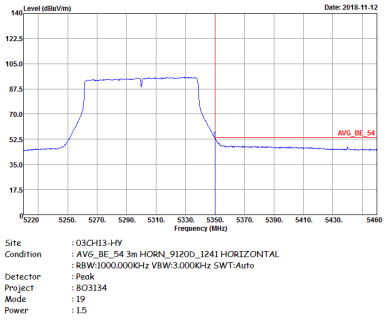
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5295MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5	Left blank

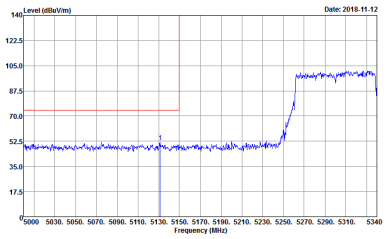
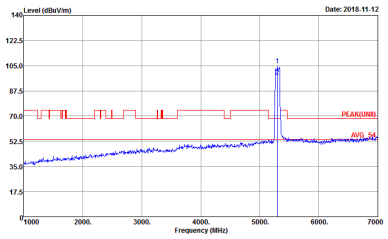
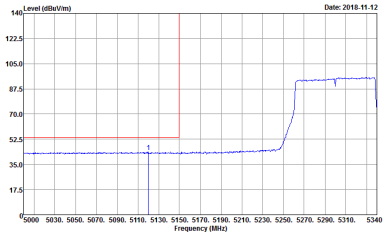
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5295MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

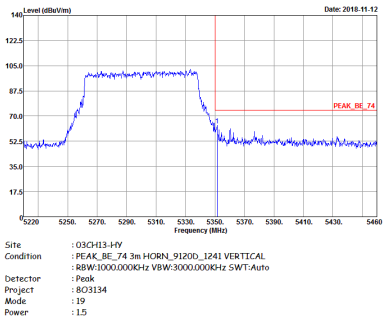
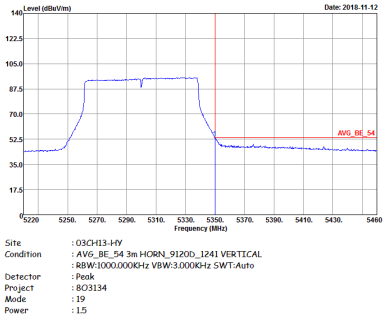
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5295MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5	Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5295MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5	Left blank

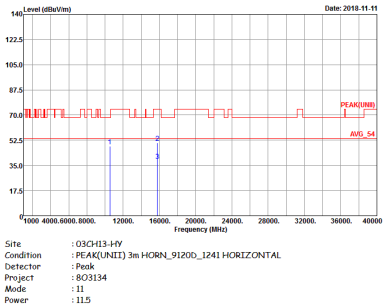
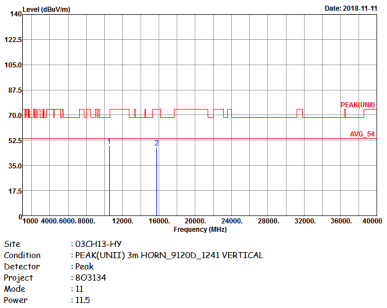
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

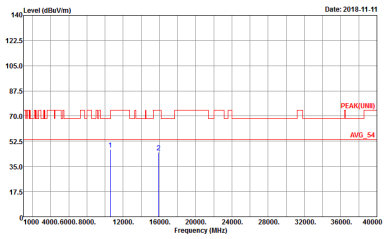
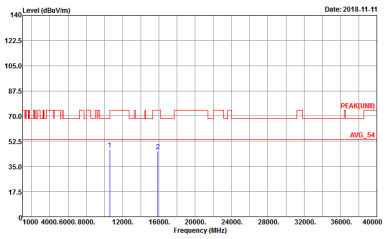
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 19 Power : 1.5	Left blank

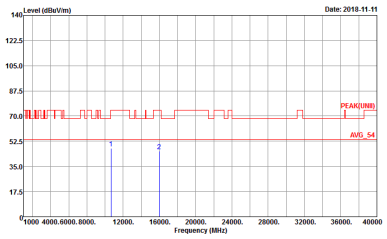
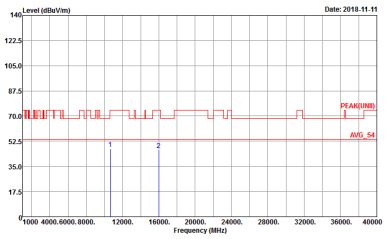
	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

Channel Bandwidth 20MHz (Harmonic @ 3m)

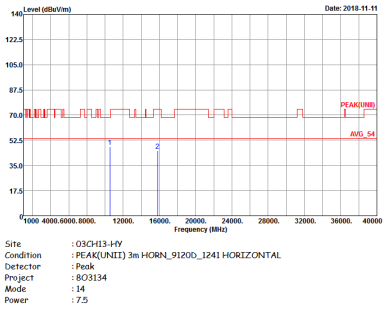
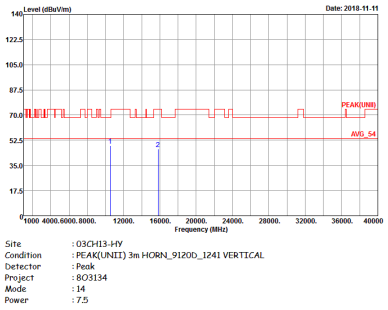
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

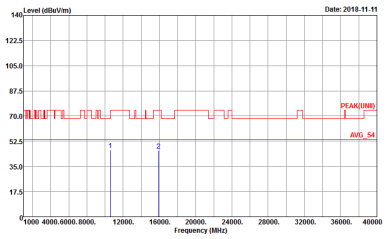
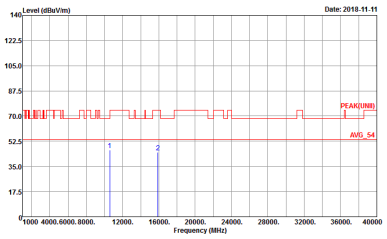
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 12 Power : 10.5

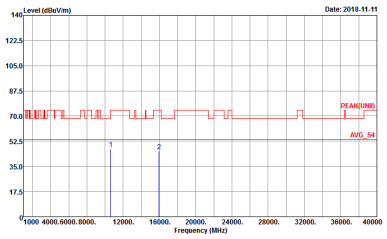
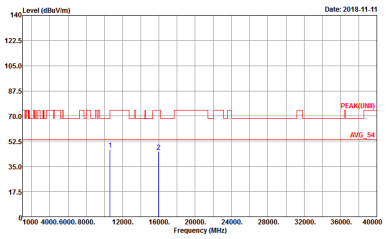
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5330MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 13 Power : 6.5

Band 2 5250~5350MHz

Channel Bandwidth 40 MHz (Harmonic @ 3m)

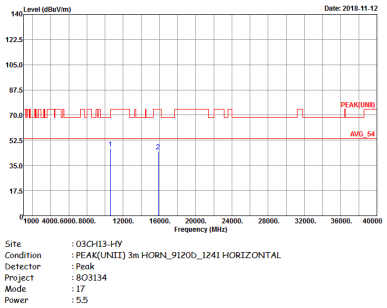
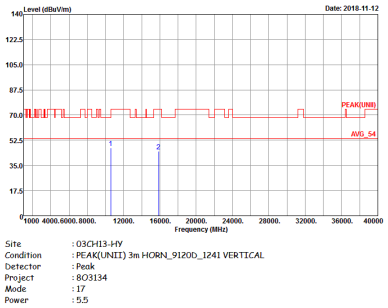
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5270MHz	
1+2	Horizontal	Vertical
Peak Avg.		

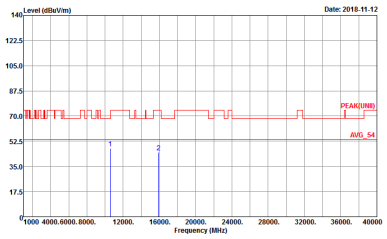
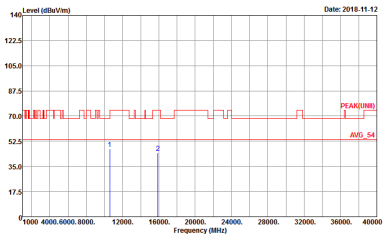
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 15 Power : 10.5

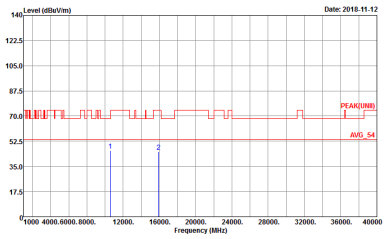
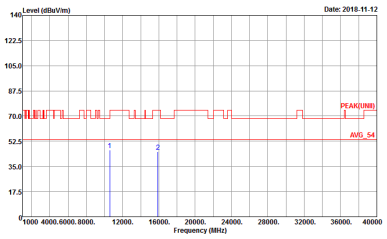
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 16 Power : 3.5

Band 2 5250~5350MHz

Channel Bandwidth 80 MHz (Harmonic @ 3m)

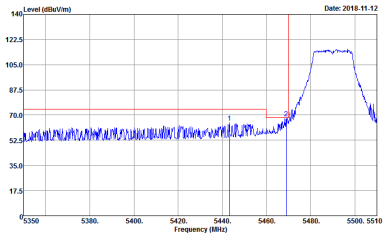
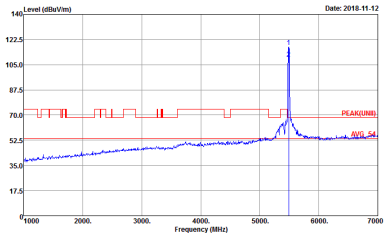
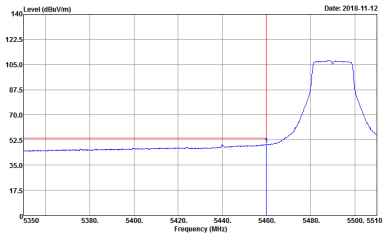
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

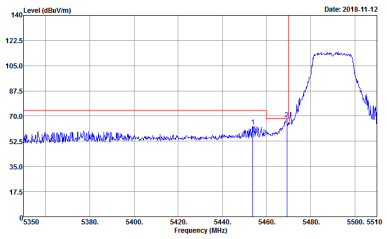
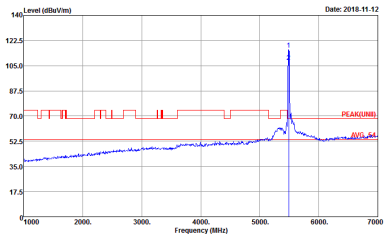
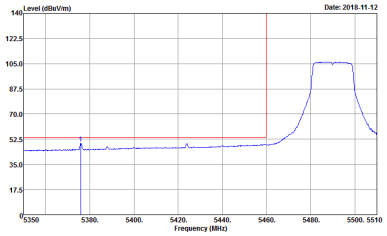
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5295MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 18 Power : 5.5

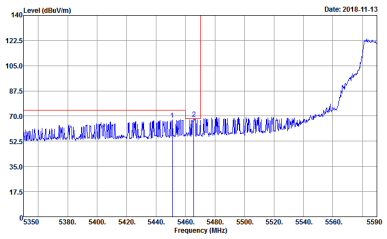
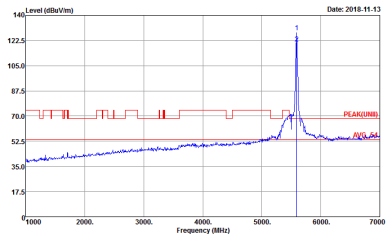
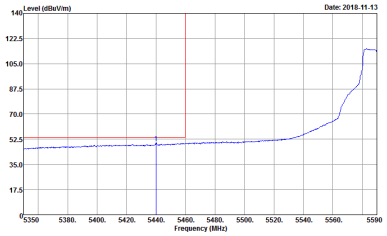
	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 18 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 18 Power : 1.5

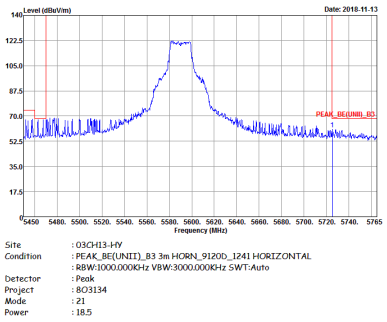
Band 3 - 5470~5725MHz

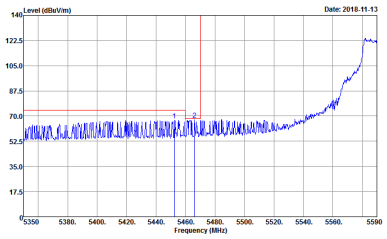
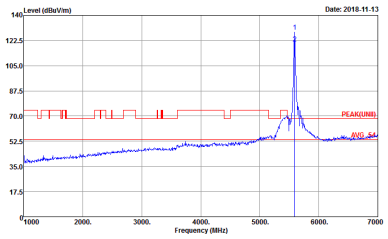
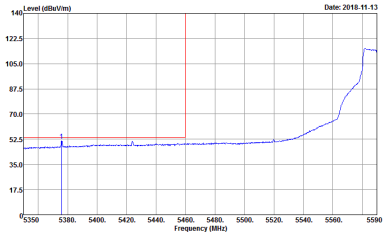
Channel Bandwidth 20MHz (Band Edge @ 3m)

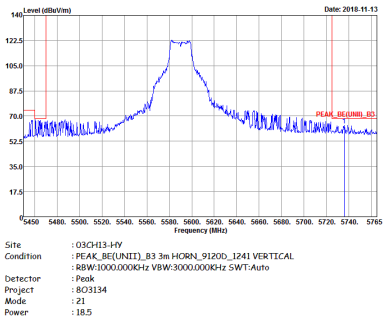
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5490MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5	Left blank

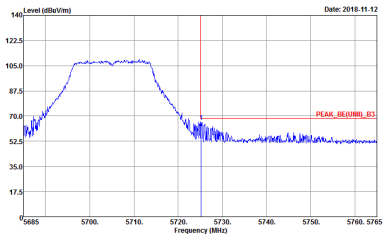
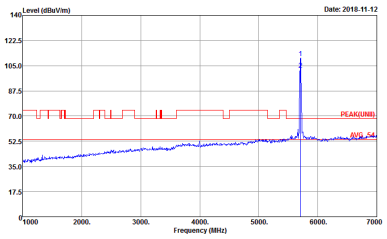
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5490MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 20 Power : 8.5	Left blank

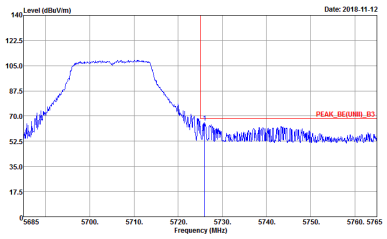
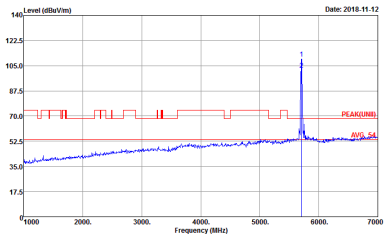
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5590MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5590MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5590MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	Left blank

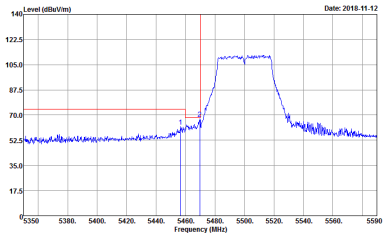
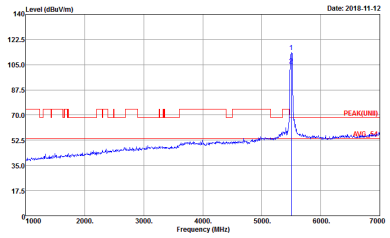
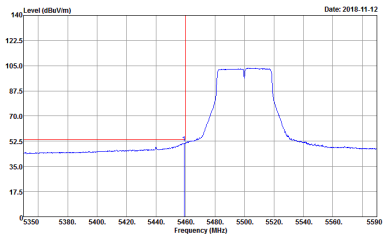
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5590MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	Left blank

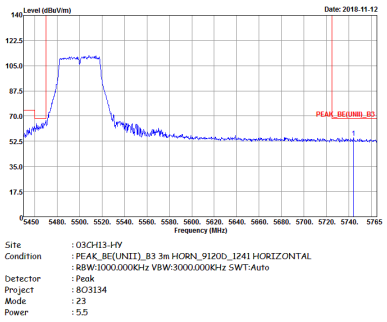
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5705MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5

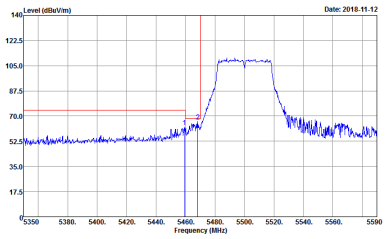
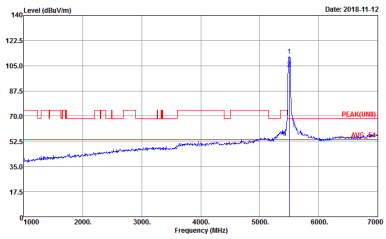
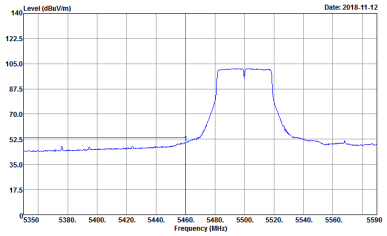
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 20MHz 5705MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5

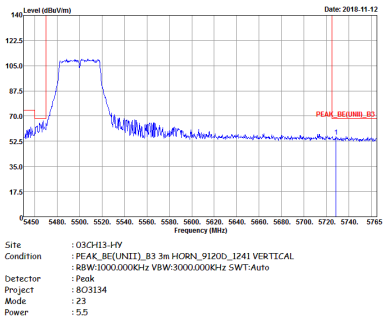
Band 3 5470~5725MHz

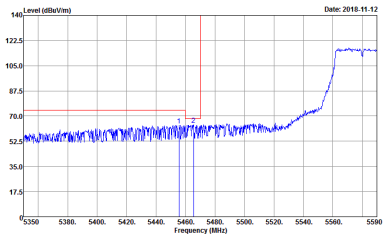
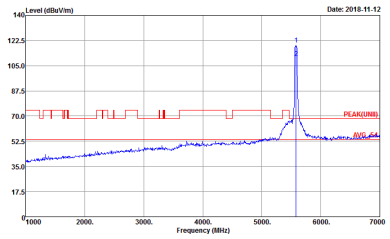
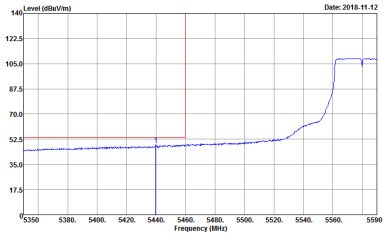
Channel Bandwidth 40MHz (Band Edge @ 3m)

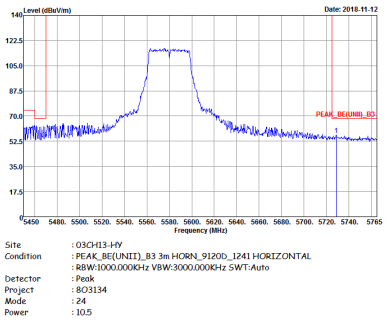
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5500MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	Left blank

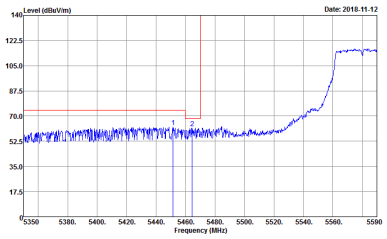
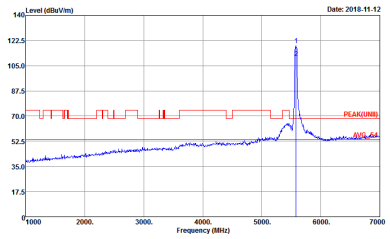
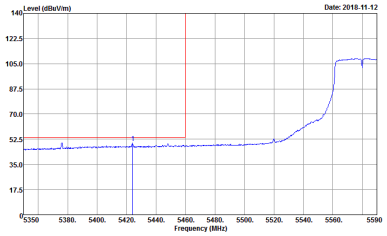
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5500MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	Left blank

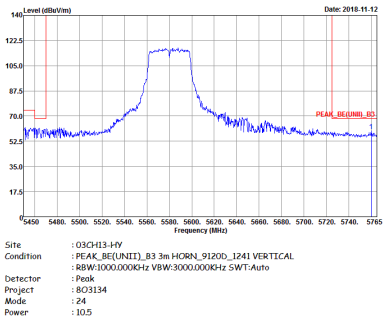
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5500MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	Left blank

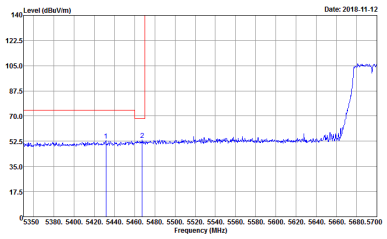
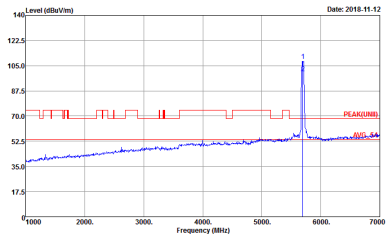
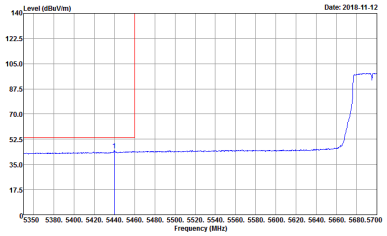
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5500MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 23 Power : 5.5	Left blank

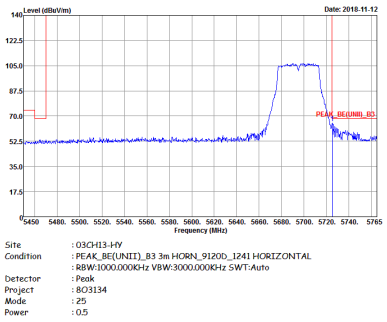
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	Left blank

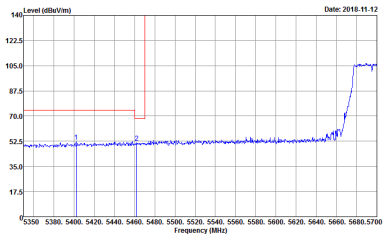
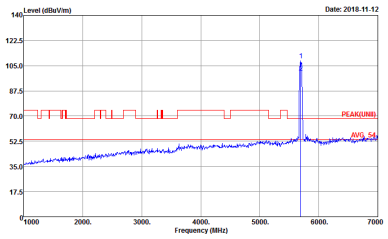
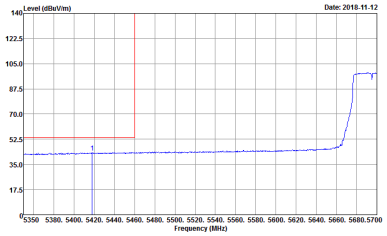
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	Left blank

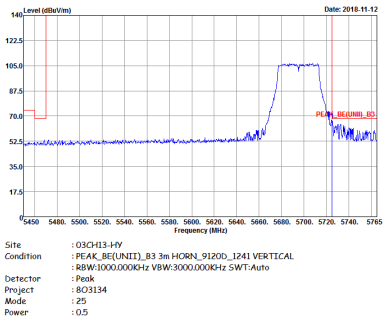
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5695MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	Left blank

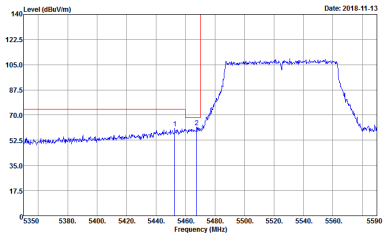
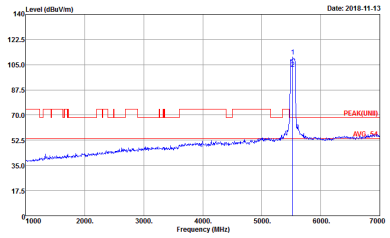
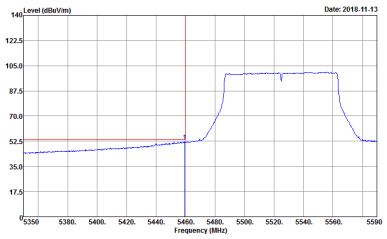
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5695MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	Left blank

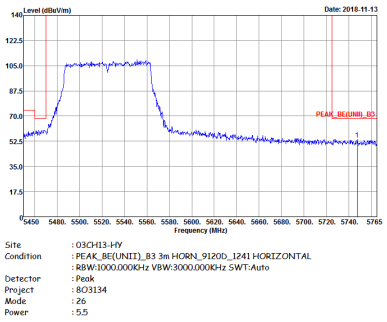
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5695MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	Left blank

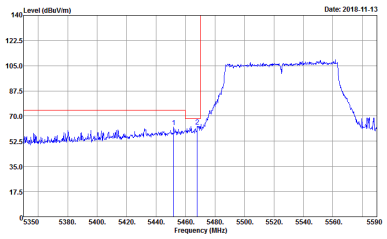
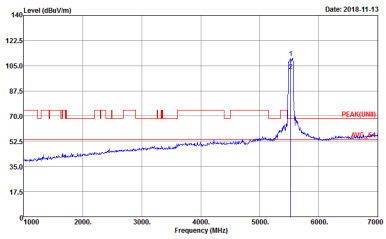
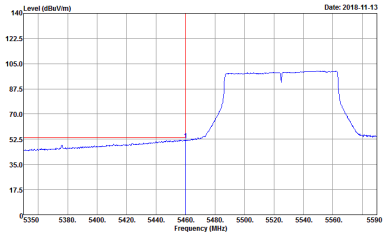
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 40MHz 5695MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

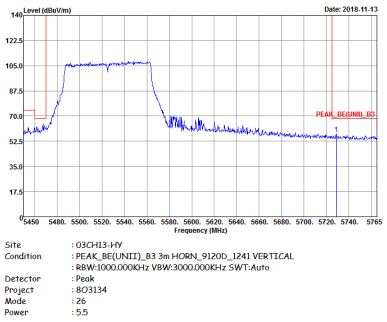
Band 3 5470~5725MHz

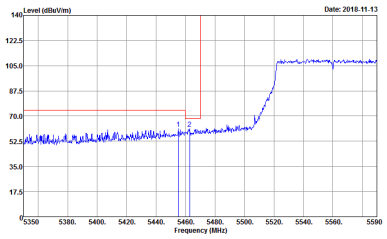
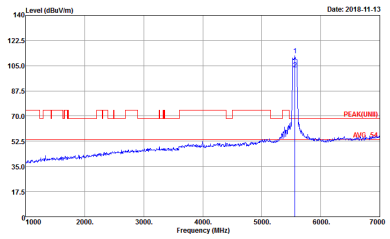
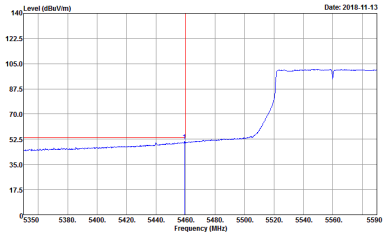
Channel Bandwidth 80MHz (Band Edge @ 3m)

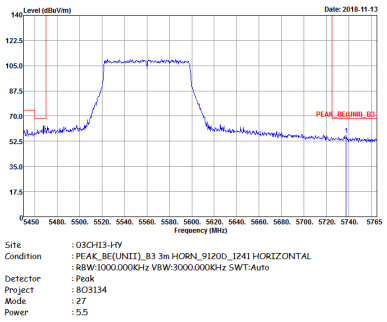
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5525MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

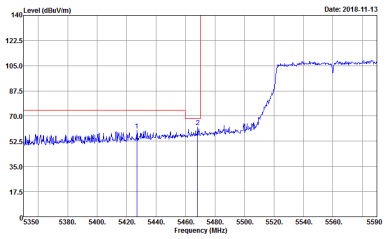
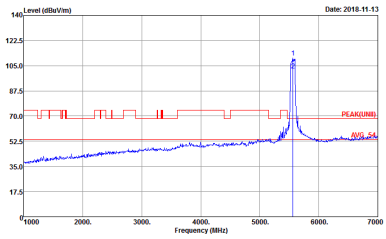
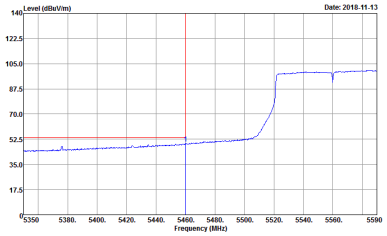
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5525MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

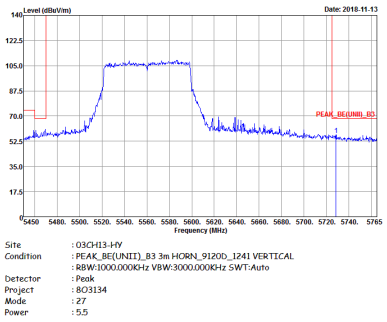
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5525MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 26 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 26 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 26 Power : 5.5	Left blank

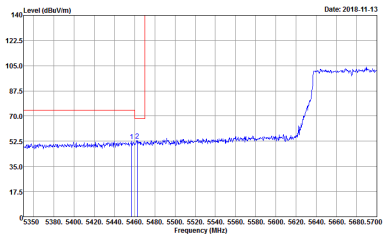
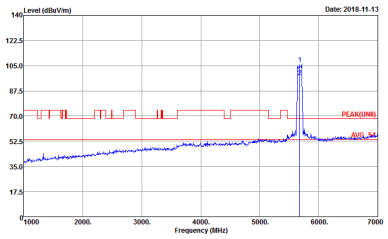
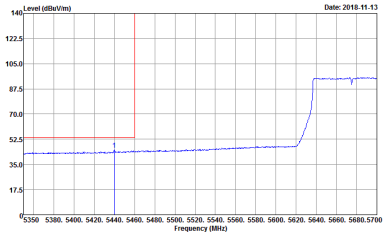
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5525MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 26 Power : 5.5	Left blank

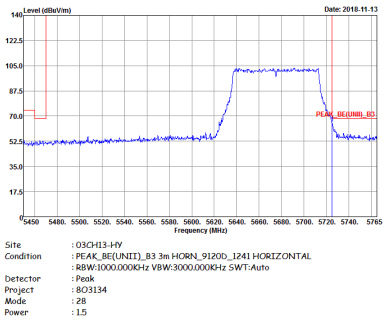
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5560MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	Left blank

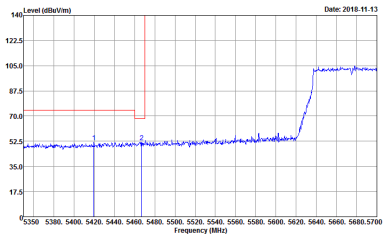
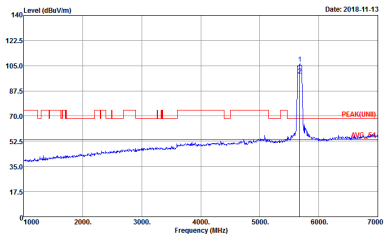
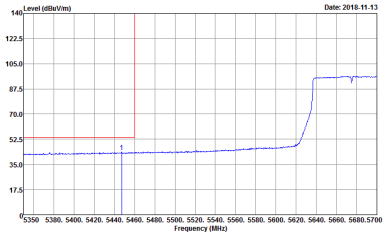
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5560MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	Left blank

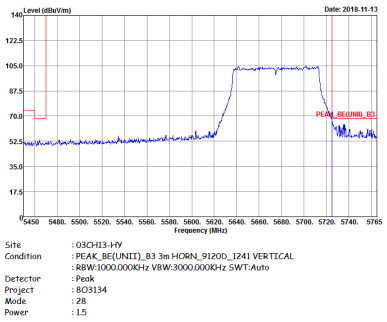
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5560MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5560MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5675MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	Left blank

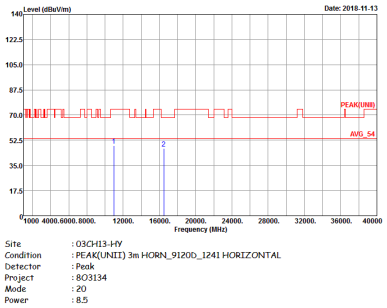
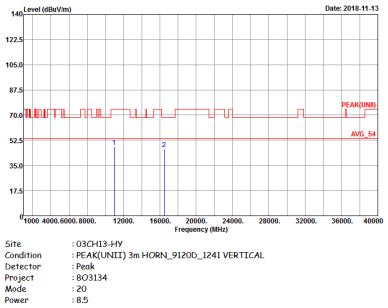
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5675MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	Left blank

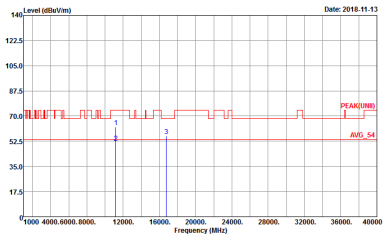
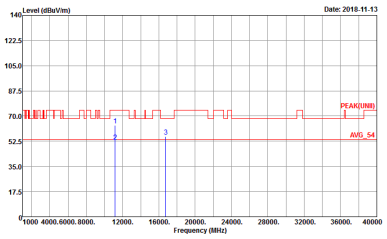
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5675MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	Left blank

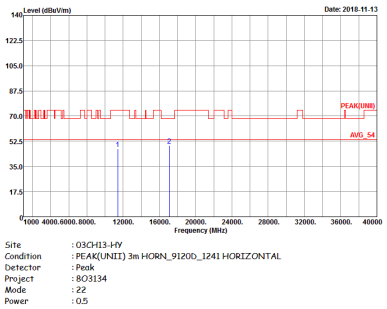
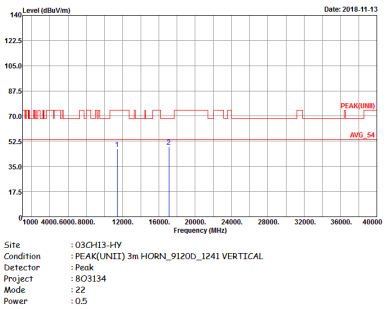
	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	Ch. BW 80MHz 5675MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	Left blank

Band 3 - 5470~5725MHz

Channel Bandwidth 20MHz (Harmonic @ 3m)

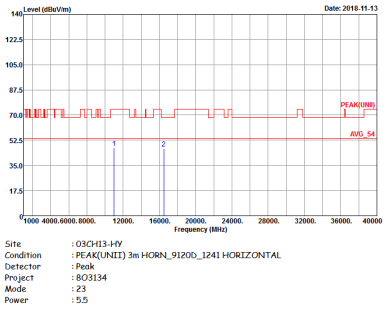
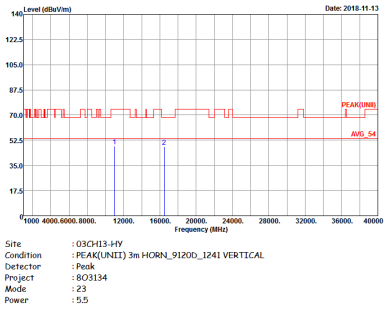
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5490MHz	
1+2	Horizontal	Vertical
Peak Avg.		

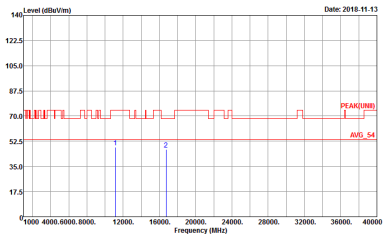
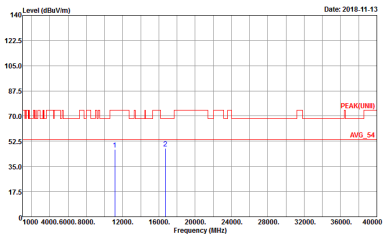
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5590MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 21 Power : 18.5

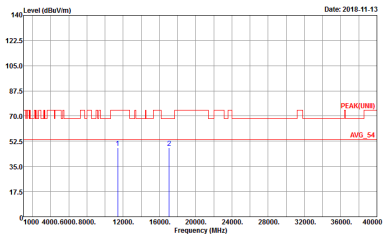
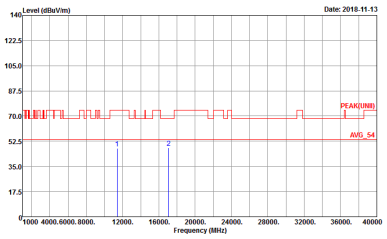
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 20MHz 5705MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 22 Power : 0.5

Band 3 5470~5725MHz

Channel Bandwidth 40MHz (Harmonic @ 3m)

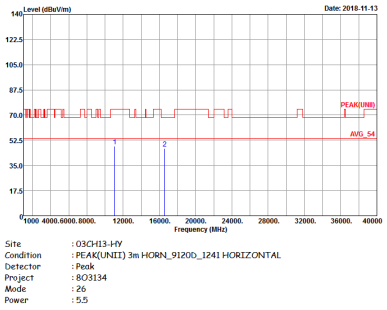
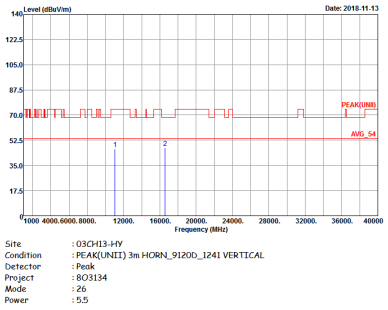
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

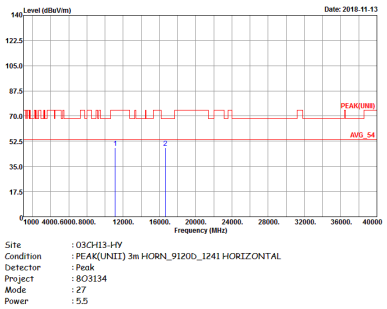
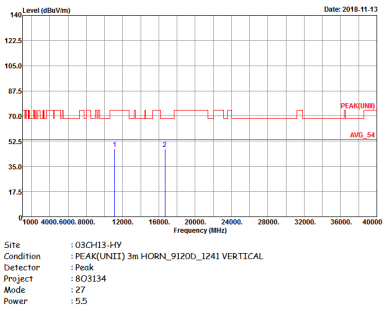
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 24 Power : 10.5

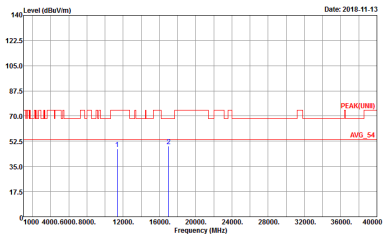
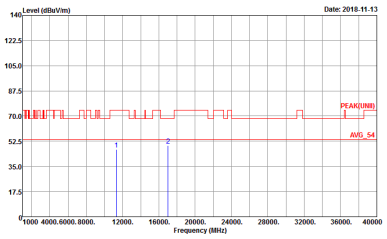
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 40MHz 5695MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 25 Power : 0.5

Band 3 5470~5725MHz

Channel Bandwidth 80MHz (Harmonic @ 3m)

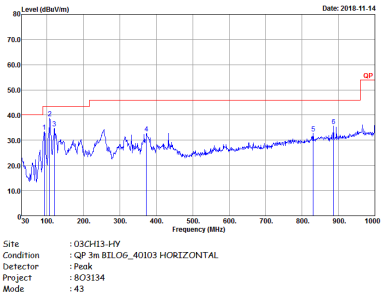
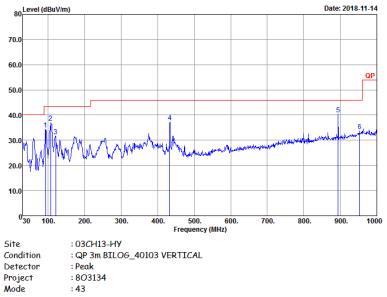
	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5525MHz	
1+2	Horizontal	Vertical
Peak Avg.		

	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5560MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 27 Power : 5.5

	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	Ch. BW 80MHz 5675MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 8O3134 Mode : 28 Power : 1.5

Emission below 1GHz

Channel Bandwidth 20MHz (LF)

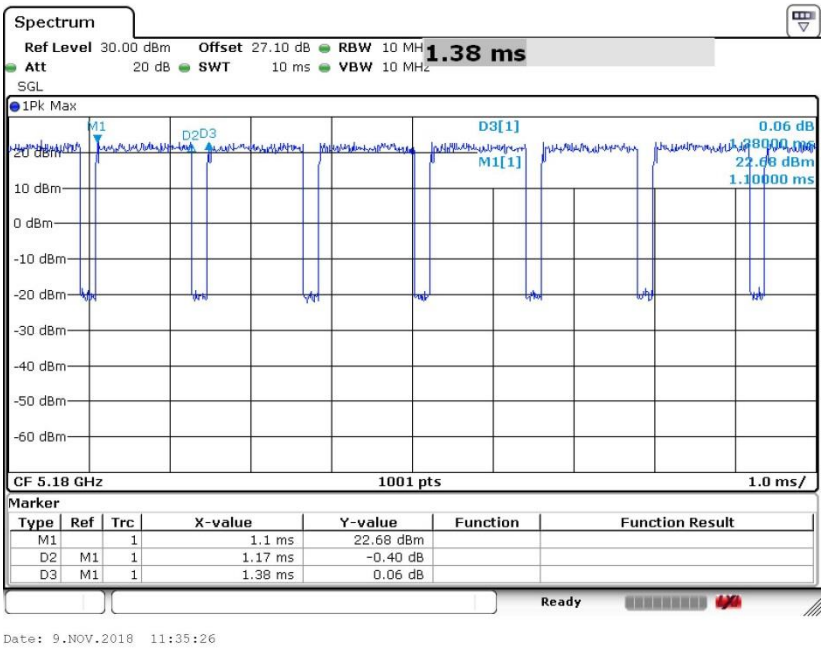
	5GHz	
ANT	Ch. BW 20MHz LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

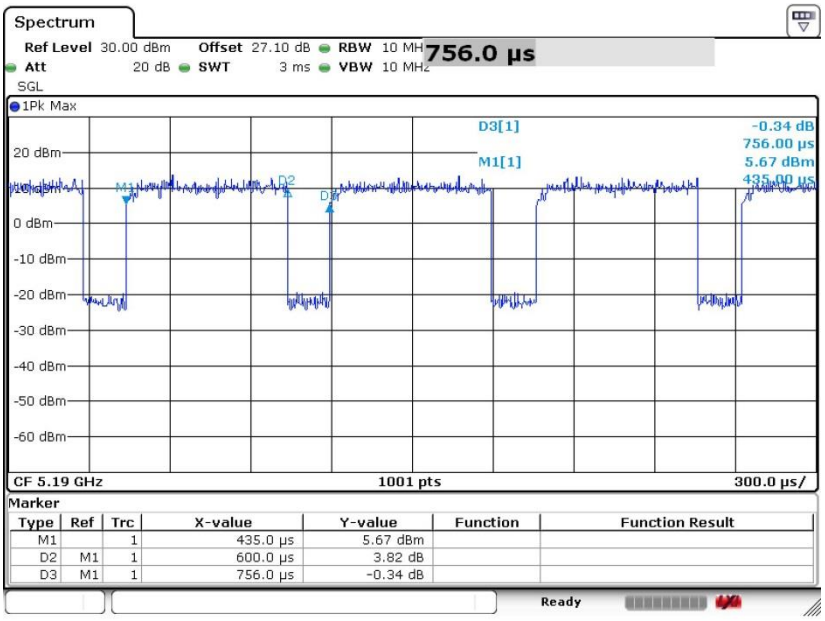
Antenna	Channel Bandwidth	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	20 MHz for Ant. 1	84.78	1170	0.85	1kHz	0.72
1+2	20 MHz for Ant. 2	85.61	1190	0.84	1kHz	0.67
1+2	40 MHz for Ant. 1	79.37	600	1.67	3kHz	1.00
1+2	40 MHz for Ant. 2	79.05	600	1.67	3kHz	1.02
1+2	80 MHz for Ant. 1	34.69	680	1.47	3kHz	4.60
1+2	80 MHz for Ant. 2	34.54	670	1.49	3kHz	4.62

<MIMO Ant. 1>

20 MHz

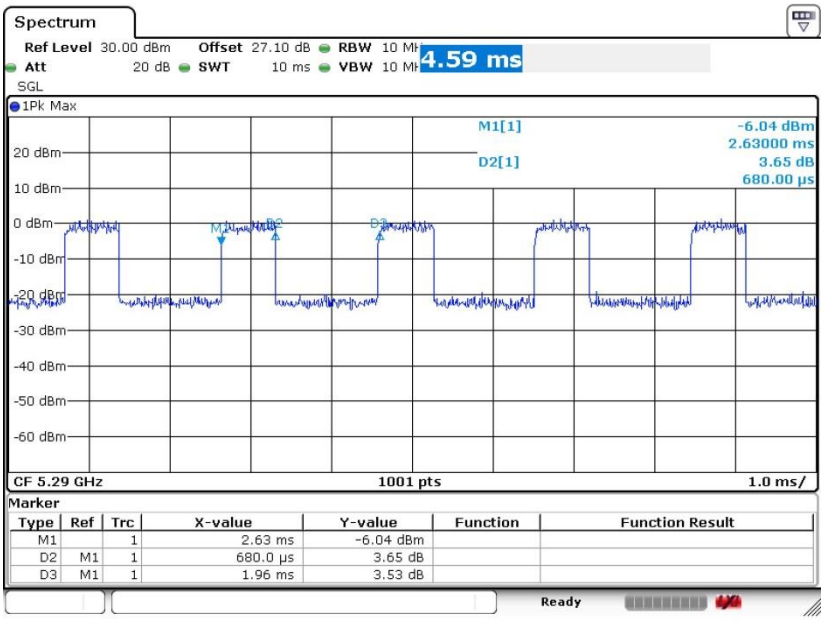


40 MHz



Date: 9.NOV.2018 14:09:28

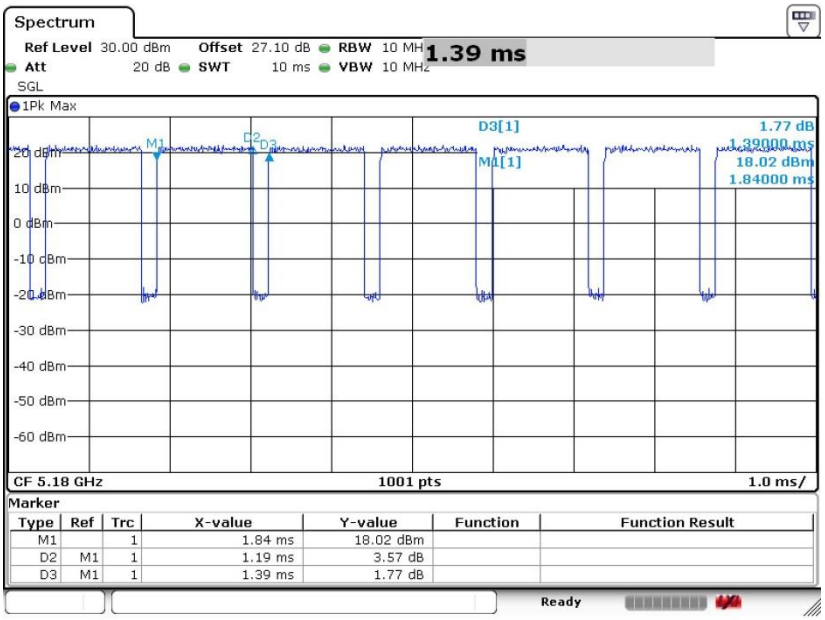
80 MHz



Date: 13.NOV.2018 01:38:03

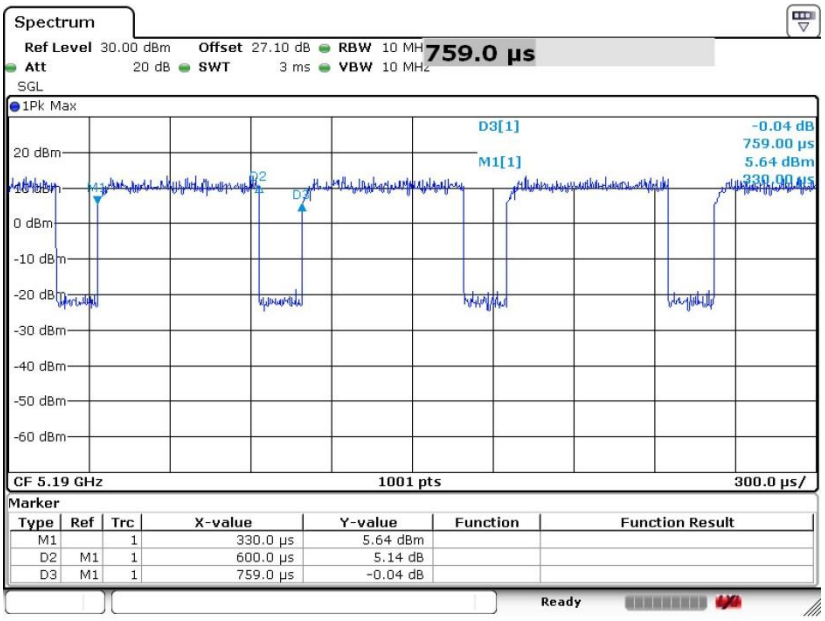
<MIMO Ant. 2>

20 MHz



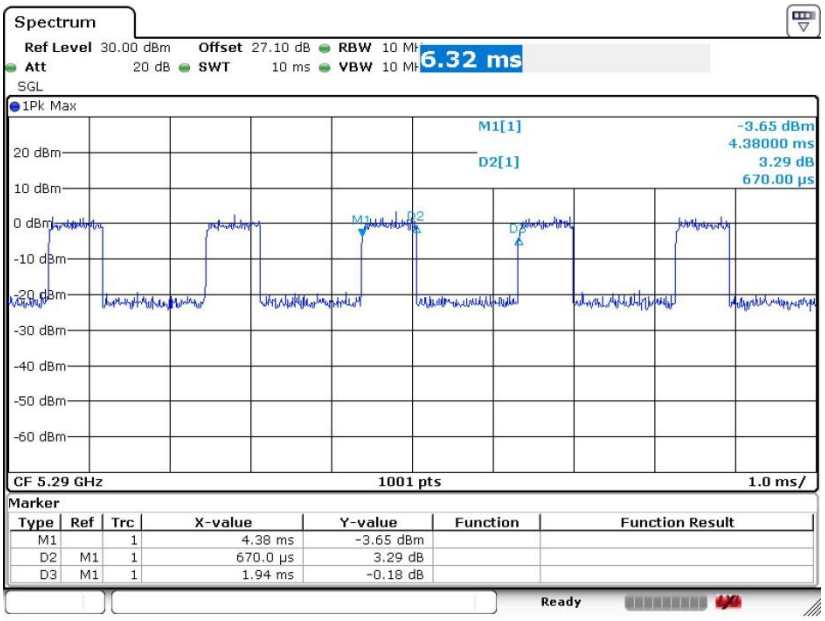
Date: 9.NOV.2018 11:36:29

40 MHz



Date: 9.NOV.2018 14:12:37

80 MHz


Spectrum
Ref Level 30.00 dBm Offset 27.10 dB RBW 10 MHz
Att 20 dB SWT 10 ms VBW 10 MHz
6.32 ms
SGL
1Pk Max
M1[1] -3.65 dBm
4.38000 ms
D2[1] 3.29 dB
670.00 µs
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.29 GHz
1001 pts
1.0 ms/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 4.38 ms -3.65 dBm
D2 M1 1 670.0 µs 3.29 dB
D3 M1 1 1.94 ms -0.18 dB
Ready
Date: 13.NOV.2018 01:38:44