FCC RADIO TEST REPORT

FCC ID	:	**ACJFZA3A**
Equipment	:	**Tablet Computer**
Brand Name	:	**Panasonic**
Model Name	:	**FZ-A3**
Marketing Name	:	**FZ-A3**
Applicant	:	**Panasonic Corporation of North America Two Riverfront Plaza, 9th Floor, Newark, NJ 07102-5490**
Manufacturer	:	**Panasonic Mobile Communications Co., Ltd. 600 Saedo-cho, Tsuzuki-ku, Yokohama City 224-8539, Japan**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on May 19, 2020 and testing was started from May 28, 2020 and completed on Jun. 26, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issued Date
FR992410-06A	01	Initial issue of report	Jun. 17, 2020
FR992410-06A	02	Remove sample list	Jun. 19, 2020
FR992410-06A	03	Add test data in appendix.	Jun. 24, 2020
FR992410-06A	04	Revising test data in appendix and antenna information.	Jun. 26, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.247(a)(2)	6dB Bandwidth	Not Required	-
-	2.1049	99% Occupied Bandwidth	Not Required	-
3.1	15.247(b)	Power Output Measurement	Pass	-
-	15.247(e)	Power Spectral Density	Not Required	-
-	15.247(d)	Conducted Band Edges	Not Required	-
		Conducted Spurious Emission	Not Required	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 0.22 dB at 2389.660 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 4.03 dB at 13.560 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Note:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by adding Vehicle Dock and External Antenna. All the test cases were performed on original report which can be referred to Sporton Report Number FR992410-01C. Based on the original report, the test cases were verified.

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

Reviewed by: Wii Chang

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WLAN: **<Ant. 0>** Monopole Antenna **<Ant. 1>** Monopole Antenna Bluetooth: **<Ant. 0>** Monopole Antenna GNSS: Monopole Antenna NFC: Loop Antenna

Accessories Information		
AC Adapter	**Brand Name**	Panasonic
	Model Name	CF-AA6413A
Battery 1 (Small)	**Brand Name**	Panasonic
	Model Name	FZ-VZSUT10U
Battery 2 (Large)	**Brand Name**	Panasonic
	Model Name	FZ-VZSUT11U
USB Cable 1	**Brand Name**	Panasonic
	Model Name	K1HY24YY0021
USB Cable 2	**Brand Name**	ELECOM
	Model Name	USB3-AC10BK
Gadget 1 (2nd USB)	**Brand Name**	Panasonic
	Model Name	N/A
Gadget 2 (BCR)	**Brand Name**	Panasonic
	Model Name	N/A
Cradle	**Brand Name**	Panasonic
	Model Name	FZ-VEBA21U
Shoulder Strap	**Brand Name**	Panasonic
	Model Name	CF-VNS331U
Stylus Pen	**Brand Name**	Panasonic
	Model Name	CF-VNP025U
Vehicle Dock	**Brand Name**	Havis
	Model Name	DS-PAN-1401-2
External antenna (2.4G+5G+GNSS)	**Brand Name**	Airgain
	Model Name	AP-PAN-MMF WG-Q-BL

Remark: The WLAN external antenna can only be connected to the WLAN ant 1 external antenna port of EUT.

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY

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

FCC designation No.: TW1190 and TW0007

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 C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

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

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0

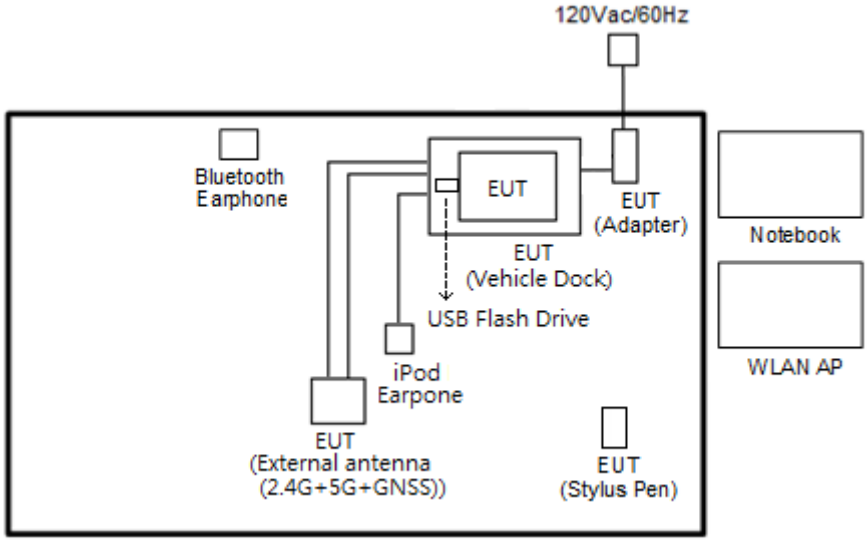
Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WALN (2.4GHz) Link + Battery 1 + Earphone + Adapter connect to Docking + MPEG4 (Color bar) + NFC On + USB 2.0 data link with USB Flash Device (USB Flash Drive to SD Card) + WLAN External Antenna connect to Docking + GPS External Antenna connect to Docking + SD Card + Stylus Pen + Docking (USB link with USB Flash Device (SD Card to USB Flash Drive) + RJ45 (Load).
Remark: For Radiated Test Cases, the tests were performed with Battery 1.	

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
		02		04
Middle	06	06	06	06
High	11	10	11	08
		11		09

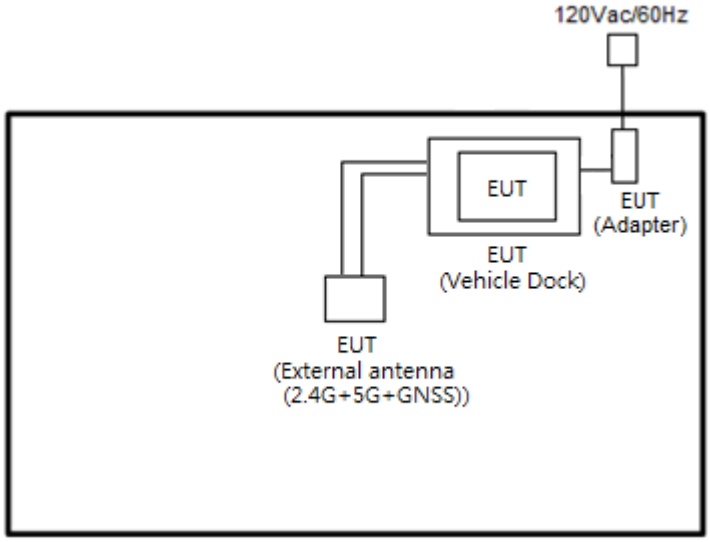
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	USB Flash Drive	Kinston	DTDUO3C /32GB	FCC DoC	N/A	N/A
4.	USB Flash Drive	ADATA	C906	FCC DoC	N/A	N/A
5.	USB Flash Drive	Transcend	C21002	FCC DoC	N/A	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
8.	Notebook	DELL	Latitude E5480	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 “QRCT4 V4.0-00156” 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.

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

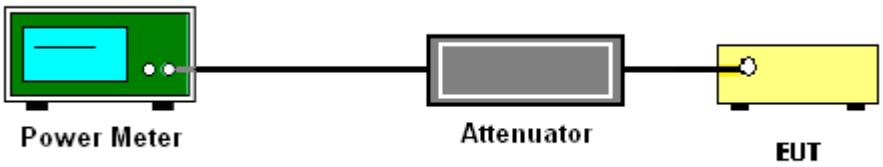
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.1.4 Test Setup



3.1.5 Test Result of Average Output Power

Please refer to Appendix A.

3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.2.2 Measuring Instruments

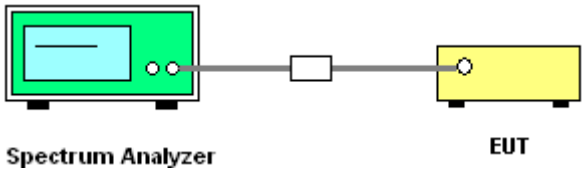
See list of measuring equipment of this test report.

3.2.3 Test Procedures

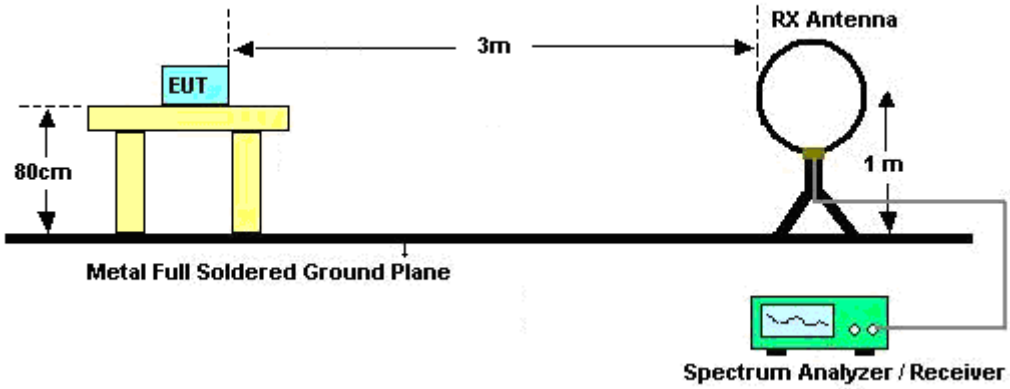
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - 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.

3.2.4 Test Setup

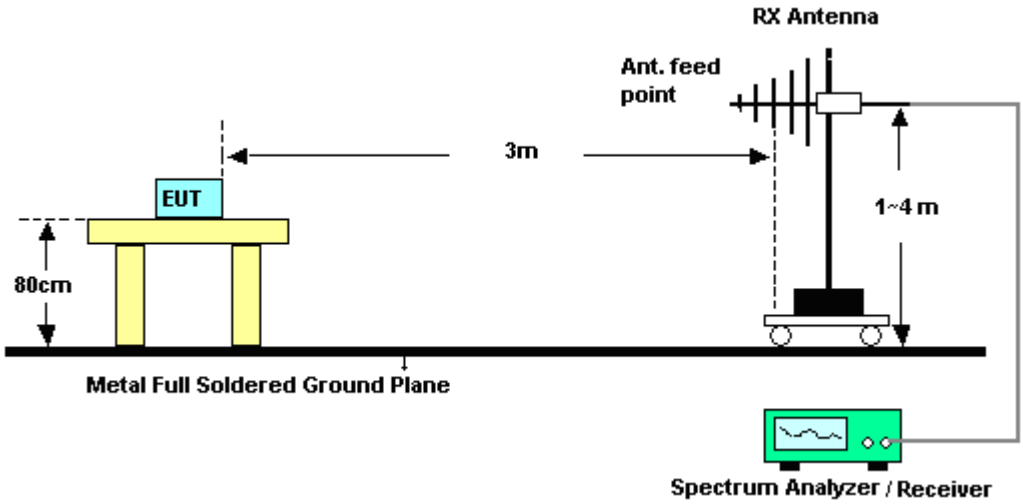
For Conducted Measurement Setup



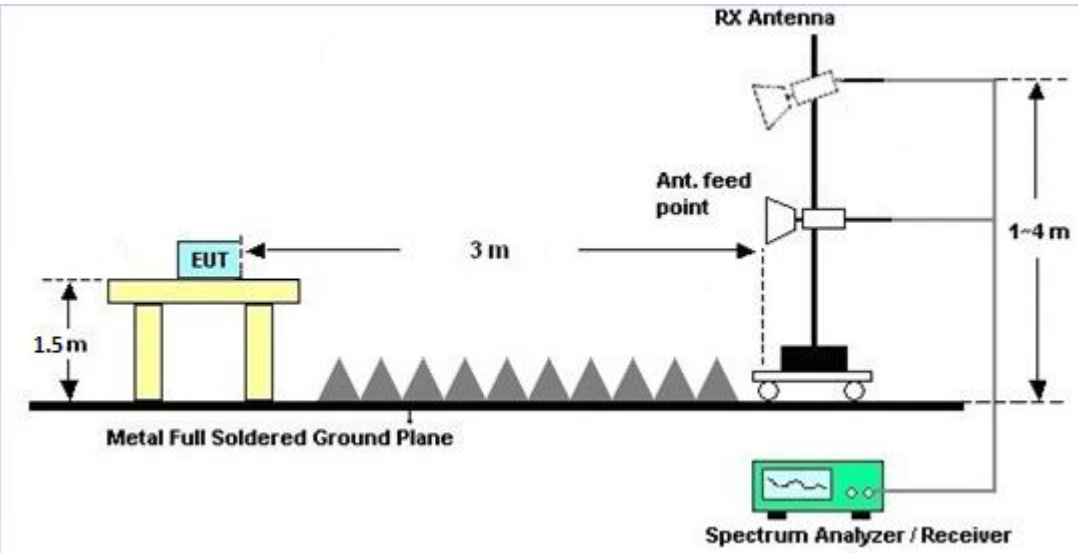
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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.

3.2.6 Test Result of Conduced Spurious and Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.2.7 Duty Cycle

Please refer to Appendix E.

3.2.8 Test Result of Conduced Spurious and Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.2.9 Test Result of Cabinet Radiated Spurious at Band Edges

Please refer to Appendix F and G.

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

Please refer to Appendix F and G.

3.3 AC Conducted Emission Measurement

3.3.1 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.

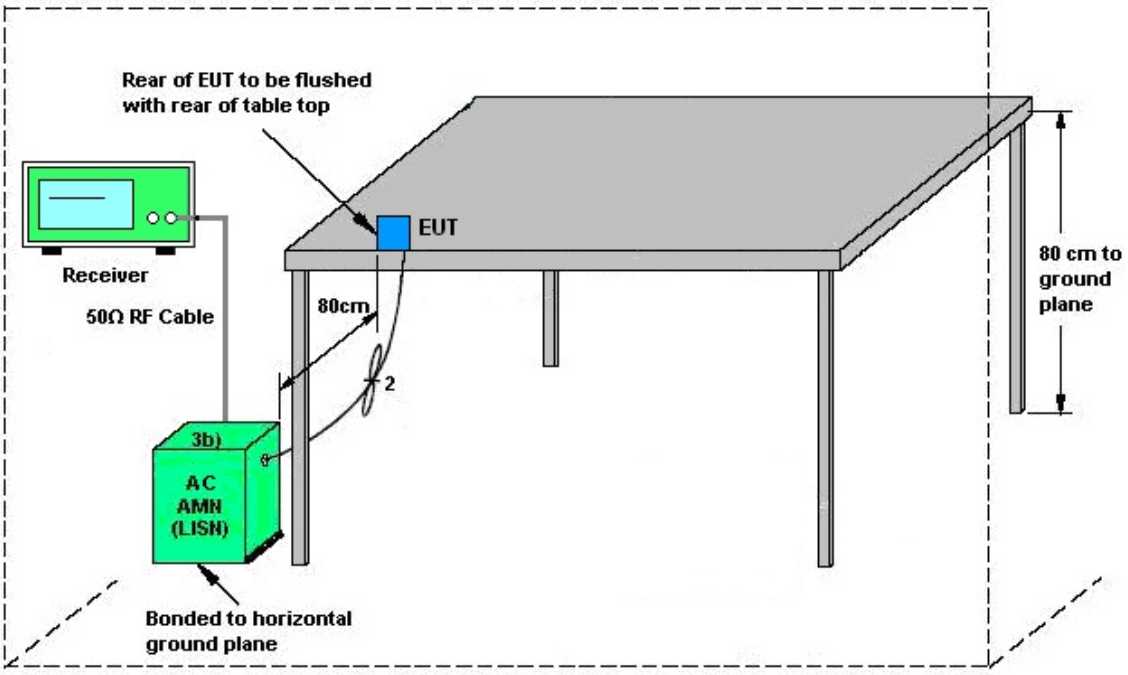
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.3.4 Test Setup



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

3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.4.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 0 (dBi)	Ant. 1 (dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	2.00	4.30	4.30	6.24	0.00	0.24

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMCE	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Jun. 05, 2020~ Jun. 21, 2020	Dec. 12, 2020	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	Jun. 05, 2020~ Jun. 21, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55303K	1710001800054002	1GHz~18GHz	Feb. 07, 2020	Jun. 05, 2020~ Jun. 21, 2020	Feb. 06, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	May 22, 2020	Jun. 05, 2020~ Jun. 21, 2020	May 21, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	Jun. 05, 2020~ Jun. 21, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 28, 2019	Jun. 05, 2020~ Jun. 21, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 05, 2020~ Jun. 21, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 05, 2020~ Jun. 21, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 05, 2020~ Jun. 21, 2020	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 05, 2020~ Jun. 21, 2020	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Jun. 05, 2020~ Jun. 21, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Jun. 05, 2020~ Jun. 21, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Jun. 05, 2020~ Jun. 21, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Jun. 05, 2020~ Jun. 21, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 15, 2019	Jun. 05, 2020~ Jun. 21, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 28, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	May 28, 2020	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	May 28, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 28, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	May 28, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	May 28, 2020	Jan. 01, 2021	Conduction (CO05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	34893241	N/A	Mar. 02, 2020	Jun. 19, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO31	10MHz~6GHz	Jan. 22, 2020	Jun. 19, 2020	Jan. 21 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	Jun. 19, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Aug. 14, 2019	Jun. 19, 2020	Aug. 13, 2020	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067	N/A	Aug. 15, 2019	Jun. 19, 2020	Aug. 14, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101909	10Hz~40GHz	May 19, 2020	Jun. 22, 2020~ Jun. 26, 2020	May 18, 2021	Conducted (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4	30M-18G	Apr. 14, 2020	Jun. 22, 2020~ Jun. 26, 2020	Apr. 13, 2021	Conducted (TH05-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Jun. 22, 2020~ Jun. 26, 2020	Mar. 11, 2021	Conducted (TH05-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 15, 2019	Jun. 22, 2020~ Jun. 26, 2020	Sep. 14, 2020	Conducted (TH05-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN1	3 GHz Highpass	Sep. 15, 2019	Jun. 22, 2020~ Jun. 26, 2020	Sep. 14, 2020	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Owen Yang	Temperature:	22~25	°C
Test Date:	2020/6/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	16.20	16.10		30.00	30.00	2.00	4.30	18.20	20.40	36.00	36.00	Pass
11b	1Mbps	1	6	2437	16.30	16.20		30.00	30.00	2.00	4.30	18.30	20.50	36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.10	16.10		30.00	30.00	2.00	4.30	18.10	20.40	36.00	36.00	Pass
11g	6Mbps	1	1	2412	13.20	13.00		30.00	30.00	2.00	4.30	15.20	17.30	36.00	36.00	Pass
11g	6Mbps	1	2	2417	16.10	16.00		30.00	30.00	2.00	4.30	18.10	20.30	36.00	36.00	Pass
11g	6Mbps	1	6	2437	17.40	17.10		30.00	30.00	2.00	4.30	19.40	21.40	36.00	36.00	Pass
11g	6Mbps	1	10	2457	17.20	17.10		30.00	30.00	2.00	4.30	19.20	21.40	36.00	36.00	Pass
11g	6Mbps	1	11	2462	13.20	13.00		30.00	30.00	2.00	4.30	15.20	17.30	36.00	36.00	Pass
HT20	MCS0	1	1	2412	12.50	12.00	-	30.00	30.00	2.00	4.30	14.50	16.30	36.00	36.00	Pass
HT20	MCS0	1	6	2437	14.70	14.50		30.00	30.00	2.00	4.30	16.70	18.80	36.00	36.00	Pass
HT20	MCS0	1	11	2462	13.10	12.70		30.00	30.00	2.00	4.30	15.10	17.00	36.00	36.00	Pass
HT40	MCS0	1	3	2422	9.50	9.00		30.00	30.00	2.00	4.30	11.50	13.30	36.00	36.00	Pass
HT40	MCS0	1	4	2427	11.10	10.90		30.00	30.00	2.00	4.30	13.10	15.20	36.00	36.00	Pass
HT40	MCS0	1	6	2437	14.00	13.80		30.00	30.00	2.00	4.30	16.00	18.10	36.00	36.00	Pass
HT40	MCS0	1	8	2447	12.10	11.90		30.00	30.00	2.00	4.30	14.10	16.20	36.00	36.00	Pass
HT40	MCS0	1	9	2452	12.10	12.00		30.00	30.00	2.00	4.30	14.10	16.30	36.00	36.00	Pass
HT20	MCS0	2	1	2412	12.60	12.20	15.41	30.00		4.30		19.71		36.00		Pass
HT20	MCS0	2	6	2437	14.70	14.60	17.66	30.00		4.30		21.96		36.00		Pass
HT20	MCS0	2	11	2462	13.20	13.00	16.11	30.00		4.30		20.41		36.00		Pass
HT40	MCS0	2	3	2422	9.40	9.10	12.26	30.00		4.30		16.56		36.00		Pass
HT40	MCS0	2	4	2427	11.10	11.00	14.06	30.00		4.30		18.36		36.00		Pass
HT40	MCS0	2	6	2437	14.20	13.70	16.97	30.00		4.30		21.27		36.00		Pass
HT40	MCS0	2	8	2447	12.30	12.00	15.16	30.00		4.30		19.46		36.00		Pass
HT40	MCS0	2	9	2452	12.10	12.00	15.06	30.00		4.30		19.36		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

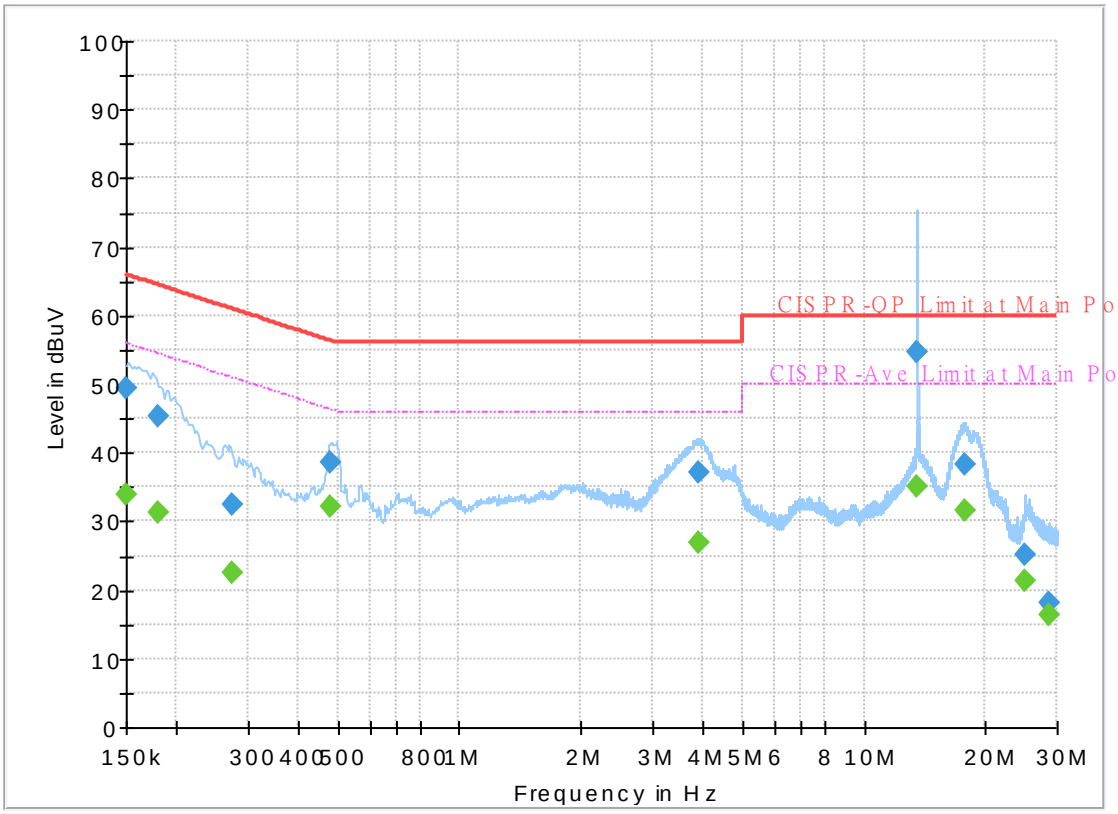
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	21~25℃
		Relative Humidity :	40~45%

EUT Information

Report NO :	992410-06
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



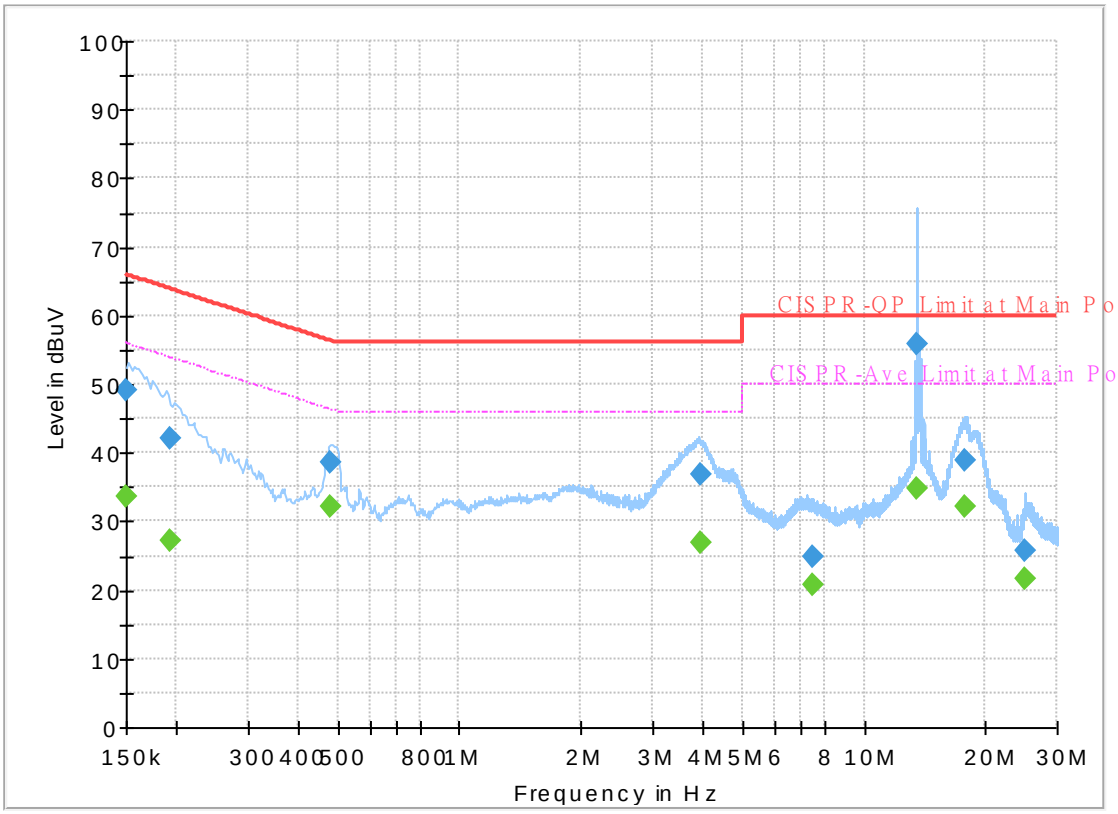
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150810	---	33.82	55.96	22.14	L1	OFF	19.5
0.150810	49.39	---	65.96	16.57	L1	OFF	19.5
0.179250	---	31.41	54.52	23.11	L1	OFF	19.5
0.179250	45.33	---	64.52	19.19	L1	OFF	19.5
0.273750	---	22.59	51.00	28.41	L1	OFF	19.5
0.273750	32.56	---	61.00	28.44	L1	OFF	19.5
0.480210	---	32.20	46.34	14.14	L1	OFF	19.5
0.480210	38.66	---	56.34	17.68	L1	OFF	19.5
3.894000	---	26.99	46.00	19.01	L1	OFF	19.6
3.894000	37.04	---	56.00	18.96	L1	OFF	19.6
13.560000	---	35.18	50.00	14.82	L1	OFF	19.8
13.560000	54.79	---	60.00	5.21	L1	OFF	19.8
17.769750	---	31.70	50.00	18.30	L1	OFF	19.8
17.769750	38.38	---	60.00	21.62	L1	OFF	19.8
25.000170	---	21.42	50.00	28.58	L1	OFF	19.8
25.000170	25.25	---	60.00	34.75	L1	OFF	19.8
28.691250	---	16.41	50.00	33.59	L1	OFF	19.8
28.691250	18.15	---	60.00	41.85	L1	OFF	19.8

EUT Information

Report NO :	992410-06
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	33.56	56.00	22.44	N	OFF	19.5
0.150000	49.15	---	66.00	16.85	N	OFF	19.5
0.192750	---	27.23	53.92	26.69	N	OFF	19.5
0.192750	42.20	---	63.92	21.72	N	OFF	19.5
0.478500	---	32.28	46.37	14.09	N	OFF	19.5
0.478500	38.67	---	56.37	17.70	N	OFF	19.5
3.932250	---	26.92	46.00	19.08	N	OFF	19.6
3.932250	36.83	---	56.00	19.17	N	OFF	19.6
7.460250	---	20.90	50.00	29.10	N	OFF	19.8
7.460250	24.94	---	60.00	35.06	N	OFF	19.8
13.560000	---	34.91	50.00	15.09	N	OFF	19.9
13.560000	55.97	---	60.00	4.03	N	OFF	19.9
17.817000	---	32.02	50.00	17.98	N	OFF	19.9
17.817000	39.00	---	60.00	21.00	N	OFF	19.9
25.001250	---	21.60	50.00	28.40	N	OFF	20.0
25.001250	25.72	---	60.00	34.28	N	OFF	20.0

Appendix C. Conducted Spurious and Radiated Spurious Emission

Test Engineer :	Cookie Ku, Fu Chen and Troye Hsieh	Temperature :	19.1 ~ 24.9°C
		Relative Humidity :	56.7 ~ 68.9%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2332.05	53	-21	74	42.05	27.64	16.56	33.25	177	35	P	H
		2389.38	42.44	-11.56	54	31.53	27.52	16.62	33.23	177	35	A	H
	*	2412	104.68	-	-	93.79	27.48	16.64	33.23	177	35	P	H
	*	2412	101.43	-	-	90.54	27.48	16.64	33.23	177	35	A	H
													H
		2373.735	53.16	-20.84	74	42.25	27.55	16.6	33.24	151	308	P	V
		2389.485	42.15	-11.85	54	31.24	27.52	16.62	33.23	151	308	A	V
	*	2412	100.99	-	-	90.1	27.48	16.64	33.23	151	308	P	V
	*	2412	97.78	-	-	86.89	27.48	16.64	33.23	151	308	A	V
													V
802.11b CH 06 2437MHz		2368.72	52.8	-21.2	74	41.88	27.56	16.6	33.24	168	40	P	H
		2389.68	42.04	-11.96	54	31.13	27.52	16.62	33.23	168	40	A	H
	*	2437	104.24	-	-	93.36	27.43	16.67	33.22	168	40	P	H
	*	2437	101	-	-	90.12	27.43	16.67	33.22	168	40	A	H
		2496.32	52.86	-21.14	74	42.12	27.21	16.74	33.21	168	40	P	H
		2484.72	41.98	-12.02	54	31.21	27.26	16.72	33.21	168	40	A	H
		2317.68	53.87	-20.13	74	42.91	27.66	16.55	33.25	129	270	P	V
		2389.36	42.02	-11.98	54	31.11	27.52	16.62	33.23	129	270	A	V
	*	2437	100.91	-	-	90.03	27.43	16.67	33.22	129	270	P	V
	*	2437	97.66	-	-	86.78	27.43	16.67	33.22	129	270	A	V
		2487.6	53.15	-20.85	74	42.38	27.25	16.73	33.21	129	270	P	V
		2484	41.92	-12.08	54	31.15	27.26	16.72	33.21	129	270	A	V

802.11b CH 11 2462MHz	*	2462	104.44	-	-	93.61	27.35	16.7	33.22	160	37	P	H
	*	2462	101.29	-	-	90.46	27.35	16.7	33.22	160	37	A	H
		2485.48	53.15	-20.85	74	42.38	27.26	16.72	33.21	160	37	P	H
		2483.52	42.47	-11.53	54	31.69	27.27	16.72	33.21	160	37	A	H
													H
													H
	*	2462	101.53	-	-	90.7	27.35	16.7	33.22	128	298	P	V
	*	2462	98.35	-	-	87.52	27.35	16.7	33.22	128	298	A	V
		2495.04	52.49	-21.51	74	41.75	27.22	16.73	33.21	128	298	P	V
		2483.52	42	-12	54	31.22	27.27	16.72	33.21	128	298	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		4824	44.96	-29.04	74	63.46	31	10.94	60.44	100	0	P	H
													H
													H
													H
		4824	47.71	-26.29	74	66.21	31	10.94	60.44	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	42.68	-31.32	74	61.12	31	10.96	60.4	100	0	P	H
		7311	42.23	-31.77	74	51.46	36.5	13.38	59.11	100	0	P	H
													H
													H
		4874	43.78	-30.22	74	62.22	31	10.96	60.4	100	0	P	V
		7311	42.31	-31.69	74	51.54	36.5	13.38	59.11	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	42.4	-31.6	74	60.73	31.05	10.98	60.36	100	0	P	H
		7386	41.91	-32.09	74	51.4	36.36	13.22	59.07	100	0	P	H
													H
													H
		4924	41.16	-32.84	74	59.49	31.05	10.98	60.36	100	0	P	V
		7386	42.14	-31.86	74	51.63	36.36	13.22	59.07	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.8	63.91	-10.09	74	53	27.52	16.62	33.23	158	333	P	H
		2390	51.79	-2.21	54	40.88	27.52	16.62	33.23	158	333	A	H
	*	2412	111.18	-	-	100.29	27.48	16.64	33.23	158	333	P	H
	*	2412	103.37	-	-	92.48	27.48	16.64	33.23	158	333	A	H
													H
		2390	58.3	-15.7	74	47.39	27.52	16.62	33.23	400	19	P	V
		2390	47.53	-6.47	54	36.62	27.52	16.62	33.23	400	19	A	V
	*	2412	105.19	-	-	94.3	27.48	16.64	33.23	400	19	P	V
	*	2412	97.44	-	-	86.55	27.48	16.64	33.23	400	19	A	V
													V
802.11g CH 02 2417MHz		2389.2	53.57	-20.43	74	42.66	27.52	16.62	33.23	103	23	P	H
		2390	42.72	-11.28	54	31.81	27.52	16.62	33.23	103	23	A	H
	*	2417	101.72	-	-	90.83	27.47	16.65	33.23	103	23	P	H
	*	2417	93.75	-	-	82.86	27.47	16.65	33.23	103	23	A	H
												P	H
												A	H
		2383.92	52.31	-21.69	74	41.41	27.53	16.61	33.24	125	59	P	V
		2388.12	42.45	-11.55	54	31.54	27.52	16.62	33.23	125	59	A	V
	*	2417	98.35	-	-	87.46	27.47	16.65	33.23	125	59	P	V
	*	2417	90.65	-	-	79.76	27.47	16.65	33.23	125	59	A	V
												P	V
												A	V

802.11g CH 06 2437MHz		2388.24	64.65	-9.35	74	53.74	27.52	16.62	33.23	100	332	P	H
		2388.08	46.83	-7.17	54	35.92	27.52	16.62	33.23	100	332	A	H
	*	2437	117.28	-	-	106.4	27.43	16.67	33.22	100	332	P	H
	*	2437	109.5	-	-	98.62	27.43	16.67	33.22	100	332	A	H
		2484.24	62.97	-11.03	74	52.2	27.26	16.72	33.21	100	332	P	H
		2485.44	46.33	-7.67	54	35.56	27.26	16.72	33.21	100	332	A	H
		2387.6	55.81	-18.19	74	44.9	27.52	16.62	33.23	400	6	P	V
		2390	43.29	-10.71	54	32.38	27.52	16.62	33.23	400	6	A	V
	*	2437	109.9	-	-	99.02	27.43	16.67	33.22	400	6	P	V
	*	2437	102.22	-	-	91.34	27.43	16.67	33.22	400	6	A	V
		2484.4	55.35	-18.65	74	44.58	27.26	16.72	33.21	400	6	P	V
		2484.72	43.34	-10.66	54	32.57	27.26	16.72	33.21	400	6	A	V
802.11g CH 10 2457MHz	*	2457	106.65	-	-	95.81	27.37	16.69	33.22	123	146	P	H
	*	2457	99.08	-	-	88.24	27.37	16.69	33.22	123	146	A	H
		2484.15	61.17	-12.83	74	50.4	27.26	16.72	33.21	123	146	P	H
		2483.55	49.88	-4.12	54	39.1	27.27	16.72	33.21	123	146	A	H
												P	H
												A	H
	*	2457	103.3	-	-	92.46	27.37	16.69	33.22	399	99	P	V
	*	2457	95.35	-	-	84.51	27.37	16.69	33.22	399	99	A	V
		2484.15	58.77	-15.23	74	48	27.26	16.72	33.21	399	99	P	V
		2483.5	47.24	-6.76	54	36.46	27.27	16.72	33.21	399	99	A	V
												P	V
												A	V

802.11g CH 11 2462MHz	*	2462	111.82	-	-	100.99	27.35	16.7	33.22	100	330	P	H
	*	2462	103.74	-	-	92.91	27.35	16.7	33.22	100	330	A	H
		2487.95	62.26	-11.74	74	51.49	27.25	16.73	33.21	100	330	P	H
		2483.5	48.92	-5.08	54	38.14	27.27	16.72	33.21	100	330	A	H
													H
													H
	*	2462	104.47	-	-	93.64	27.35	16.7	33.22	400	10	P	V
	*	2462	96.51	-	-	85.68	27.35	16.7	33.22	400	10	A	V
		2487.25	56.5	-17.5	74	45.73	27.25	16.73	33.21	400	10	P	V
		2483.6	44.71	-9.29	54	33.93	27.27	16.72	33.21	400	10	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11g CH 01 2412MHz		4824	41.05	-32.95	74	59.55	31	10.94	60.44	100	0	P	H
													H
													H
													H
		4824	40.47	-33.53	74	58.97	31	11.45	60.44	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	41.68	-32.32	74	60.12	31	10.96	60.4	100	0	P	H
		7311	43.21	-30.79	74	52.44	36.5	13.38	59.11	100	0	P	H
													H
													H
		4874	41.05	-32.95	74	59.49	31	10.96	60.4	100	0	P	V
		7311	42.78	-31.22	74	52.01	36.5	13.38	59.11	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	41.17	-32.83	74	59.5	31.05	10.98	60.36	100	0	P	H
		7386	42.75	-31.25	74	52.24	36.36	13.22	59.07	100	0	P	H
													H
													H
		4924	40.43	-33.57	74	58.76	31.05	10.98	60.36	100	0	P	V
		7386	43.17	-30.83	74	52.66	36.36	13.22	59.07	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Test Engineer :	Andy Kao	Temperature :	23.6°C~24.1°C
		Relative Humidity :	52.7%~53.3%

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
0		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		2389.905	-32.2	-11	-21.2	-42.57	6.24	1.12	3.01	-	P
802.11n		2390.01	-45.84	-4.64	-41.2	-56.21	6.24	1.12	3.01	-	A
HT20	*	2412	16.79	-	-	6.42	6.24	1.12	3.01	-	P
CH 01	*	2412	6.57	-	-	-3.8	6.24	1.12	3.01	-	A
2412MHz											
		2388.82	-32.28	-11.08	-21.2	-42.65	6.24	1.12	3.01	-	P
802.11n		2389.1	-49.95	-8.75	-41.2	-60.32	6.24	1.12	3.01	-	A
HT20	*	2437	18.29		-	7.91	6.24	1.13	3.01	-	P
CH 06	*	2437	8.66		-	-1.72	6.24	1.13	3.01	-	A
2437MHz		2483.83	-34.23	-13.03	-21.2	-44.62	6.24	1.14	3.01	-	P
		2484.32	-50.12	-8.92	-41.2	-60.51	6.24	1.14	3.01	-	A
	*	2462	16.3		-	5.91	6.24	1.14	3.01	-	P
802.11n	*	2462	6.53		-	-3.86	6.24	1.14	3.01	-	A
HT20		2485.16	-32.48	-11.28	-21.2	-42.87	6.24	1.14	3.01	-	P
CH 11		2483.56	-47.76	-6.56	-41.2	-58.15	6.24	1.14	3.01	-	A
2462MHz											

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant. 0		(MHz)	(dBm)	Limit (dB)	Line (dBm)	Level (dBm)	Gain (dBi)	Loss (dB)	Factor (dB)	Factor (dB)	Avg. (P/A)
802.11n		4824	-51.49	-30.29	-21.2	-64.17	6.24	3.43	3.01	-	P
HT20											
CH 01											
2412MHz											
802.11n		4874	-47.17	-25.97	-21.2	-59.85	6.24	3.43	3.01	-	P
HT20		7311	-55.25	-34.05	-21.2	-68.79	6.24	4.29	3.01	-	P
CH 06											
2437MHz											
802.11n		4924	-52.67	-31.47	-21.2	-65.35	6.24	3.43	3.01	-	P
HT20		7386	-54.33	-33.13	-21.2	-67.86	6.24	4.28	3.01	-	P
CH 11											
2462MHz											

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
		2389.94	-32.64	-11.44	-21.2	-43.01	6.24	1.12	3.01	-	P
802.11n		2388.54	-43.8	-2.6	-41.2	-54.17	6.24	1.12	3.01	-	A
HT40	*	2422	10.22		-	-0.15	6.24	1.12	3.01	-	P
CH 03	*	2422	1.36		-	-9.01	6.24	1.12	3.01	-	A
2422MHz		2487.4	-36.58	-15.38	-21.2	-46.97	6.24	1.14	3.01	-	P
		2483.62	-50.38	-9.18	-41.2	-60.77	6.24	1.14	3.01	-	A
		2389.66	-29.74	-8.54	-21.2	-40.11	6.24	1.12	3.01	-	P
802.11n		2389.66	-41.42	-0.22	-41.2	-51.79	6.24	1.12	3.01	-	A
HT40	*	2427	11.91		-	1.54	6.24	1.12	3.01	-	P
CH 04	*	2427	2.97		-	-7.4	6.24	1.12	3.01	-	A
2427MHz		2485.51	-34.39	-13.19	-21.2	-44.78	6.24	1.14	3.01	-	P
		2484.81	-50.21	-9.01	-41.2	-60.6	6.24	1.14	3.01	-	A
		2389.52	-29.1	-7.9	-21.2	-39.47	6.24	1.12	3.01	-	P
802.11n		2389.66	-42.53	-1.33	-41.2	-52.9	6.24	1.12	3.01	-	A
HT40	*	2438	14.36	35.56	-21.2	3.98	6.24	1.13	3.01	-	P
CH 06	*	2434	5.28	46.48	-41.2	-5.09	6.24	1.12	3.01	-	A
2437MHz		2483.97	-27.9	-6.7	-21.2	-38.29	6.24	1.14	3.01	-	P
		2483.62	-42.85	-1.65	-41.2	-53.24	6.24	1.14	3.01	-	A

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge)

WIFI Ant. 0	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
802.11n HT40 CH 08 2447MHz		2387.7	-36.46	-15.26	-21.2	-46.83	6.24	1.12	3.01	-	P
		2389.52	-50.21	-9.01	-41.2	-60.58	6.24	1.12	3.01	-	A
	*	2447	13.21	-	-	2.83	6.24	1.13	3.01	-	P
	*	2447	4.02	-	-	-6.36	6.24	1.13	3.01	-	A
		2484.74	-30.42	-9.22	-21.2	-40.81	6.24	1.14	3.01	-	P
		2483.48	-42.84	-1.64	-41.2	-53.23	6.24	1.14	3.01	-	A
802.11n HT40 CH 09 2452MHz		2387.28	-36.42	-15.22	-21.2	-46.79	6.24	1.12	3.01	-	P
		2389.94	-50.59	-9.39	-41.2	-60.96	6.24	1.12	3.01	-	A
	*	2452	10.59	-	-	0.2	6.24	1.14	3.01	-	P
	*	2452	1.91	-	-	-8.48	6.24	1.14	3.01	-	A
		2484.11	-31.55	-10.35	-21.2	-41.94	6.24	1.14	3.01	-	P
		2483.55	-45.11	-3.91	-41.2	-55.5	6.24	1.14	3.01	-	A

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant. 0		(MHz)	(dBm)	Limit (dB)	Line (dBm)	Level (dBm)	Gain (dBi)	Loss (dB)	Factor (dB)	Factor (dB)	Avg. (P/A)
802.11n		4844	-52.22	-31.02	-21.2	-64.9	6.24	3.43	3.01	-	P
HT40		7266	-54.74	-33.54	-21.2	-68.29	6.24	4.3	3.01	-	P
CH 03											
2422MHz											
802.11n		4854	-50.47	-29.27	-21.2	-63.16	6.24	3.44	3.01	-	P
HT40		7281	-53.88	-32.68	-21.2	-67.42	6.24	4.29	3.01	-	P
CH 04											
2427MH											
802.11n		4874	-51.22	-30.02	-21.2	-63.9	6.24	3.43	3.01	-	P
HT40		7311	-53.42	-32.22	-21.2	-66.96	6.24	4.29	3.01	-	P
CH 06											
2437MHz											
802.11n		4894	-52.83	-31.63	-21.2	-65.51	6.24	3.43	3.01	-	P
HT40		7341	-54.04	-32.84	-21.2	-67.58	6.24	4.29	3.01	-	P
CH 08											
2447MH											
802.11n		4904	-53.03	-31.83	-21.2	-65.71	6.24	3.43	3.01	-	P
HT40		7356	-54.68	-33.48	-21.2	-68.22	6.24	4.29	3.01	-	P
CH 09											
2452MHz											
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
0		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		84.27	-69.31	-14.11	-55.2	-83.7	6.24	0.44	3.01	4.7	P
		166.08	-75.08	-23.38	-51.7	-89.58	6.24	0.55	3.01	4.7	P
		219.81	-75.11	-25.91	-49.2	-89.65	6.24	0.59	3.01	4.7	P
		351.8	-74.83	-25.63	-49.2	-89.48	6.24	0.7	3.01	4.7	P
2.4GHz		760.6	-65.34	-16.14	-49.2	-80.36	6.24	1.07	3.01	4.7	P
802.11n		951	-60.55	-11.35	-49.2	-75.87	6.24	1.37	3.01	4.7	P
HT40											
LF											

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
		2389.8	-30.83	-9.63	-21.2	-41.2	6.24	1.12	3.01	-	P
802.11n		2389.8	-44.92	-3.72	-41.2	-55.29	6.24	1.12	3.01	-	A
HT20	*	2412	17.63	-	-	7.26	6.24	1.12	3.01	-	P
CH 01	*	2412	7.03	-	-	-3.34	6.24	1.12	3.01	-	A
2412MHz											
		2389.66	-29.77	-8.57	-21.2	-40.14	6.24	1.12	3.01	-	P
802.11n		2389.38	-47.63	-6.43	-41.2	-58	6.24	1.12	3.01	-	A
HT20	*	2437	19.18	-	-	8.8	6.24	1.13	3.01	-	P
CH 06	*	2437	8.87	-	-	-1.51	6.24	1.13	3.01	-	A
2437MHz		2483.62	-29.58	-8.38	-21.2	-39.97	6.24	1.14	3.01	-	P
		2483.48	-48.15	-6.95	-41.2	-58.54	6.24	1.14	3.01	-	A
	*	2462	17.13	-	-	6.74	6.24	1.14	3.01	-	P
802.11n	*	2462	7.34	-	-	-3.05	6.24	1.14	3.01	-	A
HT20		2483.56	-32.99	-11.79	-21.2	-43.38	6.24	1.14	3.01	-	P
CH 11		2483.52	-48.02	-6.82	-41.2	-58.41	6.24	1.14	3.01	-	A
2462MHz											

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant. 1		(MHz)	(dBm)	Limit (dB)	Line (dBm)	Level (dBm)	Gain (dBi)	Loss (dB)	Factor (dB)	Factor (dB)	Avg. (P/A)
802.11n		4824	-50.6	-29.4	-21.2	-63.28	6.24	3.43	3.01	-	P
HT20											
CH 01											
2412MHz											
802.11n		4874	-51.68	-30.48	-21.2	-64.36	6.24	3.43	3.01	-	P
HT20		7311	-52.06	-30.86	-21.2	-65.6	6.24	4.29	3.01	-	P
CH 06											
2437MHz											
802.11n		4924	-53.96	-32.76	-21.2	-66.64	6.24	3.43	3.01	-	P
HT20		7386	-55.43	-34.23	-21.2	-68.96	6.24	4.28	3.01	-	P
CH 11											
2462MHz											

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
		2387.84	-33.54	-12.34	-21.2	-43.91	6.24	1.12	3.01	-	P
802.11n		2389.94	-44.52	-3.32	-41.2	-54.89	6.24	1.12	3.01	-	A
HT40	*	2422	14.67		-	4.3	6.24	1.12	3.01	-	P
CH 03	*	2422	4.64		-	-5.73	6.24	1.12	3.01	-	A
2422MHz		2483.97	-36.53	-15.33	-21.2	-46.92	6.24	1.14	3.01	-	P
		2484.32	-50.38	-9.18	-41.2	-60.77	6.24	1.14	3.01	-	A
		2389.38	-30.63	-9.43	-21.2	-41	6.24	1.12	3.01	-	P
802.11n		2389.8	-43.35	-2.15	-41.2	-53.72	6.24	1.12	3.01	-	A
HT40	*	2427	15.13		-	4.76	6.24	1.12	3.01	-	P
CH 04	*	2427	5.77		-	-4.6	6.24	1.12	3.01	-	A
2427MHz		2484.74	-32.79	-11.59	-21.2	-43.18	6.24	1.14	3.01	-	P
		2483.97	-49.78	-8.58	-41.2	-60.17	6.24	1.14	3.01	-	A
		2389.94	-28.89	-7.69	-21.2	-39.26	6.24	1.12	3.01	-	P
802.11n		2389.94	-42.44	-1.24	-41.2	-52.81	6.24	1.12	3.01	-	A
HT40	*	2437	13.65		-	3.27	6.24	1.13	3.01	-	P
CH 06	*	2437	4.37		-	-6.01	6.24	1.13	3.01	-	A
2437MHz		2484.11	-32.3	-11.1	-21.2	-42.69	6.24	1.14	3.01	-	P
		2483.55	-45.5	-4.3	-41.2	-55.89	6.24	1.14	3.01	-	A

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

2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Gain (dBi)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
802.11n HT40 CH 08 2447MHz		2389.38	-34.79	-13.59	-21.2	-45.16	6.24	1.12	3.01	-	P
		2389.66	-49.31	-8.11	-41.2	-59.68	6.24	1.12	3.01	-	A
	*	2447	15.69	36.89	-21.2	5.31	6.24	1.13	3.01	-	P
	*	2447	6.33	47.53	-41.2	-4.05	6.24	1.13	3.01	-	A
		2483.55	-31.08	-9.88	-21.2	-41.47	6.24	1.14	3.01	-	P
		2484.53	-42.71	-1.51	-41.2	-53.1	6.24	1.14	3.01	-	A
802.11n HT40 CH 09 2452MHz		2389.94	-37.46	-16.26	-21.2	-47.83	6.24	1.12	3.01	-	P
		2389.52	-50.34	-9.14	-41.2	-60.71	6.24	1.12	3.01	-	A
	*	2452	14.58	35.78	-21.2	4.19	6.24	1.14	3.01	-	P
	*	2452	5.13	46.33	-41.2	-5.26	6.24	1.14	3.01	-	A
		2484.11	-32.94	-11.74	-21.2	-43.33	6.24	1.14	3.01	-	P
		2483.62	-44.44	-3.24	-41.2	-54.83	6.24	1.14	3.01	-	A

Remark

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant. 1		(MHz)	(dBm)	Limit (dB)	Line (dBm)	Level (dBm)	Gain (dBi)	Loss (dB)	Factor (dB)	Factor (dB)	Avg. (P/A)
802.11n		4844	-53.56	-32.36	-21.2	-66.24	6.24	3.43	3.01	-	P
HT40		7266	-56.08	-34.88	-21.2	-69.63	6.24	4.3	3.01	-	P
CH 03											
2422MHz											
802.11n		4854	-54.83	-33.63	-21.2	-67.51	6.24	3.43	3.01	-	P
HT40		7281	-55.54	-34.34	-21.2	-69.08	6.24	4.29	3.01	-	P
CH 04											
2427MH											
802.11n		4874	-53.29	-32.09	-21.2	-65.97	6.24	3.43	3.01	-	P
HT40		7311	-53.74	-32.54	-21.2	-67.28	6.24	4.29	3.01	-	P
CH 06											
2437MHz											
802.11n		4894	-53.58	-32.38	-21.2	-66.26	6.24	3.43	3.01	-	P
HT40		7341	-55.01	-33.81	-21.2	-68.55	6.24	4.29	3.01	-	P
CH 08											
2447MH											
802.11n		4904	-54.33	-33.13	-21.2	-67.01	6.24	3.43	3.01	-	P
HT40		7356	-55.42	-34.22	-21.2	-68.96	6.24	4.29	3.01	-	P
CH 09											
2452MHz											

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

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		79.95	-74.42	-19.22	-55.2	-88.81	6.24	0.44	3.01	4.7	P
		179.04	-75.25	-23.55	-51.7	-89.76	6.24	0.56	3.01	4.7	P
		289.47	-75.06	-25.86	-49.2	-89.65	6.24	0.64	3.01	4.7	P
		482.7	-75.05	-25.85	-49.2	-89.77	6.24	0.77	3.01	4.7	P
2.4GHz		763.4	-67.82	-18.62	-49.2	-82.85	6.24	1.08	3.01	4.7	P
802.11n		932.1	-59.14	-9.94	-49.2	-74.43	6.24	1.34	3.01	4.7	P
HT40											
LF											

Remark	1.	No other spurious found.
	2.	All results are PASS against Peak and Average 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	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11b CH 01 2412MHz		2390	-36.44	-15.24	-21.2	-42.16	3.5	2.22	0	0	P
		2390	-48.52	-7.32	-41.2	-54.25	3.5	2.23	0	0	A

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBm) =

Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)

Over Limit(dB) = Level(dBm) – Limit Line(dBm)

For Peak Limit @ 2390MHz:

1. Level(dBm)

= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)

= 3.5 (dBi) + 2.22(dB) -42.16(dBm)

= -36.44 (dBm)

2. Over Limit(dB)

= Level(dBm) – Limit Line(dBm)

= -36.44(dBm) +21.2(dBm)

= -15.24(dB)

For Average Limit @ 2390MHz:

1. Level(dBm)

= Antenna Factor(dBi) + Path Loss(dB) + Read Level(dBm)

= 3.5(dBi) + 2.23(dB) - 54.25(dBm)

= -48.52 (dBm)

2. Over Limit(dB)

= Level(dB m) – Limit Line(dBm)

= -48.52(dBμV/m) + 41.2(dBm)

= -7.32(dB)

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

Appendix D. Conducted Spurious and Radiated Spurious Emission Plots

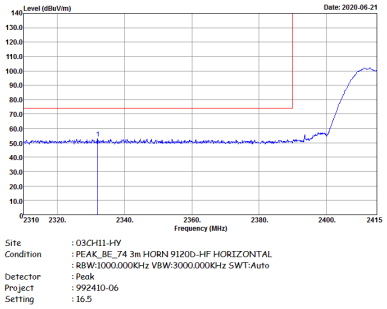
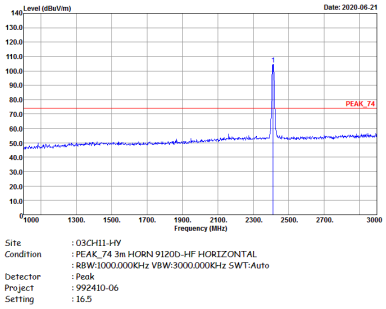
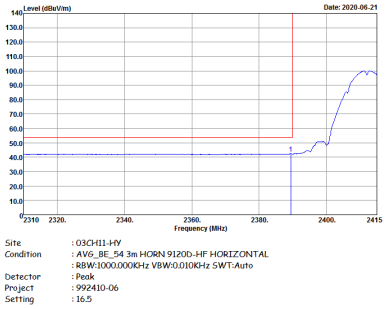
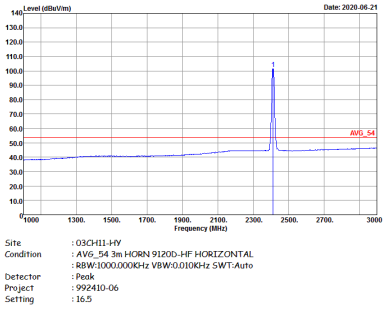
Test Engineer :	Cookie Ku, Fu Chen and Troye Hsieh	**Temperature :**	19.1 ~ 24.9°C
		Relative Humidity :	56.7 ~ 68.9%

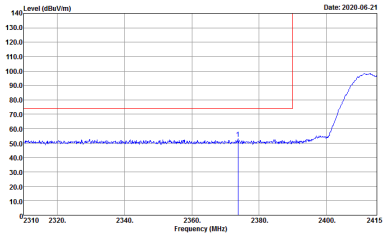
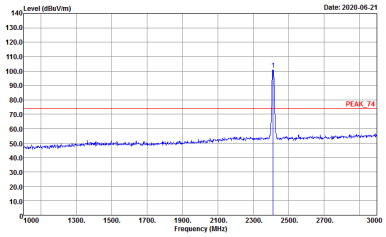
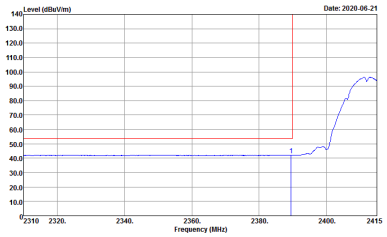
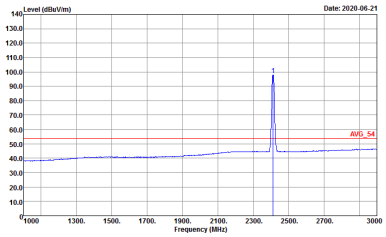
Note symbol

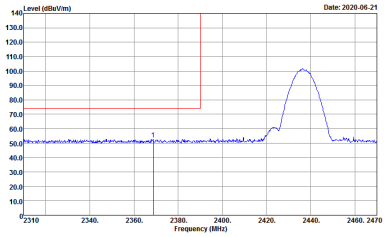
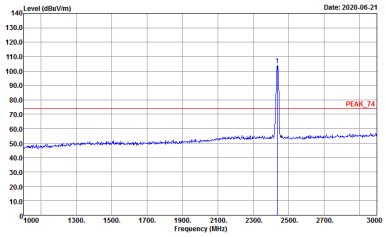
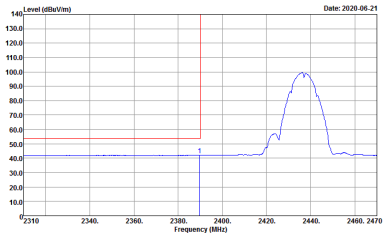
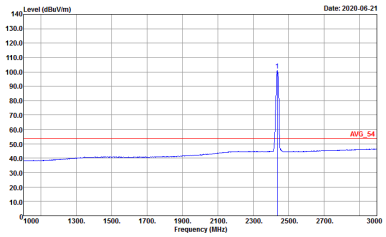
-L	**Low channel location**
-R	**High channel location**

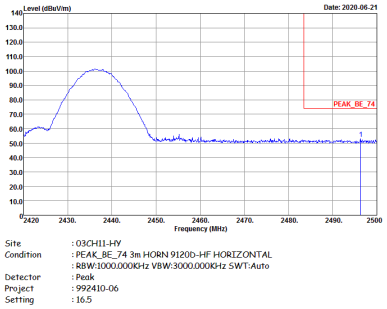
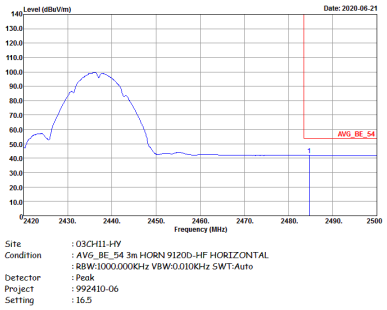
2.4GHz 2400~2483.5MHz

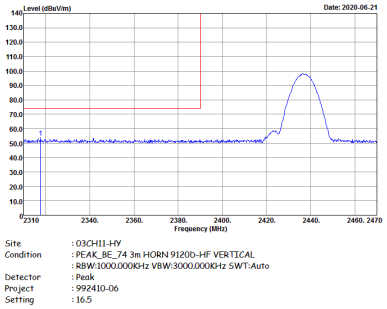
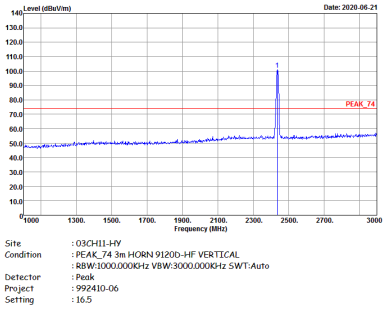
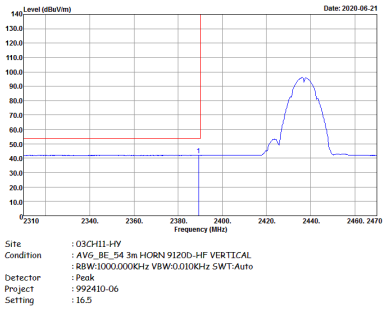
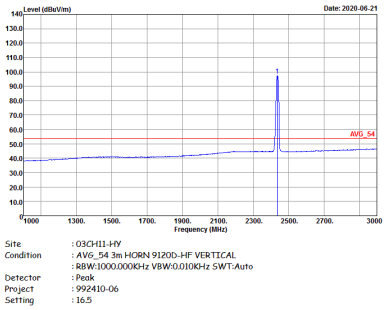
WIFI 802.11b (Band Edge @ 3m)

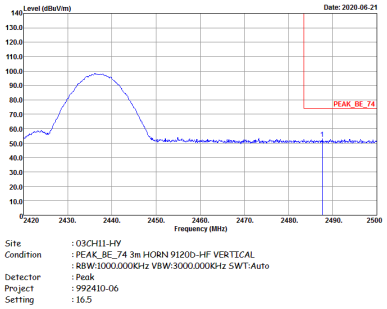
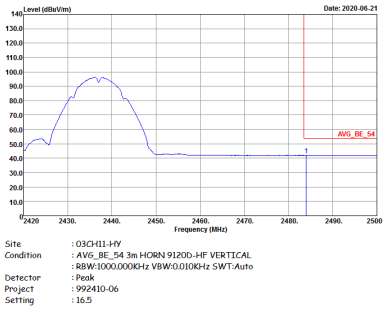
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

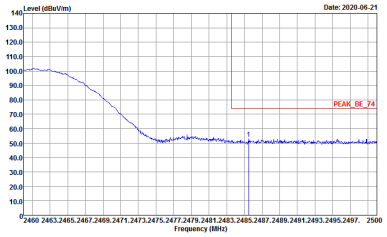
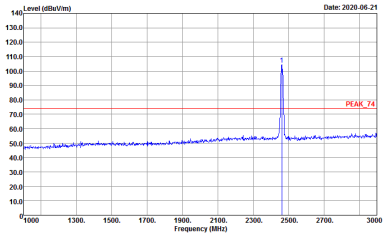
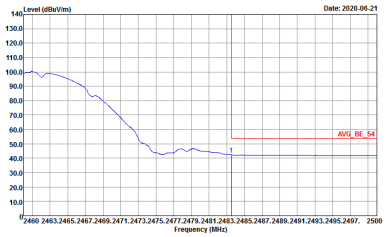
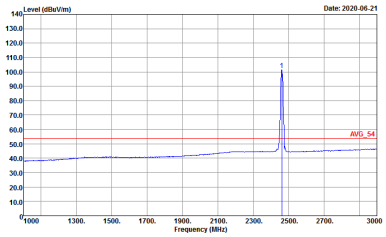
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5

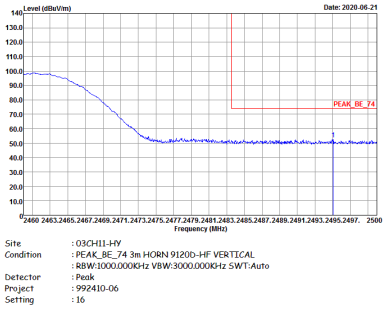
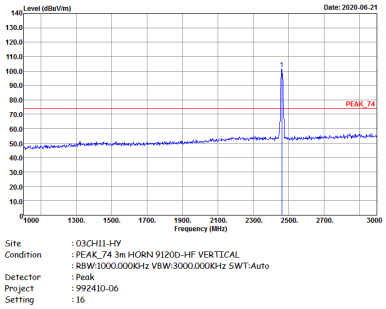
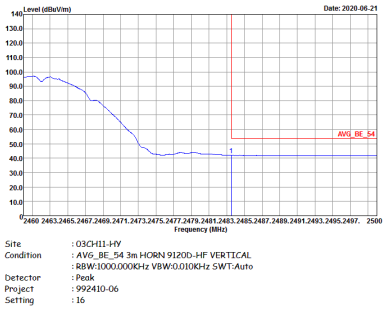
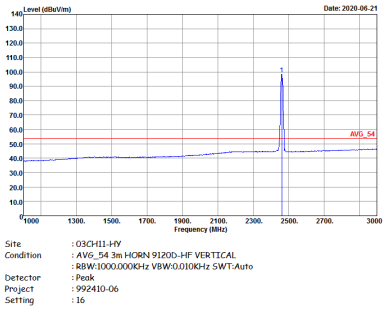
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		

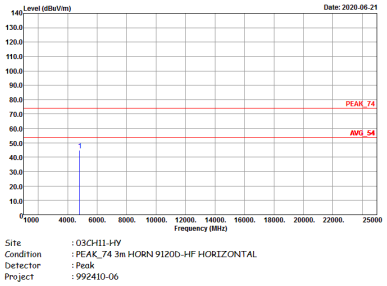
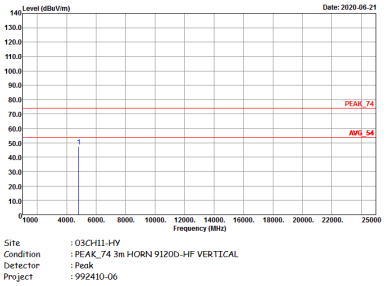
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

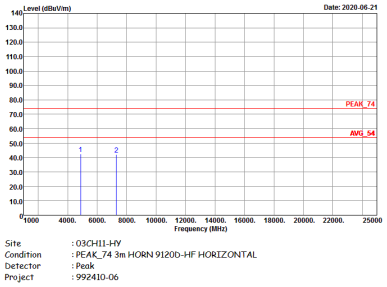
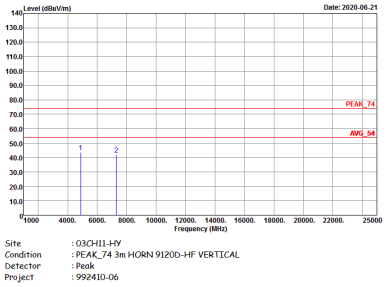
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16

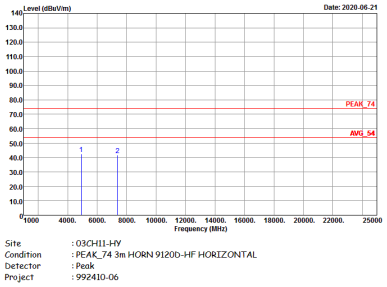
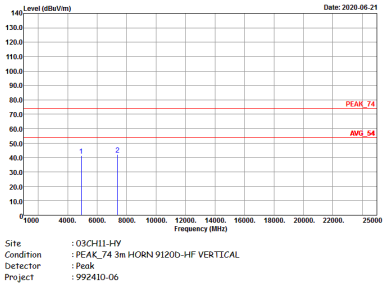
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16	 Site : 03CH11-HV Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16	 Site : 03CH11-HV Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 16

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

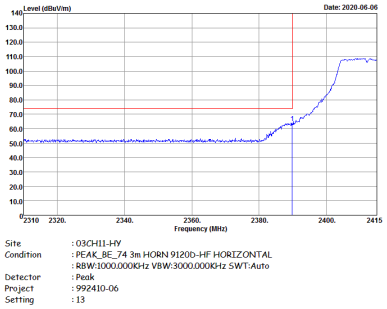
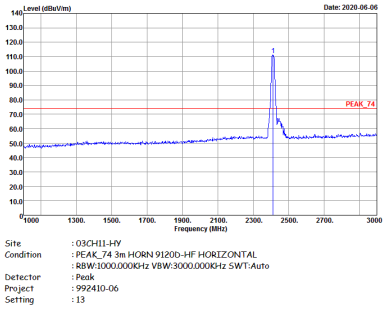
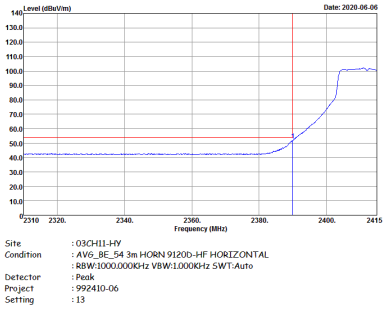
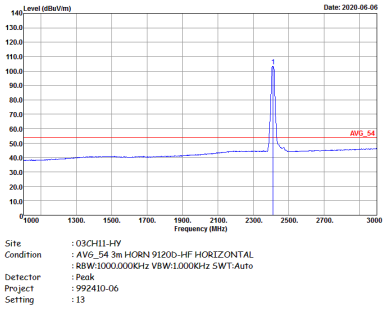
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

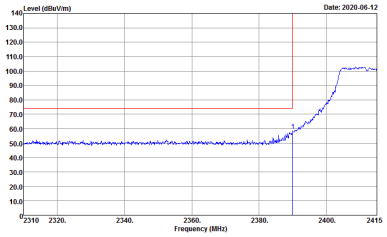
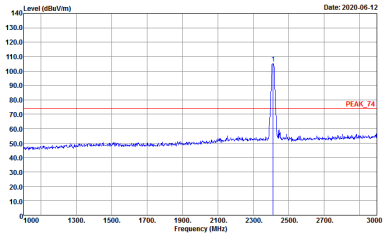
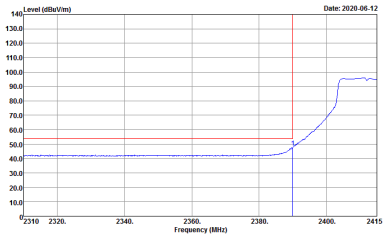
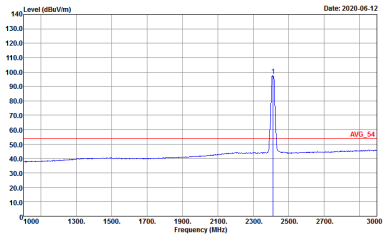
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

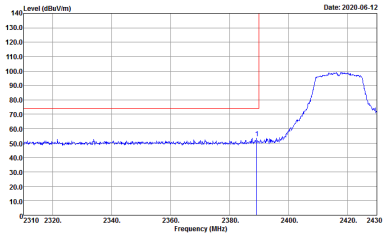
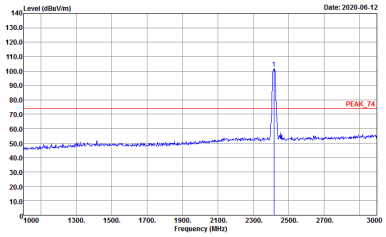
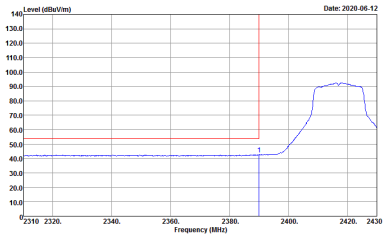
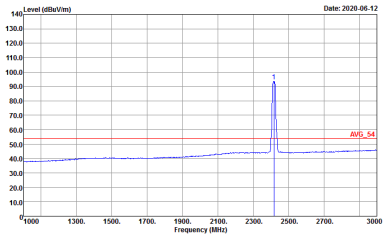
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

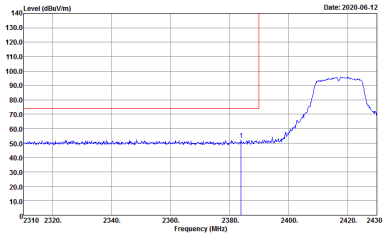
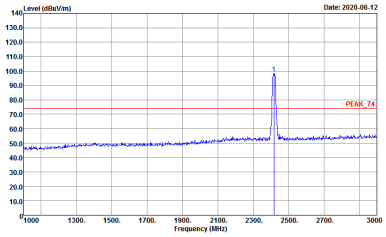
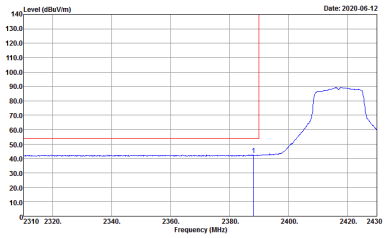
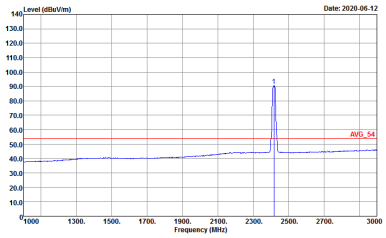
2.4GHz 2400~2483.5MHz

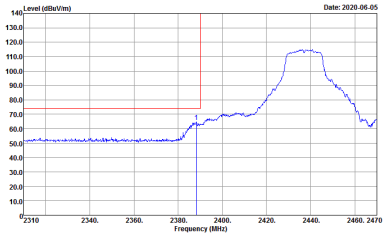
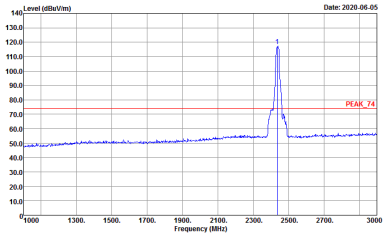
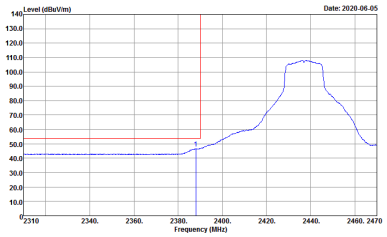
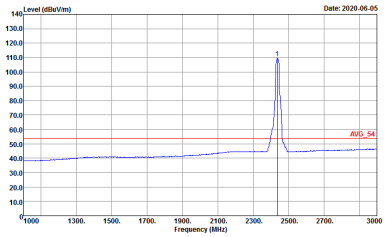
WIFI 802.11g (Band Edge @ 3m)

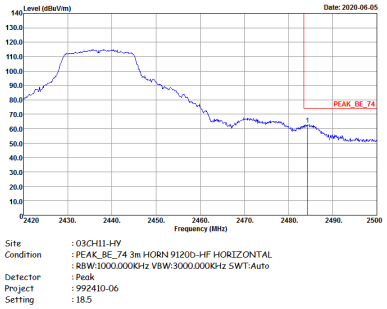
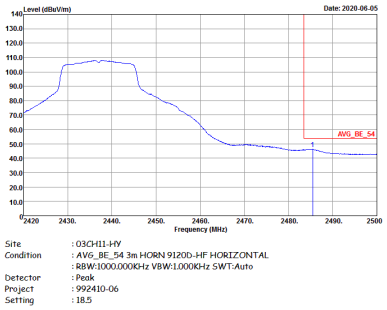
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

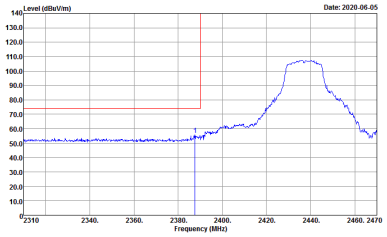
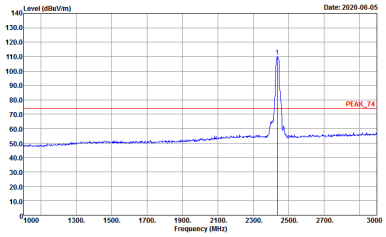
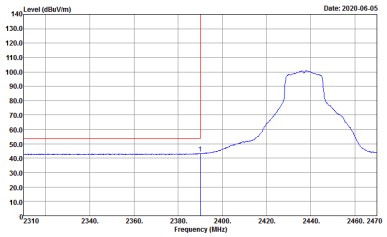
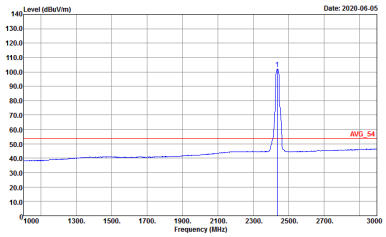
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13

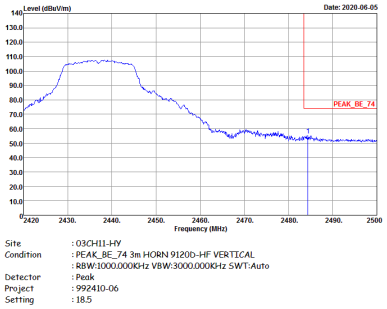
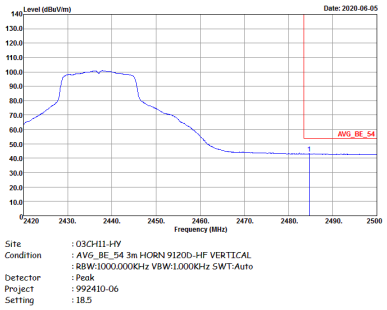
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18

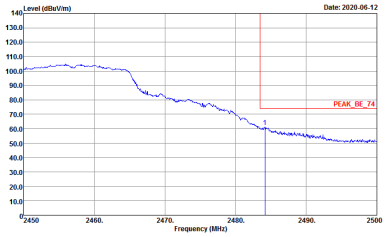
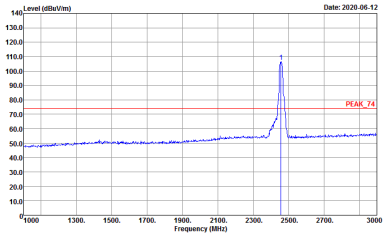
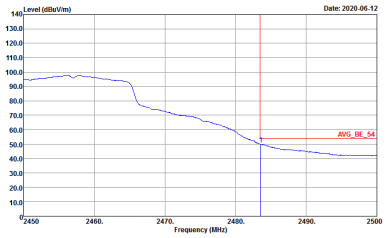
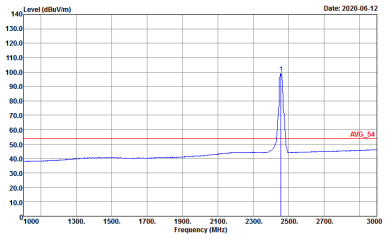
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH02 2417MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18

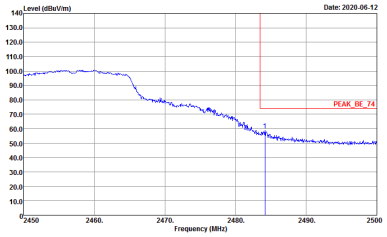
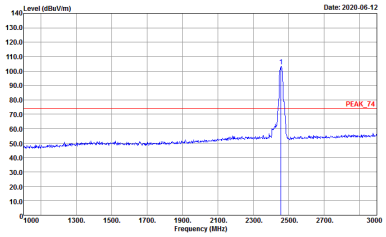
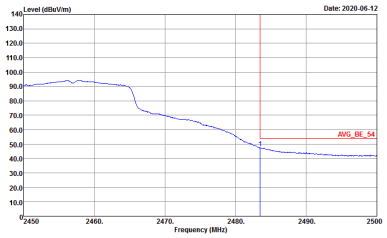
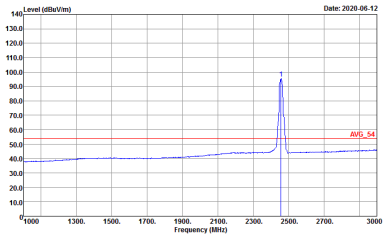
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5

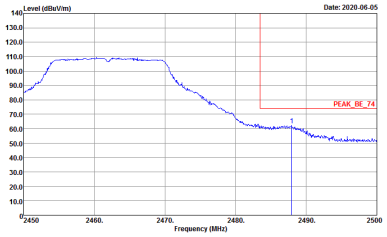
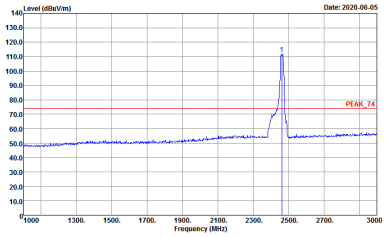
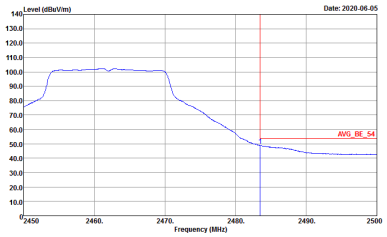
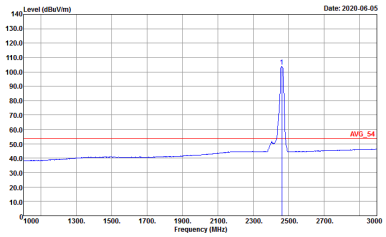
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

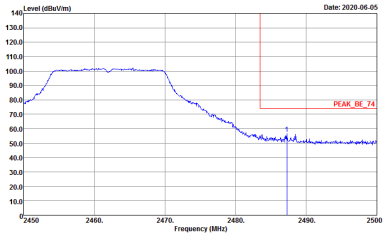
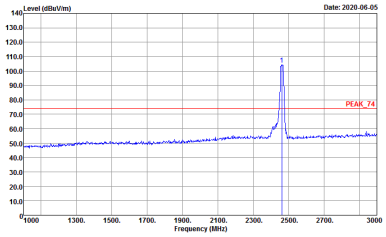
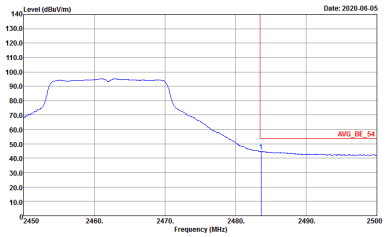
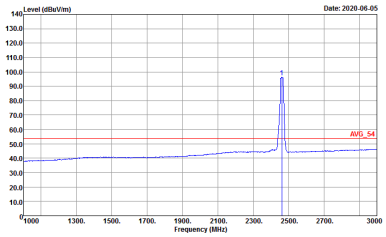
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5

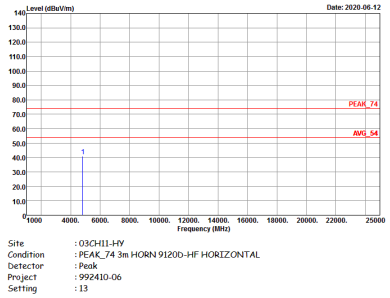
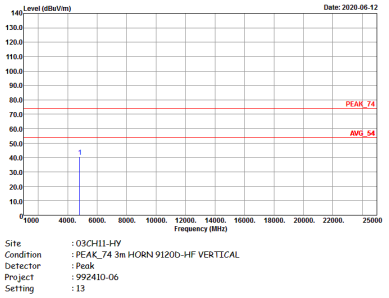
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH10 2457MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 18.5

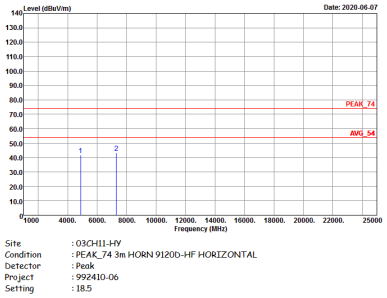
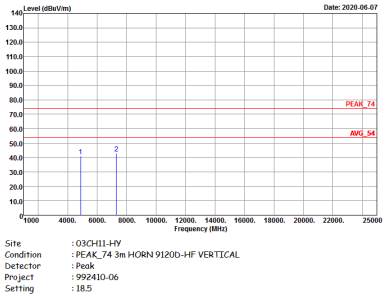
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5

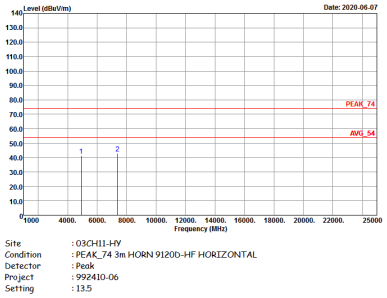
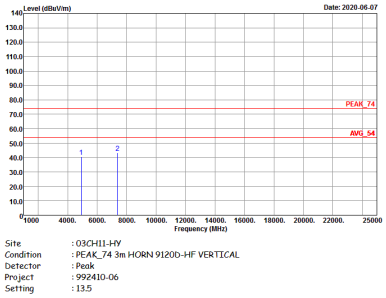
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

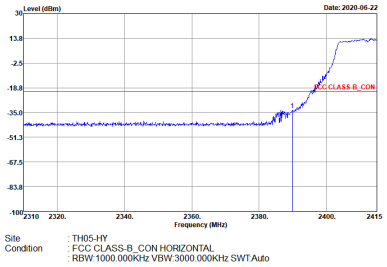
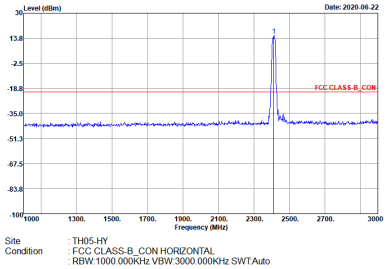
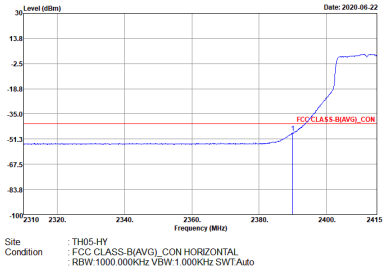
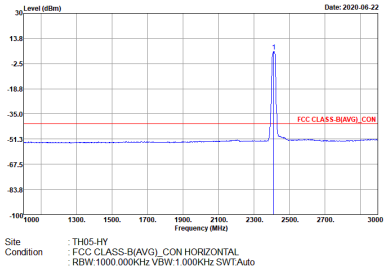
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

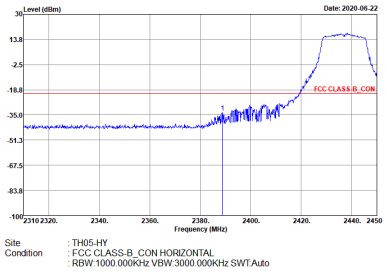
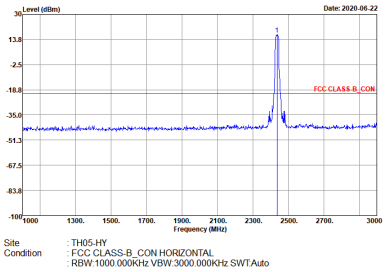
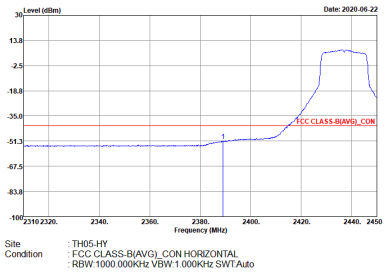
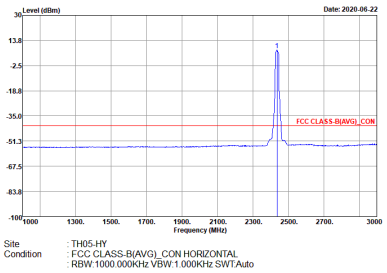
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

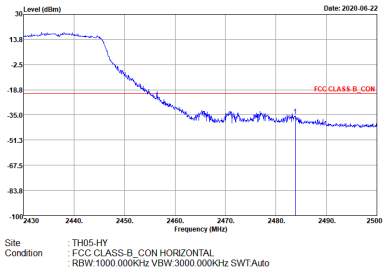
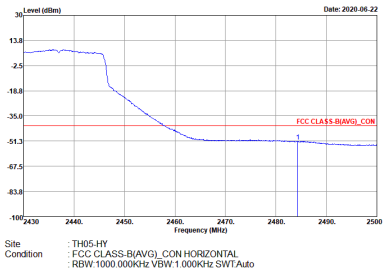
Test Engineer :	Andy Kao	Temperature :	23.6°C~24.1°C
		Relative Humidity :	52.7%~53.3%

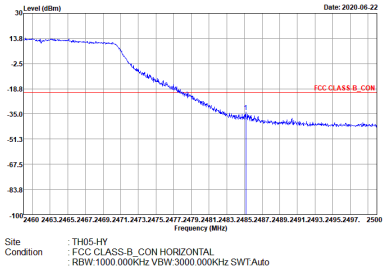
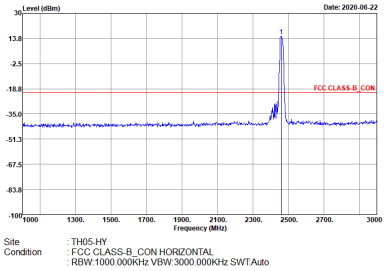
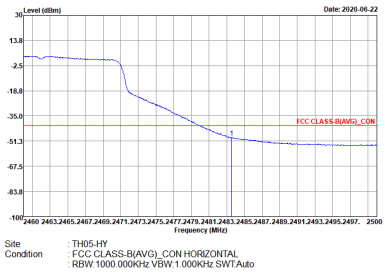
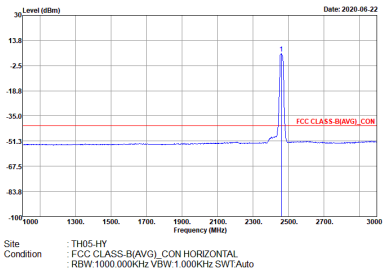
2.4GHz 2400~2483.5MHz

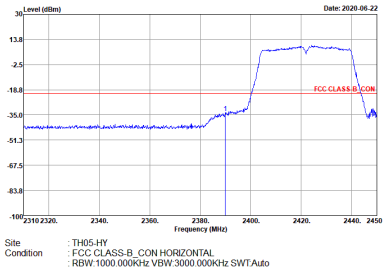
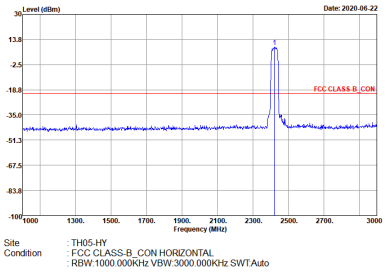
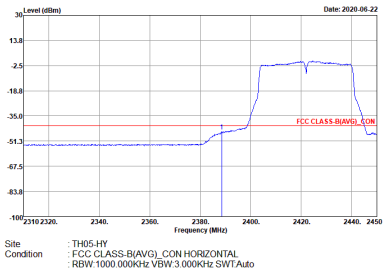
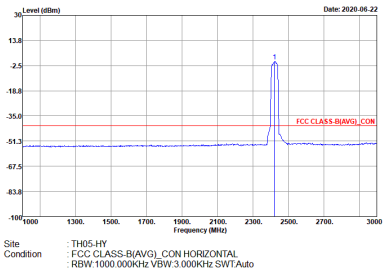
WIFI 802.11n HT20 (Band Edge)

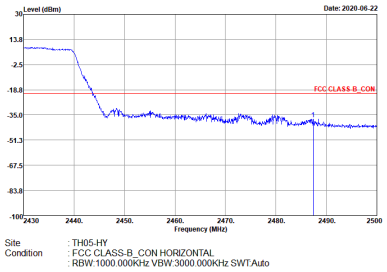
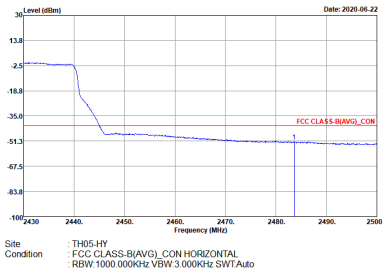
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz	
0	CSE	Fundamental
Peak		
Avg.		

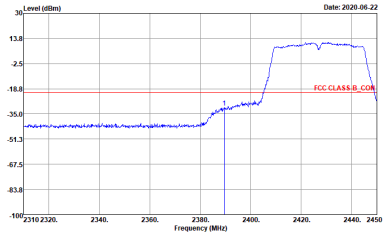
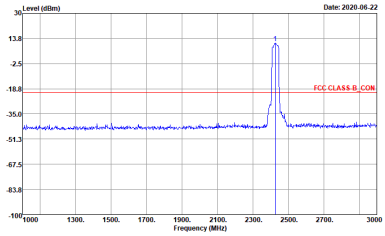
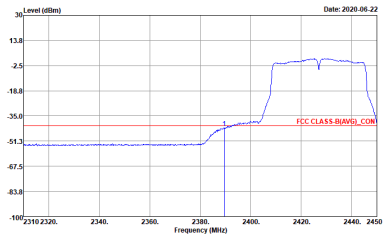
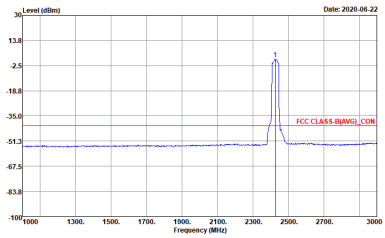
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - L	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

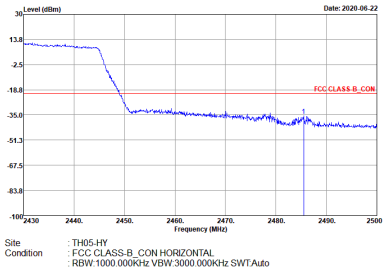
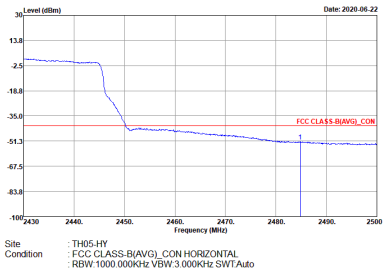
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - R	
0	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

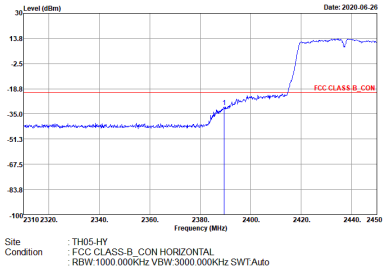
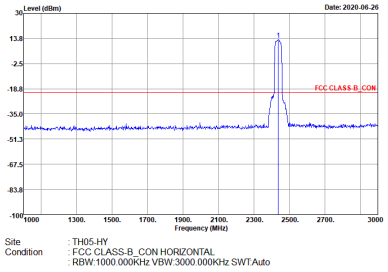
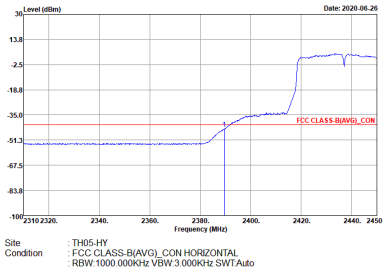
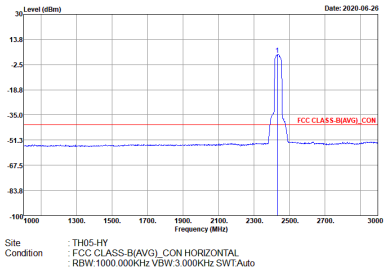
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

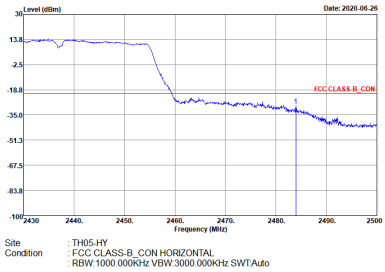
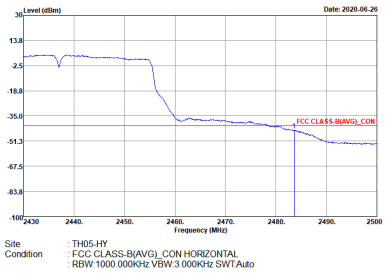
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - L	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

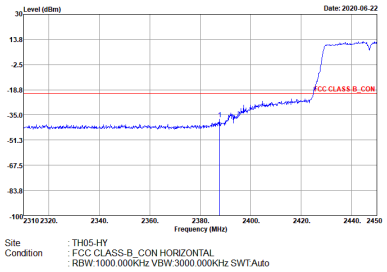
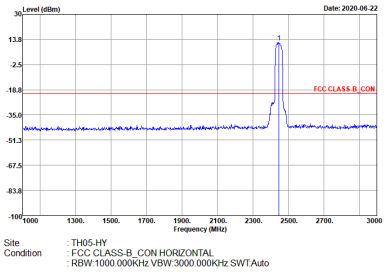
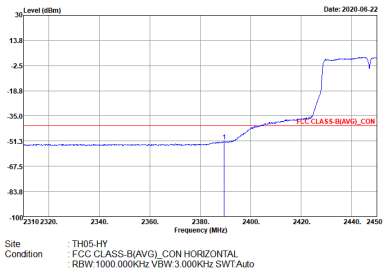
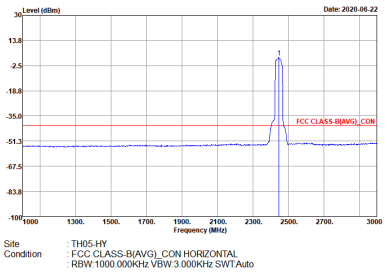
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - R	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

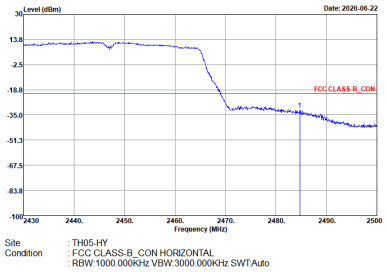
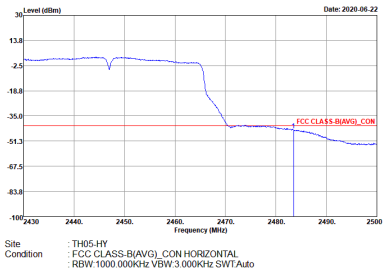
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH04 2427MHz - L	
0	CSE	Fundamental
Peak	 Site : site Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

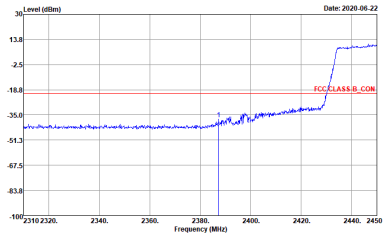
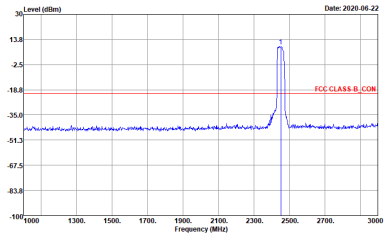
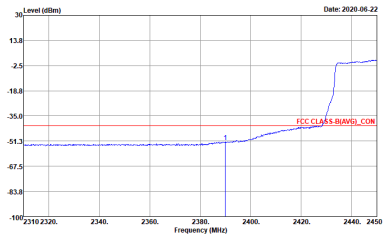
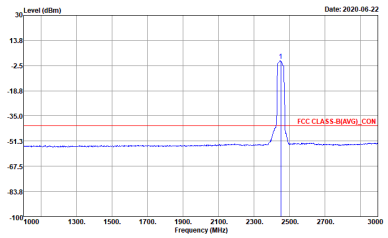
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH04 2427MHz - R	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

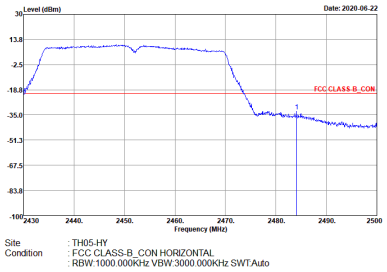
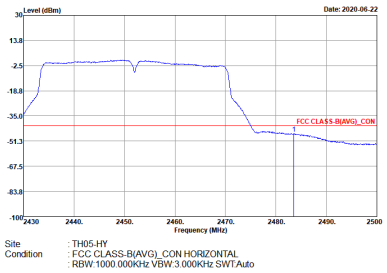
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - L	
0	CSE	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - R	
0	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH08 2447MHz - L	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

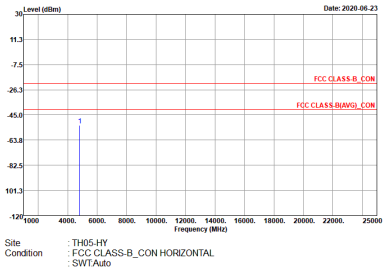
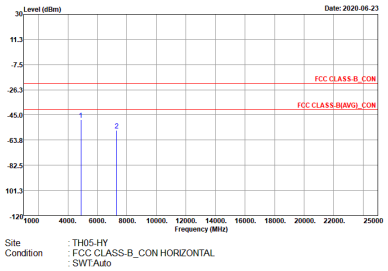
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH08 2447MHz - R	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

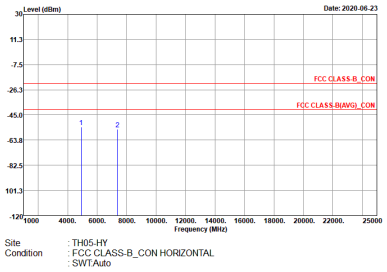
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - L	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - R	
0	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

2.4GHz 2400~2483.5MHz

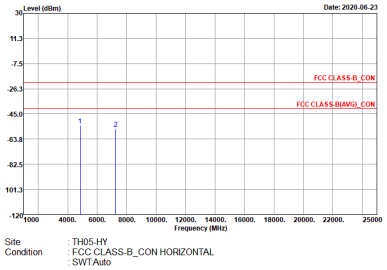
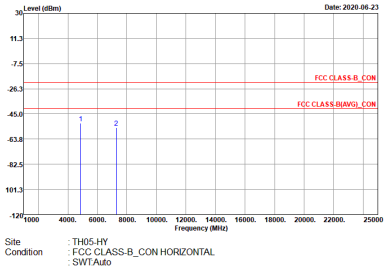
WIFI 802.11n HT20 (Harmonic)

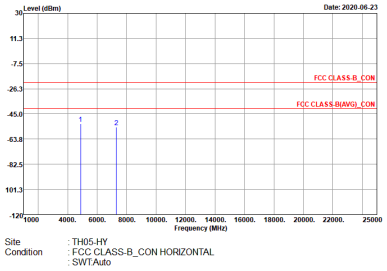
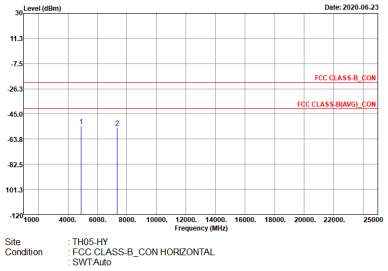
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20	
0	CH01 2412MHz	CH06 2437MHz
Peak Avg.		

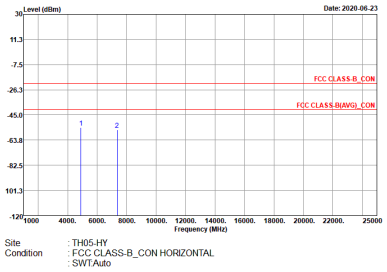
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20	
0	CH11 2462MHz	-
Peak Avg.	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto	Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

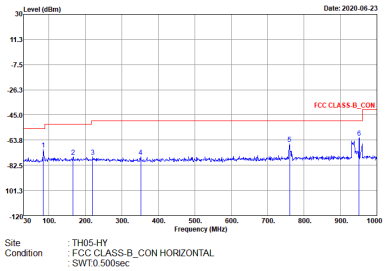
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
0	CH03 2422MHz	CH04 2427MHz
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
0	CH06 2437MHz	CH08 2447MHz
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
0	CH09 2452MHz	
Peak Avg.	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto	Left blank

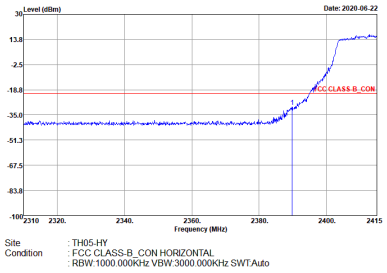
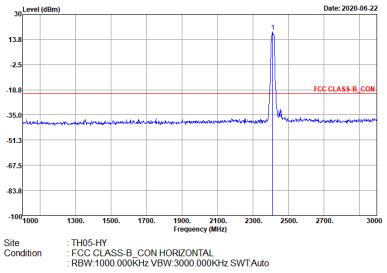
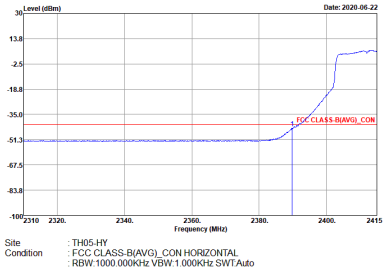
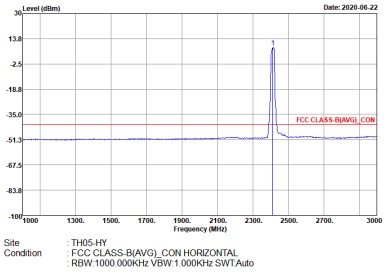
Emission below 1GHz

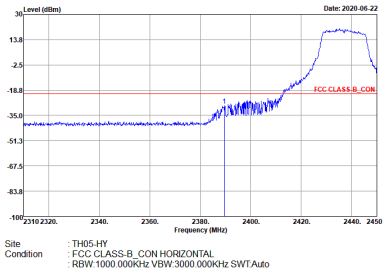
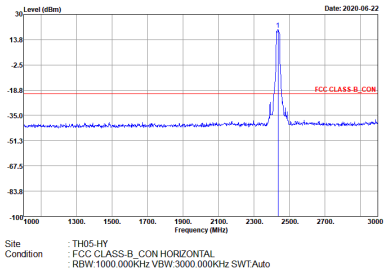
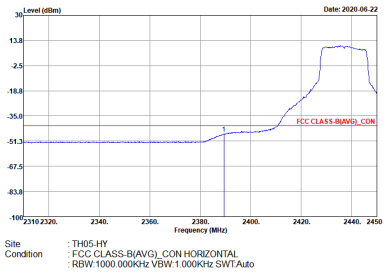
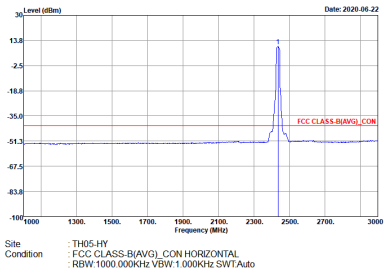
2.4GHz WIFI 802.11n HT40 (LF)

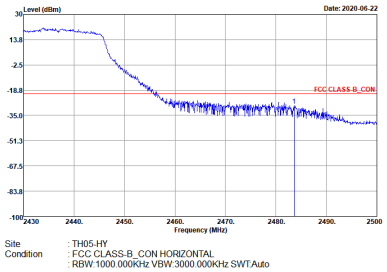
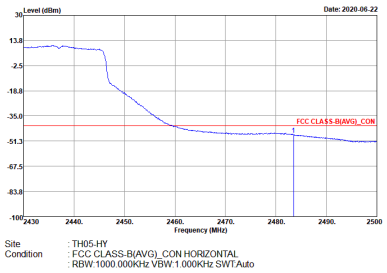
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40	
0		
QP / Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:0.500sec	Left blank

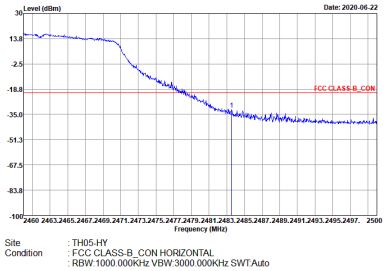
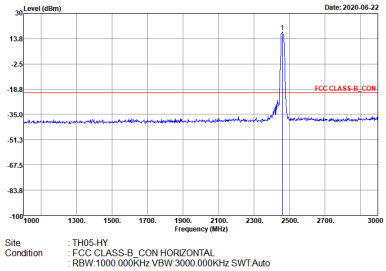
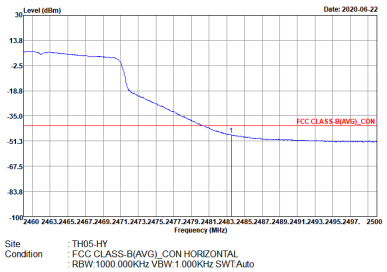
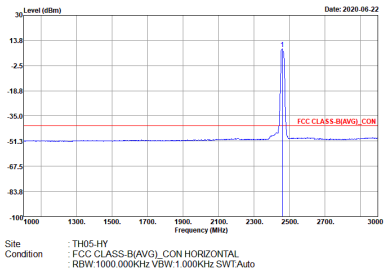
2.4GHz 2400~2483.5MHz

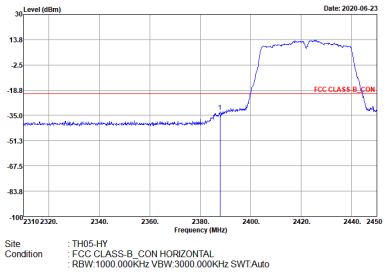
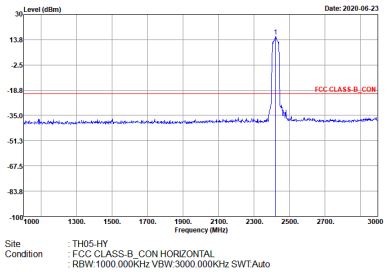
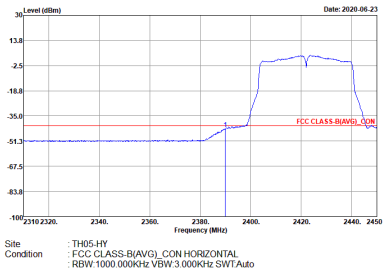
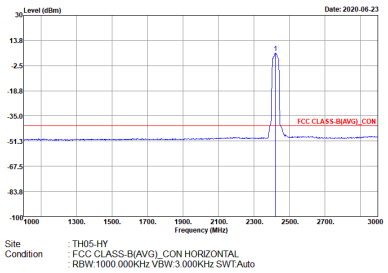
WIFI 802.11n HT20 (Band Edge)

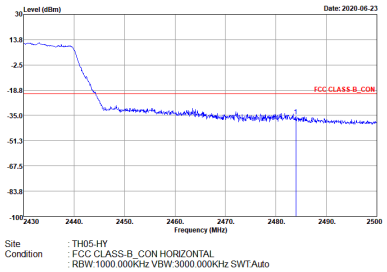
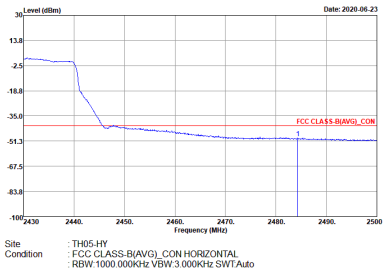
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

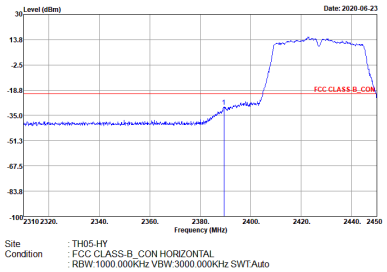
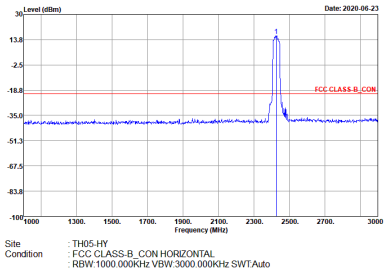
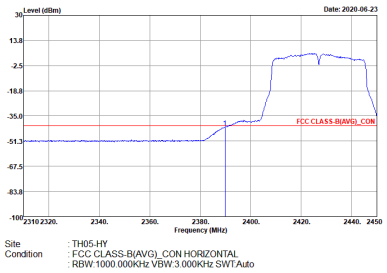
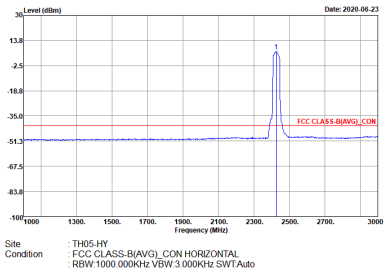
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

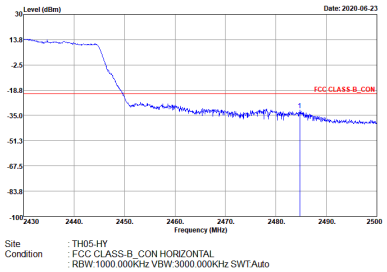
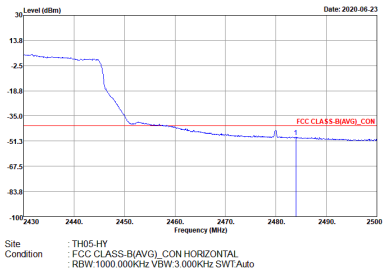
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - R	
1	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

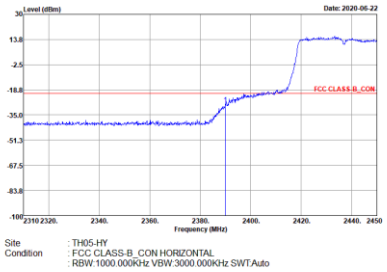
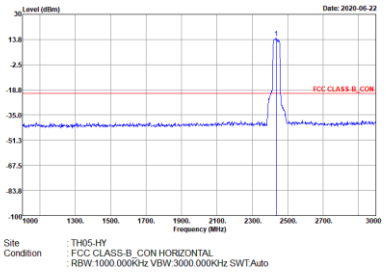
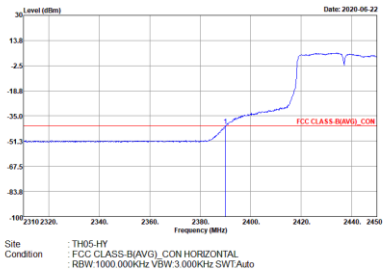
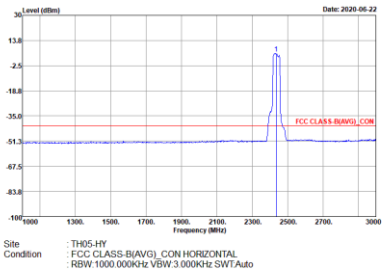
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

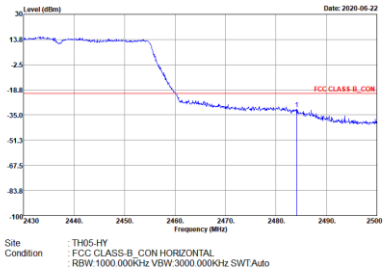
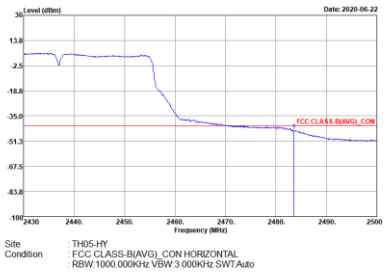
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

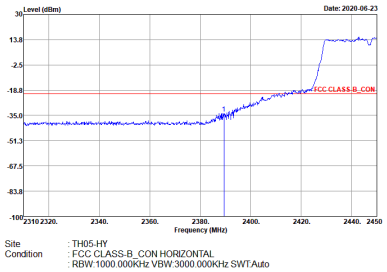
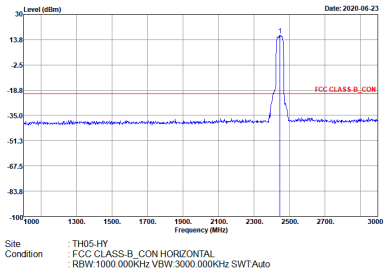
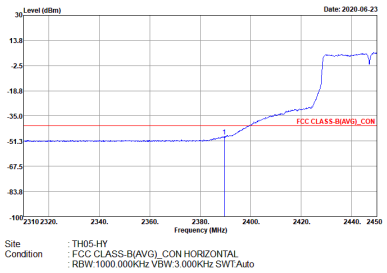
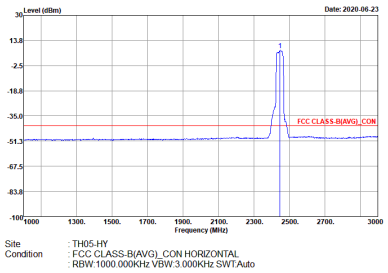
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - R	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

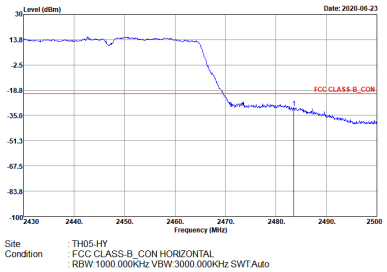
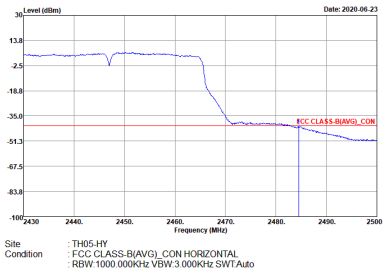
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH04 2427MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

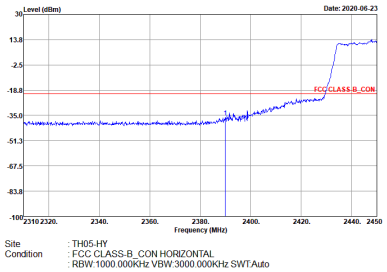
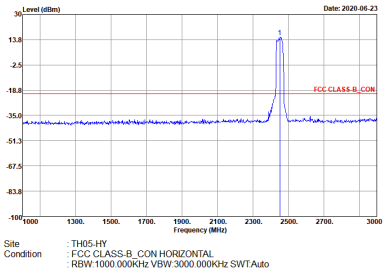
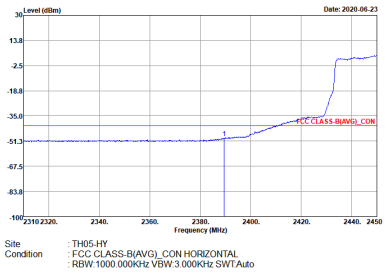
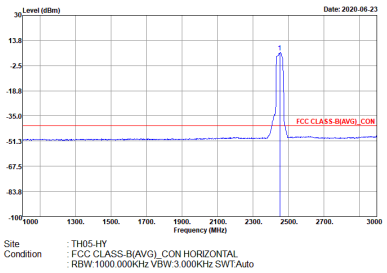
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH04 2427MHz - R	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

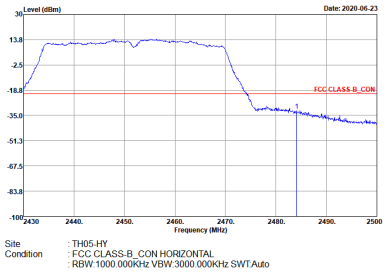
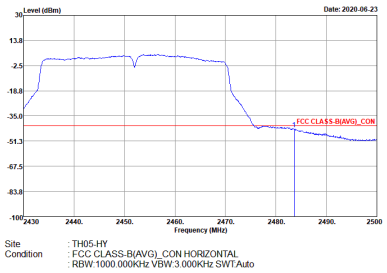
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - R	
1	CSE	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH08 2447MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

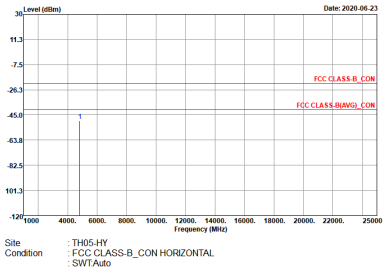
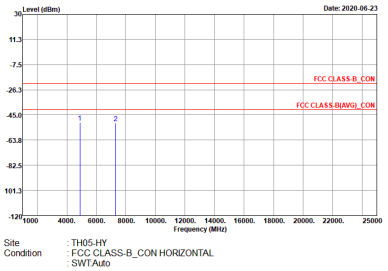
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH08 2447MHz - R	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

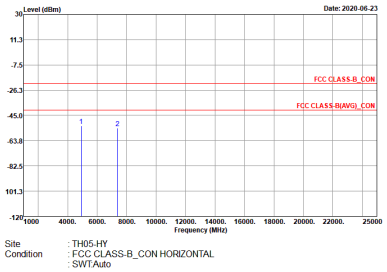
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - L	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - R	
1	CSE	Fundamental
Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : TH05-HY Condition : FCC CLASS-B(AVG)_CON HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

2.4GHz 2400~2483.5MHz

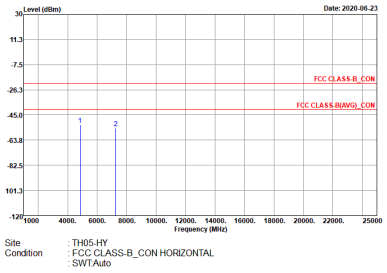
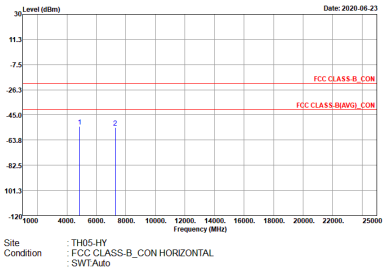
WIFI 802.11n HT20 (Harmonic)

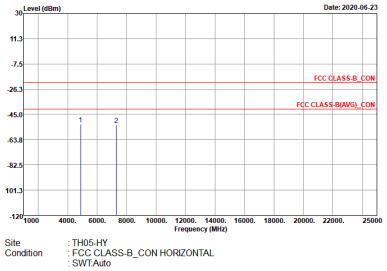
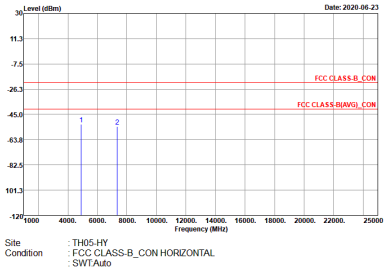
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20	
1	CH01 2412MHz	CH06 2437MHz
Peak Avg.		

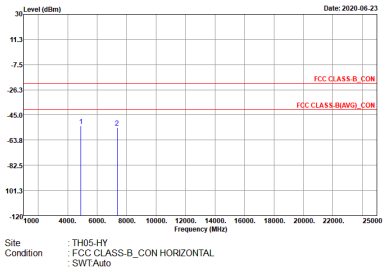
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20	
1	CH11 2462MHz	-
Peak Avg.	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto	Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

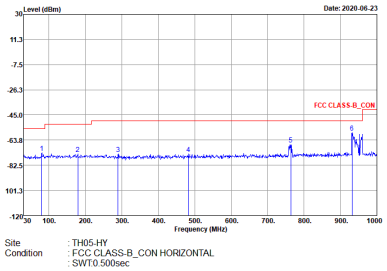
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
1	CH03 2422MHz	CH04 2427MHz
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
1	CH06 2437MHz	CH08 2447MHz
Peak Avg.	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40	
1	CH09 2452MHz	
Peak Avg.	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:Auto	Left blank

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

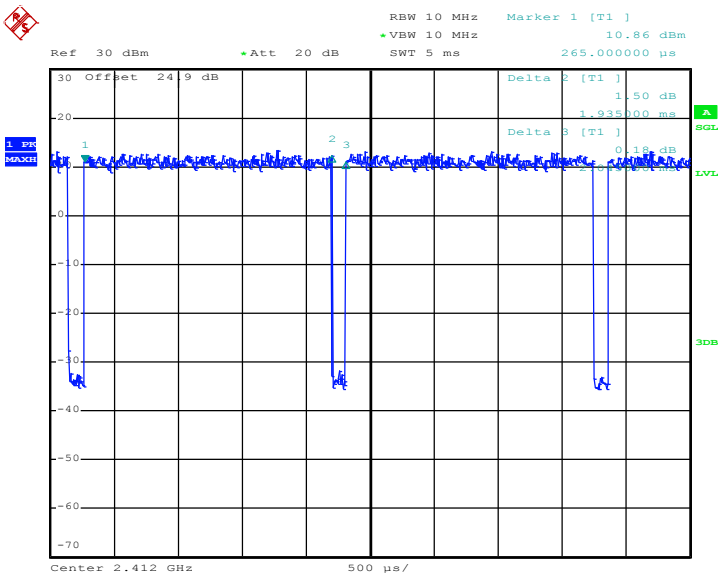
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40	
1		
QP / Peak	 Site : TH05-HY Condition : FCC CLASS-B_CON HORIZONTAL : SWT:0.500sec	Left blank

Appendix E. Duty Cycle Plots

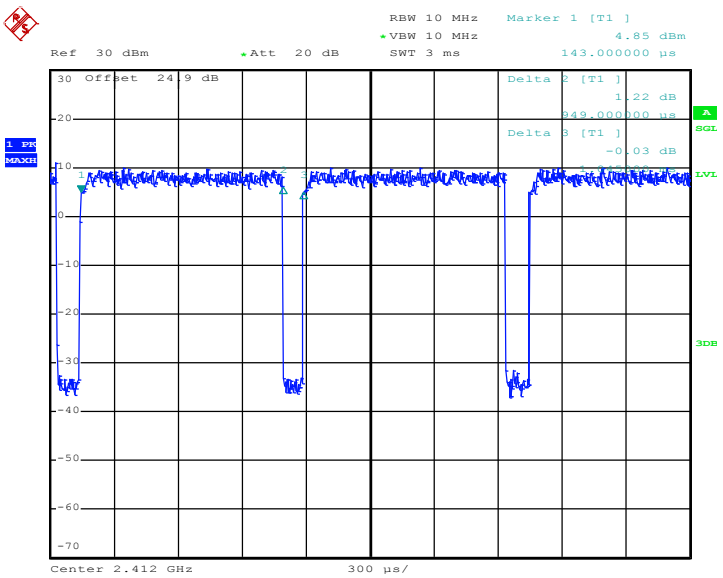
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	98.72	-	-	10Hz	0.06
1	802.11g	94.7	2055	0.49	1kHz	0.24
0	2.4GHz 802.11n HT20	94.62	1935	0.52	1kHz	0.24
1	2.4GHz 802.11n HT20	94.39	1935	0.52	1kHz	0.25
0+1	2.4GHz 802.11n HT20 for Ant. 0	94.38	1930	0.52	1kHz	0.25
0+1	2.4GHz 802.11n HT20 for Ant. 1	94.36	1925	0.52	1kHz	0.25
0	2.4GHz 802.11n HT40	90.81	949	1.05	3kHz	0.42
1	2.4GHz 802.11n HT40	90.43	945	1.06	3kHz	0.44
0+1	2.4GHz 802.11n HT40 for Ant. 0	90.24	943	1.06	3kHz	0.45
0+1	2.4GHz 802.11n HT40 for Ant. 1	90.54	948	1.05	3kHz	0.43

<Ant. 0>

802.11n HT20

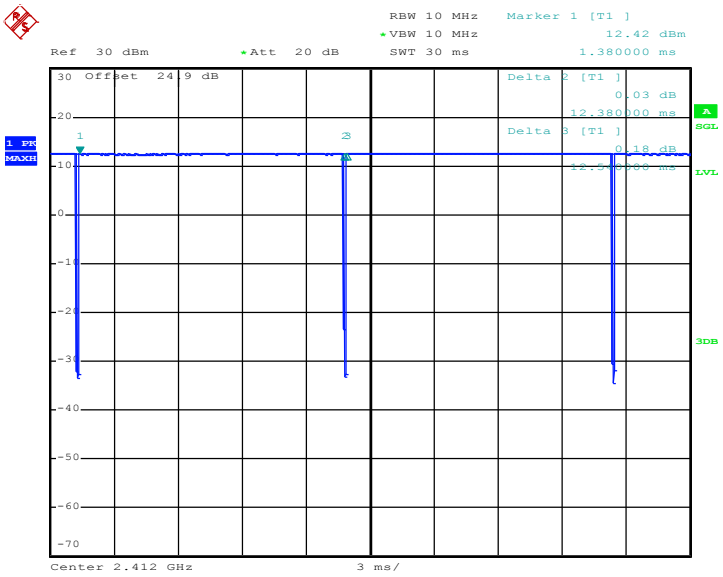


802.11n HT40

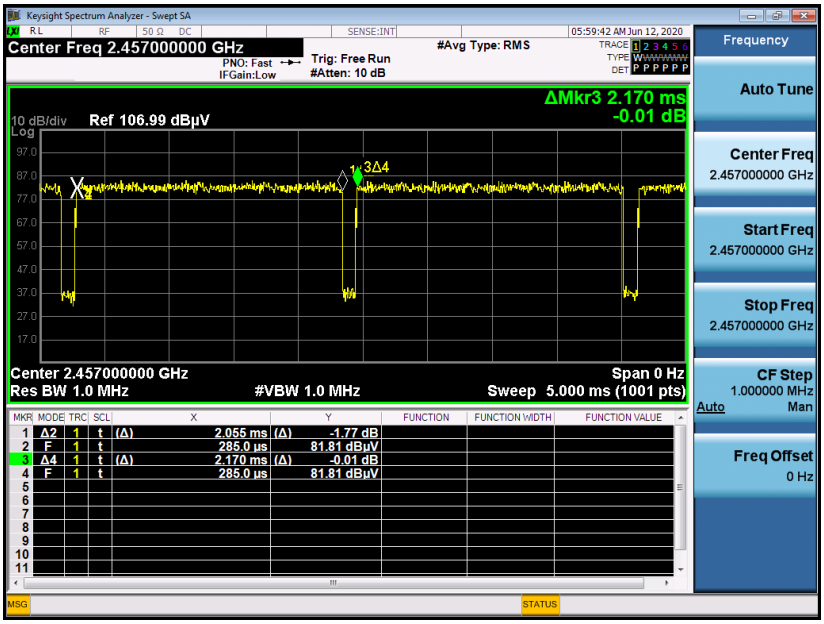


<Ant. 1>

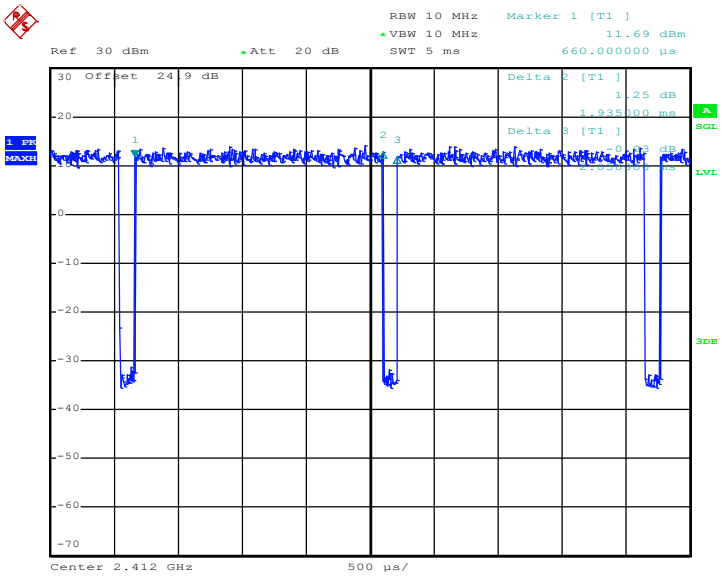
802.11b



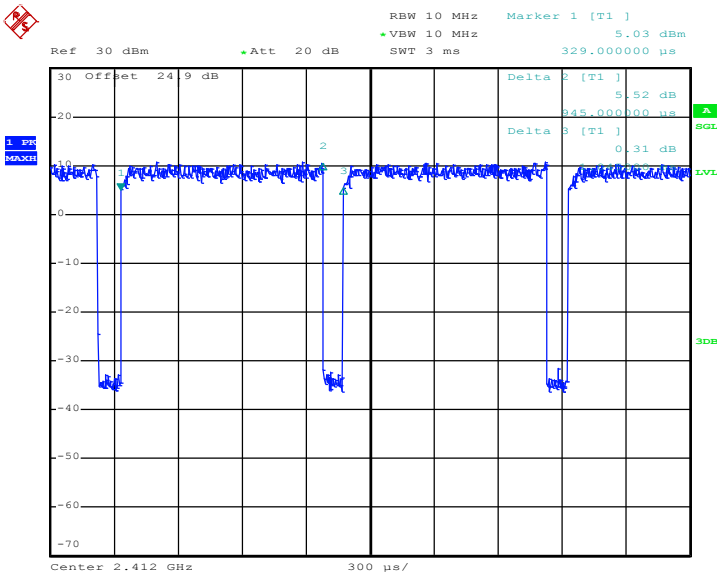
802.11g



802.11n HT20

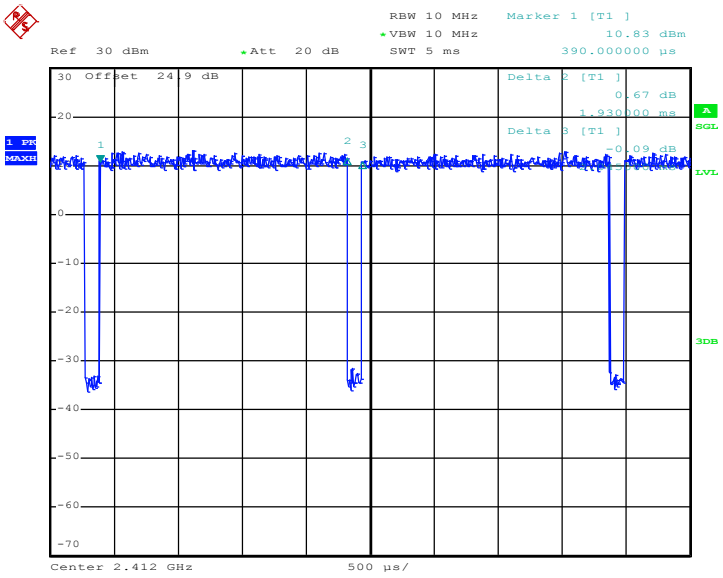


802.11n HT40

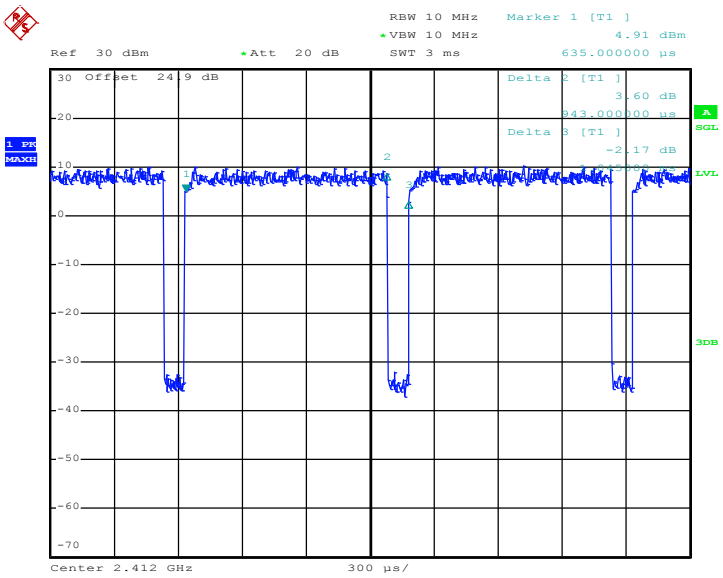


MIMO <Ant. 0>

802.11n HT20

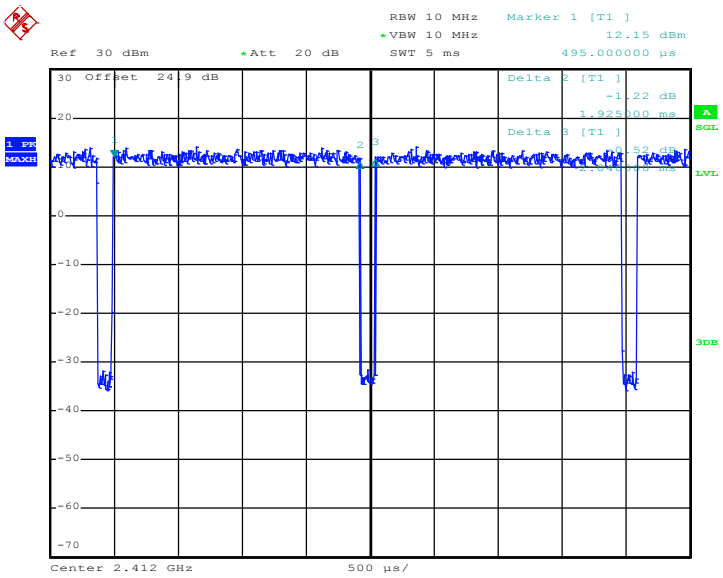


802.11n HT40

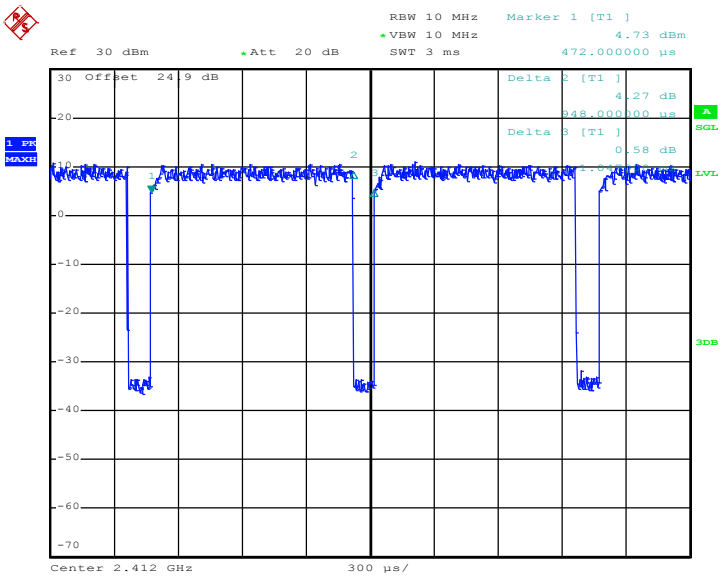


MIMO <Ant. 1>

802.11n HT20



802.11n HT40



Appendix F. Cabinet Radiated Spurious Emission

Test Engineer :	Fu Chen and Troye Hsieh	Temperature :	19.1 ~ 26.4°C
		Relative Humidity :	55.3 ~ 68.2%

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2329.215	52.43	-21.57	74	41.48	27.64	16.56	33.25	363	89	P	H
		2339.925	42.42	-11.58	54	31.48	27.62	16.57	33.25	363	89	A	H
	*	2412	79.21	-	-	68.32	27.48	16.64	33.23	363	89	P	H
802.11n	*	2412	70.68	-	-	59.79	27.48	16.64	33.23	363	89	A	H
HT20													H
CH 01		2374.89	52.73	-21.27	74	41.82	27.55	16.6	33.24	366	146	P	V
2412MHz		2311.68	42.41	-11.59	54	31.44	27.68	16.54	33.25	366	146	A	V
	*	2412	75.9	-	-	65.01	27.48	16.64	33.23	366	146	P	V
	*	2412	67.62	-	-	56.73	27.48	16.64	33.23	366	146	A	V
													V
		2315.28	52.86	-21.14	74	41.89	27.67	16.55	33.25	310	82	P	H
		2362.48	42.32	-11.68	54	31.39	27.58	16.59	33.24	310	82	A	H
	*	2437	82.38	-	-	71.5	27.43	16.67	33.22	310	82	P	H
	*	2437	74.09	-	-	63.21	27.43	16.67	33.22	310	82	A	H
802.11n		2483.76	52.42	-21.58	74	41.65	27.26	16.72	33.21	310	82	P	H
HT20		2489.92	42.1	-11.9	54	31.34	27.24	16.73	33.21	310	82	A	H
CH 06		2376.88	52.16	-21.84	74	41.24	27.55	16.61	33.24	400	240	P	V
2437MHz		2355.92	42.36	-11.64	54	31.42	27.59	16.59	33.24	400	240	A	V
	*	2437	79.61	-	-	68.73	27.43	16.67	33.22	400	240	P	V
	*	2437	71.3	-	-	60.42	27.43	16.67	33.22	400	240	A	V
		2486.24	51.71	-22.29	74	40.94	27.26	16.72	33.21	400	240	P	V
		2488	42.23	-11.77	54	31.46	27.25	16.73	33.21	400	240	A	V

	*	2462	79.85	-	-	69.02	27.35	16.7	33.22	302	79	P	H
	*	2462	71.33	-	-	60.5	27.35	16.7	33.22	302	79	A	H
		2491.25	51.61	-22.39	74	40.85	27.24	16.73	33.21	302	79	P	H
		2484.75	42.17	-11.83	54	31.4	27.26	16.72	33.21	302	79	A	H
802.11n													H
HT20													H
CH 11	*	2462	77.31	-	-	66.48	27.35	16.7	33.22	346	103	P	V
2462MHz	*	2462	68.24	-	-	57.41	27.35	16.7	33.22	346	103	A	V
		2492.3	52.1	-21.9	74	41.35	27.23	16.73	33.21	346	103	P	V
		2489.85	42.06	-11.94	54	31.3	27.24	16.73	33.21	346	103	A	V
													V
													V

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4824	39.39	-34.61	74	57.89	31	10.94	60.44	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	39.21	-34.79	74	57.71	31	10.94	60.44	100	0	P	V
2412MHz													V
													V
													V
		4874	40.25	-33.75	74	58.69	31	10.96	60.4	100	0	P	H
		7311	42.23	-31.77	74	51.46	36.5	13.38	59.11	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	41.02	-32.98	74	59.46	31	10.96	60.4	100	0	P	V
2437MHz		7311	41.86	-32.14	74	51.09	36.5	13.38	59.11	100	0	P	V
													V
													V
		4924	38.73	-35.27	74	57.06	31.05	10.98	60.36	100	0	P	H
		7386	41.48	-32.52	74	50.97	36.36	13.22	59.07	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	39.1	-34.9	74	57.43	31.05	10.98	60.36	100	0	P	V
2462MHz		7386	40.63	-33.37	74	50.12	36.36	13.22	59.07	100	0	P	V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2378.96	52.96	-21.04	74	42.05	27.54	16.61	33.24	361	88	P	H
		2319.92	43.17	-10.83	54	32.21	27.66	16.55	33.25	361	88	A	H
	*	2422	73.91	-	-	63.03	27.46	16.65	33.23	361	88	P	H
	*	2422	66.85	-	-	55.97	27.46	16.65	33.23	361	88	A	H
802.11n		2496	52.26	-21.74	74	41.51	27.22	16.74	33.21	361	88	P	H
HT40		2487.6	43	-11	54	32.23	27.25	16.73	33.21	361	88	A	H
CH 03		2316.72	53.22	-20.78	74	42.25	27.67	16.55	33.25	319	153	P	V
2422MHz		2347.92	43.53	-10.47	54	32.59	27.6	16.58	33.24	319	153	A	V
	*	2422	70.23	-	-	59.35	27.46	16.65	33.23	319	153	P	V
	*	2422	62.26	-	-	51.38	27.46	16.65	33.23	319	153	A	V
		2488.72	52.58	-21.42	74	41.81	27.25	16.73	33.21	319	153	P	V
		2491.2	43	-11	54	32.24	27.24	16.73	33.21	319	153	A	V
		2340.88	52.73	-21.27	74	41.79	27.62	16.57	33.25	354	89	P	H
		2371.6	43.08	-10.92	54	32.16	27.56	16.6	33.24	354	89	A	H
	*	2427	74.87	-	-	63.99	27.45	16.66	33.23	354	89	P	H
	*	2427	66.91	-	-	56.03	27.45	16.66	33.23	354	89	A	H
802.11n		2484.96	52.79	-21.21	74	42.02	27.26	16.72	33.21	354	89	P	H
HT40		2495.28	43.03	-10.97	54	32.29	27.22	16.73	33.21	354	89	A	H
CH 04		2316.4	52.59	-21.41	74	41.62	27.67	16.55	33.25	320	150	P	V
2427MHz		2359.6	43.27	-10.73	54	32.34	27.58	16.59	33.24	320	150	A	V
	*	2427	73.27	-	-	62.39	27.45	16.66	33.23	320	150	P	V
	*	2427	65.31	-	-	54.43	27.45	16.66	33.23	320	150	A	V
		2490.48	52.79	-21.21	74	42.03	27.24	16.73	33.21	320	150	P	V
		2484.4	42.95	-11.05	54	32.18	27.26	16.72	33.21	320	150	A	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2386	52.73	-21.27	74	41.82	27.53	16.62	33.24	350	90	P	H
		2344.4	43.36	-10.64	54	32.42	27.61	16.57	33.24	350	90	A	H
	*	2437	76.56	-	-	65.68	27.43	16.67	33.22	350	90	P	H
	*	2437	69.42	-	-	58.54	27.43	16.67	33.22	350	90	A	H
802.11n		2495.04	52.3	-21.7	74	41.56	27.22	16.73	33.21	350	90	P	H
HT40		2496.16	42.97	-11.03	54	32.22	27.22	16.74	33.21	350	90	A	H
CH 06		2325.2	52.99	-21.01	74	42.03	27.65	16.56	33.25	356	145	P	V
2437MHz		2314.16	43.22	-10.78	54	32.26	27.67	16.54	33.25	356	145	A	V
	*	2437	74.81	-	-	63.93	27.43	16.67	33.22	356	145	P	V
	*	2437	67.21	-	-	56.33	27.43	16.67	33.22	356	145	A	V
		2483.52	52.85	-21.15	74	42.07	27.27	16.72	33.21	356	145	P	V
		2491.2	43	-11	54	32.24	27.24	16.73	33.21	319	153	A	V
		2314.96	52.47	-21.53	74	41.51	27.67	16.54	33.25	351	71	P	H
		2321.2	43.18	-10.82	54	32.22	27.66	16.55	33.25	351	71	A	H
	*	2447	75.47	1.47	74	64.6	27.41	16.68	33.22	351	71	P	H
	*	2447	67.51	13.51	54	56.64	27.41	16.68	33.22	351	71	A	H
802.11n		2499.28	52.42	-21.58	74	41.69	27.2	16.74	33.21	351	71	P	H
HT40		2485.6	43.06	-10.94	54	32.29	27.26	16.72	33.21	351	71	A	H
CH 08		2374	53.26	-20.74	74	42.35	27.55	16.6	33.24	313	146	P	V
2447MHz		2314.32	43.13	-10.87	54	32.17	27.67	16.54	33.25	313	146	A	V
	*	2447	72.95	-1.05	74	62.08	27.41	16.68	33.22	313	146	P	V
	*	2447	65.25	11.25	54	54.38	27.41	16.68	33.22	313	146	A	V
		2492.96	52.56	-21.44	74	41.81	27.23	16.73	33.21	313	146	P	V
		2491.6	43.13	-10.87	54	32.38	27.23	16.73	33.21	313	146	A	V

		2315.6	53.23	-20.77	74	42.26	27.67	16.55	33.25	345	91	P	H
		2350.16	43.33	-10.67	54	32.39	27.6	16.58	33.24	345	91	A	H
	*	2452	74.91	-	-	64.05	27.39	16.69	33.22	345	91	P	H
	*	2452	66.6	-	-	55.74	27.39	16.69	33.22	345	91	A	H
802.11n		2489.12	52.72	-21.28	74	41.96	27.24	16.73	33.21	345	91	P	H
HT40		2494.64	43.17	-10.83	54	32.43	27.22	16.73	33.21	345	91	A	H
CH 09		2376.4	52.85	-21.15	74	41.93	27.55	16.61	33.24	352	148	P	V
2452MHz		2320.88	43.22	-10.78	54	32.26	27.66	16.55	33.25	352	148	A	V
		2452	71.3	-2.7	74	60.44	27.39	16.69	33.22	352	148	P	V
	*	2452	63.14	-	-	52.28	27.39	16.69	33.22	352	148	A	V
		2485.84	53.02	-20.98	74	42.25	27.26	16.72	33.21	352	148	P	V
		2488.88	43.15	-10.85	54	32.39	27.24	16.73	33.21	352	148	A	V

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

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4844	38.85	-35.15	74	57.32	31	10.95	60.42	100	0	P	H
		7266	42.49	-31.51	74	51.73	36.43	13.47	59.14	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	39.91	-34.09	74	58.38	31	10.95	60.42	100	0	P	V
2422MHz		7266	41.6	-32.4	74	50.84	36.43	13.47	59.14	100	0	P	V
													V
													V
		4874	39.35	-34.65	74	57.79	31	10.96	60.4	100	0	P	H
		7311	41.65	-32.35	74	50.88	36.5	13.38	59.11	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	39.74	-34.26	74	58.18	31	10.96	60.4	100	0	P	V
2437MHz		7311	41.38	-32.62	74	50.61	36.5	13.38	59.11	100	0	P	V
													V
													V
		4904	41.71	-32.29	74	60.11	31.01	10.97	60.38	100	0	P	H
		7356	43.64	-30.36	74	52.97	36.48	13.28	59.09	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	40.06	-33.94	74	58.46	31.01	10.97	60.38	100	0	P	V
2452MHz		7356	43.32	-30.68	74	52.65	36.48	13.28	59.09	100	0	P	V
													V
													V

Remark

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

2.4GHz 2400~2483.5MHz

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 G. Cabinet Radiated Radiated Spurious Emission Plots

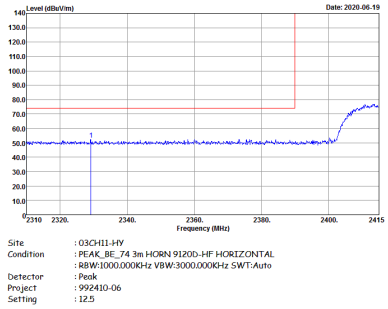
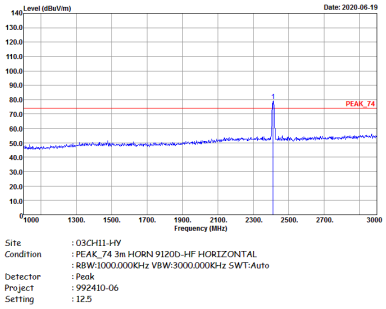
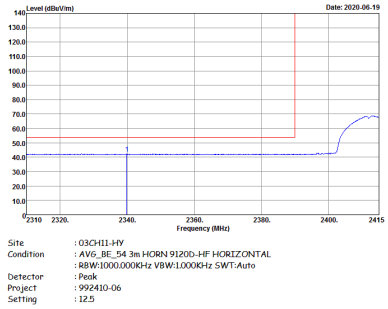
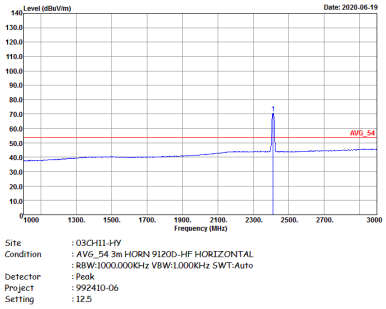
Test Engineer :	Fu Chen and Troye Hsieh	**Temperature :**	19.1 ~ 26.4°C
		Relative Humidity :	55.3 ~ 68.2%

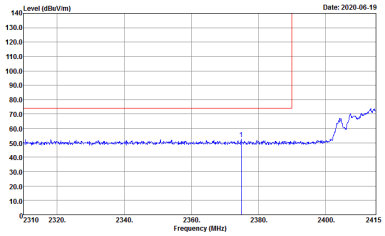
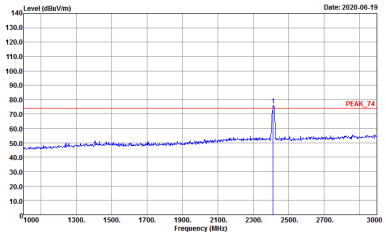
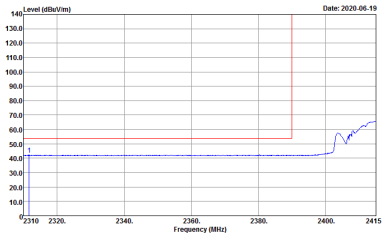
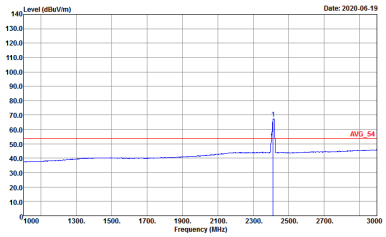
Note symbol

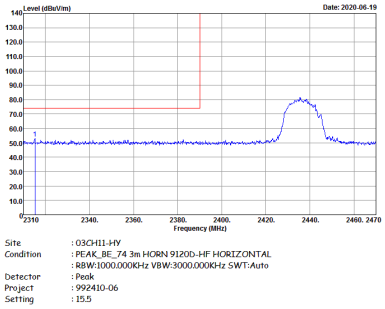
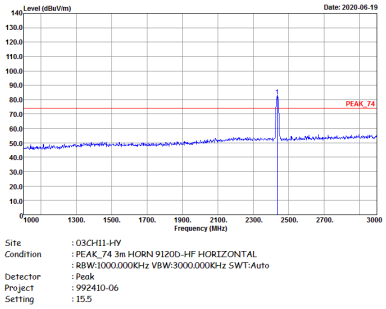
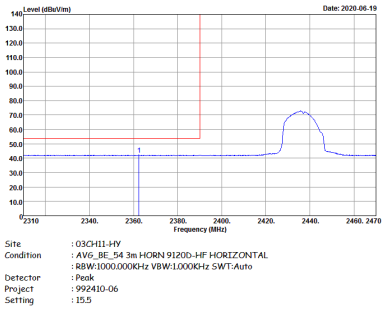
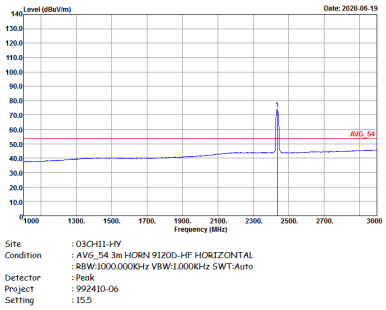
-L	**Low channel location**
-R	**High channel location**

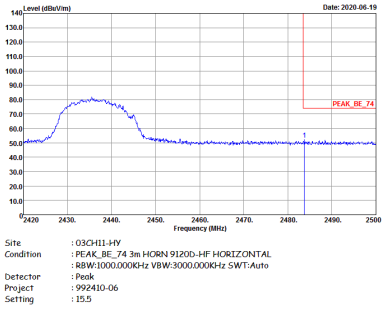
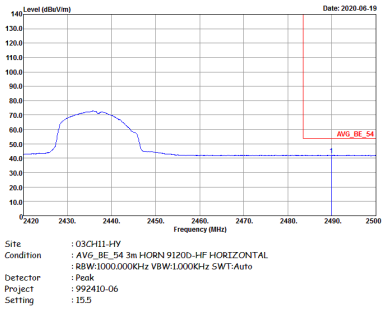
2.4GHz 2400~2483.5MHz

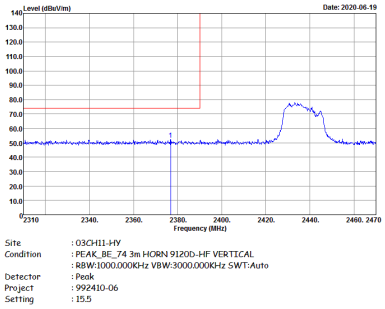
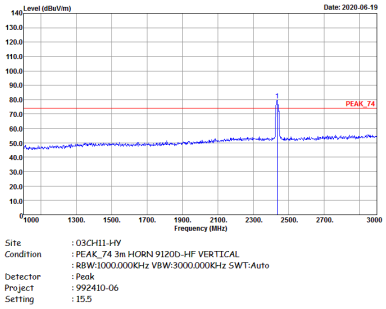
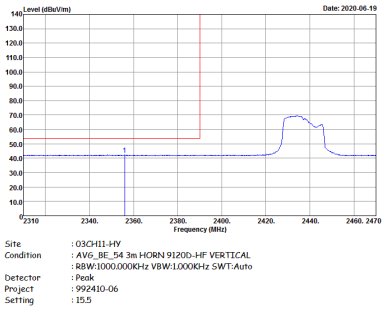
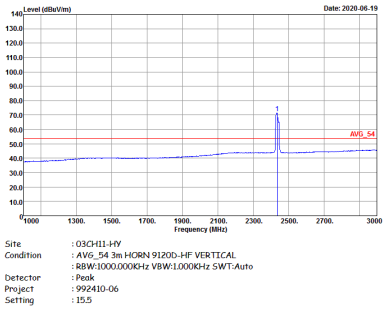
WIFI 802.11n HT20 (Band Edge @ 3m)

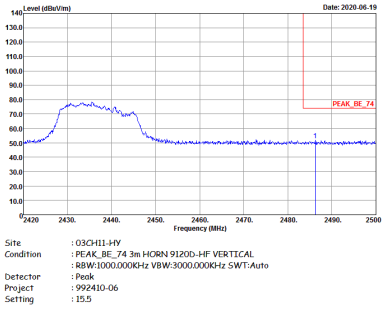
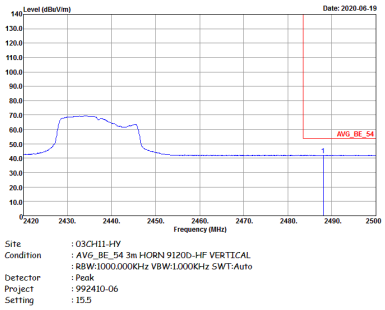
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

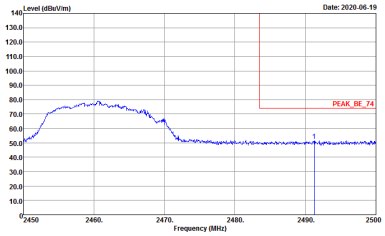
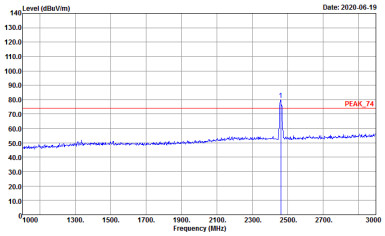
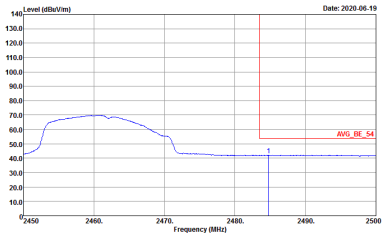
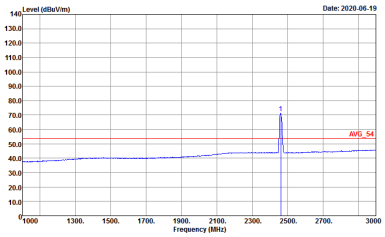
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

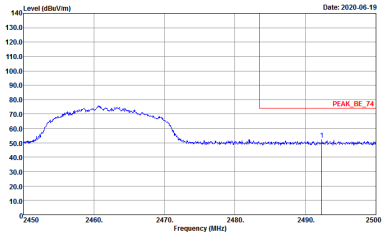
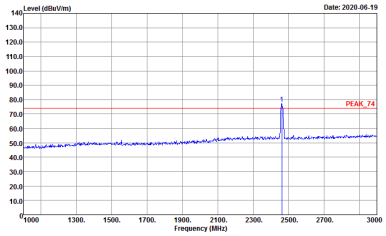
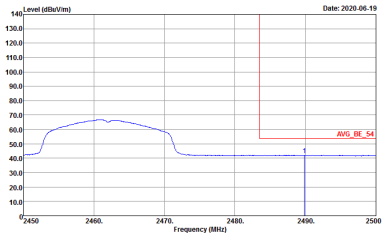
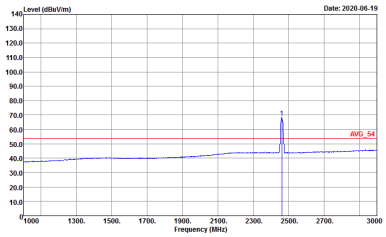
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

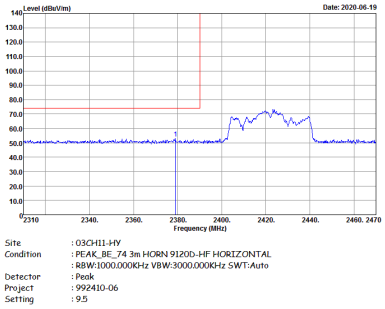
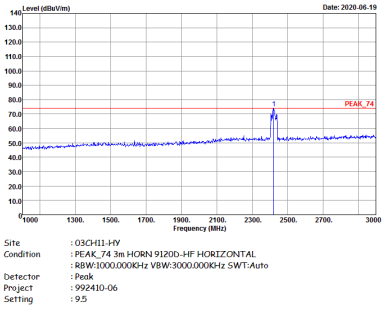
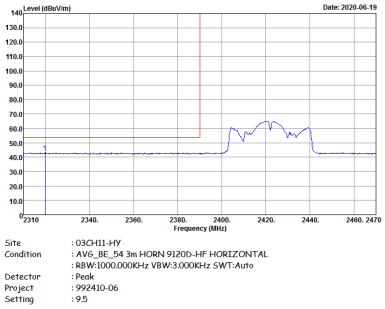
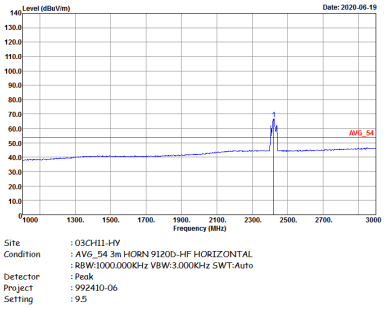
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 15.5	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 15.5	Left Blank

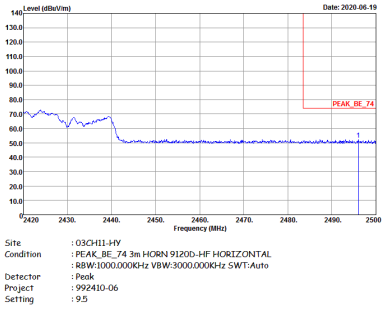
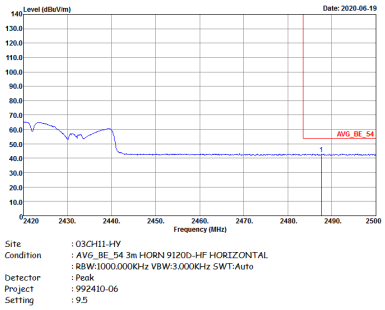
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5

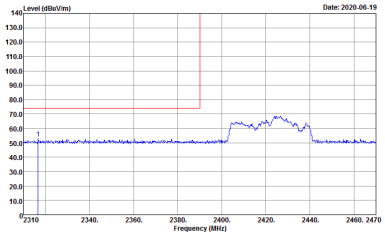
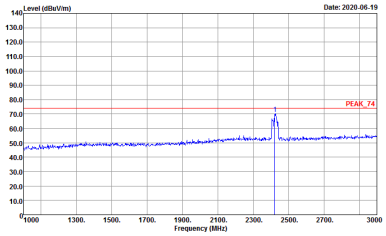
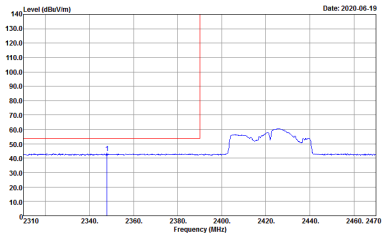
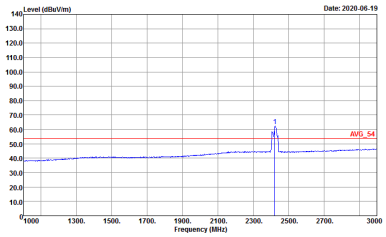
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 13.5

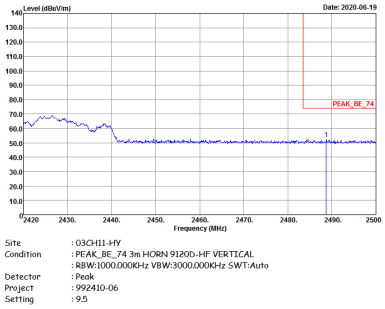
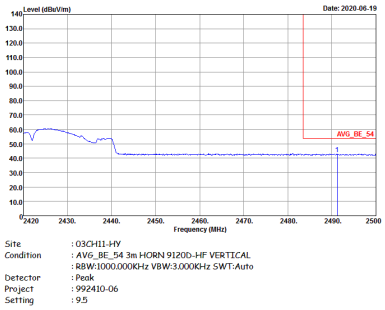
2.4GHz 2400~2483.5MHz

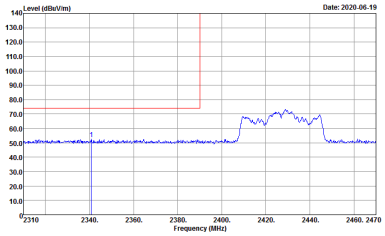
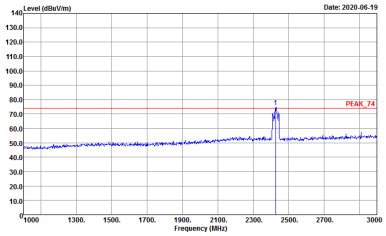
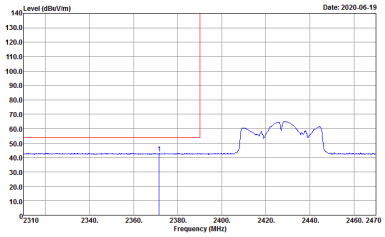
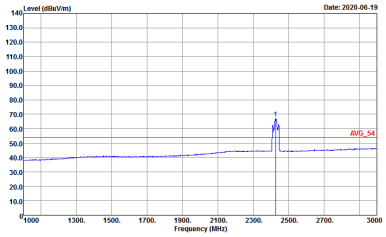
WIFI 802.11n HT40 (Band Edge @ 3m)

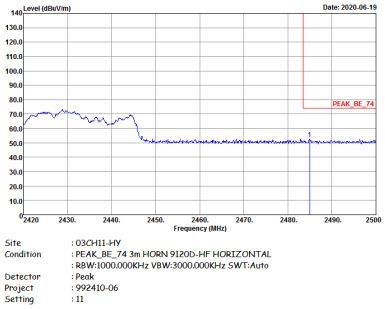
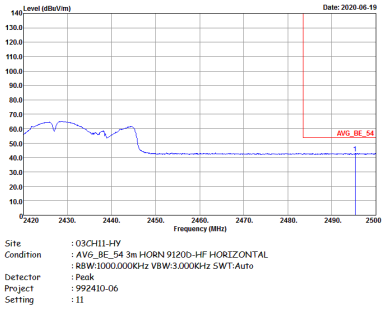
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

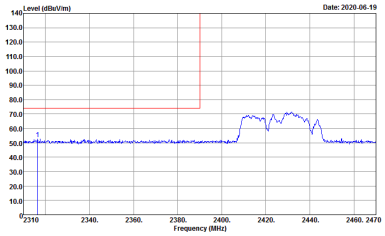
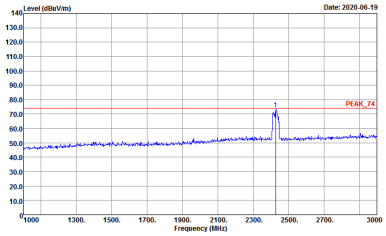
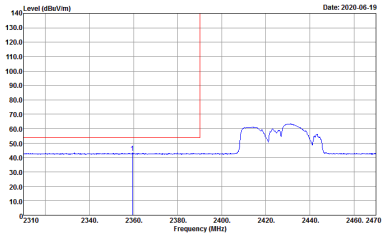
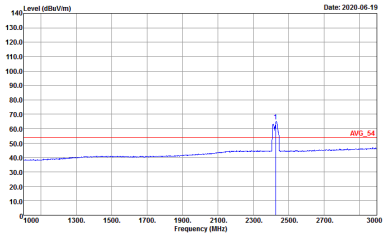
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
0+1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

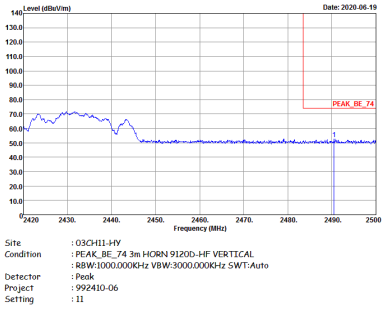
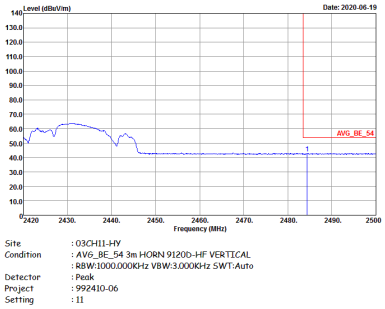
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 9.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 9.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 9.5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 9.5

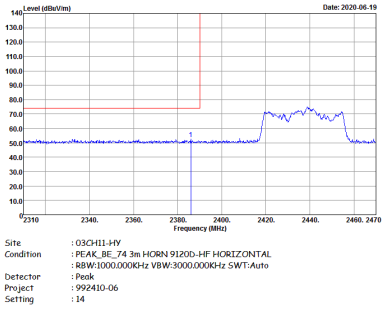
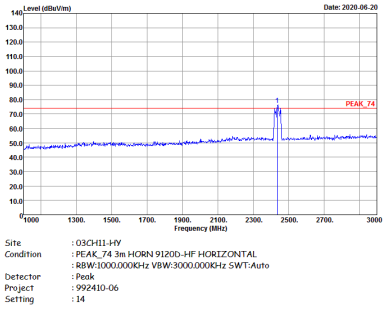
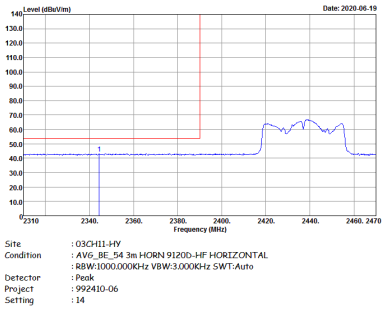
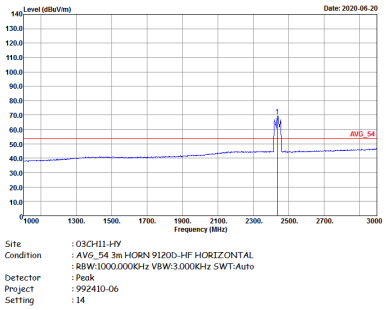
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

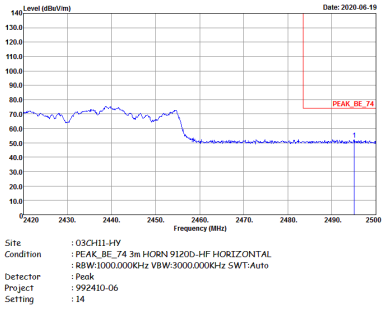
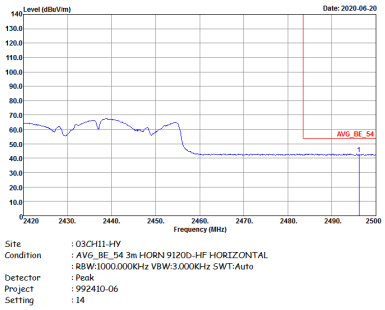
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11

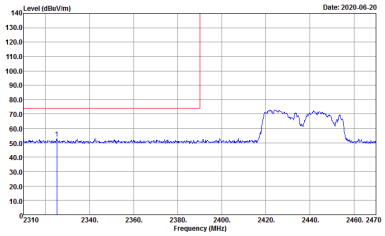
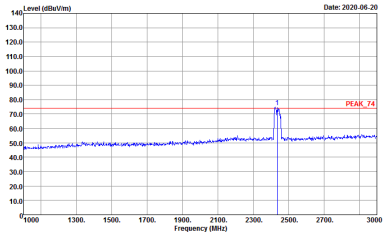
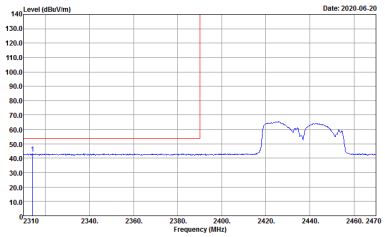
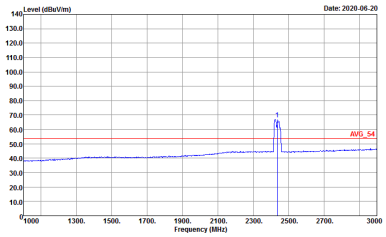
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - R	
0+1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

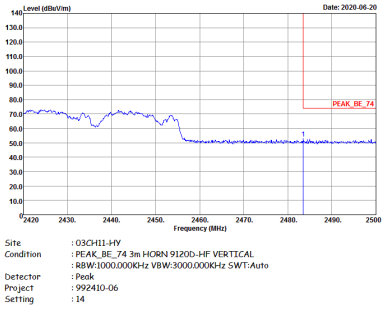
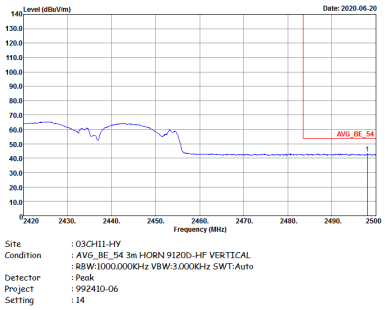
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 11

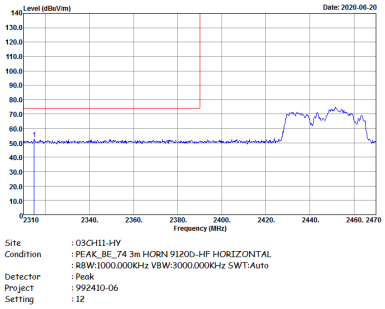
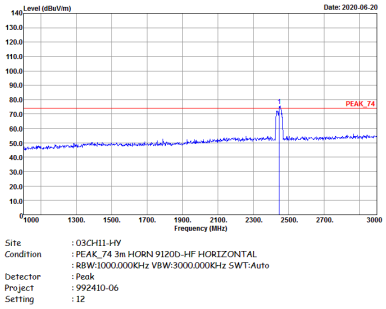
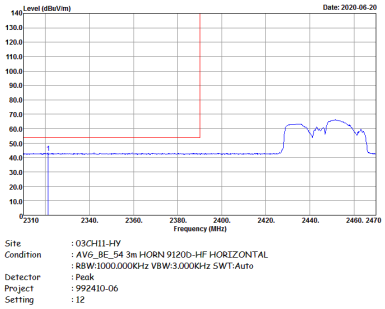
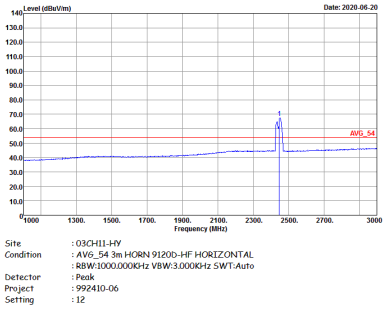
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH04 2427MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

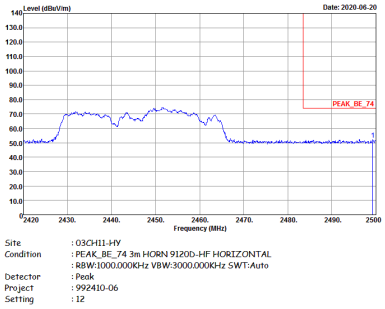
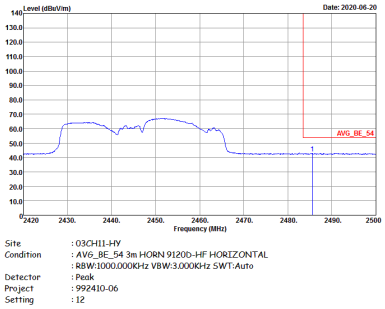
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

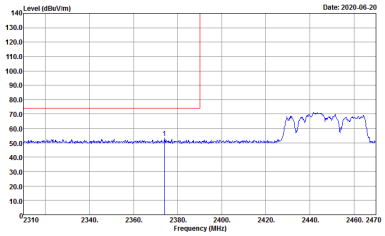
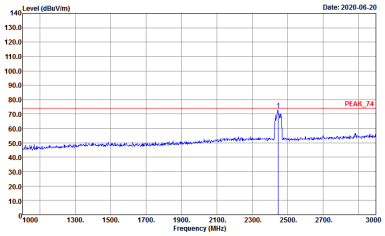
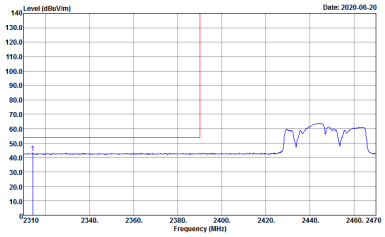
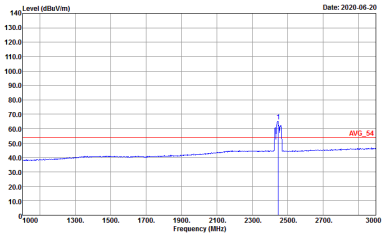
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

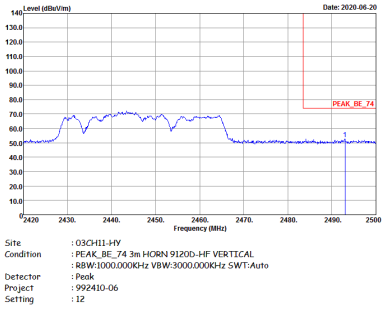
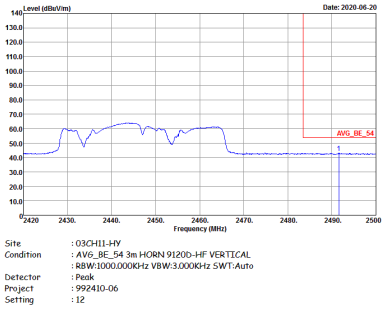
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 14	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 14
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 14	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 14

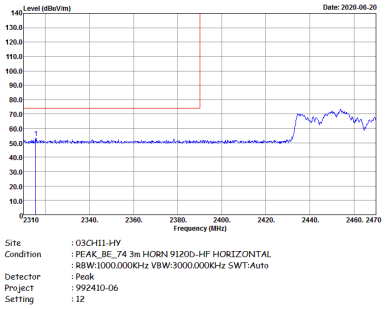
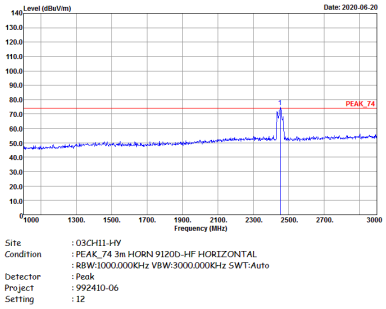
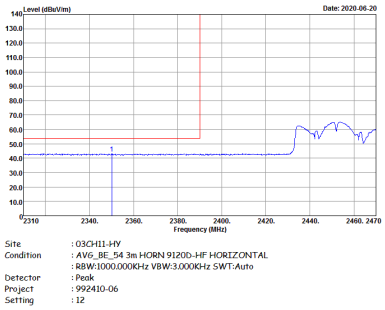
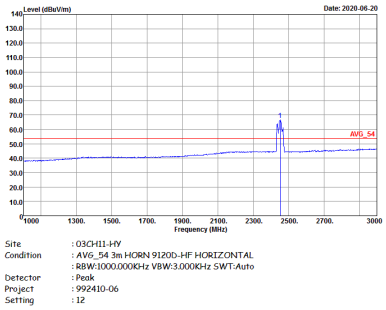
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

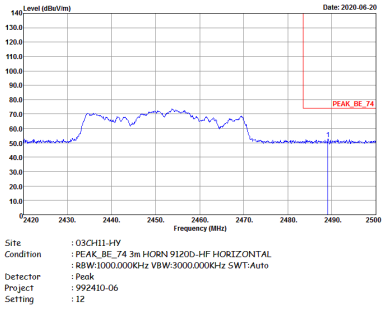
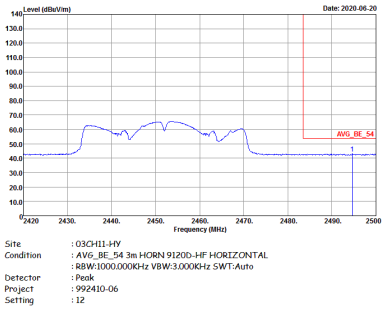
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

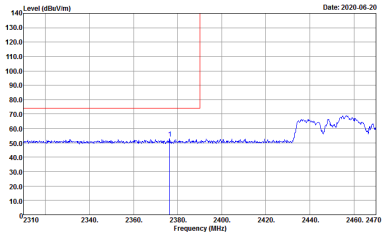
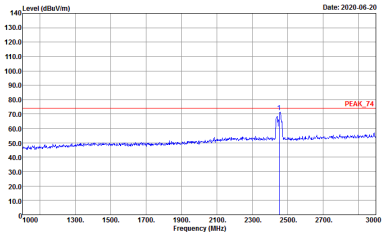
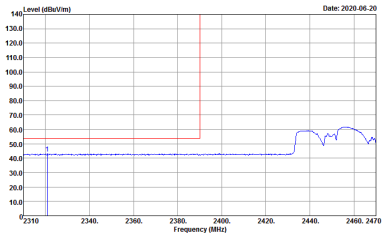
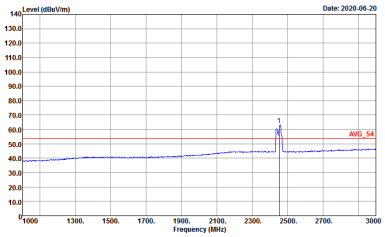
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - R	
0+1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

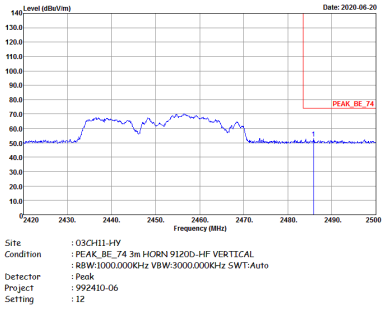
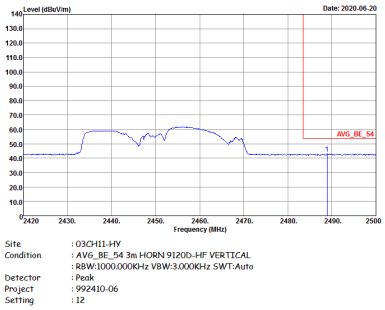
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH08 2447MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

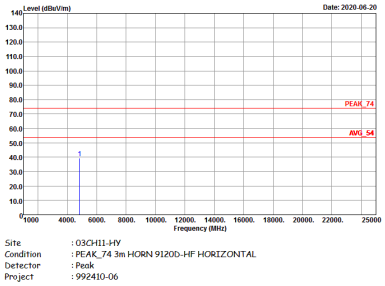
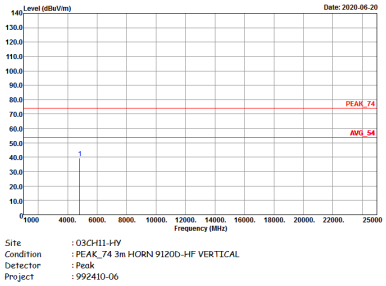
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

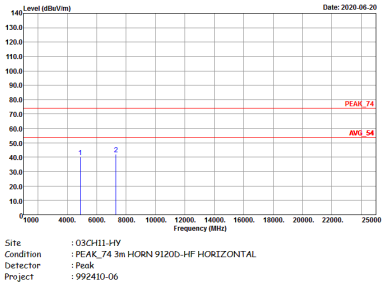
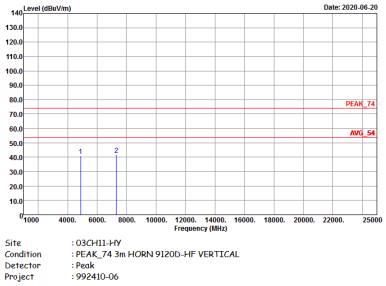
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 992410-06 Setting : 12

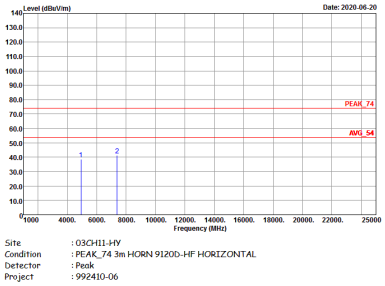
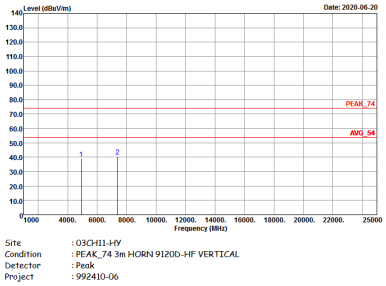
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

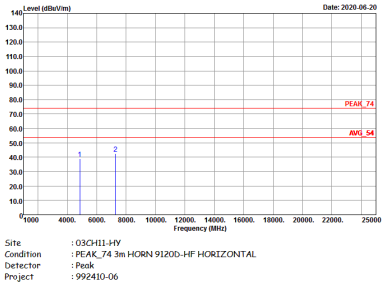
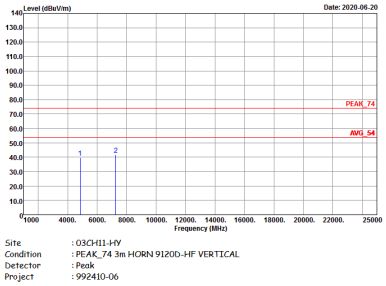
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
0+1	Horizontal	Vertical
Peak Avg.		

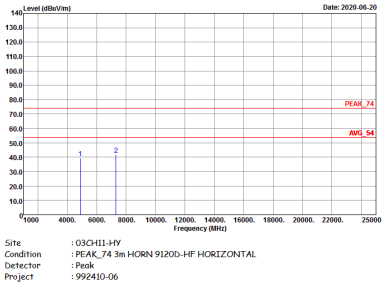
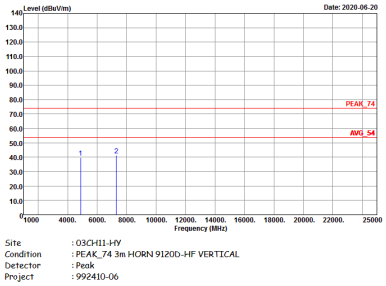
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
0+1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
0+1	Horizontal	Vertical
Peak Avg.