



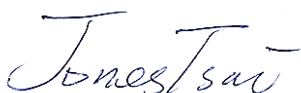
FCC RADIO TEST REPORT

FCC ID : EJE-WB0108
Equipment : Tablet PC
Brand Name : FUJITSU
Model name : T939
Applicant : FUJITSU CLIENT COMPUTING LIMITED
1-1, Kamikonadaka 4-chome,
Nakahara-ku, Kawasaki, 211-8588 Japan
Manufacturer : FUJITSU CLIENT COMPUTING LIMITED
1-1, Kamikodanaka 4-chome,
Nakahara-ku, Kawasaki, 211-8588 Japan
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 31, 2018 and testing was started from Jan. 07, 2019 and completed on Jan. 27, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR8D3109E	01	Initial issue of report	Mar. 05, 2019



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	Under limit 9.57 dB at 148.800 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 13.03 dB at 0.179 MHz
3.4	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh



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

Product Specification subjective to this standard	
Integrated WLAN Module	Brand Name: Intel Model Name: 9560NGW
Antenna Type	WLAN: <Ant. 1> PIFA Antenna <Ant. 2> PIFA Antenna Bluetooth: PIFA Antenna

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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH16-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 E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

Note:

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

2.2 Test Mode

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

Single Mode

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

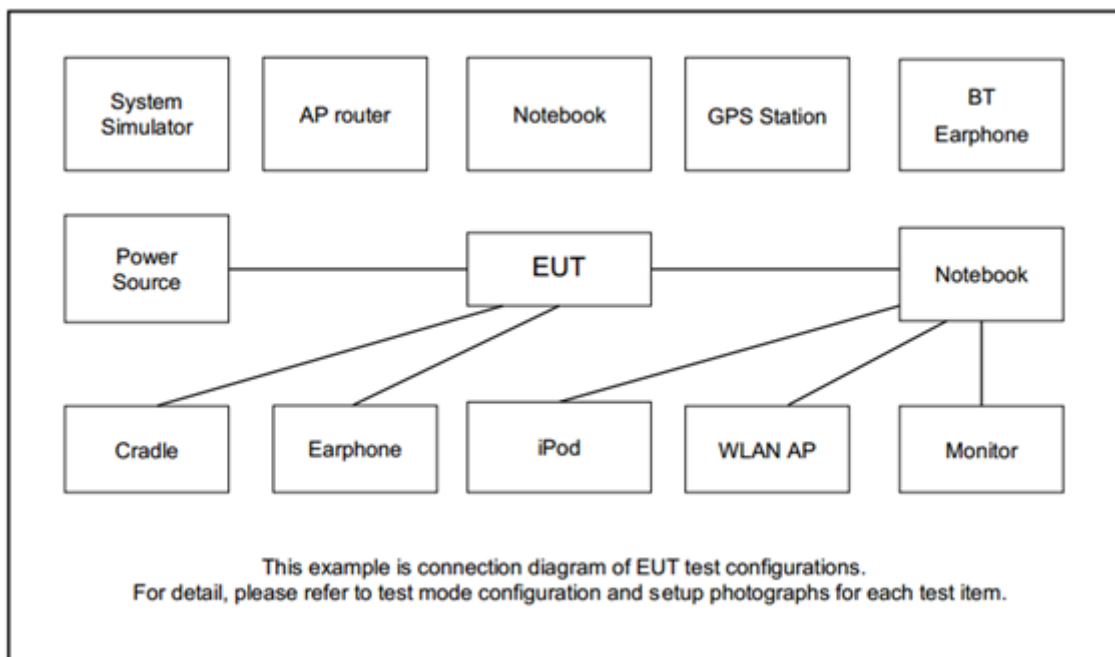
MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Adapter

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	SonyEricsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “DRTU” was installed in EUT 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 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

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

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

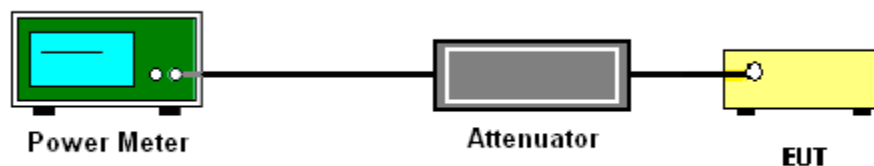
3.1.3 Test Procedures

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

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

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

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

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

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

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

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

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

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



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

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.



3.2.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

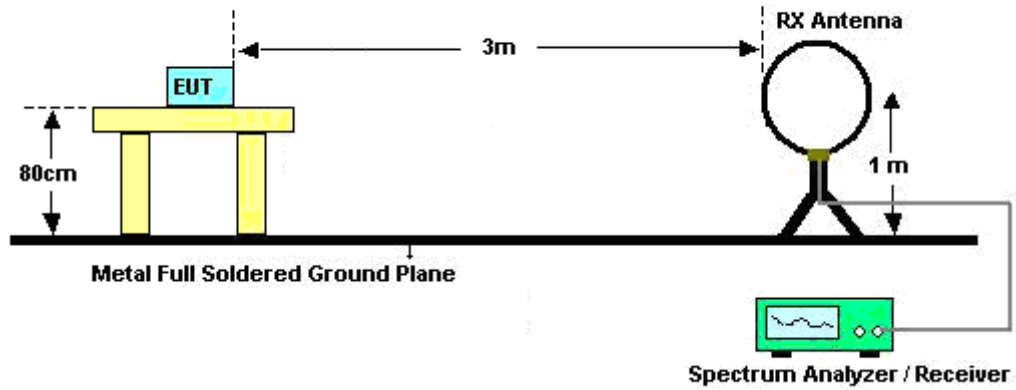
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



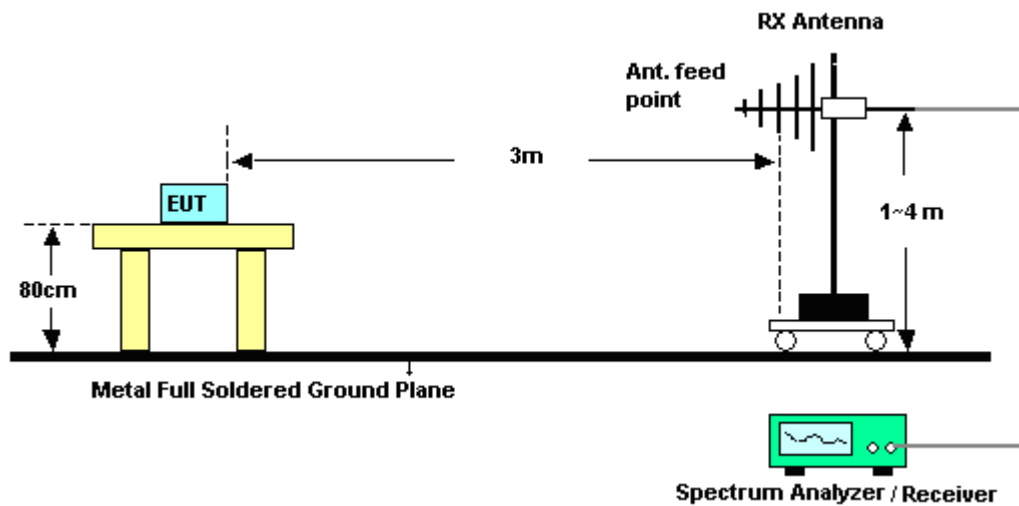
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.2.4 Test Setup

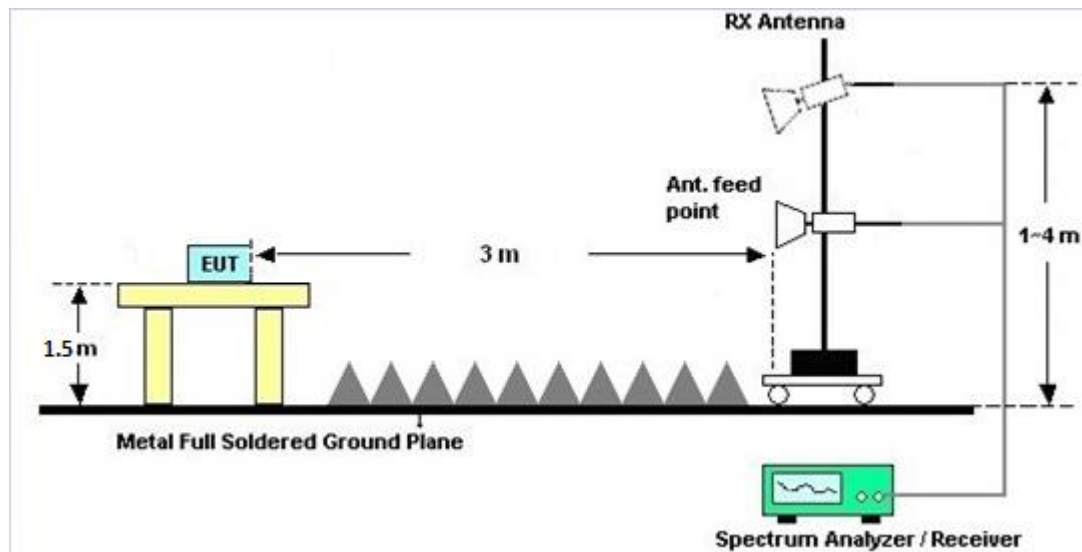
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.2.6 Test Result of Radiated 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 Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

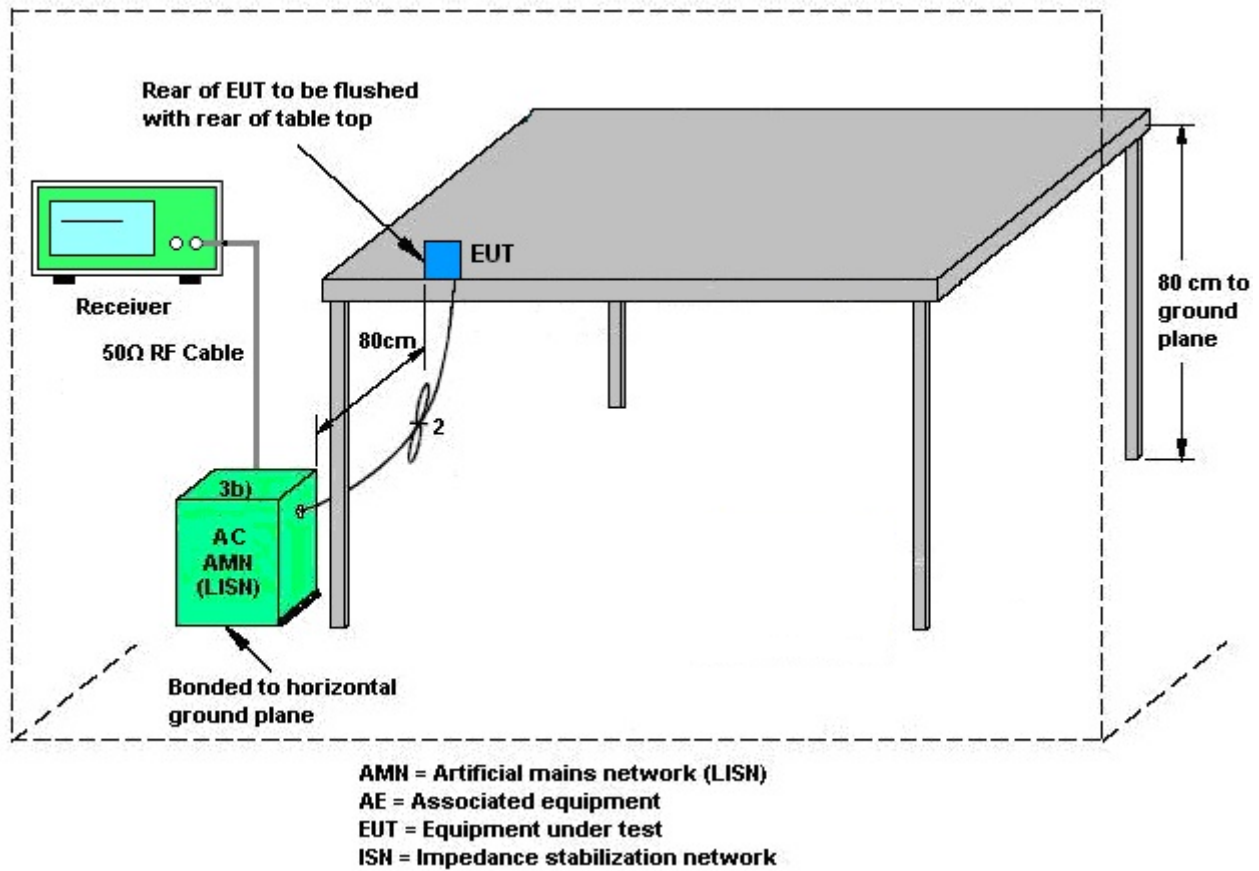
3.3.2 Measuring Instruments

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

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

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

3.4.2 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	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	2.08	-0.83	2.08	3.76	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 08, 2018	Jan. 07, 2019~ Jan. 24, 2019	Oct. 07, 2019	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz z	Oct. 08, 2018	Jan. 07, 2019~ Jan. 24, 2019	Oct. 07, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Jan. 07, 2019~ Jan. 24, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 23, 2017	Jan. 20, 2019~ Jan. 23, 2019	Nov. 22, 2019	Radiation (03CH16-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jan. 20, 2019~ Jan. 23, 2019	Jul. 15, 2019	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	May 08, 2018	Jan. 20, 2019~ Jan. 23, 2019	May 07, 2019	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 20, 2019~ Jan. 23, 2019	N/A	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0054001	1GHz~18GHz	Apr. 16, 2018	Jan. 20, 2019~ Jan. 23, 2019	Apr. 15, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY572901 11	3Hz~26.5GHz	Nov. 29, 2018	Jan. 20, 2019~ Jan. 23, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 07, 2018	Jan. 20, 2019~ Jan. 23, 2019	Sep. 06, 2019	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Feb. 02, 2018	Jan. 20, 2019~ Jan. 23, 2019	Feb. 01, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	Jan. 20, 2019~ Jan. 23, 2019	Mar. 13, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/ 4	30M-18G	Mar. 14, 2018	Jan. 20, 2019~ Jan. 23, 2019	Mar. 13, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36979/ 4	30M~18GHz	Mar. 14, 2018	Jan. 20, 2019~ Jan. 23, 2019	Mar. 13, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Apr. 17, 2018	Jan. 20, 2019~ Jan. 23, 2019	Apr. 16, 2019	Radiation (03CH16-HY)
Biconical Antenna	SCHWARZBECK	BBA 9106 & VHBB 9124	301	30MHz-300MHz	Feb. 06, 2018	Jan. 20, 2019~ Jan. 23, 2019	Feb. 05, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02, 2018	Jan. 20, 2019~ Jan. 23, 2019	Oct. 01, 2019	Radiation (03CH16-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jan. 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 06, 2018	Jan. 27, 2019	Mar. 05, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jan. 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jan. 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Sep. 14, 2018	Jan. 27, 2019	Sep. 13, 2019	Conduction (CO05-HY)
Software	Audix	E3 6.2009-8-24c	RK-001179	N/A	N/A	Jan. 27, 2019	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 08, 2018	Jan. 27, 2019	Nov. 07, 2019	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Richard Qiu	Temperature:	21~25	°C
Test Date:	2019/1/7~2019/1/24	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.08	0.08	13.40	13.28		30.00	30.00	2.08	-0.83	Pass
11a	6Mbps	1	157	5785	0.08	0.08	13.30	13.29		30.00	30.00	2.08	-0.83	Pass
11a	6Mbps	1	165	5825	0.08	0.08	13.35	13.32		30.00	30.00	2.08	-0.83	Pass
HT20	MCS0	1	149	5745	0.09	0.11	13.39	13.36		30.00	30.00	2.08	-0.83	Pass
HT20	MCS0	1	157	5785	0.09	0.11	13.34	13.29		30.00	30.00	2.08	-0.83	Pass
HT20	MCS0	1	165	5825	0.09	0.11	13.43	13.39		30.00	30.00	2.08	-0.83	Pass
HT40	MCS0	1	151	5755	0.22	0.22	13.34	13.38		30.00	30.00	2.08	-0.83	Pass
HT40	MCS0	1	159	5795	0.22	0.22	13.38	13.46		30.00	30.00	2.08	-0.83	Pass
VHT20	MCS0	1	149	5745	0.11	0.11	13.38	13.31		30.00	30.00	2.08	-0.83	Pass
VHT20	MCS0	1	157	5785	0.11	0.11	13.29	13.26		30.00	30.00	2.08	-0.83	Pass
VHT20	MCS0	1	165	5825	0.11	0.11	13.32	13.26		30.00	30.00	2.08	-0.83	Pass
VHT40	MCS0	1	151	5755	0.19	0.22	13.27	13.30		30.00	30.00	2.08	-0.83	Pass
VHT40	MCS0	1	159	5795	0.19	0.22	13.24	13.36		30.00	30.00	2.08	-0.83	Pass
VHT80	MCS0	1	155	5775	0.26	0.26	13.40	13.35		30.00	30.00	2.08	-0.83	Pass
11a	6Mbps	2	149	5745	0.13	0.10	13.30	13.33	16.32	30.00		2.08		Pass
11a	6Mbps	2	157	5785	0.13	0.10	13.34	13.38	16.37	30.00		2.08		Pass
11a	6Mbps	2	165	5825	0.13	0.10	13.44	13.36	16.41	30.00		2.08		Pass
HT20	MCS0	2	149	5745	0.13	0.13	13.28	13.38	16.35	30.00		2.08		Pass
HT20	MCS0	2	157	5785	0.13	0.13	13.27	13.30	16.30	30.00		2.08		Pass
HT20	MCS0	2	165	5825	0.13	0.13	13.32	13.25	16.30	30.00		2.08		Pass
HT40	MCS0	2	151	5755	0.24	0.22	13.40	13.42	16.42	30.00		2.08		Pass
HT40	MCS0	2	159	5795	0.24	0.22	13.46	13.42	16.45	30.00		2.08		Pass
VHT20	MCS0	2	149	5745	0.11	0.21	13.23	13.38	16.32	30.00		2.08		Pass
VHT20	MCS0	2	157	5785	0.11	0.21	13.21	13.28	16.26	30.00		2.08		Pass
VHT20	MCS0	2	165	5825	0.11	0.21	13.29	13.25	16.28	30.00		2.08		Pass
VHT40	MCS0	2	151	5755	0.45	0.45	13.37	13.36	16.38	30.00		2.08		Pass
VHT40	MCS0	2	159	5795	0.45	0.45	13.32	13.38	16.36	30.00		2.08		Pass
VHT80	MCS0	2	155	5775	0.57	0.55	13.32	13.36	16.35	30.00		2.08		Pass



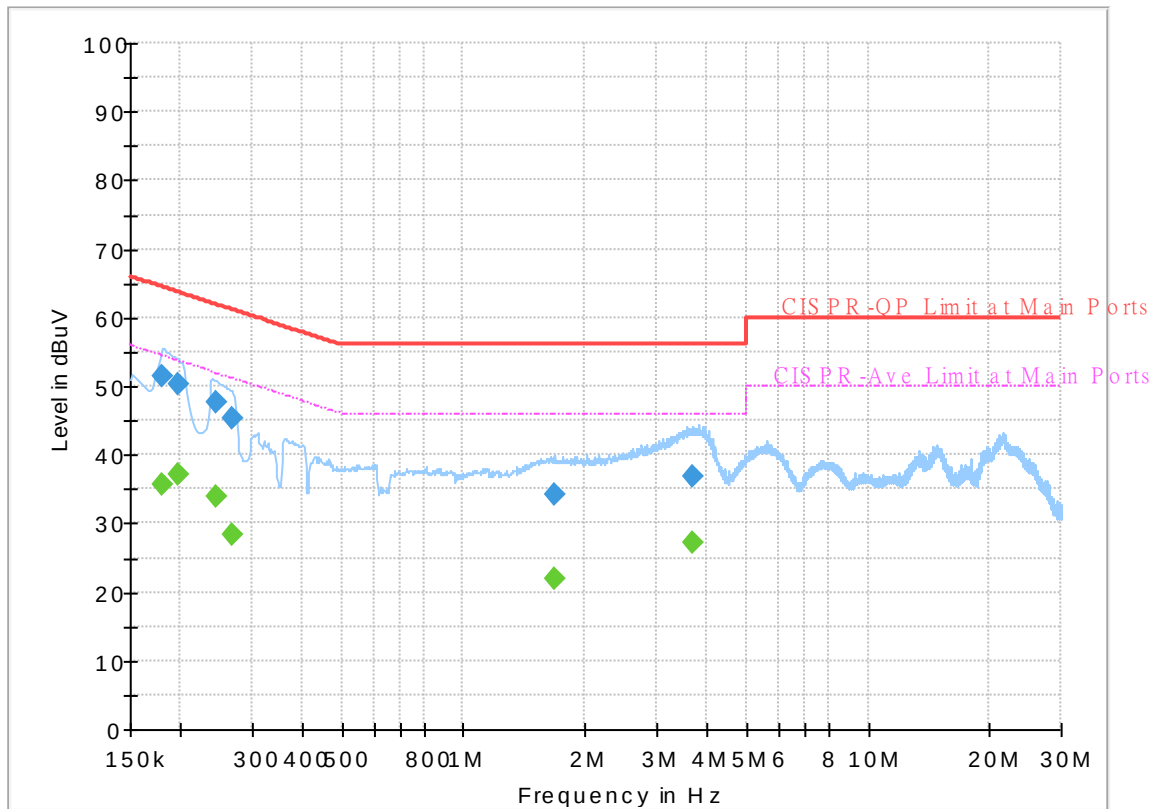
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%

EUT Information

Report NO : 8D3109
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



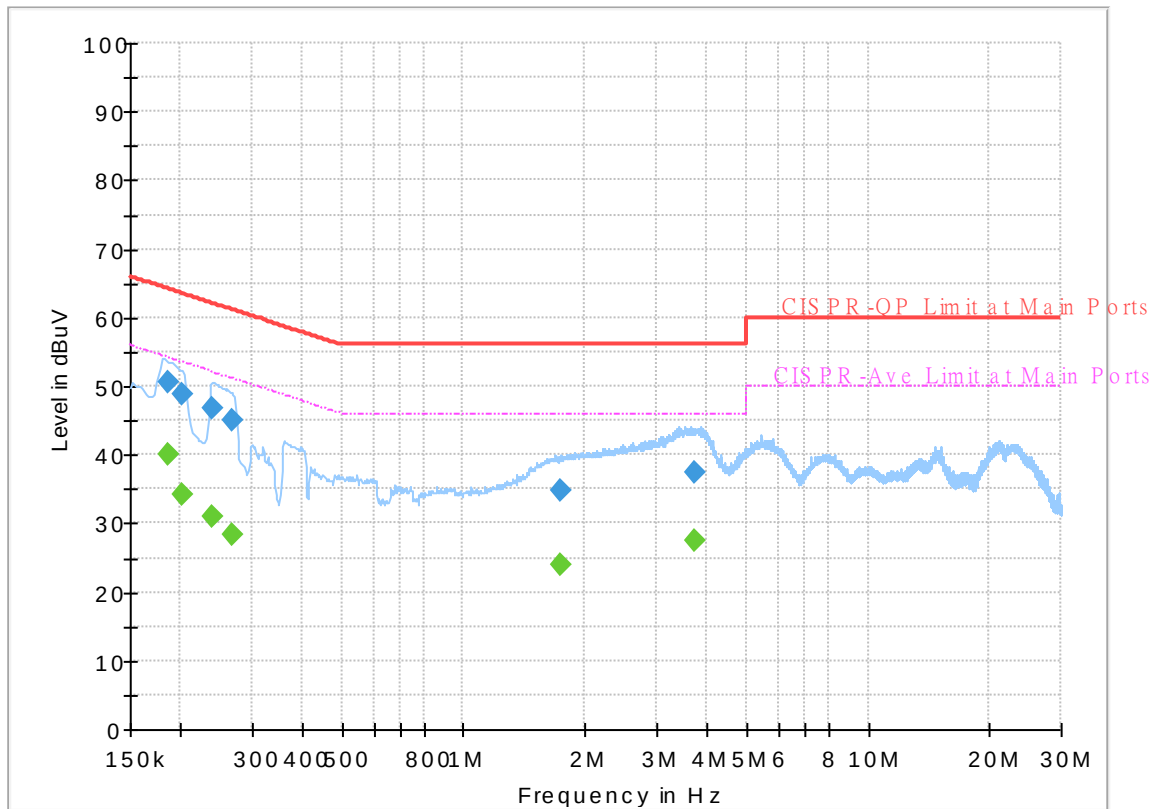
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	35.57	54.52	18.95	L1	OFF	19.5
0.179250	51.49	---	64.52	13.03	L1	OFF	19.5
0.197250	---	37.27	53.73	16.46	L1	OFF	19.5
0.197250	50.38	---	63.73	13.35	L1	OFF	19.5
0.244500	---	33.95	51.94	17.99	L1	OFF	19.5
0.244500	47.62	---	61.94	14.32	L1	OFF	19.5
0.269250	---	28.23	51.14	22.91	L1	OFF	19.5
0.269250	45.25	---	61.14	15.89	L1	OFF	19.5
1.671000	---	21.92	46.00	24.08	L1	OFF	19.6
1.671000	34.12	---	56.00	21.88	L1	OFF	19.6
3.693750	---	27.09	46.00	18.91	L1	OFF	19.6
3.693750	36.82	---	56.00	19.18	L1	OFF	19.6

EUT Information

Report NO : 8D3109
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)
0.186000	---	40.11	54.21	14.10	N	OFF	19.5
0.186000	50.72	---	64.21	13.49	N	OFF	19.5
0.201750	---	34.20	53.54	19.34	N	OFF	19.5
0.201750	48.85	---	63.54	14.69	N	OFF	19.5
0.240000	---	31.03	52.10	21.07	N	OFF	19.5
0.240000	46.77	---	62.10	15.33	N	OFF	19.5
0.269250	---	28.31	51.14	22.83	N	OFF	19.5
0.269250	44.93	---	61.14	16.21	N	OFF	19.5
1.745250	---	23.91	46.00	22.09	N	OFF	19.6
1.745250	34.94	---	56.00	21.06	N	OFF	19.6
3.714000	---	27.61	46.00	18.39	N	OFF	19.6
3.714000	37.36	---	56.00	18.64	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung, CR Liro, Andy Liu	Temperature :	23~25°C
		Relative Humidity :	55~57%

Band 4 - 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 165 5825MHz	*	5825	102.79	-	-	86.04	32.22	14.12	29.59	102	104	P	H
	*	5825	94.71	-	-	77.96	32.22	14.12	29.59	102	104	A	H
		5853.4	54.42	-60.03	114.45	37.73	32.27	14.02	29.6	102	104	P	H
		5855.6	54.8	-55.83	110.63	38.12	32.27	14.01	29.6	102	104	P	H
		5885.2	54.14	-43.49	97.63	37.54	32.32	13.91	29.63	102	104	P	H
		5929.8	54.42	-13.78	68.2	37.9	32.39	13.77	29.64	102	104	P	H
													H
													H
	*	5825	99.22	-	-	82.47	32.22	14.12	29.59	100	296	P	V
	*	5825	91.17	-	-	74.42	32.22	14.12	29.59	100	296	A	V
		5850.4	54.7	-66.59	121.29	38.01	32.26	14.03	29.6	100	296	P	V
		5871	53.92	-52.4	106.32	37.29	32.29	13.96	29.62	100	296	P	V
		5891.8	55.33	-37.4	92.73	38.74	32.33	13.89	29.63	100	296	P	V
		5938	54.21	-13.99	68.2	37.73	32.4	13.74	29.66	100	296	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz		11650	46.07	-27.93	74	49.64	39.6	18.5	61.67	100	0	P	H
		17475	50.23	-17.97	68.2	41.3	42.5	23.59	57.16	100	0	P	H
													H
													H
		11650	45.92	-28.08	74	49.49	39.6	18.5	61.67	100	0	P	V
		17475	50.82	-17.38	68.2	41.89	42.5	23.59	57.16	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5644.2	54.2	-14	68.2	38	31.93	13.78	29.51	103	105	P	H
		5667	54.13	-26.69	80.82	37.84	31.97	13.84	29.52	103	105	P	H
		5717.4	55.72	-54.35	110.07	39.23	32.05	13.98	29.54	103	105	P	H
		5723	56.05	-61.59	117.64	39.54	32.06	13.99	29.54	103	105	P	H
	*	5755	100.75	-	-	84.12	32.11	14.08	29.56	103	105	P	H
	*	5755	92.36	-	-	75.73	32.11	14.08	29.56	103	105	A	H
		5852.6	52.94	-63.33	116.27	36.26	32.26	14.02	29.6	103	105	P	H
		5855.4	54.36	-56.33	110.69	37.68	32.27	14.01	29.6	103	105	P	H
		5900.2	54.94	-31.57	86.51	38.37	32.34	13.86	29.63	103	105	P	H
		5944.2	54.88	-13.32	68.2	38.41	32.41	13.72	29.66	103	105	P	H
													H
													H
		5632.8	53.95	-14.25	68.2	37.8	31.91	13.75	29.51	100	285	P	V
		5651.8	54.79	-14.75	69.54	38.56	31.94	13.8	29.51	100	285	P	V
		5713	56.56	-52.28	108.84	40.09	32.04	13.97	29.54	100	285	P	V
		5721.8	55.03	-59.87	114.9	38.53	32.05	13.99	29.54	100	285	P	V
	*	5755	97.46	-	-	80.83	32.11	14.08	29.56	100	285	P	V
	*	5755	89.65	-	-	73.02	32.11	14.08	29.56	100	285	A	V
		5853.8	53.35	-60.19	113.54	36.66	32.27	14.02	29.6	100	285	P	V
		5870.8	54.5	-51.87	106.37	37.87	32.29	13.96	29.62	100	285	P	V
		5891	55.04	-38.29	93.33	38.44	32.33	13.9	29.63	100	285	P	V
		5948.6	54.23	-13.97	68.2	37.77	32.42	13.7	29.66	100	285	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	46.8	-27.2	74	49.95	39.88	18.39	61.42	100	0	P	H
		17265	49.38	-18.82	68.2	42.08	41.71	23.3	57.71	100	0	P	H
													H
													H
		11510	46.68	-27.32	74	49.83	39.88	18.39	61.42	100	0	P	V
		17265	49.22	-18.98	68.2	41.92	41.71	23.3	57.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5634.8	54.41	-13.79	68.2	38.25	31.92	13.75	29.51	110	107	P	H
		5694.6	54.93	-46.29	101.22	38.53	32.01	13.92	29.53	110	107	P	H
		5718.6	55.82	-54.59	110.41	39.33	32.05	13.98	29.54	110	107	P	H
		5724.6	58.69	-62.6	121.29	42.17	32.06	14	29.54	110	107	P	H
	*	5775	98.54	-	-	81.84	32.14	14.13	29.57	110	107	P	H
	*	5775	90.19	-	-	73.49	32.14	14.13	29.57	110	107	A	H
		5852.6	53.99	-62.28	116.27	37.31	32.26	14.02	29.6	110	107	P	H
		5861.6	54.47	-54.48	108.95	37.82	32.28	13.99	29.62	110	107	P	H
		5877.2	55.19	-48.38	103.57	38.57	32.3	13.94	29.62	110	107	P	H
		5939.4	54.23	-13.97	68.2	37.76	32.4	13.73	29.66	110	107	P	H
													H
													H
		5639	53.8	-14.4	68.2	37.62	31.92	13.77	29.51	101	295	P	V
		5691.8	54.92	-44.23	99.15	38.53	32.01	13.91	29.53	101	295	P	V
		5719.8	55.87	-54.87	110.74	39.38	32.05	13.98	29.54	101	295	P	V
		5724.8	57.43	-64.31	121.74	40.91	32.06	14	29.54	101	295	P	V
	*	5775	95.41	-	-	78.71	32.14	14.13	29.57	101	295	P	V
	*	5775	87.6	-	-	70.9	32.14	14.13	29.57	101	295	A	V
		5854.2	54.41	-58.21	112.62	37.72	32.27	14.02	29.6	101	295	P	V
		5862	54.07	-54.77	108.84	37.42	32.28	13.99	29.62	101	295	P	V
		5898.2	55.6	-32.39	87.99	39.02	32.34	13.87	29.63	101	295	P	V
		5925.4	53.5	-14.7	68.2	36.98	32.38	13.78	29.64	101	295	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	46.48	-27.52	74	49.75	39.8	18.42	61.49	100	0	P	H
		17325	49.94	-18.26	68.2	42.18	41.93	23.39	57.56	100	0	P	H
													H
													H
		11550	45.8	-28.2	74	49.07	39.8	18.42	61.49	100	0	P	V
		17325	49.36	-18.84	68.2	41.6	41.93	23.39	57.56	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 - 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	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)
802.11n HT20 CH 157 5785MHz		5636.2	54.99	-13.21	68.2	38.82	31.92	13.76	29.51	100	61	P	H
		5658.6	54.66	-19.93	74.59	38.41	31.95	13.82	29.52	100	61	P	H
		5719.2	54.35	-56.23	110.58	37.86	32.05	13.98	29.54	100	61	P	H
		5724.6	56.25	-65.04	121.29	39.73	32.06	14	29.54	100	61	P	H
	*	5785	105.29	-	-	88.55	32.16	14.16	29.58	100	61	P	H
	*	5785	97.61	-	-	80.87	32.16	14.16	29.58	100	61	A	H
		5851.2	53.47	-65.99	119.46	36.78	32.26	14.03	29.6	100	61	P	H
		5858	55.43	-54.53	109.96	38.77	32.27	14.01	29.62	100	61	P	H
		5875	54.98	-50.22	105.2	38.35	32.3	13.95	29.62	100	61	P	H
		5942.4	54.43	-13.77	68.2	37.96	32.41	13.72	29.66	100	61	P	H
													H
													H
		5606.6	55.06	-13.14	68.2	39	31.87	13.68	29.49	298	84	P	V
		5651	54.75	-14.19	68.94	38.52	31.94	13.8	29.51	298	84	P	V
		5705.6	53.81	-52.96	106.77	37.37	32.03	13.95	29.54	298	84	P	V
		5720.4	54.88	-56.83	111.71	38.38	32.05	13.99	29.54	298	84	P	V
	*	5785	101.05	-	-	84.31	32.16	14.16	29.58	298	84	P	V
	*	5785	95.15	-	-	78.41	32.16	14.16	29.58	298	84	A	V
		5854.4	53.98	-58.19	112.17	37.29	32.27	14.02	29.6	298	84	P	V
		5869	55.17	-51.71	106.88	38.53	32.29	13.97	29.62	298	84	P	V
		5897.4	54.93	-33.66	88.59	38.35	32.34	13.87	29.63	298	84	P	V
		5938	54.32	-13.88	68.2	37.84	32.4	13.74	29.66	298	84	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		11570	46.07	-27.93	74	49.4	39.76	18.44	61.53	100	0	P	H
		17355	50.16	-18.04	68.2	42.16	42.05	23.43	57.48	100	0	P	H
													H
													H
		11570	46.63	-27.37	74	49.96	39.76	18.44	61.53	100	0	P	V
		17355	50.14	-18.06	68.2	42.14	42.05	23.43	57.48	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5616	54.78	-13.42	68.2	38.68	31.89	13.7	29.49	100	61	P	H
		5683.6	54.54	-38.56	93.1	38.19	31.99	13.89	29.53	100	61	P	H
		5716.8	56.78	-53.13	109.91	40.29	32.05	13.98	29.54	100	61	P	H
		5721.6	55.46	-58.99	114.45	38.96	32.05	13.99	29.54	100	61	P	H
	*	5795	105.45	-	-	88.67	32.17	14.19	29.58	100	61	P	H
	*	5795	98.04	-	-	81.26	32.17	14.19	29.58	100	61	A	H
		5851	56.19	-63.73	119.92	39.5	32.26	14.03	29.6	100	61	P	H
		5860.6	55.29	-53.94	109.23	38.63	32.28	14	29.62	100	61	P	H
		5908.4	55.23	-25.22	80.45	38.67	32.35	13.84	29.63	100	61	P	H
		5925.4	53.98	-14.22	68.2	37.46	32.38	13.78	29.64	100	61	P	H
													H
													H
		5625	54.43	-13.77	68.2	38.29	31.9	13.73	29.49	298	84	P	V
		5693.2	54.97	-45.22	100.19	38.58	32.01	13.91	29.53	298	84	P	V
		5708.2	54.95	-52.55	107.5	38.51	32.03	13.95	29.54	298	84	P	V
		5721.8	53.92	-60.98	114.9	37.42	32.05	13.99	29.54	298	84	P	V
	*	5795	101.8	-	-	85.02	32.17	14.19	29.58	298	84	P	V
	*	5795	93.59	-	-	76.81	32.17	14.19	29.58	298	84	A	V
		5854.4	54.62	-57.55	112.17	37.93	32.27	14.02	29.6	298	84	P	V
		5861.4	54.89	-54.12	109.01	38.24	32.28	13.99	29.62	298	84	P	V
		5875.2	55	-50.05	105.05	38.37	32.3	13.95	29.62	298	84	P	V
		5927	54.32	-13.88	68.2	37.81	32.38	13.77	29.64	298	84	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		11590	47.33	-26.67	74	50.71	39.72	18.46	61.56	100	0	P	H
		17385	49.82	-18.38	68.2	41.59	42.16	23.47	57.4	100	0	P	H
													H
													H
		11590	46.92	-27.08	74	50.3	39.72	18.46	61.56	100	0	P	V
		17385	49.67	-18.53	68.2	41.44	42.16	23.47	57.4	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5600.6	54.61	-13.59	68.2	38.57	31.86	13.66	29.48	100	67	P	H
		5698.4	55.07	-48.95	104.02	38.65	32.02	13.93	29.53	100	67	P	H
		5711	56.78	-51.5	108.28	40.32	32.04	13.96	29.54	100	67	P	H
		5724.2	59.75	-60.63	120.38	43.23	32.06	14	29.54	100	67	P	H
	*	5775	99.53	-	-	82.83	32.14	14.13	29.57	100	67	P	H
	*	5775	91.33	-	-	74.63	32.14	14.13	29.57	100	67	A	H
		5855	53.84	-56.96	110.8	37.15	32.27	14.02	29.6	100	67	P	H
		5861	54.07	-55.05	109.12	37.41	32.28	14	29.62	100	67	P	H
		5887	54.72	-41.57	96.29	38.12	32.32	13.91	29.63	100	67	P	H
		5940.4	54.52	-13.68	68.2	38.05	32.4	13.73	29.66	100	67	P	H
													H
													H
		5639.2	55.64	-12.56	68.2	39.46	31.92	13.77	29.51	318	84	P	V
		5677	54.39	-33.83	88.22	38.06	31.98	13.87	29.52	318	84	P	V
		5716.8	54.51	-55.4	109.91	38.02	32.05	13.98	29.54	318	84	P	V
		5722.8	56.67	-60.51	117.18	40.16	32.06	13.99	29.54	318	84	P	V
	*	5775	95.34	-	-	78.64	32.14	14.13	29.57	318	84	P	V
	*	5775	87.47	-	-	70.77	32.14	14.13	29.57	318	84	A	V
		5854.2	53.99	-58.63	112.62	37.3	32.27	14.02	29.6	318	84	P	V
		5867.4	55	-52.33	107.33	38.36	32.29	13.97	29.62	318	84	P	V
		5920.8	54.8	-16.5	71.3	38.27	32.37	13.8	29.64	318	84	P	V
		5929.2	55.15	-13.05	68.2	38.63	32.39	13.77	29.64	318	84	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	47.22	-26.78	74	50.49	39.8	18.42	61.49	100	0	P	H
		17325	50.82	-17.38	68.2	43.06	41.93	23.39	57.56	100	0	P	H
													H
													H
		11550	47.49	-26.51	74	50.76	39.8	18.42	61.49	100	0	P	V
		17325	51.16	-17.04	68.2	43.4	41.93	23.39	57.56	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
5GHz 802.11ac VHT80 LF		148.8	33.93	-9.57	43.5	46.95	17.85	1.49	32.36	100	0	P	H	
		220.89	30.48	-15.52	46	44.51	16.37	1.97	32.37			P	H	
		238.44	31.09	-14.91	46	43.5	17.81	2.16	32.38			P	H	
		767.6	31.31	-14.69	46	31.42	27.84	4.46	32.41			P	H	
		885.9	31.79	-14.21	46	30.09	28.91	4.66	31.87			P	H	
		945.4	32.44	-13.56	46	29.21	30.01	4.61	31.39			P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
		31.89	25.97	-14.03	40	33.09	25.04	0.29	32.45				P	V
		148.8	30.05	-13.45	43.5	43.07	17.85	1.49	32.36				P	V
		197.13	24.47	-19.03	43.5	39.15	15.92	1.75	32.35				P	V
		790.7	30.25	-15.75	46	30.24	28.02	4.37	32.38				P	V
		885.9	33.8	-12.2	46	32.1	28.91	4.66	31.87	100	0		P	V
		894.3	33.67	-12.33	46	31.87	28.97	4.65	31.82				P	V
														V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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



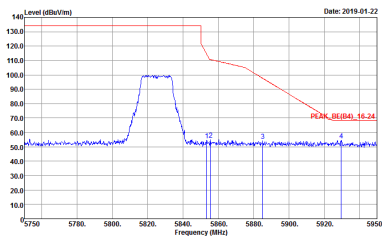
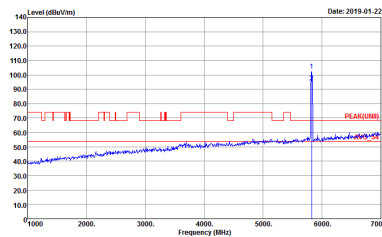
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jacky Hung, CR Liro, Andy Liu	Temperature :	23~25°C
		Relative Humidity :	55~57%

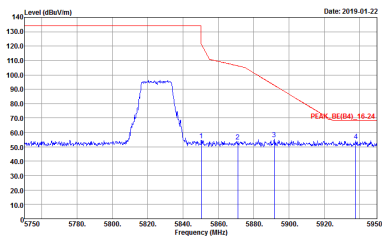
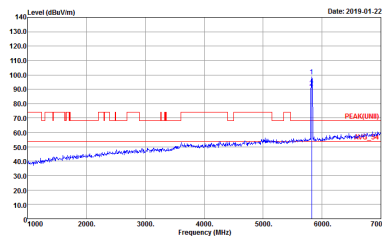
Note symbol

-L	Low channel location
-R	High channel location

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

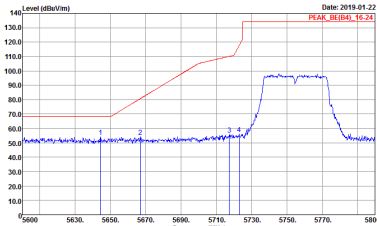
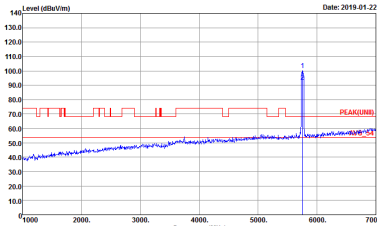
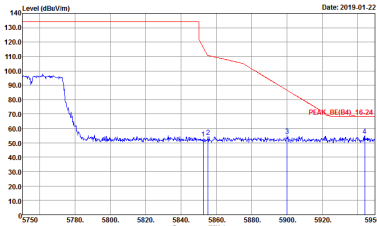
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK: 80.0dBuV/m 16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK: 80.0dBuV/m 16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D3109



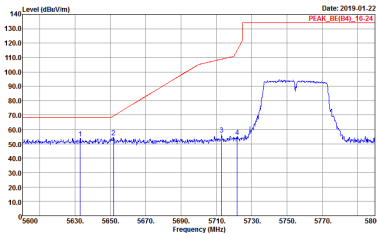
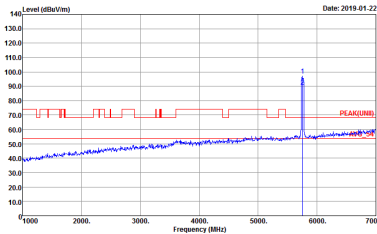
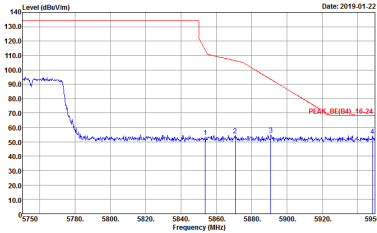
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 803109	 Site : 03CH16-11Y Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 803109



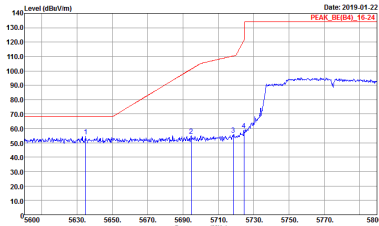
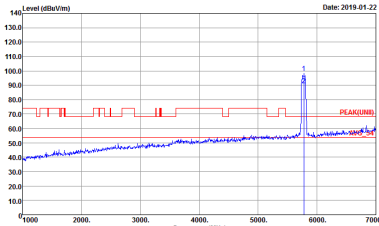
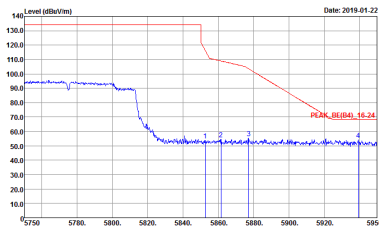
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 8D3109
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 8D3109	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Left blank

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

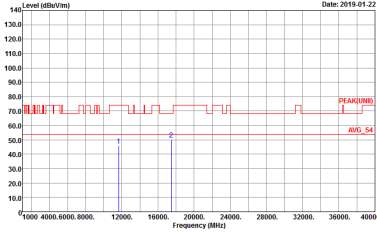
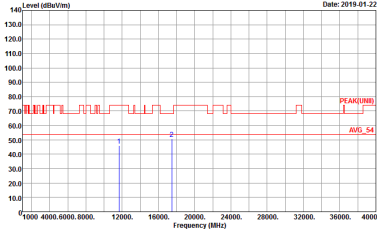
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Site : 03CH16-HY Condition : PEAK(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109
	Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Left blank

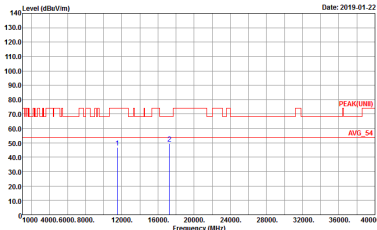
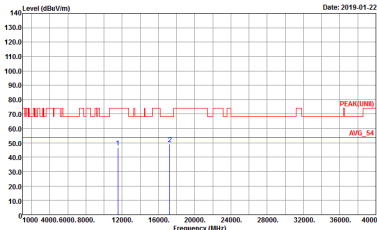


Band 4 - 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109

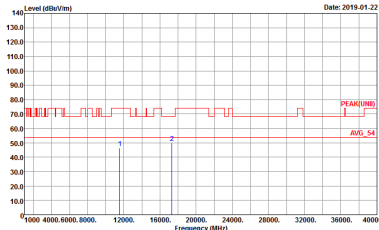
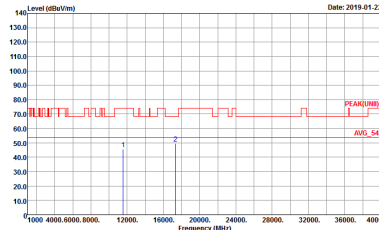


Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109

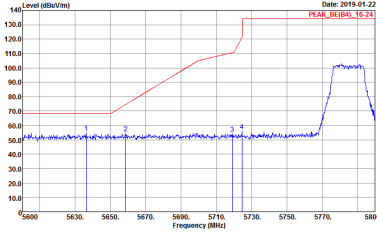
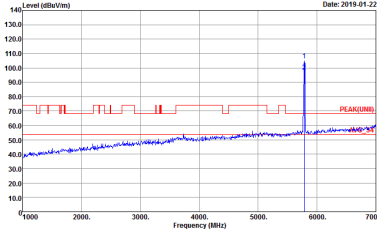
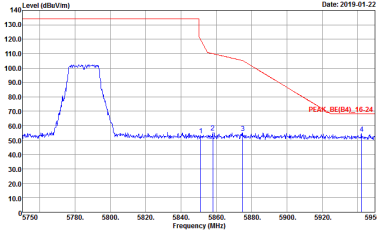


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

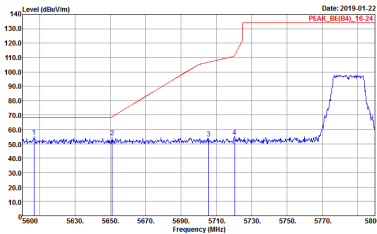
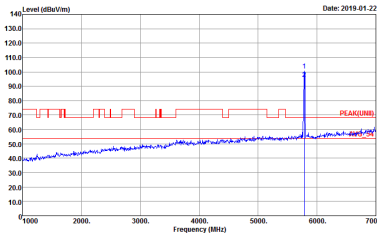
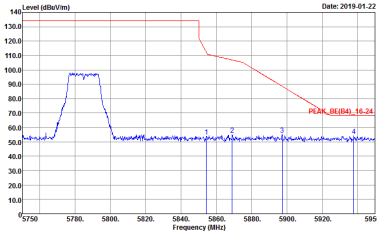
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109



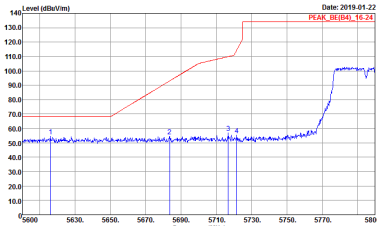
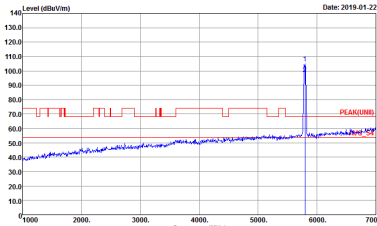
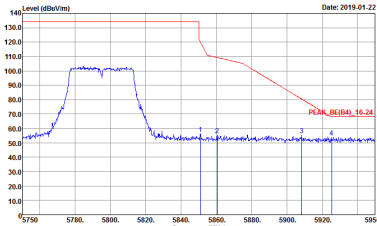
Band 4 - 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(LNB) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D3109
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8D3109	Left blank

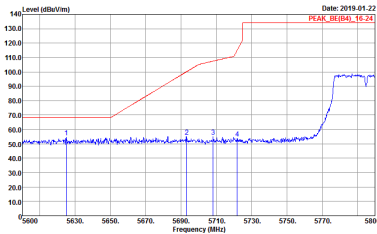
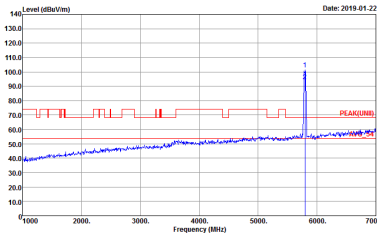
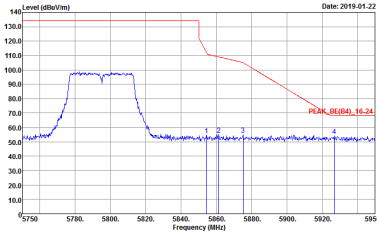


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Left blank

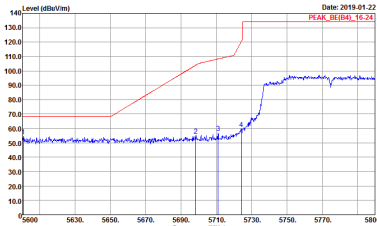
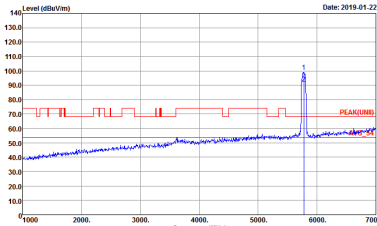
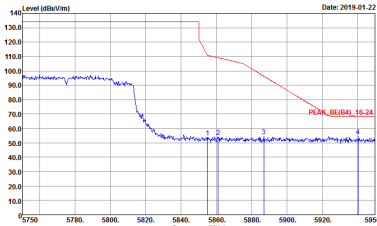
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	Left blank

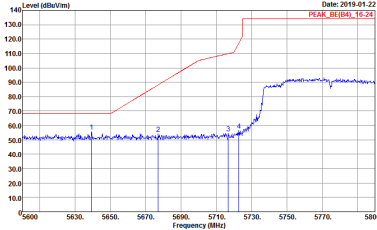
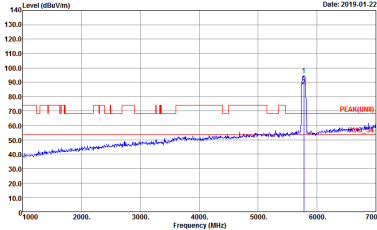
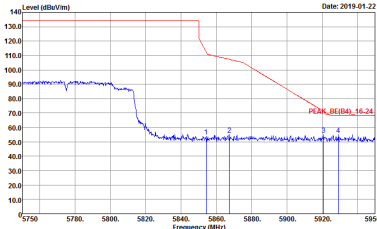


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Left blank

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : 88W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8D3109	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109
	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109	Left blank

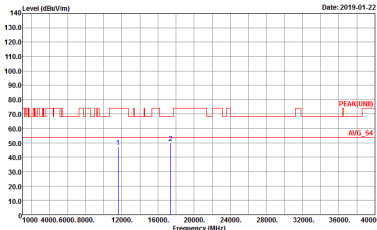
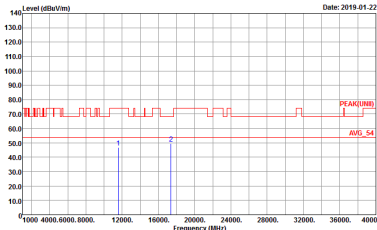


Band 4 - 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109

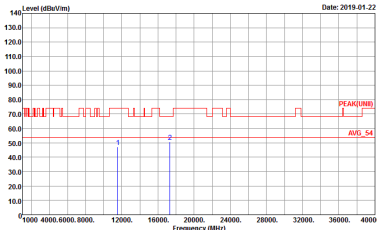
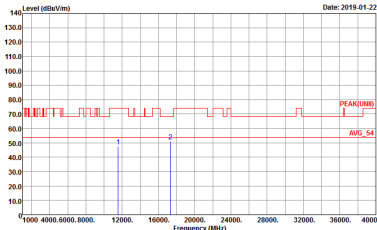


Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 8D3109	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 8D3109



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

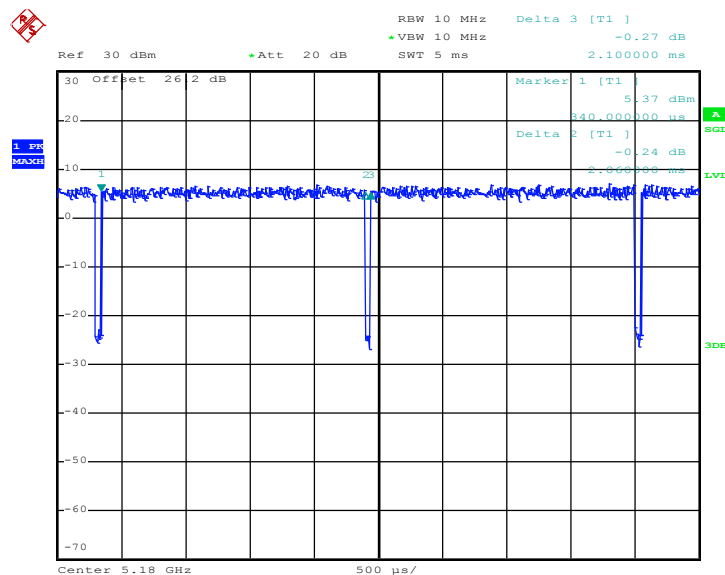
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	Site : 03CH16-HY Condition : QP 3m BIL06_47020606 HORIZONTAL Detector : Peak Project : 8D3109	Site : 03CH16-HY Condition : QP 3m BIL06_47020606 VERTICAL Detector : Peak Project : 8D3109

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	98.10	-	-	10Hz	0.08
2	802.11a	98.10	-	-	10Hz	0.08
1+2	802.11a for Ant. 1	97.16	2050	0.49	1kHz	0.13
1+2	802.11a for Ant. 2	97.63	2060	0.49	1kHz	0.10
1	5GHz 802.11n HT20	97.96	1920	0.52	1kHz	0.09
2	5GHz 802.11n HT20	97.45	1910	0.52	1kHz	0.11
1+2	5GHz 802.11n HT20 for Ant. 1	96.95	1910	0.52	1kHz	0.13
1+2	5GHz 802.11n HT20 for Ant. 2	96.95	1910	0.52	1kHz	0.13
1	5GHz 802.11n HT40	95.09	930	1.08	3kHz	0.22
2	5GHz 802.11n HT40	95.09	930	1.08	3kHz	0.22
1+2	5GHz 802.11n HT40 for Ant. 1	94.55	936	1.07	3kHz	0.24
1+2	5GHz 802.11n HT40 for Ant. 2	95.12	936	1.07	3kHz	0.22
1	5GHz 802.11ac VHT20	97.46	1920	0.52	1kHz	0.11
2	5GHz 802.11ac VHT20	97.47	1930	0.52	1kHz	0.11
1+2	5GHz 802.11ac VHT20 for Ant. 1	94.23	980	1.02	3kHz	0.26
1+2	5GHz 802.11ac VHT20 for Ant. 2	95.19	990	1.01	3kHz	0.21
1	5GHz 802.11ac VHT40	95.73	942	1.06	3kHz	0.19
2	5GHz 802.11ac VHT40	95.15	942	1.06	3kHz	0.22
1+2	5GHz 802.11ac VHT40 for Ant. 1	90.11	492	2.03	3kHz	0.45
1+2	5GHz 802.11ac VHT40 for Ant. 2	90.11	492	2.03	3kHz	0.45
1	5GHz 802.11ac VHT80	94.27	724	1.38	3kHz	0.26
2	5GHz 802.11ac VHT80	94.27	724	1.38	3kHz	0.26
1+2	5GHz 802.11ac VHT80 for Ant. 1	87.78	388	2.58	3kHz	0.57
1+2	5GHz 802.11ac VHT80 for Ant. 2	88.18	388	2.58	3kHz	0.55

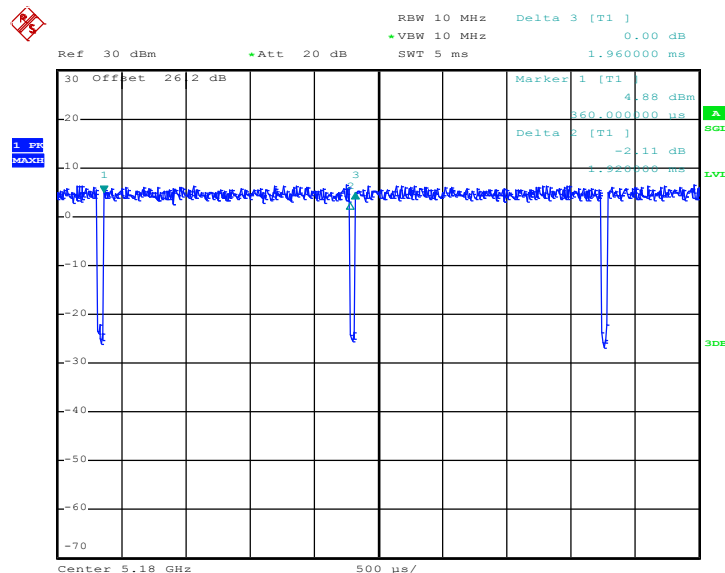
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802.11a



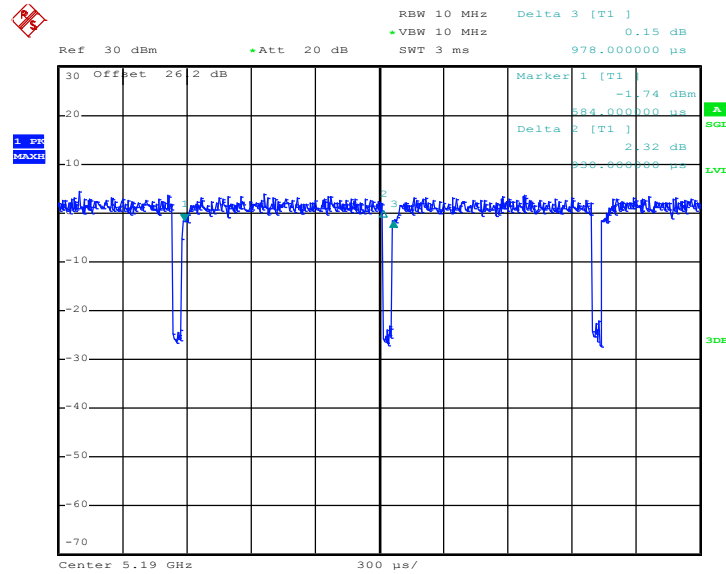
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802.11n HT20



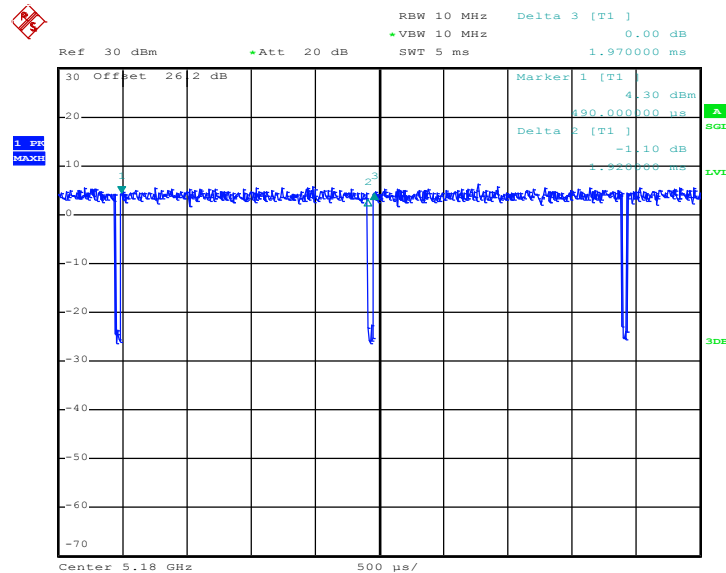
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802.11n HT40



Date: 7.JAN.2019 12:04:56

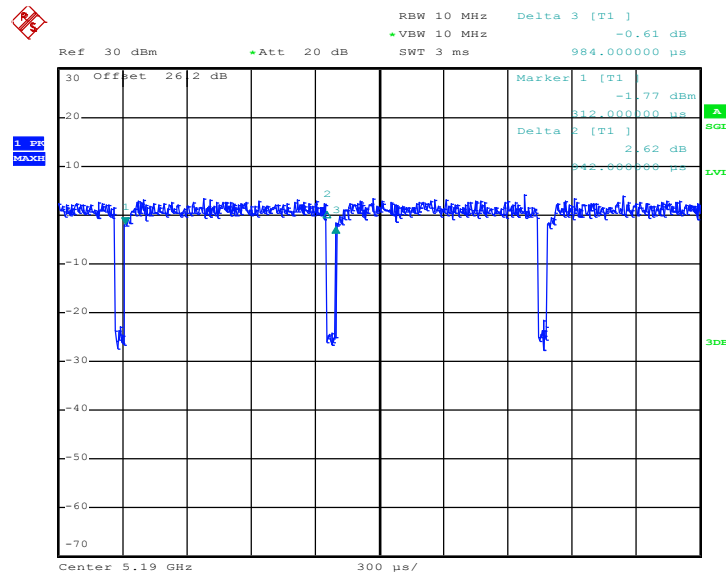
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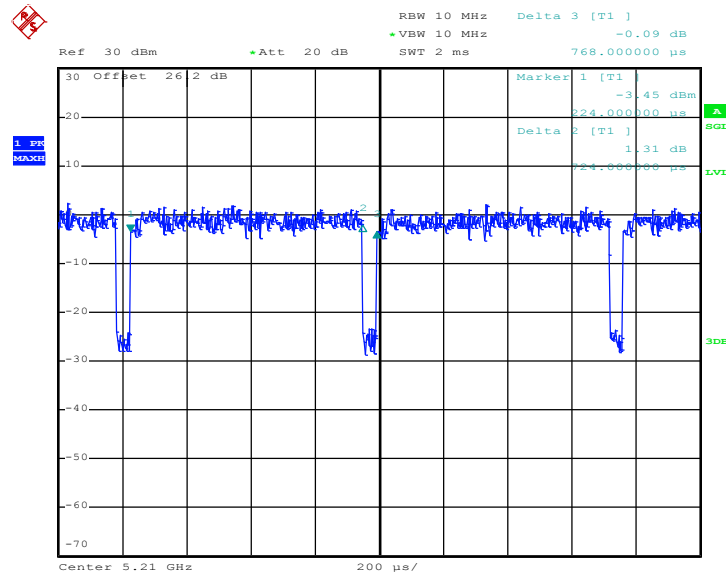


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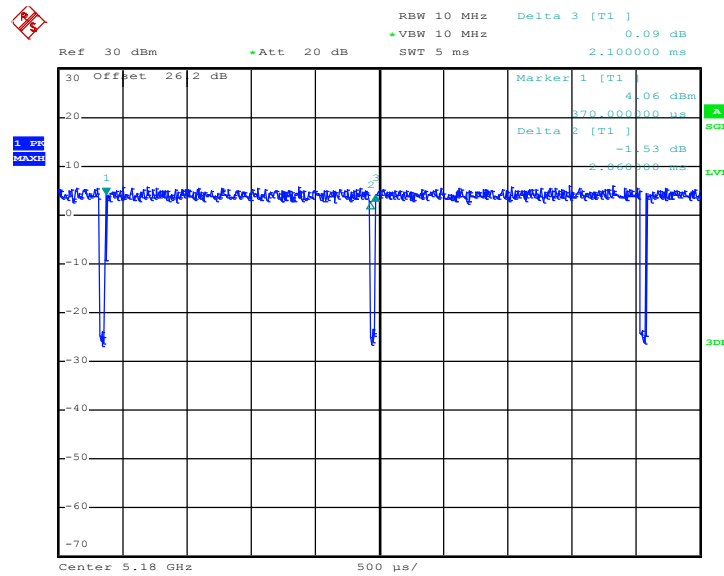
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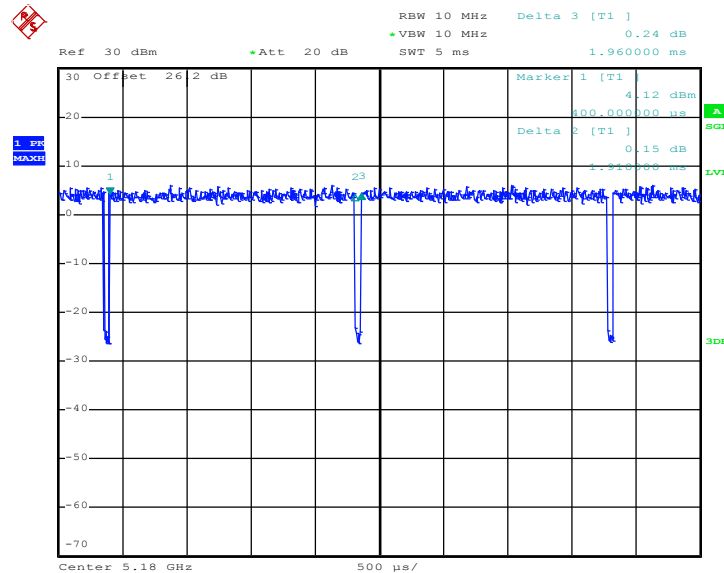
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802.11a

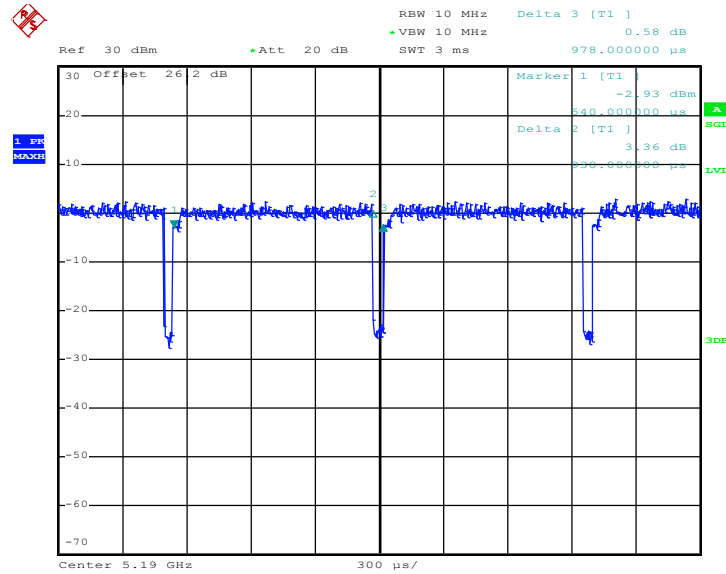


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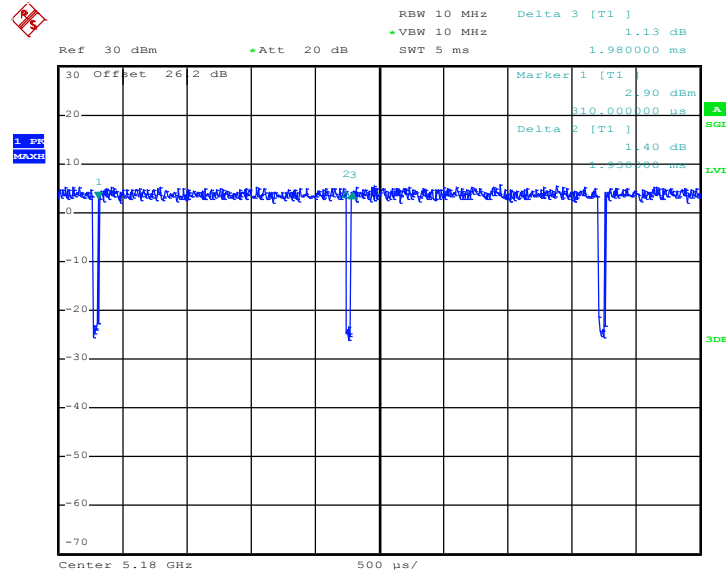
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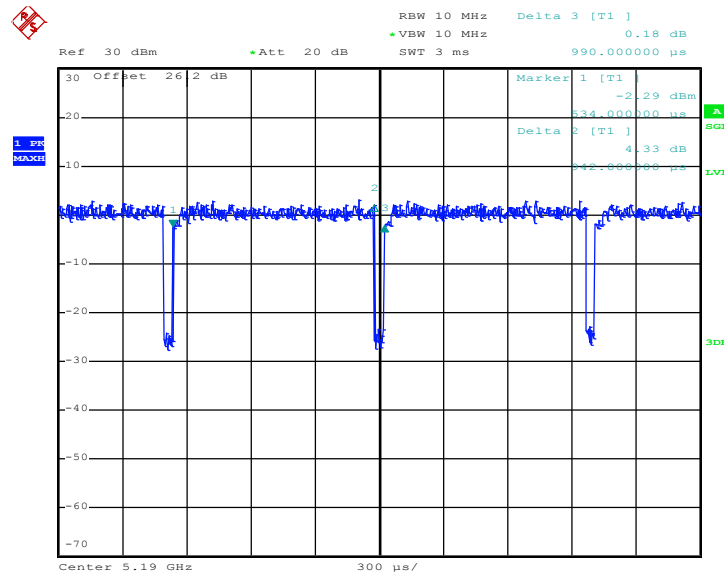
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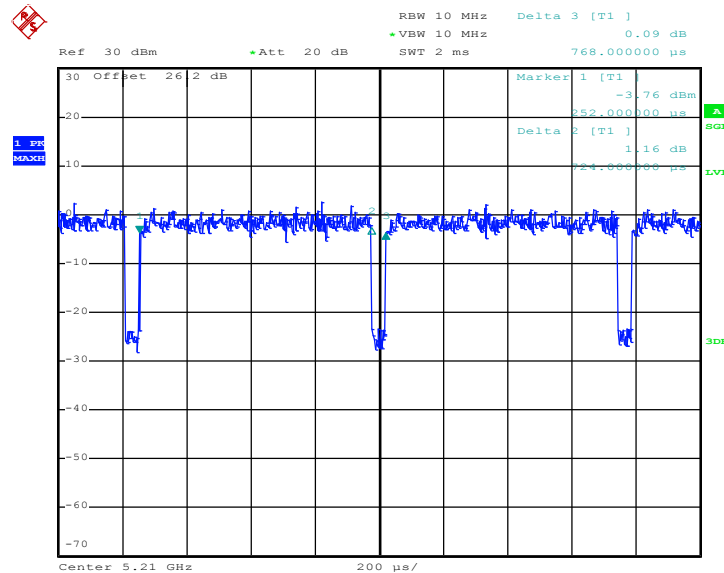
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802.11ac VHT40



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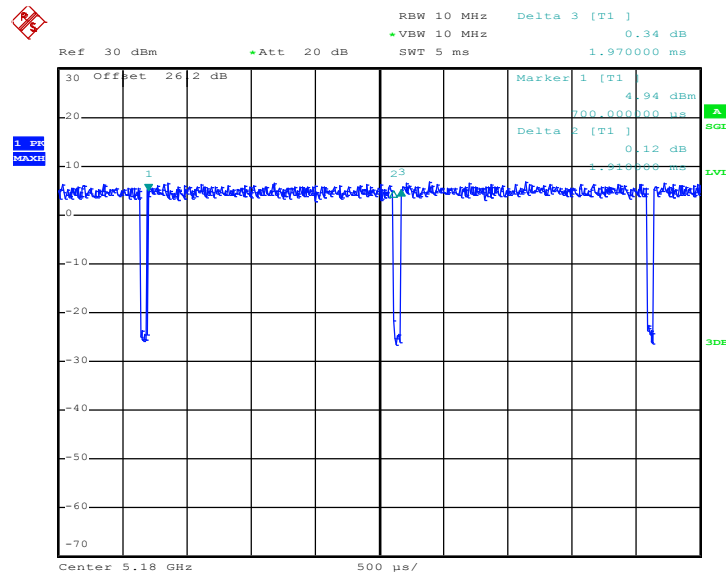
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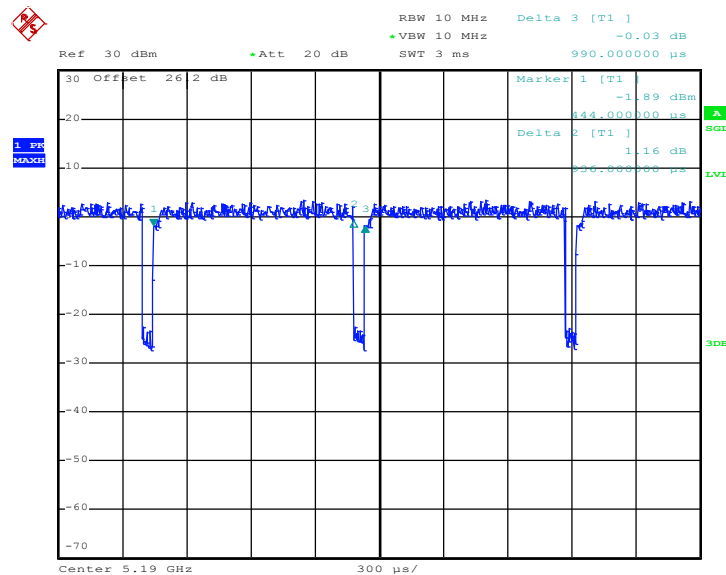
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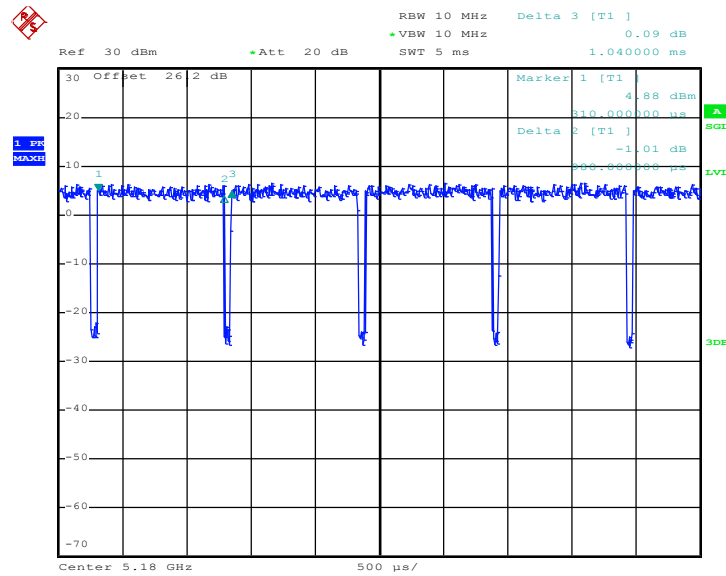
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802.11n HT40



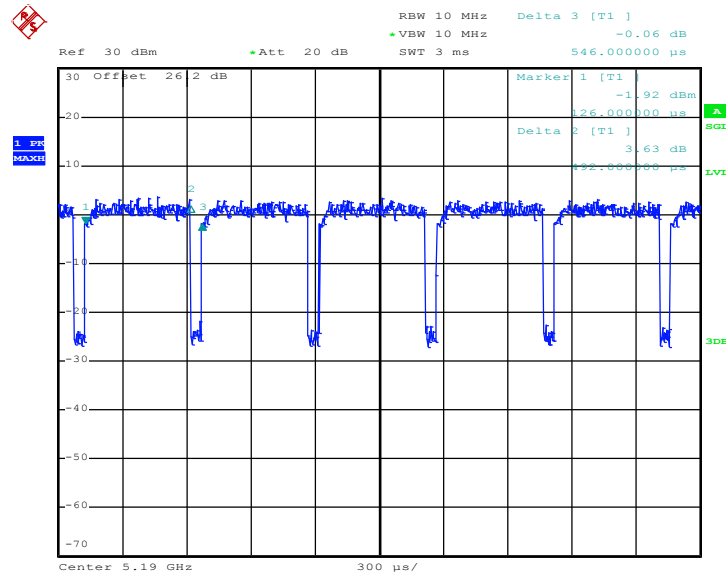
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802.11ac VHT20



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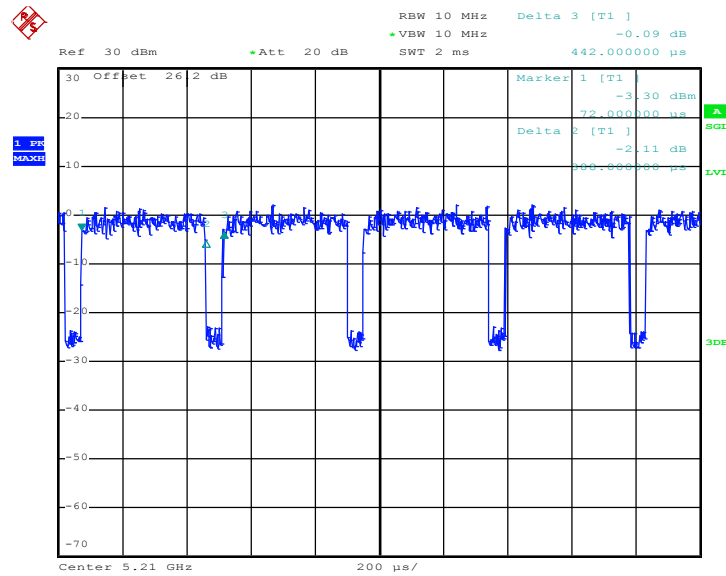
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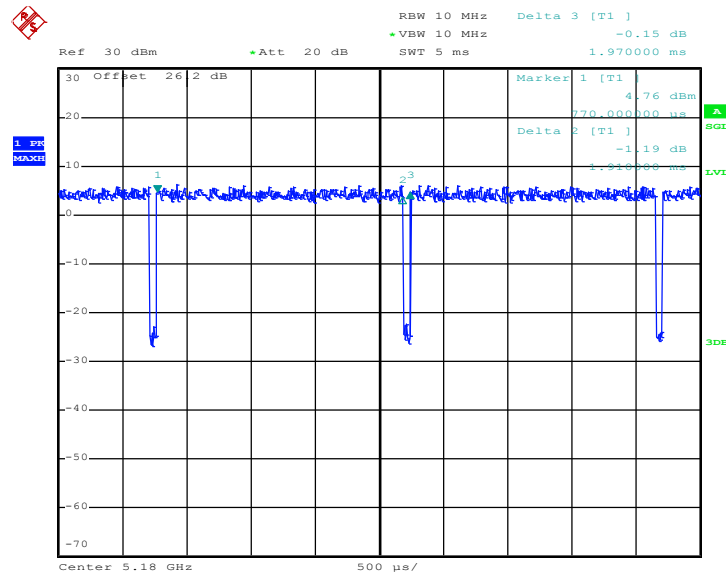


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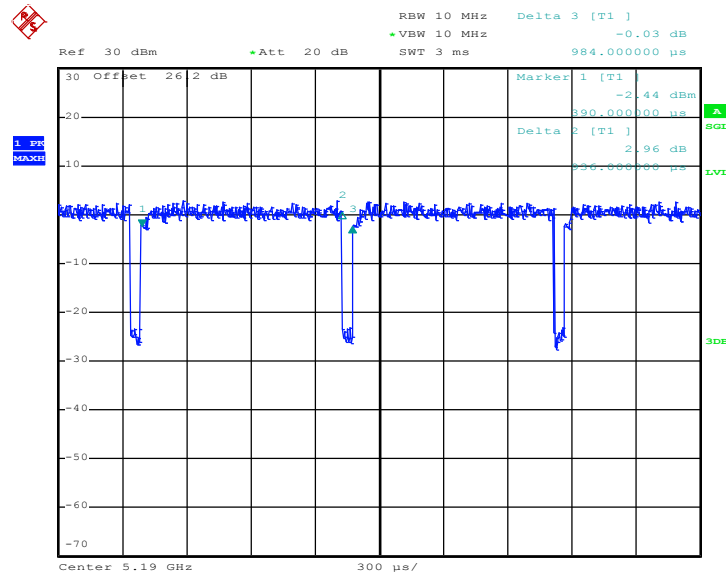
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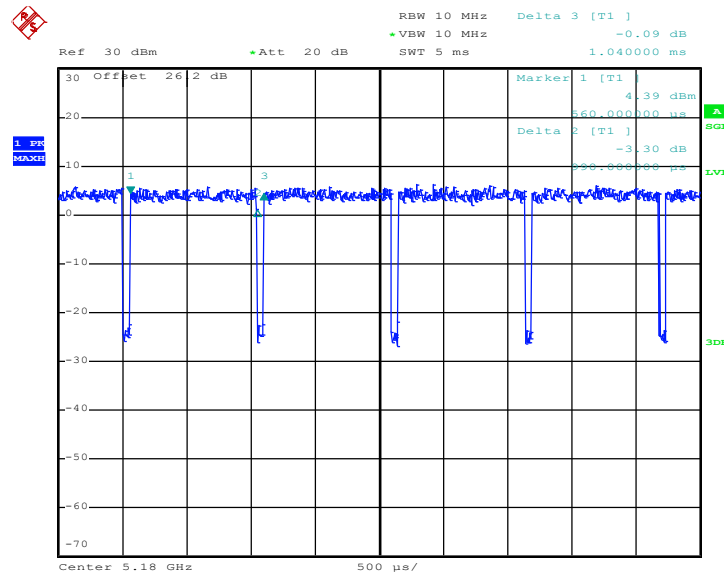
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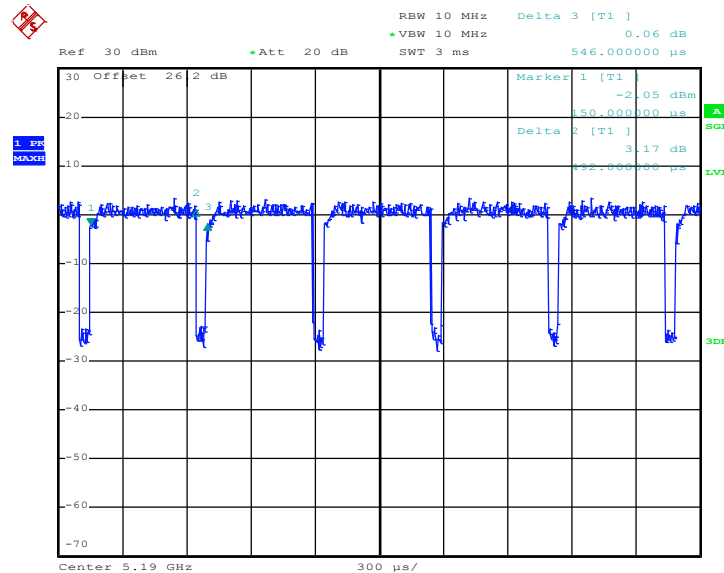
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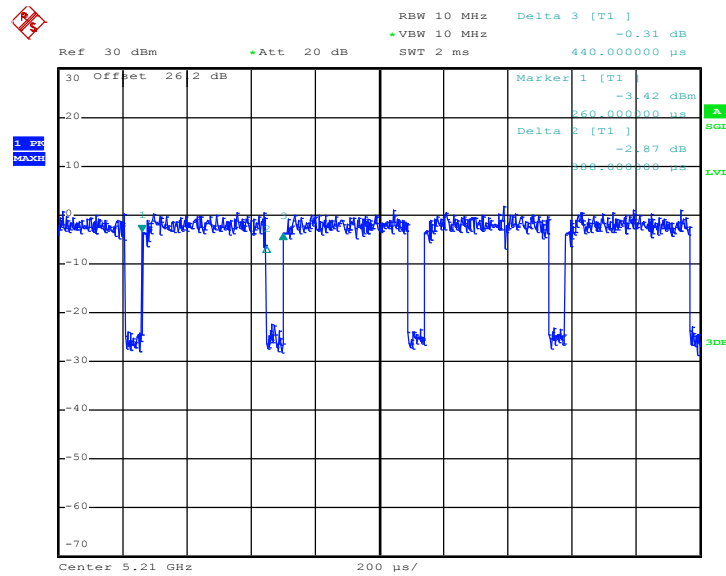
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