



FCC RADIO TEST REPORT

FCC ID : HLZA24001
Equipment : Tablet PC
Brand Name : acer
Model Name : A24001
Applicant : Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22181, Taiwan (R.O.C)
Manufacturer : Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22181, Taiwan (R.O.C)
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 28, 2023 and testing was performed from Jan. 11, 2024 to Feb. 23, 2024. We, Sporton International Inc. Wensan 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 test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example.....	10
3 Test Result	11
3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement	11
3.2 Maximum Conducted Output Power Measurement	12
3.3 Power Spectral Density Measurement	13
3.4 Unwanted Emissions Measurement.....	15
3.5 AC Conducted Emission Measurement.....	20
3.6 Antenna Requirements.....	22
4 List of Measuring Equipment.....	23
5 Measurement Uncertainty	24
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR3D2701E	01	Initial issue of report	Mar. 14, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	3.91 dB under the limit at 32.16 MHz
3.5	15.207	AC Conducted Emission	Pass	5.56 dB under the limit at 13.10 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho**Report Producer: Wilda Wei**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
Sample 1	With PCB 1, Camera 1, DDR 1	
Sample 2	With PCB 2, Camera 2, DDR 2	
Sample 3	With PCB 2, Camera 1, DDR 1	
General Specs	Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS.	
Antenna Type	WLAN: FPC Antenna Bluetooth: FPC Antenna GPS / Glonass / BDS: PIFA Antenna	
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	0.67

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH22-HY

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

FCC designation No.: TW3786



1.4 Applicable Standards

According to the specifications declared by 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.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported 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 with "*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80.

2.2 Test Mode

The power for 802.11ac mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

The final test modes include the worst data rates for each modulation shown in the table below.

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) for Sample 1
	Mode 2 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) for Sample 2
	Mode 3 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter) for Sample 3
	Remark: The worst case of Conducted Emission is mode 3; only the test data of it was reported.

<Sample 1>

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

<Sample 2>

Ch. #		Band IV : 5725-5850 MHz			
		802.11ac VHT80			
L	Low	-			
M	Middle	155			
H	High	-			

<Sample 3>

Ch. #		Band IV : 5725-5850 MHz			
		802.11ac VHT80			
L	Low	-			
M	Middle	155			
H	High	-			

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand 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-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
4.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded, 1.8m	N/A
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A



2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW utility “Acer_AV0U0_P11-11_0.004.03_PAPAP_GEN1” 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.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

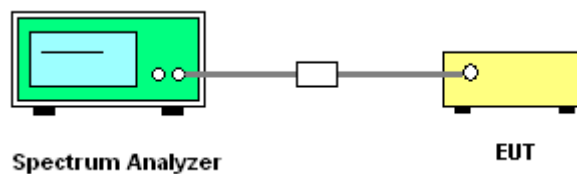
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

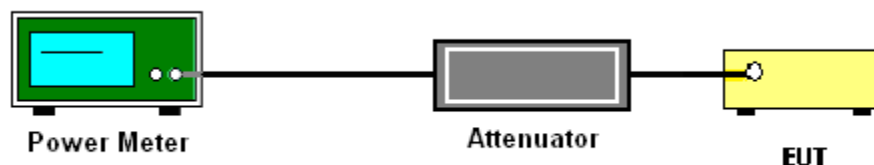
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

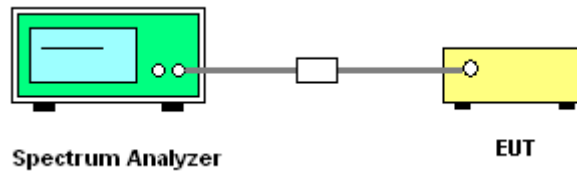
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW ≥ 1 MHz.
 - Add $10 \log(500 \text{ kHz/RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

- (2) Unwanted spurious emissions falls 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.

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

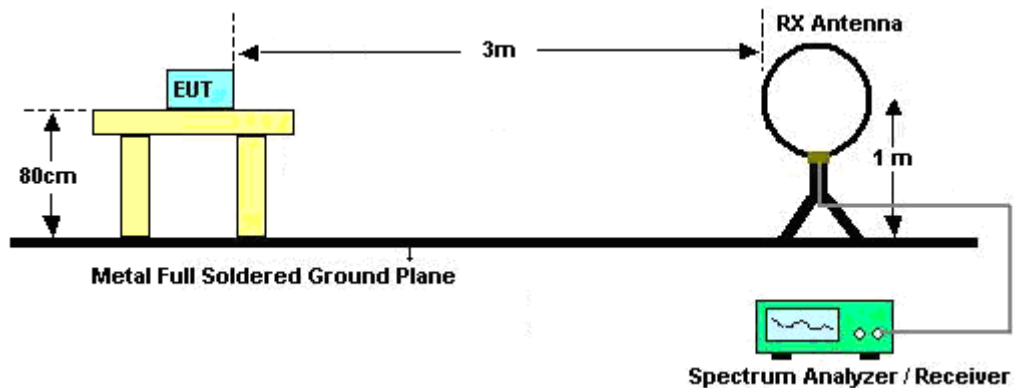
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - 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 1000 MHz
 - 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is 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.

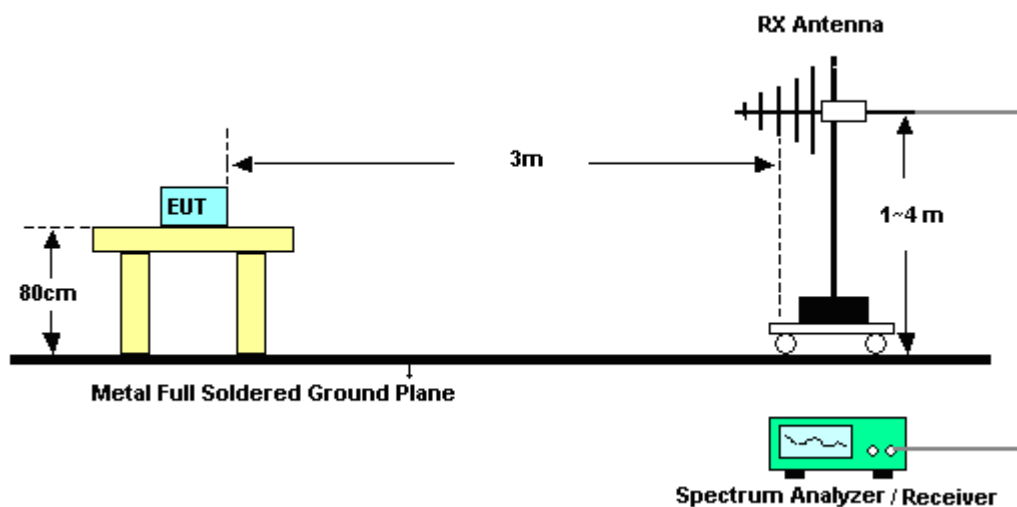
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.4.4 Test Setup

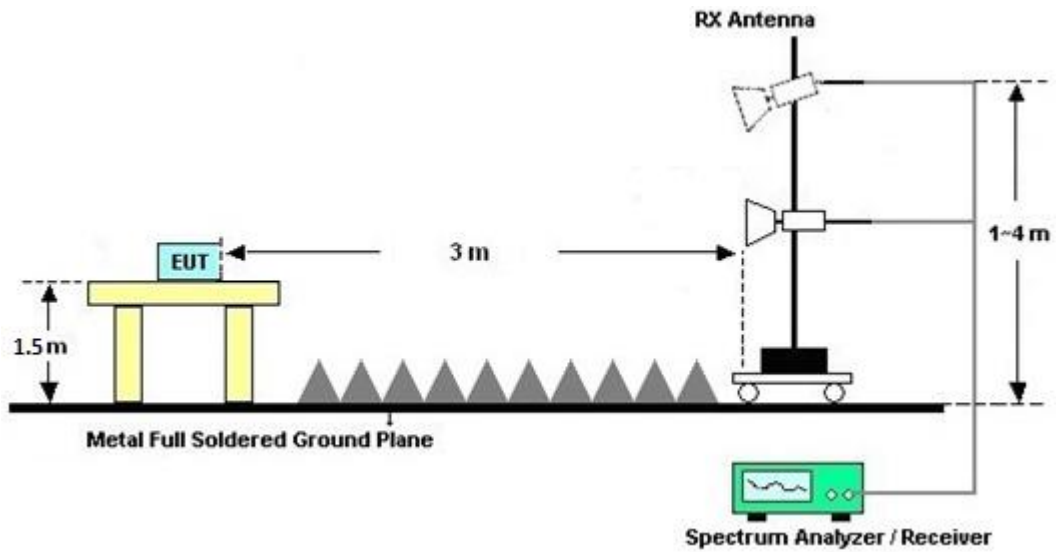
For radiated emissions below 30MHz



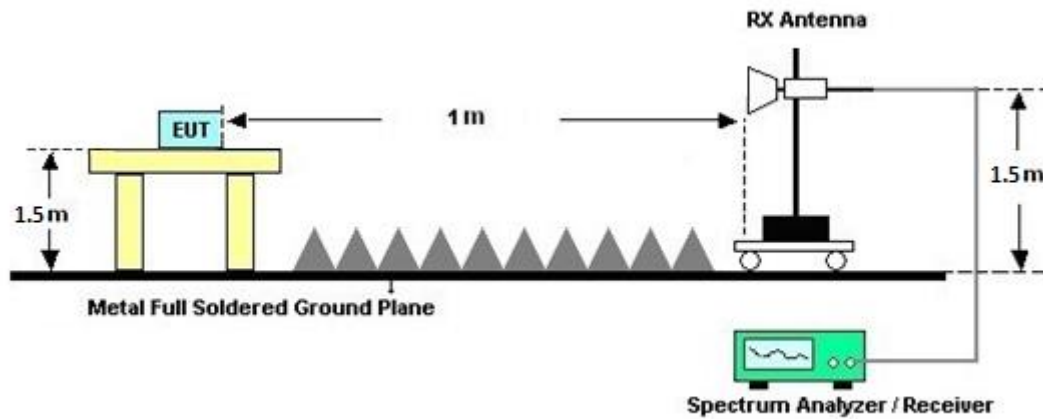
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

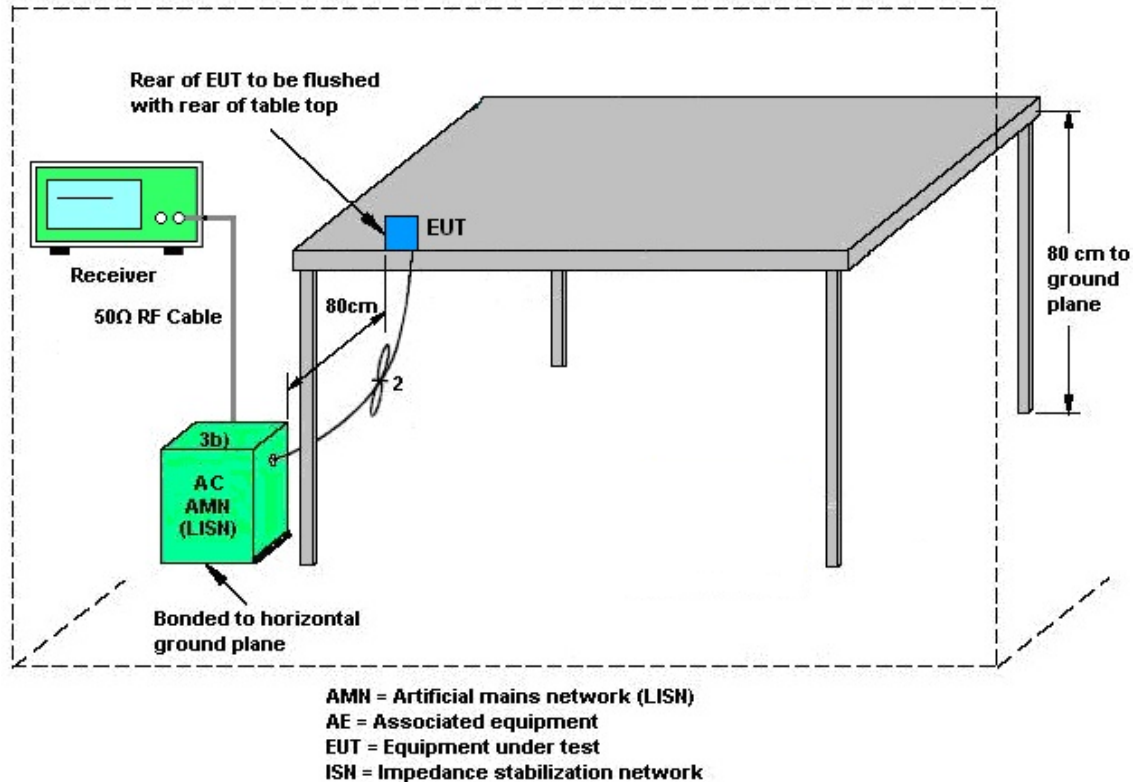
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Feb. 28, 2023	Feb. 04, 2024~ Feb. 23, 2024	Feb. 27, 2024	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Oct. 15, 2023	Feb. 04, 2024~ Feb. 23, 2024	Oct. 14, 2024	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 15, 2023	Feb. 04, 2024~ Feb. 23, 2024	Jul. 14, 2024	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	Jul. 12, 2023	Feb. 04, 2024~ Feb. 23, 2024	Jul. 11, 2024	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Feb. 04, 2024~ Feb. 23, 2024	Jul. 09, 2024	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 28, 2023	Feb. 04, 2024~ Feb. 23, 2024	Sep. 27, 2024	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 27, 2023	Feb. 04, 2024~ Feb. 23, 2024	Jun. 26, 2024	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY60241058	10Hz~44GHz	Jul. 06, 2023	Feb. 04, 2024~ Feb. 23, 2024	Jul. 05, 2024	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Jan. 03, 2024	Feb. 04, 2024~ Feb. 23, 2024	Jan. 02, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 04, 2024~ Feb. 23, 2024	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 04, 2024~ Feb. 23, 2024	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 04, 2024~ Feb. 23, 2024	N/A	Radiation (03CH22-HY)
Software	Audix	E3 6.09824_2019122	RK-002347	N/A	N/A	Feb. 04, 2024~ Feb. 23, 2024	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Feb. 04, 2024~ Feb. 23, 2024	Mar. 06, 2024	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,8046 11/2,804615/2	N/A	Oct. 24, 2023	Feb. 04, 2024~ Feb. 23, 2024	Oct. 23, 2024	Radiation (03CH22-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 02, 2024~ Feb. 07, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 02, 2024~ Feb. 07, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2023	Feb. 02, 2024~ Feb. 07, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Feb. 02, 2024~ Feb. 07, 2024	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Feb. 02, 2024~ Feb. 07, 2024	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Feb. 02, 2024~ Feb. 07, 2024	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Feb. 02, 2024~ Feb. 07, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jan. 11, 2024~ Feb. 22, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 36 (NO:35)	10MHz~6GHz	Aug. 23, 2023	Jan. 11, 2024~ Feb. 22, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jan. 11, 2024~ Feb. 22, 2024	Sep. 11, 2024	Conducted (TH05-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	21~25	°C
Test Date:	2024/01/11~2024/02/22	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.78	-	20.29	-	15.12	-	0.5	Pass
11a	6Mbps	1	157	5785	16.68	-	20.19	-	15.05	-	0.5	Pass
11a	6Mbps	1	165	5825	16.78	-	20.22	-	15.10	-	0.5	Pass
HT20	MCS0	1	149	5745	17.73	-	20.55	-	15.09	-	0.5	Pass
HT20	MCS0	1	157	5785	17.68	-	20.65	-	15.03	-	0.5	Pass
HT20	MCS0	1	165	5825	17.68	-	20.54	-	15.09	-	0.5	Pass
HT40	MCS0	1	151	5755	36.56	-	41.71	-	35.06	-	0.5	Pass
HT40	MCS0	1	159	5795	36.66	-	41.89	-	35.12	-	0.5	Pass
VHT80	MCS0	1	155	5775	75.16	-	81.47	-	75.09	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	11.50	-		30.00	-	0.67	-	Pass
11a	6Mbps	1	157	5785	11.80	-		30.00	-	0.67	-	Pass
11a	6Mbps	1	165	5825	11.90	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	149	5745	11.80	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	157	5785	11.70	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	165	5825	11.80	-		30.00	-	0.67	-	Pass
HT40	MCS0	1	151	5755	11.10	-		30.00	-	0.67	-	Pass
HT40	MCS0	1	159	5795	11.60	-		30.00	-	0.67	-	Pass
VHT20	MCS0	1	149	5745	11.70	-		30.00	-	0.67	-	Pass
VHT20	MCS0	1	157	5785	11.60	-		30.00	-	0.67	-	Pass
VHT20	MCS0	1	165	5825	11.70	-		30.00	-	0.67	-	Pass
VHT40	MCS0	1	151	5755	11.00	-		30.00	-	0.67	-	Pass
VHT40	MCS0	1	159	5795	11.50	-		30.00	-	0.67	-	Pass
VHT80	MCS0	1	155	5775	11.40	-		30.00	-	0.67	-	Pass

TEST RESULTS DATA
Power Spectral Density

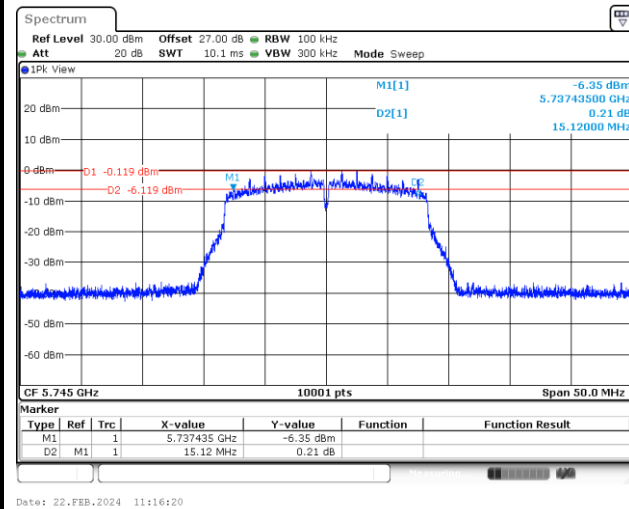
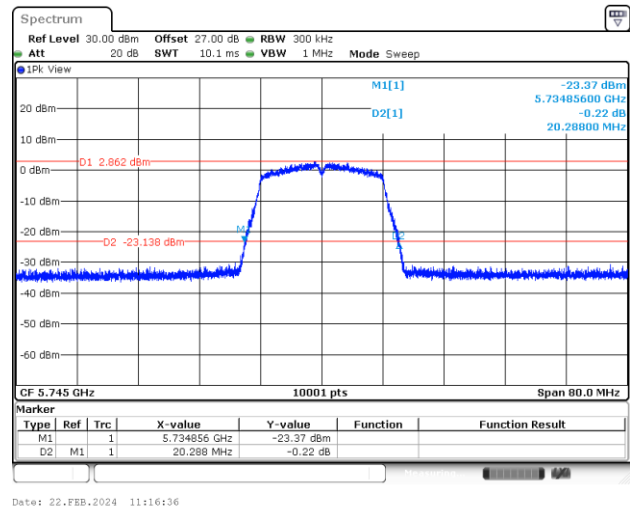
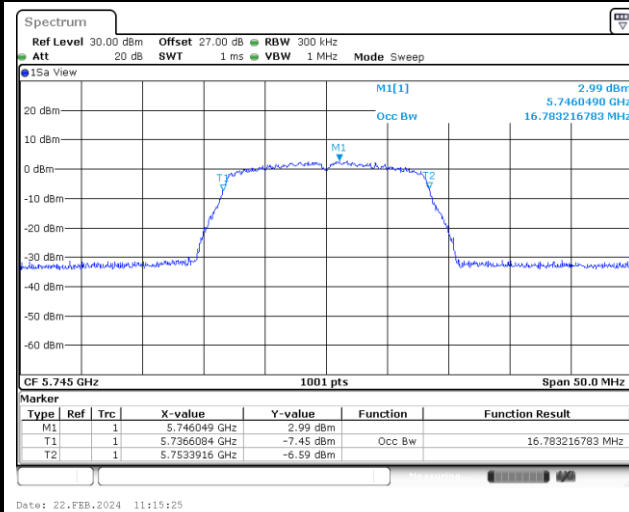
U-NII-3 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.10		2.22	-	-2.63	-		30.00	-	0.67	-	Pass
11a	6Mbps	1	157	5785	0.10		2.22	-	-2.07	-		30.00	-	0.67	-	Pass
11a	6Mbps	1	165	5825	0.10		2.22	-	-2.08	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	149	5745	0.12		2.22	-	-2.58	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	157	5785	0.12		2.22	-	-2.45	-		30.00	-	0.67	-	Pass
HT20	MCS0	1	165	5825	0.12		2.22	-	-2.34	-		30.00	-	0.67	-	Pass
HT40	MCS0	1	151	5755	0.23		2.22	-	-5.80	-		30.00	-	0.67	-	Pass
HT40	MCS0	1	159	5795	0.23		2.22	-	-5.47	-		30.00	-	0.67	-	Pass
VHT80	MCS0	1	155	5775	0.46		2.22	-	-8.50	-		30.00	-	0.67	-	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

**Test Result of 6dB and 26dB and 99% Occupied Bandwidth**

<Ant. 1>

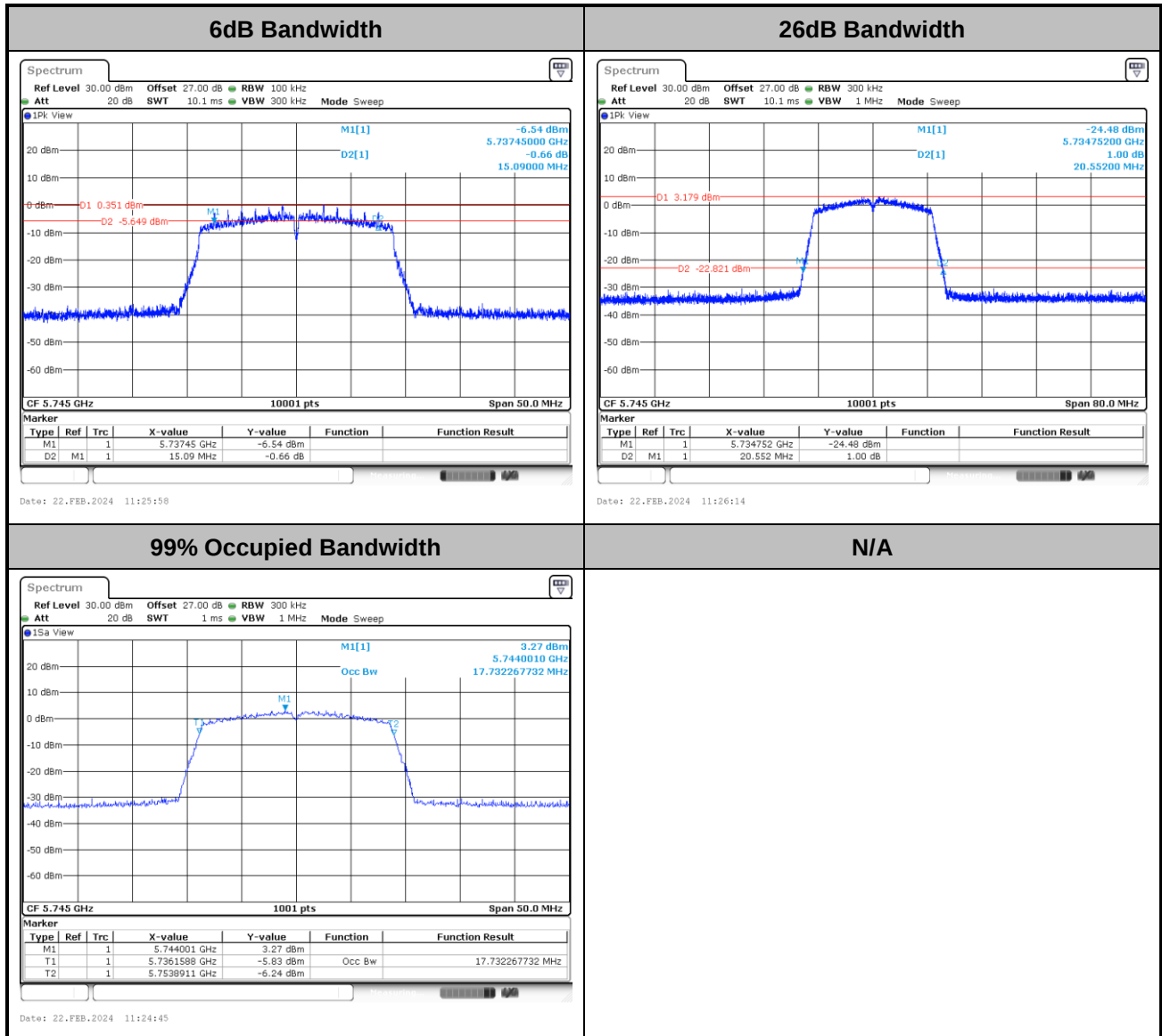
<802.11a>

6dB Bandwidth**26dB Bandwidth****99% Occupied Bandwidth**

N/A



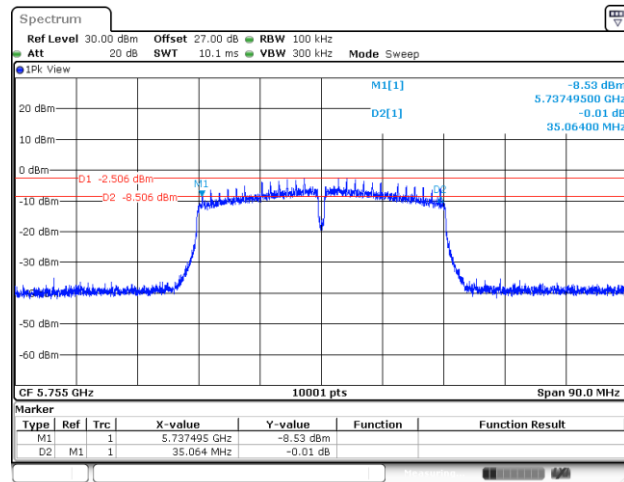
<802.11n HT20>



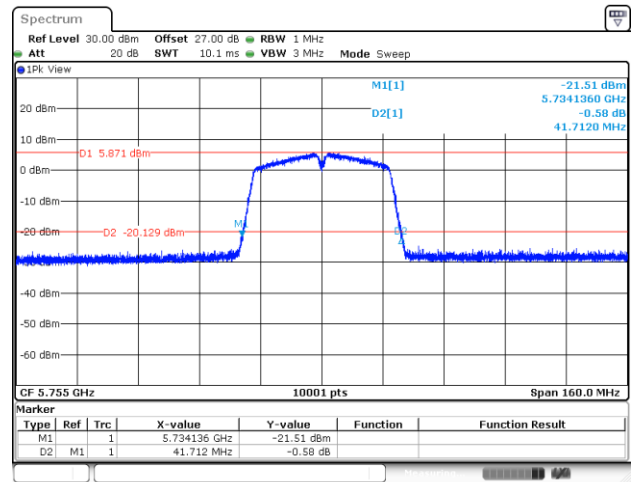


<802.11n HT40>

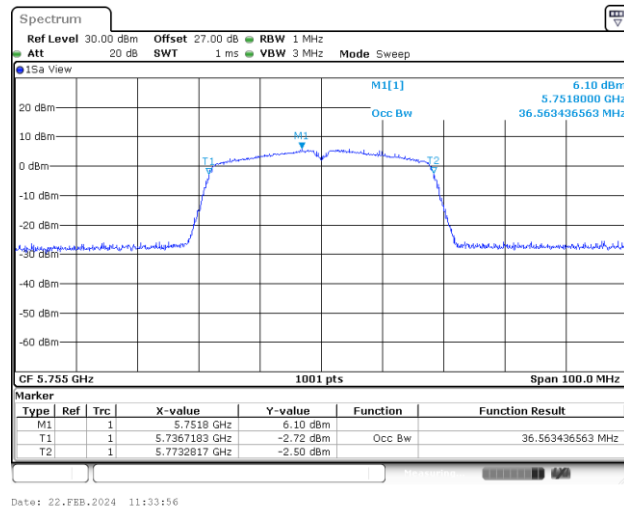
6dB Bandwidth



26dB Bandwidth



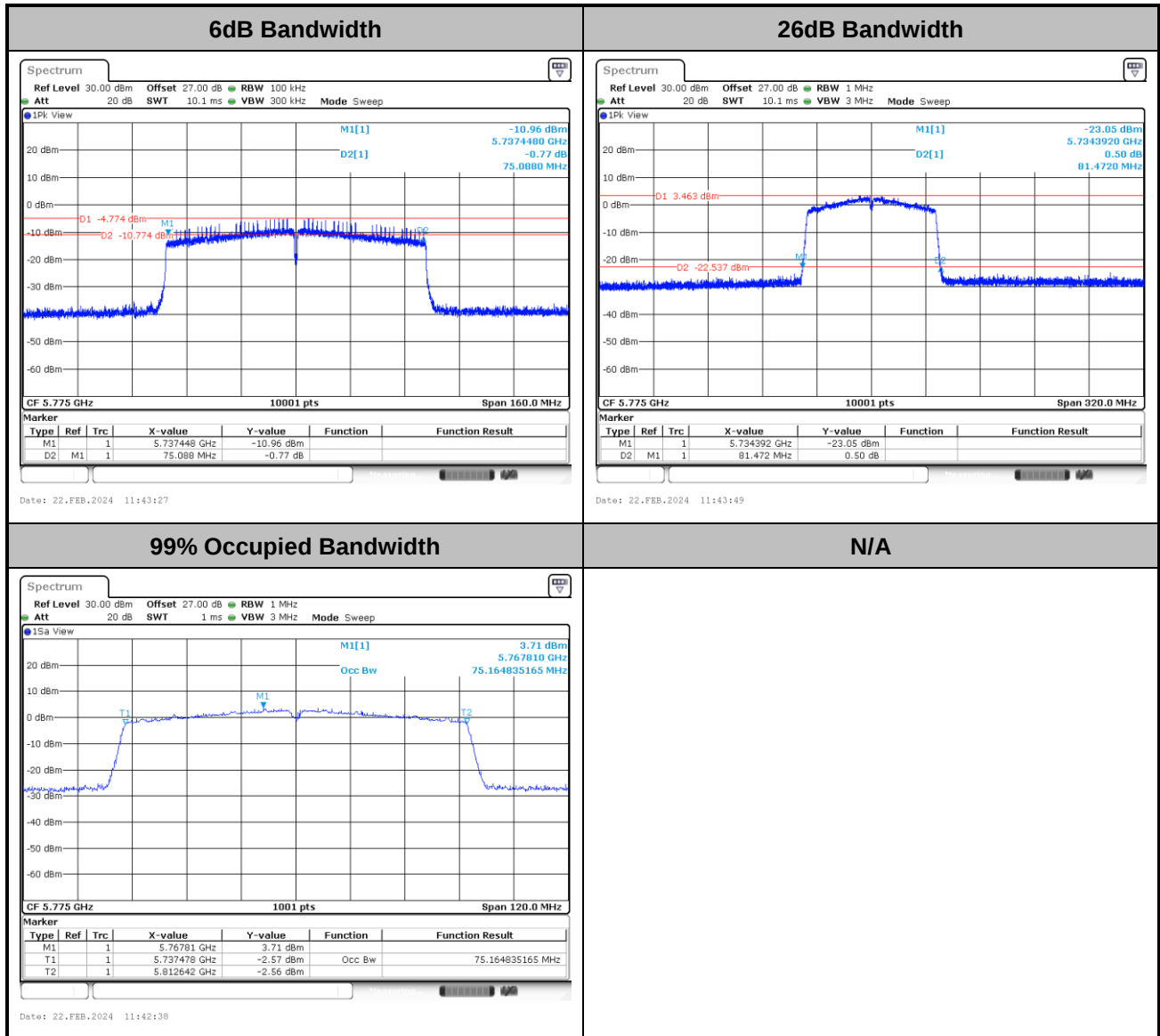
99% Occupied Bandwidth



N/A



<802.11ac VHT80>



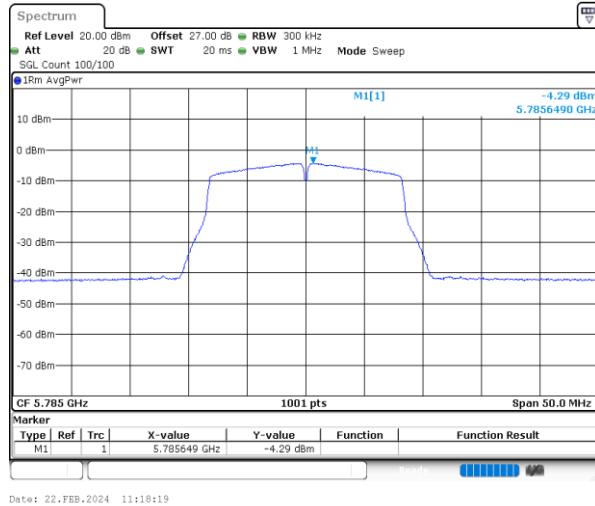


Test Result of Power Spectral Density

<Ant. 1>

<802.11a>

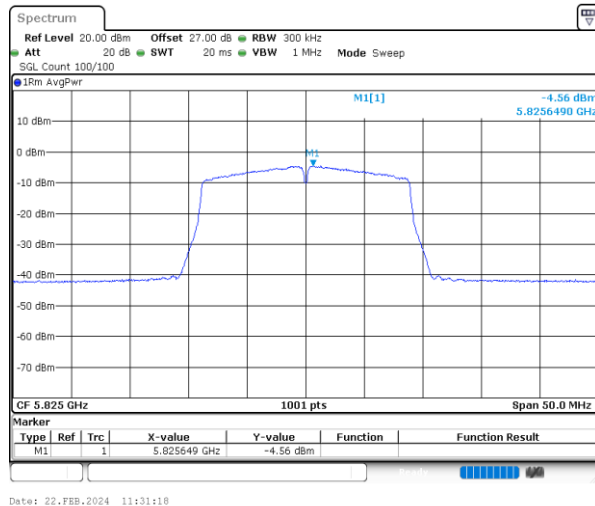
Maximum Power Density Plot (dBm/MHz)

**Note:**

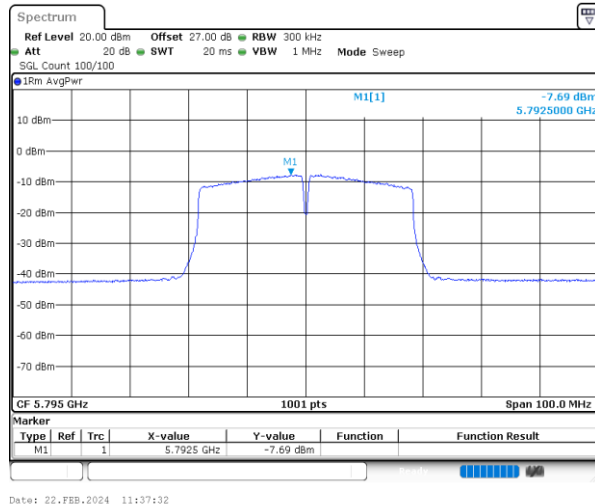
1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

<802.11n HT20>

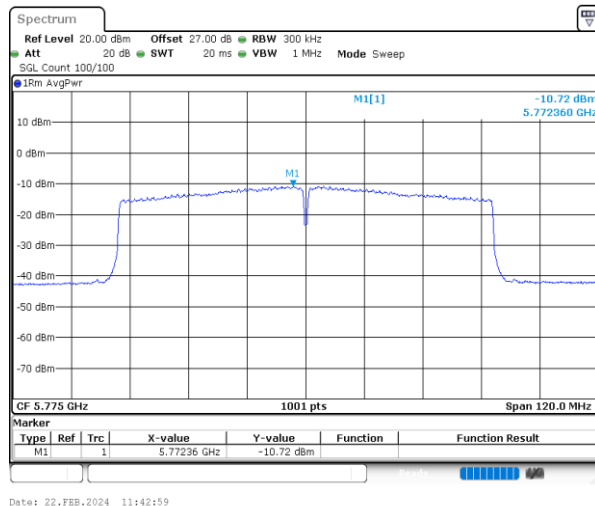
Maximum Power Density Plot (dBm/MHz)

**Note:**

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

**<802.11n HT40>****Maximum Power Density Plot (dBm/MHz)****Note:**

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

<802.11ac VHT80>**Maximum Power Density Plot (dBm/MHz)****Note:**

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



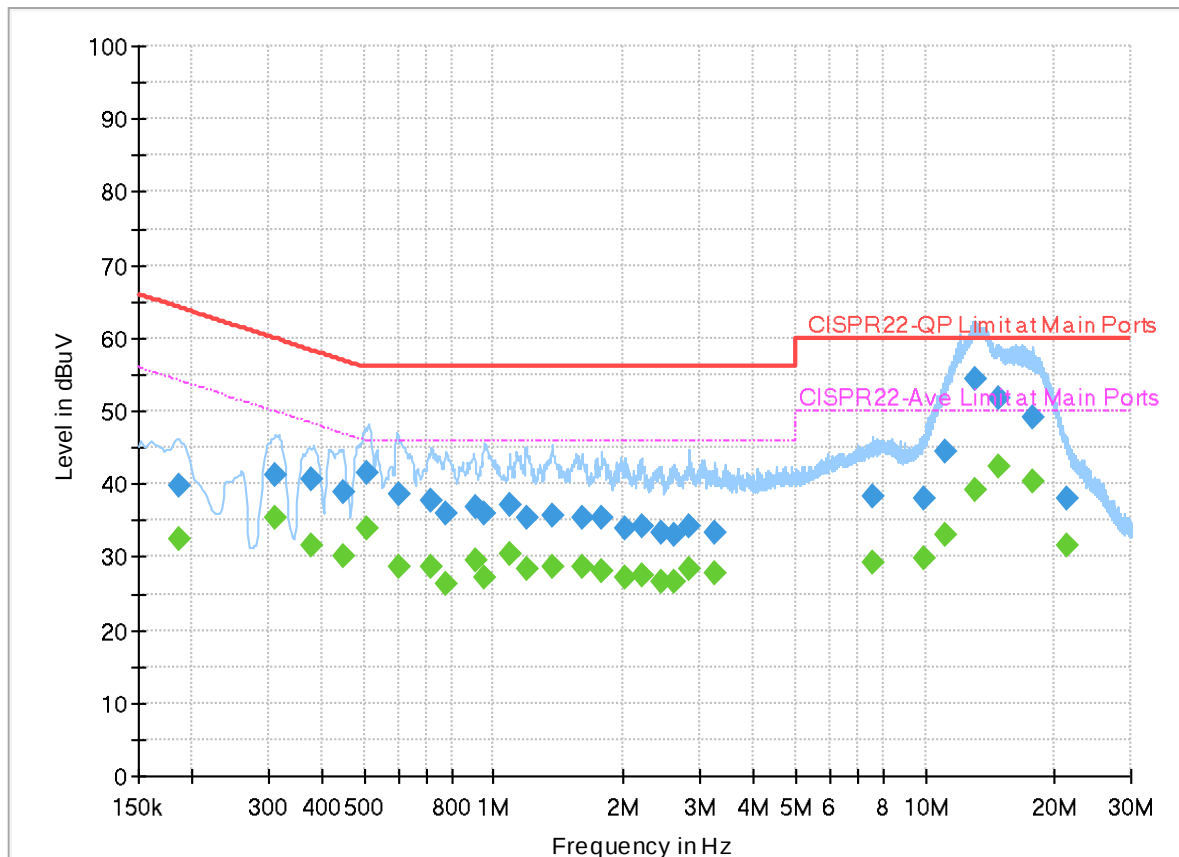
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	18.8~24.2°C
		Relative Humidity :	50.2~60.4%

EUT Information

Report NO : 3D2701
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

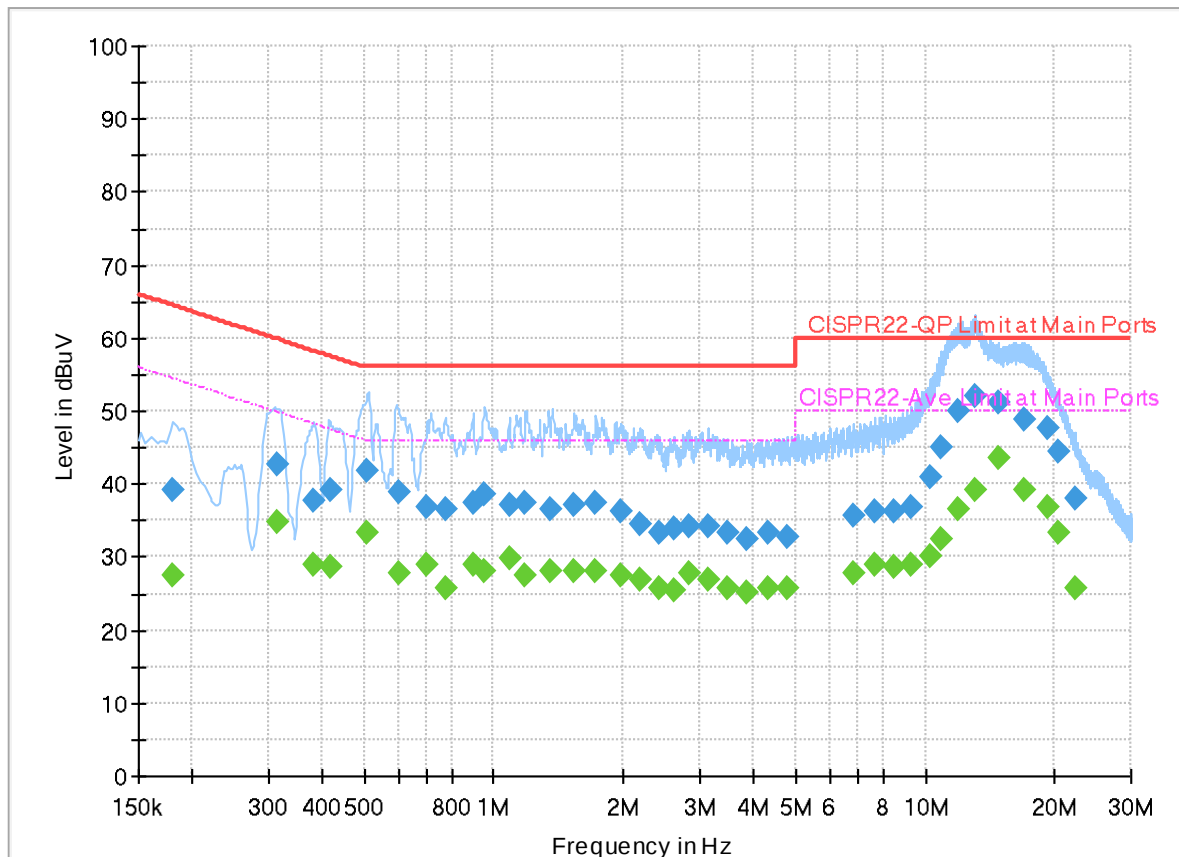
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.185820	---	32.31	54.22	21.91	L1	OFF	19.9
0.185820	39.72	---	64.22	24.50	L1	OFF	19.9
0.312000	---	35.35	49.92	14.57	L1	OFF	19.9
0.312000	41.31	---	59.92	18.61	L1	OFF	19.9
0.379500	---	31.46	48.29	16.83	L1	OFF	19.9
0.379500	40.61	---	58.29	17.68	L1	OFF	19.9
0.447720	---	30.00	46.92	16.92	L1	OFF	19.9
0.447720	38.88	---	56.92	18.04	L1	OFF	19.9
0.510000	---	34.03	46.00	11.97	L1	OFF	19.9
0.510000	41.46	---	56.00	14.54	L1	OFF	19.9
0.600720	---	28.68	46.00	17.32	L1	OFF	19.9
0.600720	38.58	---	56.00	17.42	L1	OFF	19.9
0.716010	---	28.53	46.00	17.47	L1	OFF	19.9
0.716010	37.59	---	56.00	18.41	L1	OFF	19.9
0.776940	---	26.46	46.00	19.54	L1	OFF	19.9
0.776940	35.97	---	56.00	20.03	L1	OFF	19.9
0.903750	---	29.67	46.00	16.33	L1	OFF	19.9
0.903750	36.74	---	56.00	19.26	L1	OFF	19.9
0.949110	---	27.30	46.00	18.70	L1	OFF	19.9

0.949110	36.00	---	56.00	20.00	L1	OFF	19.9
1.092840	---	30.48	46.00	15.52	L1	OFF	20.0
1.092840	37.00	---	56.00	19.00	L1	OFF	20.0
1.187790	---	28.43	46.00	17.57	L1	OFF	20.0
1.187790	35.48	---	56.00	20.52	L1	OFF	20.0
1.367250	---	28.56	46.00	17.44	L1	OFF	20.0
1.367250	35.69	---	56.00	20.31	L1	OFF	20.0
1.597290	---	28.60	46.00	17.40	L1	OFF	20.0
1.597290	35.35	---	56.00	20.65	L1	OFF	20.0
1.779000	---	28.11	46.00	17.89	L1	OFF	20.0
1.779000	35.51	---	56.00	20.49	L1	OFF	20.0
2.017500	---	27.15	46.00	18.85	L1	OFF	20.0
2.017500	33.82	---	56.00	22.18	L1	OFF	20.0
2.196600	---	27.38	46.00	18.62	L1	OFF	20.0
2.196600	34.28	---	56.00	21.72	L1	OFF	20.0
2.436000	---	26.70	46.00	19.30	L1	OFF	20.0
2.436000	33.35	---	56.00	22.65	L1	OFF	20.0
2.619420	---	26.59	46.00	19.41	L1	OFF	20.0
2.619420	33.16	---	56.00	22.84	L1	OFF	20.0
2.845500	---	28.45	46.00	17.55	L1	OFF	20.0
2.845500	34.18	---	56.00	21.82	L1	OFF	20.0
3.259770	---	27.64	46.00	18.36	L1	OFF	20.0
3.259770	33.45	---	56.00	22.55	L1	OFF	20.0
7.533420	---	29.27	50.00	20.73	L1	OFF	20.0
7.533420	38.31	---	60.00	21.69	L1	OFF	20.0
9.921750	---	29.80	50.00	20.20	L1	OFF	20.0
9.921750	38.06	---	60.00	21.94	L1	OFF	20.0
11.087070	---	32.92	50.00	17.08	L1	OFF	20.1
11.087070	44.52	---	60.00	15.48	L1	OFF	20.1
13.100910	---	39.08	50.00	10.92	L1	OFF	20.1
13.100910	54.44	---	60.00	5.56	L1	OFF	20.1
14.853750	---	42.34	50.00	7.66	L1	OFF	20.1
14.853750	51.79	---	60.00	8.21	L1	OFF	20.1
17.855250	---	40.29	50.00	9.71	L1	OFF	20.1
17.855250	49.10	---	60.00	10.90	L1	OFF	20.1
21.369300	---	31.72	50.00	18.28	L1	OFF	20.1
21.369300	38.10	---	60.00	21.90	L1	OFF	20.1

EUT Information

Report NO : 3D2701
Test Mode : Mode 3
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179880	---	27.43	54.49	27.06	N	OFF	19.9
0.179880	39.12	---	64.49	25.37	N	OFF	19.9
0.314250	---	34.81	49.86	15.05	N	OFF	19.9
0.314250	42.80	---	59.86	17.06	N	OFF	19.9
0.381750	---	28.83	48.24	19.41	N	OFF	19.9
0.381750	37.80	---	58.24	20.44	N	OFF	19.9
0.418740	---	28.56	47.47	18.91	N	OFF	19.9
0.418740	39.30	---	57.47	18.17	N	OFF	19.9
0.507570	---	33.40	46.00	12.60	N	OFF	19.9
0.507570	41.69	---	56.00	14.31	N	OFF	19.9
0.600000	---	27.86	46.00	18.14	N	OFF	19.9
0.600000	39.02	---	56.00	16.98	N	OFF	19.9
0.699000	---	28.94	46.00	17.06	N	OFF	19.9
0.699000	36.90	---	56.00	19.10	N	OFF	19.9
0.771000	---	25.69	46.00	20.31	N	OFF	19.9
0.771000	36.52	---	56.00	19.48	N	OFF	19.9
0.897000	---	29.01	46.00	16.99	N	OFF	19.9
0.897000	37.37	---	56.00	18.63	N	OFF	19.9
0.953250	---	27.93	46.00	18.07	N	OFF	19.9

0.953250	38.72	---	56.00	17.28	N	OFF	19.9
1.084200	---	29.89	46.00	16.11	N	OFF	20.0
1.084200	37.23	---	56.00	18.77	N	OFF	20.0
1.185540	---	27.58	46.00	18.42	N	OFF	20.0
1.185540	37.29	---	56.00	18.71	N	OFF	20.0
1.358610	---	28.18	46.00	17.82	N	OFF	20.0
1.358610	36.51	---	56.00	19.49	N	OFF	20.0
1.538250	---	27.94	46.00	18.06	N	OFF	20.0
1.538250	37.08	---	56.00	18.92	N	OFF	20.0
1.725720	---	28.06	46.00	17.94	N	OFF	20.0
1.725720	37.43	---	56.00	18.57	N	OFF	20.0
1.959540	---	27.57	46.00	18.43	N	OFF	20.0
1.959540	36.39	---	56.00	19.61	N	OFF	20.0
2.186070	---	26.82	46.00	19.18	N	OFF	20.0
2.186070	34.64	---	56.00	21.36	N	OFF	20.0
2.422500	---	25.81	46.00	20.19	N	OFF	20.0
2.422500	33.41	---	56.00	22.59	N	OFF	20.0
2.616000	---	25.54	46.00	20.46	N	OFF	20.0
2.616000	33.79	---	56.00	22.21	N	OFF	20.0
2.845140	---	27.73	46.00	18.27	N	OFF	20.0
2.845140	34.31	---	56.00	21.69	N	OFF	20.0
3.135570	---	26.99	46.00	19.01	N	OFF	20.0
3.135570	34.13	---	56.00	21.87	N	OFF	20.0
3.466680	---	25.69	46.00	20.31	N	OFF	20.0
3.466680	33.29	---	56.00	22.71	N	OFF	20.0
3.864660	---	25.16	46.00	20.84	N	OFF	20.0
3.864660	32.37	---	56.00	23.63	N	OFF	20.0
4.321500	---	25.68	46.00	20.32	N	OFF	20.0
4.321500	33.22	---	56.00	22.78	N	OFF	20.0
4.800750	---	25.73	46.00	20.27	N	OFF	20.0
4.800750	32.61	---	56.00	23.39	N	OFF	20.0
6.836550	---	27.75	50.00	22.25	N	OFF	20.0
6.836550	35.79	---	60.00	24.21	N	OFF	20.0
7.662750	---	28.81	50.00	21.19	N	OFF	20.0
7.662750	36.21	---	60.00	23.79	N	OFF	20.0
8.502900	---	28.67	50.00	21.33	N	OFF	20.0
8.502900	36.20	---	60.00	23.80	N	OFF	20.0
9.271500	---	28.98	50.00	21.02	N	OFF	20.0
9.271500	36.82	---	60.00	23.18	N	OFF	20.0
10.295250	---	30.16	50.00	19.84	N	OFF	20.1
10.295250	40.84	---	60.00	19.16	N	OFF	20.1
10.935600	---	32.51	50.00	17.49	N	OFF	20.1
10.935600	45.09	---	60.00	14.91	N	OFF	20.1
11.929650	---	36.42	50.00	13.58	N	OFF	20.1
11.929650	50.12	---	60.00	9.88	N	OFF	20.1
13.101000	---	39.12	50.00	10.88	N	OFF	20.1
13.101000	52.04	---	60.00	7.96	N	OFF	20.1
14.800920	---	43.51	50.00	6.49	N	OFF	20.1
14.800920	51.13	---	60.00	8.87	N	OFF	20.1
16.882980	---	39.17	50.00	10.83	N	OFF	20.2
16.882980	48.73	---	60.00	11.27	N	OFF	20.2
19.162500	---	36.73	50.00	13.27	N	OFF	20.2
19.162500	47.72	---	60.00	12.28	N	OFF	20.2
20.438250	---	33.46	50.00	16.54	N	OFF	20.2
20.438250	44.34	---	60.00	15.66	N	OFF	20.2
22.256430	---	25.74	50.00	24.26	N	OFF	20.2
22.256430	38.12	---	60.00	21.88	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Bank Lin, Ken Kuo and Lucifer Jiang	Temperature :	20~23°C
		Relative Humidity :	42~55%

<Sample 1>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5641.625	51.57	-16.63	68.2	39.04	33.45	13.43	34.35	123	166	P	H
		5660.525	52.96	-23.06	76.02	40.32	33.54	13.46	34.36	123	166	P	H
		5718.35	53.03	-57.31	110.34	40.08	33.81	13.55	34.41	123	166	P	H
		5723.525	53.34	-65.5	118.84	40.35	33.84	13.56	34.41	123	166	P	H
	*	5745	103.51	-	-	90.38	33.97	13.59	34.43	123	166	P	H
	*	5745	96.38	-	-	83.25	33.97	13.59	34.43	123	166	A	H
													H
													H
		5613.725	51.3	-16.9	68.2	38.96	33.28	13.39	34.33	102	335	P	V
		5669.75	51.64	-31.21	82.85	38.96	33.58	13.47	34.37	102	335	P	V
		5716.325	52.9	-56.87	109.77	39.96	33.8	13.54	34.4	102	335	P	V
		5724.425	54.2	-66.69	120.89	41.2	33.85	13.56	34.41	102	335	P	V
	*	5745	102.19	-	-	89.06	33.97	13.59	34.43	102	335	P	V
	*	5745	95.59	-	-	82.46	33.97	13.59	34.43	102	335	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5625.25	51.98	-16.22	68.2	39.56	33.35	13.41	34.34	102	171	P	H
		5687.5	51.48	-44.5	95.98	38.71	33.65	13.5	34.38	102	171	P	H
		5700	51.28	-53.92	105.2	38.45	33.7	13.52	34.39	102	171	P	H
		5724.75	50.87	-70.76	121.63	37.87	33.85	13.56	34.41	102	171	P	H
	*	5785	103.26	-	-	90.07	34	13.65	34.46	102	171	P	H
	*	5785	96.39	-	-	83.2	34	13.65	34.46	102	171	A	H
		5851.5	50.93	-67.85	118.78	37.83	33.9	13.71	34.51	102	171	P	H
		5871.75	51.13	-54.98	106.11	37.99	33.94	13.72	34.52	102	171	P	H
		5911.25	51.62	-26.72	78.34	38.42	34	13.75	34.55	102	171	P	H
		5936	51.54	-16.66	68.2	38.34	34	13.77	34.57	102	171	P	H
													H
													H
		5618.25	52.16	-16.04	68.2	39.78	33.31	13.4	34.33	102	336	P	V
		5698	52.45	-51.28	103.73	39.63	33.69	13.52	34.39	102	336	P	V
		5711.75	51.05	-57.44	108.49	38.14	33.77	13.54	34.4	102	336	P	V
		5723	50.68	-66.96	117.64	37.7	33.84	13.55	34.41	102	336	P	V
	*	5785	102.28	-	-	89.09	34	13.65	34.46	102	336	P	V
	*	5785	95.58	-	-	82.39	34	13.65	34.46	102	336	A	V
		5851	50.87	-69.05	119.92	37.77	33.9	13.71	34.51	102	336	P	V
		5872.75	51.93	-53.9	105.83	38.78	33.95	13.72	34.52	102	336	P	V
		5910	51.93	-27.34	79.27	38.73	34	13.75	34.55	102	336	P	V
		5947.75	51.06	-17.14	68.2	37.87	34	13.77	34.58	102	336	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	103.2	-	-	90.05	33.95	13.69	34.49	113	180	P	H
	*	5825	96.07	-	-	82.92	33.95	13.69	34.49	113	180	A	H
		5851.2	53.13	-66.33	119.46	40.03	33.9	13.71	34.51	113	180	P	H
		5867.8	52.03	-55.18	107.21	38.89	33.94	13.72	34.52	113	180	P	H
		5887.8	51.35	-44.35	95.7	38.17	33.98	13.73	34.53	113	180	P	H
		5942.6	51.4	-16.8	68.2	38.21	34	13.77	34.58	113	180	P	H
													H
													H
	*	5825	101.81	-	-	88.66	33.95	13.69	34.49	100	336	P	V
	*	5825	94.99	-	-	81.84	33.95	13.69	34.49	100	336	A	V
		5850	51.94	-70.26	122.2	38.85	33.9	13.7	34.51	100	336	P	V
		5857.6	52.29	-57.78	110.07	39.17	33.92	13.71	34.51	100	336	P	V
		5899	52.54	-34.86	87.4	39.34	34	13.74	34.54	100	336	P	V
		5941.8	51.27	-16.93	68.2	38.08	34	13.77	34.58	100	336	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	50.7	-23.3	74	31.57	38.98	20.12	39.97	-	-	P	H
		11490	41.99	-12.01	54	22.86	38.98	20.12	39.97	-	-	A	H
		17235	53.86	-14.34	68.2	34.84	40.57	24.72	46.27	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	50.98	-23.02	74	31.85	38.98	20.12	39.97	-	-	P	V
		11490	41.92	-12.08	54	22.79	38.98	20.12	39.97	-	-	A	V
		17235	53.33	-14.87	68.2	34.31	40.57	24.72	46.27	-	-	P	V
													V
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													V
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													V
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WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	51.25	-22.75	74	32.05	39.06	20.19	40.05	-	-	P	H
		11570	42.3	-11.7	54	23.1	39.06	20.19	40.05	-	-	A	H
		17355	53.8	-14.4	68.2	34.88	40.5	24.82	46.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	51.23	-22.77	74	32.03	39.06	20.19	40.05	-	-	P	V
		11570	42.35	-11.65	54	23.15	39.06	20.19	40.05	-	-	A	V
		17355	52.94	-15.26	68.2	34.02	40.5	24.82	46.4	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		11650	51.23	-22.77	74	32.1	39	20.27	40.14	-	-	P	H
		11650	42.04	-11.96	54	22.91	39	20.27	40.14	-	-	A	H
		17475	53.1	-15.1	68.2	34.11	40.6	24.91	46.52	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11650	51.86	-22.14	74	32.73	39	20.27	40.14	-	-	P	V
		11650	41.91	-12.09	54	22.78	39	20.27	40.14	-	-	A	V
		17475	52.98	-15.22	68.2	33.99	40.6	24.91	46.52	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5636.675	51.68	-16.52	68.2	39.17	33.42	13.43	34.34	105	172	P	H
		5684.375	52.06	-41.61	93.67	39.3	33.64	13.5	34.38	105	172	P	H
		5716.775	54.32	-55.58	109.9	41.37	33.8	13.55	34.4	105	172	P	H
		5722.625	54.25	-62.54	116.79	41.27	33.84	13.55	34.41	105	172	P	H
	*	5745	103.37	-	-	90.24	33.97	13.59	34.43	105	172	P	H
	*	5745	96.77	-	-	83.64	33.97	13.59	34.43	105	172	A	H
													H
													H
		5620.025	51.4	-16.8	68.2	39.01	33.32	13.4	34.33	100	335	P	V
		5683.475	51.57	-41.44	93.01	38.82	33.63	13.5	34.38	100	335	P	V
		5718.575	52.73	-57.67	110.4	39.78	33.81	13.55	34.41	100	335	P	V
		5725.1	54.05	-80.15	134.2	41.05	33.85	13.56	34.41	100	335	P	V
	*	5745	102.63	-	-	89.5	33.97	13.59	34.43	100	335	P	V
	*	5745	95.65	-	-	82.52	33.97	13.59	34.43	100	335	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5618	51.97	-16.23	68.2	39.59	33.31	13.4	34.33	103	175	P	H
		5680.5	51.65	-39.16	90.81	38.92	33.62	13.49	34.38	103	175	P	H
		5708.75	51.37	-56.28	107.65	38.49	33.75	13.53	34.4	103	175	P	H
		5721.25	52.12	-61.53	113.65	39.15	33.83	13.55	34.41	103	175	P	H
	*	5785	103.04	-	-	89.85	34	13.65	34.46	103	175	P	H
	*	5785	96.19	-	-	83	34	13.65	34.46	103	175	A	H
		5854.75	50.71	-60.66	111.37	37.6	33.91	13.71	34.51	103	175	P	H
		5856.75	51.74	-58.57	110.31	38.63	33.91	13.71	34.51	103	175	P	H
		5918.75	51.63	-21.18	72.81	38.44	34	13.75	34.56	103	175	P	H
		5926.5	51.15	-17.05	68.2	37.95	34	13.76	34.56	103	175	P	H
													H
													H
		5626.5	51.11	-17.09	68.2	38.68	33.36	13.41	34.34	101	336	P	V
		5679	52.72	-36.98	89.7	39.99	33.62	13.49	34.38	101	336	P	V
		5703	51.39	-54.65	106.04	38.54	33.72	13.52	34.39	101	336	P	V
		5724	50.46	-69.46	119.92	37.47	33.84	13.56	34.41	101	336	P	V
	*	5785	101.75	-	-	88.56	34	13.65	34.46	101	336	P	V
	*	5785	95.18	-	-	81.99	34	13.65	34.46	101	336	A	V
		5854	50.85	-62.23	113.08	37.74	33.91	13.71	34.51	101	336	P	V
		5866	53.55	-54.17	107.72	40.42	33.93	13.72	34.52	101	336	P	V
		5898.75	51.31	-36.28	87.59	38.11	34	13.74	34.54	101	336	P	V
		5930.75	51.39	-16.81	68.2	38.2	34	13.76	34.57	101	336	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	102.85	-	-	89.7	33.95	13.69	34.49	100	176	P	H
	*	5825	95.72	-	-	82.57	33.95	13.69	34.49	100	176	A	H
		5850.2	54.41	-67.33	121.74	41.31	33.9	13.71	34.51	100	176	P	H
		5857	51.48	-58.76	110.24	38.37	33.91	13.71	34.51	100	176	P	H
		5888.4	52.04	-43.21	95.25	38.87	33.98	13.73	34.54	100	176	P	H
		5946.2	51.67	-16.53	68.2	38.48	34	13.77	34.58	100	176	P	H
													H
													H
	*	5825	101.72	-	-	88.57	33.95	13.69	34.49	100	337	P	V
	*	5825	94.57	-	-	81.42	33.95	13.69	34.49	100	337	A	V
		5851.6	53.81	-64.74	118.55	40.71	33.9	13.71	34.51	100	337	P	V
		5857.6	52.83	-57.24	110.07	39.71	33.92	13.71	34.51	100	337	P	V
		5907.6	52.58	-28.46	81.04	39.38	34	13.75	34.55	100	337	P	V
		5933.4	52.49	-15.71	68.2	39.3	34	13.76	34.57	100	337	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	51.23	-22.77	74	32.1	38.98	20.12	39.97	-	-	P	H
		11490	41.94	-12.06	54	22.81	38.98	20.12	39.97	-	-	A	H
		17235	54.18	-14.02	68.2	35.16	40.57	24.72	46.27	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	50.87	-23.13	74	31.74	38.98	20.12	39.97	-	-	P	V
		11490	42.07	-11.93	54	22.94	38.98	20.12	39.97	-	-	A	V
		17235	53.46	-14.74	68.2	34.44	40.57	24.72	46.27	-	-	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	51.95	-22.05	74	32.75	39.06	20.19	40.05	-	-	P	H
		11570	42.33	-11.67	54	23.13	39.06	20.19	40.05	-	-	A	H
		17355	53.28	-14.92	68.2	34.36	40.5	24.82	46.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	50.7	-23.3	74	31.5	39.06	20.19	40.05	-	-	P	V
		11570	42.36	-11.64	54	23.16	39.06	20.19	40.05	-	-	A	V
		17355	53.34	-14.86	68.2	34.42	40.5	24.82	46.4	-	-	P	V
													V
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													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5638	51.08	-17.12	68.2	38.56	33.43	13.43	34.34	100	176	P	H
		5699	53.58	-50.88	104.46	40.75	33.7	13.52	34.39	100	176	P	H
		5719.25	55.19	-55.4	110.59	42.23	33.82	13.55	34.41	100	176	P	H
		5724.25	56.29	-64.2	120.49	43.29	33.85	13.56	34.41	100	176	P	H
	*	5755	100.23	-	-	87.06	34	13.6	34.43	100	176	P	H
	*	5755	93.44	-	-	80.27	34	13.6	34.43	100	176	A	H
		5855	50.13	-60.67	110.8	37.02	33.91	13.71	34.51	100	176	P	H
		5859	51.98	-57.7	109.68	38.86	33.92	13.71	34.51	100	176	P	H
		5919	51.55	-21.07	72.62	38.36	34	13.75	34.56	100	176	P	H
		5945.25	50.96	-17.24	68.2	37.77	34	13.77	34.58	100	176	P	H
													H
													H
		5631	51.55	-16.65	68.2	39.08	33.39	13.42	34.34	400	16	P	V
		5657.25	52.89	-20.7	73.59	40.26	33.53	13.46	34.36	400	16	P	V
		5719.5	52.89	-57.77	110.66	39.93	33.82	13.55	34.41	400	16	P	V
		5722.75	52.95	-64.12	117.07	39.97	33.84	13.55	34.41	400	16	P	V
	*	5755	99.48	-	-	86.31	34	13.6	34.43	400	16	P	V
	*	5755	92.48	-	-	79.31	34	13.6	34.43	400	16	A	V
		5852.5	49.87	-66.63	116.5	36.76	33.91	13.71	34.51	400	16	P	V
		5862.25	51	-57.77	108.77	37.89	33.92	13.71	34.52	400	16	P	V
		5888.75	51.32	-43.67	94.99	38.15	33.98	13.73	34.54	400	16	P	V
		5933.75	50.85	-17.35	68.2	37.66	34	13.76	34.57	400	16	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5646.25	52.03	-16.17	68.2	39.46	33.48	13.44	34.35	100	180	P	H
		5661.25	51.33	-25.22	76.55	38.68	33.55	13.46	34.36	100	180	P	H
		5717.25	51.55	-58.48	110.03	38.61	33.8	13.55	34.41	100	180	P	H
		5720.25	51.53	-59.84	111.37	38.57	33.82	13.55	34.41	100	180	P	H
	*	5795	100.36	-	-	87.16	34	13.66	34.46	100	180	P	H
	*	5795	93.37	-	-	80.17	34	13.66	34.46	100	180	A	H
		5850.25	50.81	-70.82	121.63	37.71	33.9	13.71	34.51	100	180	P	H
		5858.25	51.46	-58.43	109.89	38.34	33.92	13.71	34.51	100	180	P	H
		5913.5	51.25	-25.43	76.68	38.05	34	13.75	34.55	100	180	P	H
		5937.25	51.12	-17.08	68.2	37.92	34	13.77	34.57	100	180	P	H
													H
													H
		5631.25	51.26	-16.94	68.2	38.79	33.39	13.42	34.34	100	336	P	V
		5682.5	51.64	-40.65	92.29	38.9	33.63	13.49	34.38	100	336	P	V
		5713.25	51.09	-57.82	108.91	38.17	33.78	13.54	34.4	100	336	P	V
		5723.5	51.38	-67.4	118.78	38.39	33.84	13.56	34.41	100	336	P	V
	*	5795	99.47	-	-	86.27	34	13.66	34.46	100	336	P	V
	*	5795	92.66	-	-	79.46	34	13.66	34.46	100	336	A	V
		5853	51.37	-63.99	115.36	38.26	33.91	13.71	34.51	100	336	P	V
		5862.25	52.1	-56.67	108.77	38.99	33.92	13.71	34.52	100	336	P	V
		5913	52	-25.05	77.05	38.8	34	13.75	34.55	100	336	P	V
		5941.75	51.23	-16.97	68.2	38.04	34	13.77	34.58	100	336	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	51.54	-22.46	74	32.38	39.02	20.13	39.99	-	-	P	H
		11510	42.34	-11.66	54	23.18	39.02	20.13	39.99	-	-	A	H
		17265	53.97	-14.23	68.2	34.93	40.6	24.74	46.3	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
		11510	51.02	-22.98	74	31.86	39.02	20.13	39.99	-	-	P	V
		11510	42.17	-11.83	54	23.01	39.02	20.13	39.99	-	-	A	V
		17265	53.42	-14.78	68.2	34.38	40.6	24.74	46.3	-	-	P	V
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													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5616	50.76	-17.44	68.2	38.4	33.3	13.39	34.33	100	167	P	H
		5683.75	56.09	-37.12	93.21	43.33	33.64	13.5	34.38	100	167	P	H
		5719	58.33	-52.19	110.52	45.38	33.81	13.55	34.41	100	167	P	H
		5722.5	58.94	-57.56	116.5	45.97	33.83	13.55	34.41	100	167	P	H
	*	5775	98.29	-	-	85.11	34	13.63	34.45	100	167	P	H
	*	5775	90.73	-	-	77.55	34	13.63	34.45	100	167	A	H
		5852.25	51.47	-65.6	117.07	38.37	33.9	13.71	34.51	100	167	P	H
		5866.25	51.1	-56.55	107.65	37.97	33.93	13.72	34.52	100	167	P	H
		5913.5	51.41	-25.27	76.68	38.21	34	13.75	34.55	100	167	P	H
		5937.75	50.98	-17.22	68.2	37.78	34	13.77	34.57	100	167	P	H
													H
													H
		5616.25	51.18	-17.02	68.2	38.82	33.3	13.39	34.33	400	16	P	V
		5684	50.71	-42.69	93.4	37.95	33.64	13.5	34.38	400	16	P	V
		5718.25	54.62	-55.69	110.31	41.67	33.81	13.55	34.41	400	16	P	V
		5723.75	54.02	-65.33	119.35	41.03	33.84	13.56	34.41	400	16	P	V
	*	5775	96.44	-	-	83.26	34	13.63	34.45	400	16	P	V
	*	5775	89.62	-	-	76.44	34	13.63	34.45	400	16	A	V
		5852	52.09	-65.55	117.64	38.99	33.9	13.71	34.51	400	16	P	V
		5870.75	51.91	-54.48	106.39	38.77	33.94	13.72	34.52	400	16	P	V
		5910	51.49	-27.78	79.27	38.29	34	13.75	34.55	400	16	P	V
		5948.5	51.31	-16.89	68.2	38.12	34	13.77	34.58	400	16	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)

[illegible]

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

[illegible]

Emission below 1GHz

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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)
5GHz 802.11ac VHT80 LF		40.26	28.09	-11.91	40	39.9	19.87	1.06	32.74	-	-	P	H
		87.51	33.93	-6.07	40	50.33	14.65	1.67	32.72	-	-	P	H
		234.66	35.5	-10.5	46	48.85	16.58	2.74	32.67	-	-	P	H
		269.49	36.2	-9.8	46	46.82	19.14	2.92	32.68	-	-	P	H
		396.6	38.96	-7.04	46	46.51	21.63	3.53	32.71	-	-	P	H
		715.1	39.26	-6.74	46	40.32	26.93	4.77	32.76	-	-	P	H
													H
													H
													H
													H
													H
													H
		32.16	36.09	-3.91	40	43.91	24.02	0.91	32.75	100	250	Q	V
		40.53	34.39	-5.61	40	46.34	19.72	1.07	32.74	100	110	Q	V
		69.96	31.75	-8.25	40	50.42	12.59	1.47	32.73	-	-	P	V
		87.51	34.68	-5.32	40	51.08	14.65	1.67	32.72	-	-	P	V
		146.37	32.8	-10.7	43.5	46.1	17.28	2.13	32.71	-	-	P	V
		985.3	35.7	-18.3	54	30.37	30.65	5.7	31.02	-	-	P	V
													V
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												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



<Sample 2>

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5630.25	50.64	-17.56	68.2	38.18	33.38	13.42	34.34	100	62	P	H
		5689.25	54.09	-43.18	97.27	41.31	33.66	13.5	34.38	100	62	P	H
		5714.25	57.28	-51.91	109.19	44.35	33.79	13.54	34.4	100	62	P	H
		5720.75	61.62	-50.89	112.51	48.66	33.82	13.55	34.41	100	62	P	H
	*	5775	101.23	-	-	88.05	34	13.63	34.45	100	62	P	H
	*	5775	94.3	-	-	81.12	34	13.63	34.45	100	62	A	H
		5853.75	53.85	-59.8	113.65	40.74	33.91	13.71	34.51	100	62	P	H
		5867	53.53	-53.91	107.44	40.4	33.93	13.72	34.52	100	62	P	H
		5882.25	51.29	-48.53	99.82	38.13	33.96	13.73	34.53	100	62	P	H
		5928.75	50.53	-17.67	68.2	37.34	34	13.76	34.57	100	62	P	H
													H
													H
		5636	50.55	-17.65	68.2	38.05	33.42	13.42	34.34	100	118	P	V
		5690.75	50.92	-47.46	98.38	38.13	33.66	13.51	34.38	100	118	P	V
		5720	53.55	-57.25	110.8	40.59	33.82	13.55	34.41	100	118	P	V
		5720.25	53.87	-57.5	111.37	40.91	33.82	13.55	34.41	100	118	P	V
	*	5775	97.02	-	-	83.84	34	13.63	34.45	100	118	P	V
	*	5775	90.1	-	-	76.92	34	13.63	34.45	100	118	A	V
		5852	50.85	-66.79	117.64	37.75	33.9	13.71	34.51	100	118	P	V
		5866.5	52.11	-55.47	107.58	38.98	33.93	13.72	34.52	100	118	P	V
		5903	51	-33.44	84.44	37.81	34	13.74	34.55	100	118	P	V
		5940.5	50.72	-17.48	68.2	37.52	34	13.77	34.57	100	118	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)

[illegible]

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

[illegible]

Emission below 1GHz

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

[illegible]



<Sample 3>

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5600.75	50.34	-17.86	68.2	38.09	33.2	13.37	34.32	100	77	P	H
		5689.25	51.89	-45.38	97.27	39.11	33.66	13.5	34.38	100	77	P	H
		5719.5	54.39	-56.27	110.66	41.43	33.82	13.55	34.41	100	77	P	H
		5722	54.3	-61.06	115.36	41.33	33.83	13.55	34.41	100	77	P	H
	*	5775	97.74	-	-	84.56	34	13.63	34.45	100	77	P	H
	*	5775	90.32	-	-	77.14	34	13.63	34.45	100	77	A	H
		5850.75	52.91	-67.58	120.49	39.81	33.9	13.71	34.51	100	77	P	H
		5864.25	52.82	-55.39	108.21	39.7	33.93	13.71	34.52	100	77	P	H
		5887	52.63	-43.66	96.29	39.46	33.97	13.73	34.53	100	77	P	H
		5932.25	52.01	-16.19	68.2	38.82	34	13.76	34.57	100	77	P	H
													H
													H
		5648.25	50.67	-17.53	68.2	38.09	33.49	13.44	34.35	100	139	P	V
		5697.5	53.77	-49.59	103.36	40.95	33.69	13.52	34.39	100	139	P	V
		5718.25	55.01	-55.3	110.31	42.06	33.81	13.55	34.41	100	139	P	V
		5722	57.14	-58.22	115.36	44.17	33.83	13.55	34.41	100	139	P	V
	*	5775	95.48	-	-	82.3	34	13.63	34.45	100	139	P	V
	*	5775	88.86	-	-	75.68	34	13.63	34.45	100	139	A	V
		5851.75	52.22	-65.99	118.21	39.12	33.9	13.71	34.51	100	139	P	V
		5860.75	53.46	-55.73	109.19	40.34	33.92	13.71	34.51	100	139	P	V
		5921	51.77	-19.38	71.15	38.58	34	13.75	34.56	100	139	P	V
		5944.5	50.78	-17.42	68.2	37.59	34	13.77	34.58	100	139	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

[illegible]

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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)
5GHz 802.11ac VHT80 SHF		22397.49	26.62	-47.38	74	30.91	38.31	18.16	60.76	-	-	P	H
		33098	37.19	-31.01	68.2	32.65	41	24.6	61.06	-	-	P	H
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Emission below 1GHz

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
5GHz 802.11ac VHT80 LF		40.26	27.75	-12.25	40	39.56	19.87	1.06	32.74	-	-	P	H
		98.04	29.36	-14.14	43.5	44.46	15.84	1.78	32.72	-	-	P	H
		189.84	28.46	-15.04	43.5	43.92	14.72	2.49	32.67	-	-	P	H
		228.72	32.56	-13.44	46	46.6	15.93	2.7	32.67	-	-	P	H
		264.63	33.88	-12.12	46	43.62	20.04	2.9	32.68	-	-	P	H
		947.5	35.45	-10.55	46	30.53	30.82	5.53	31.43	-	-	P	H
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													H
		33.24	34.11	-5.89	40	42.62	23.31	0.93	32.75	100	244	Q	V
		40.53	33.07	-6.93	40	45.02	19.72	1.07	32.74	100	117	Q	V
		46.47	33.21	-6.79	40	48.2	16.56	1.17	32.72	-	-	P	V
		145.29	28.9	-14.6	43.5	42.17	17.31	2.13	32.71	-	-	P	V
		228.99	27.85	-18.15	46	41.86	15.96	2.7	32.67	-	-	P	V
		967.1	35.44	-18.56	54	30.13	30.92	5.61	31.22	-	-	P	V
													V
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Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



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 Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	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. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5650MHz:

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. Margin(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 68.2(dBμV/m)
 = -12.75 (dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Bank Lin, Ken Kuo and Lucifer Jiang	Temperature :	20~23°C
		Relative Humidity :	42~55%

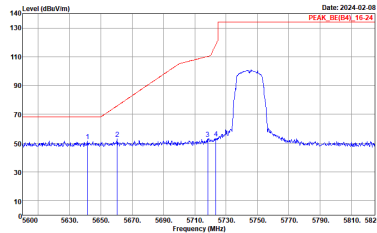
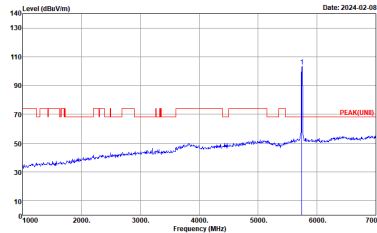
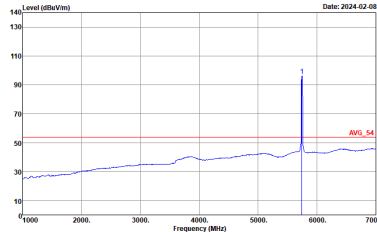
Note symbol

-L	Low channel location
-R	High channel location

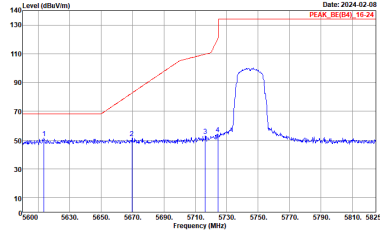
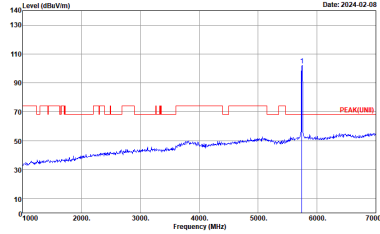
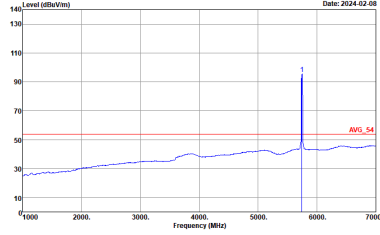


<Sample 1>

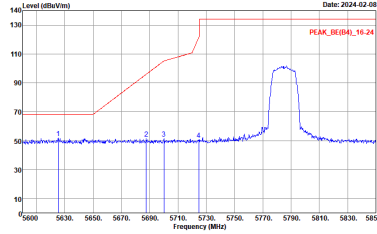
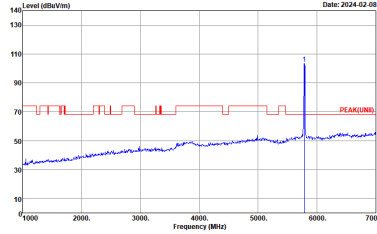
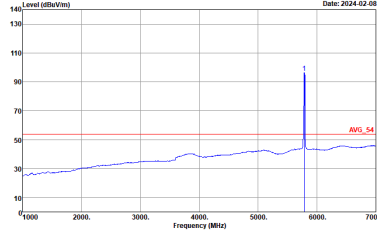
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_R1[64]_16-24 3m LE2004A18ENL_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_L1[64]_16-24 3m LE2004A18ENL_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2004A18ENL_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

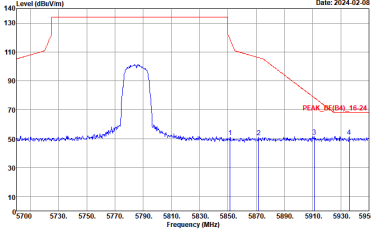


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_REF(04)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

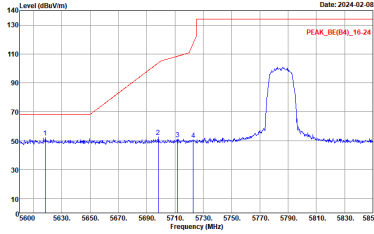
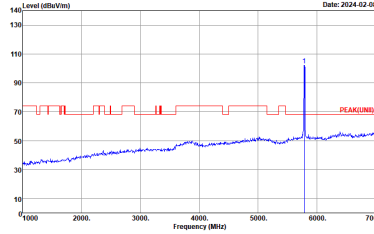
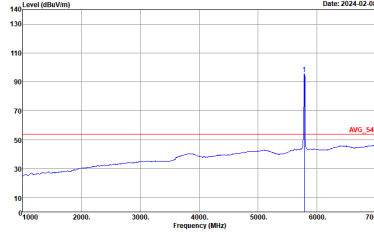


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_85(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

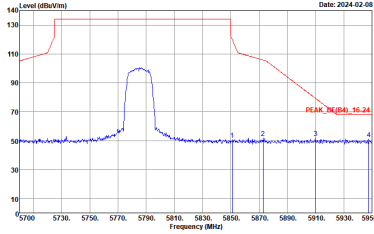


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_95(B4)_16-24 3m LEZ04A18ENL_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

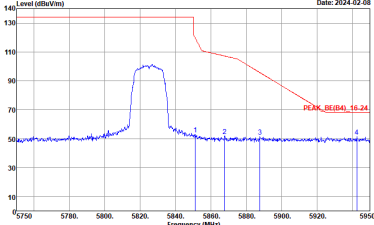
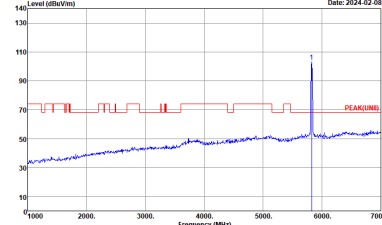
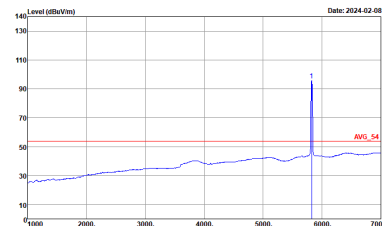


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_95(B4)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_85(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



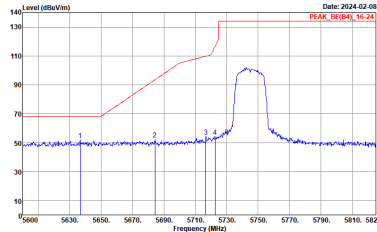
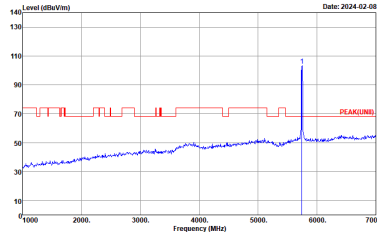
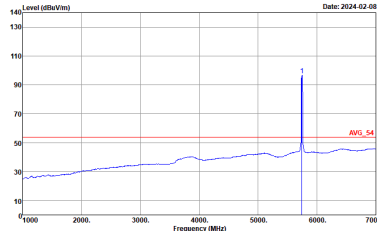
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_85(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto



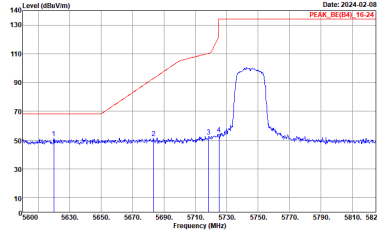
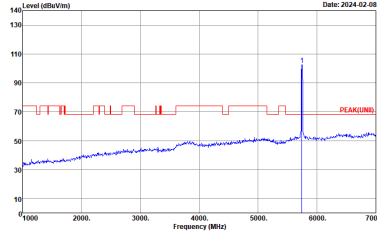
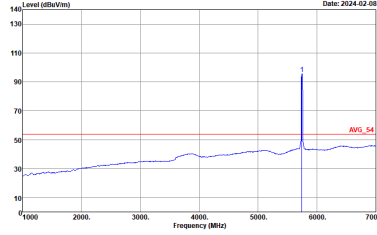
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	Site : 03CH22-1HY Condition : PEAK_B4_16-24 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-1HY Condition : PEAK_B4_16-24 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto



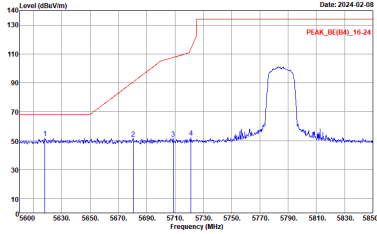
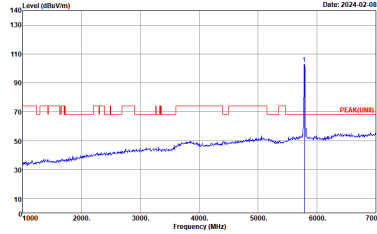
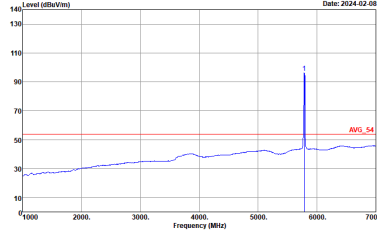
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

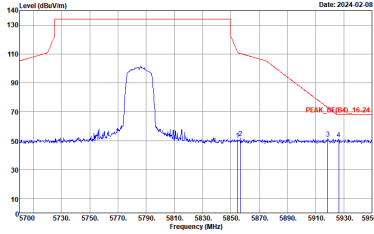


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_8E(B4)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

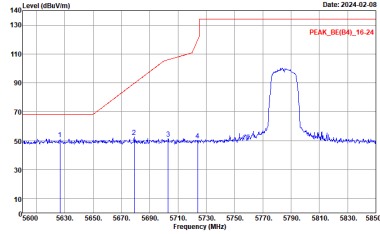
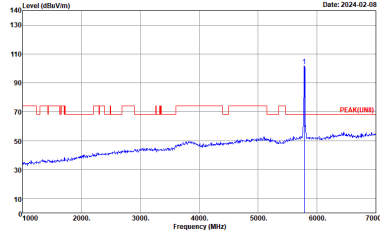
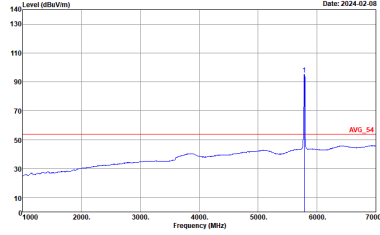


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_85(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

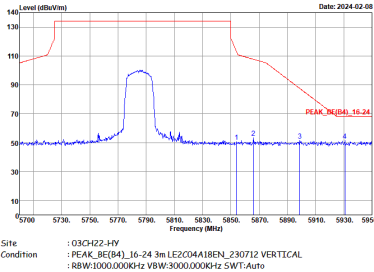


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-14Y Condition : PEAK_85(B4)_16-24 3m IEZ04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

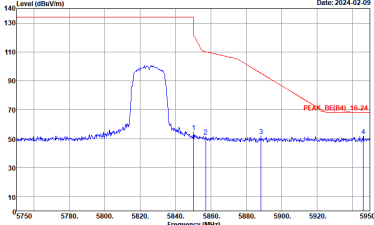
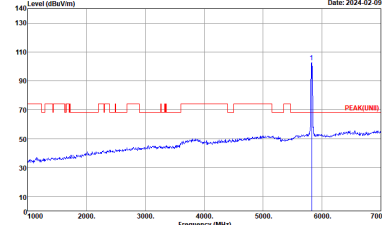
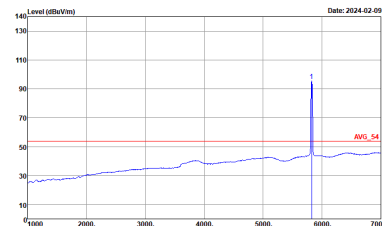


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_95(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto

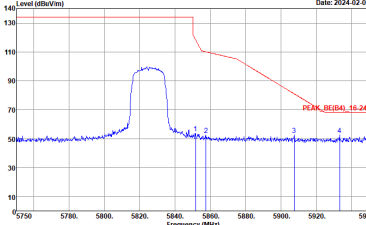
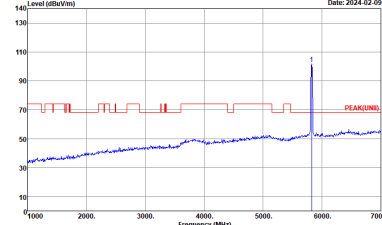
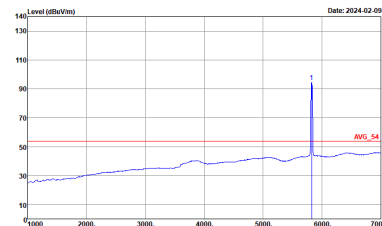


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		Left blank



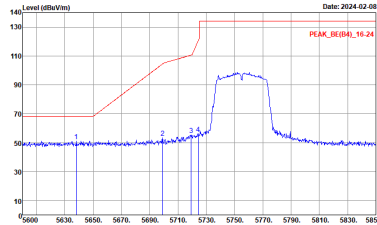
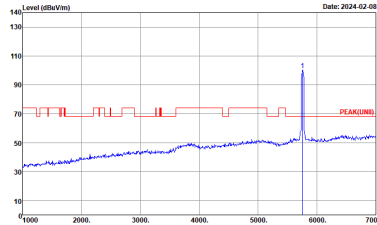
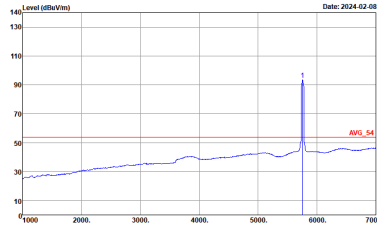
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_85(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto



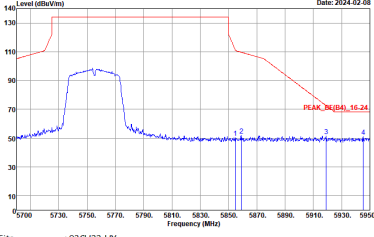
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_B4_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(FUND) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.820KHz SWT:Auto



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:1600KHz SWT:Auto

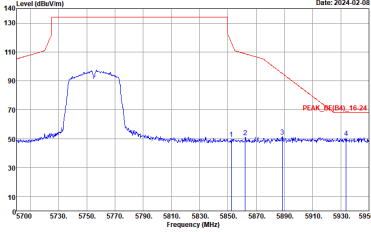


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-44Y Condition : PEAK_8E(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

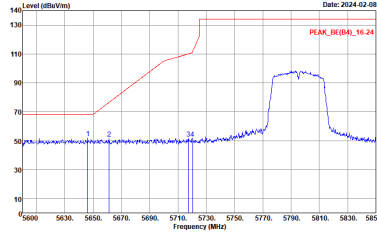
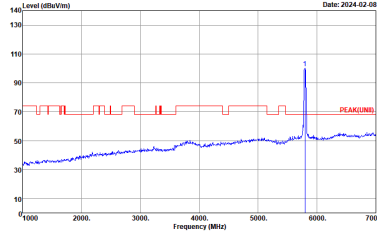
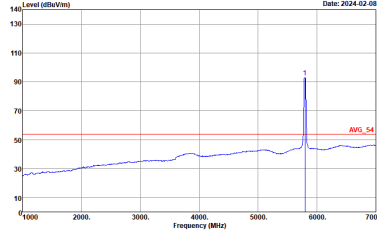


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	Site : 03CH22-1HY Condition : PEAK_RE(B4)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:1600KHz SWT:Auto

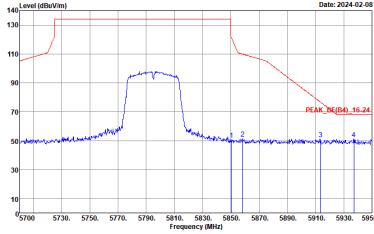


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_IN(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

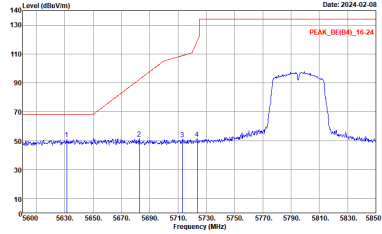
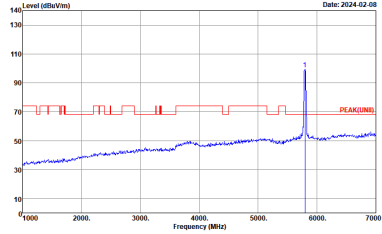
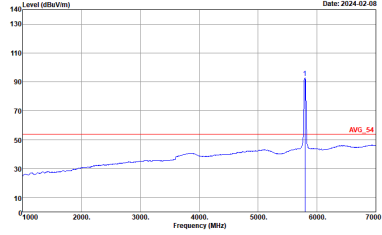


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_95(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:1600KHz SWT:Auto

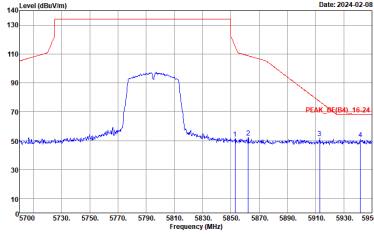


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_16(B4)_16-24 3m LEZ04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



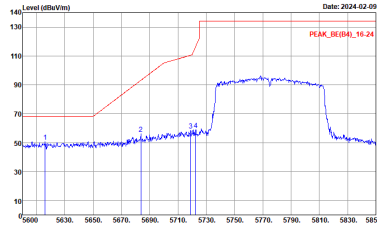
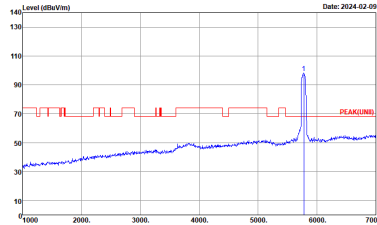
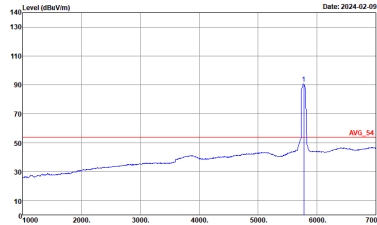
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_RE(B4)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:1600KHz SWT:Auto



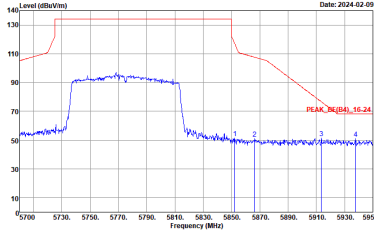
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_95(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



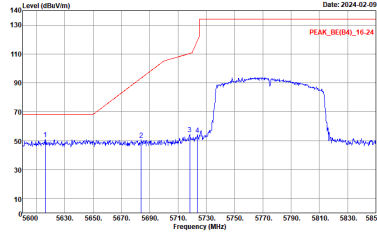
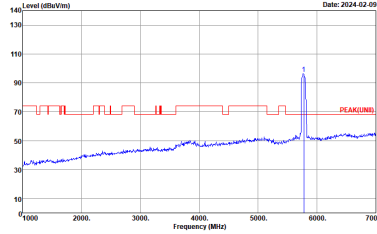
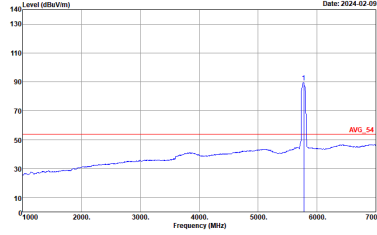
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

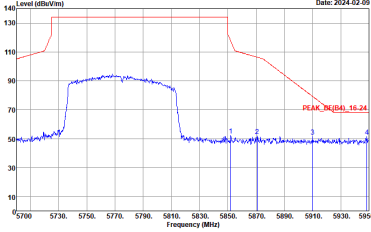


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-44Y Condition : PEAK_8E(B4)_16-24 3m LE2C04A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



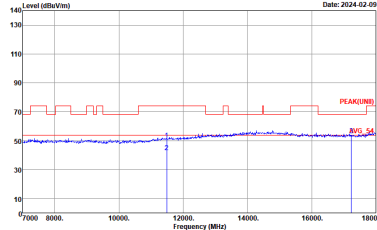
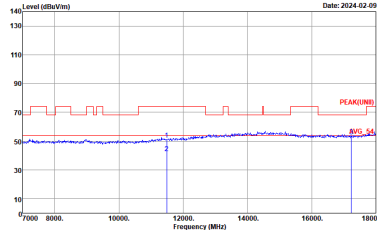
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_RE(B4)_16-24 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(FUND) 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3.300KHz SWT:Auto



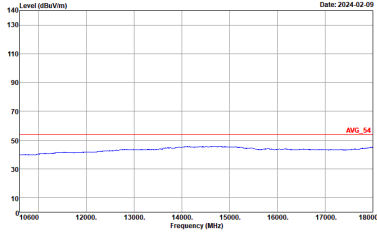
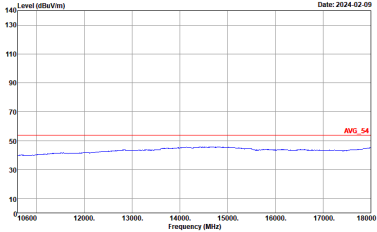
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_IN(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



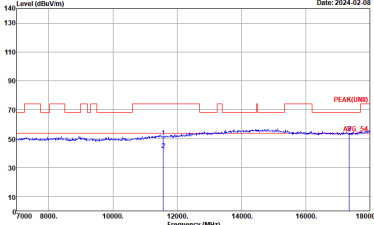
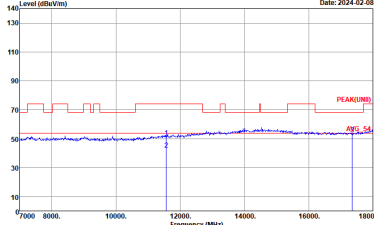
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UM) 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-HY Condition : PEAK(UM) 3m LE2004A18EN_230712 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-14Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-14Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :

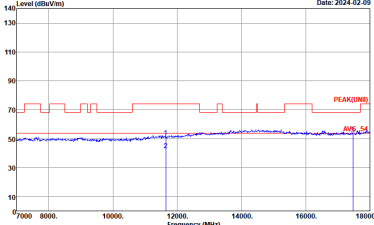
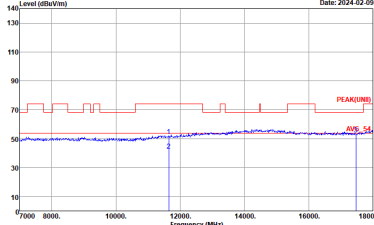


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



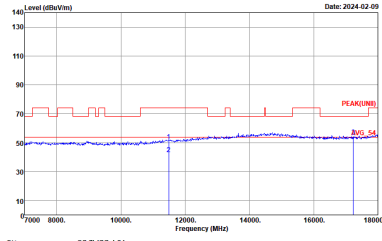
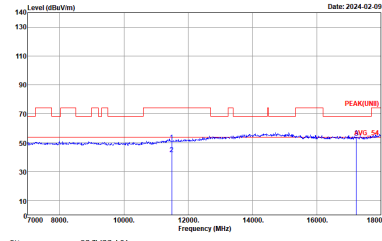
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL :



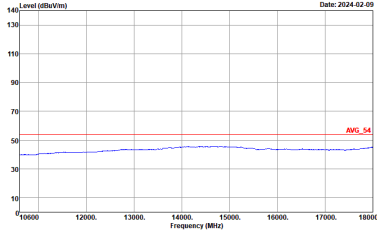
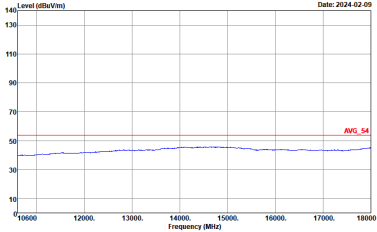
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-09 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-09 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



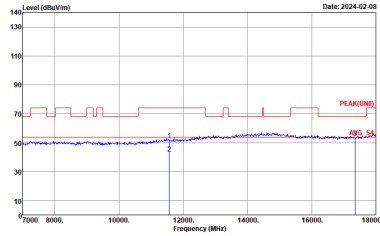
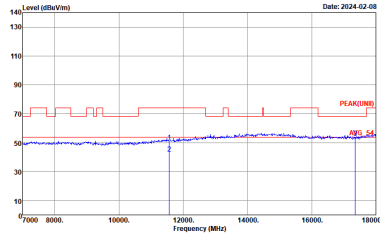
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : .	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : .



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH22-4Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-4Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :

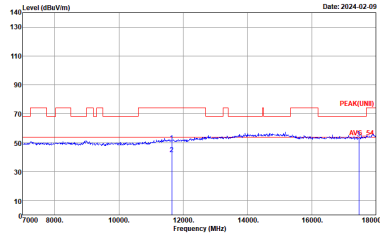
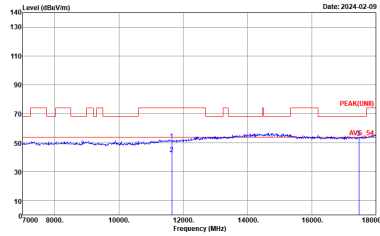


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



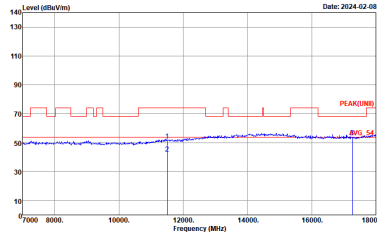
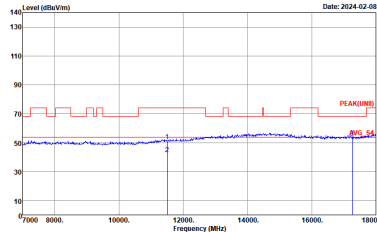
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-1#Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL :



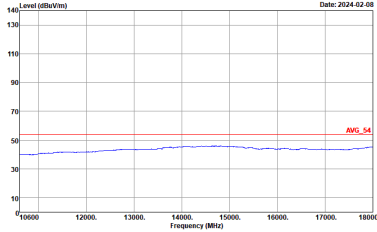
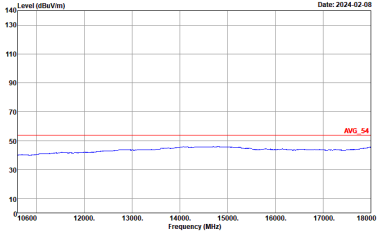
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-09 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-09 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



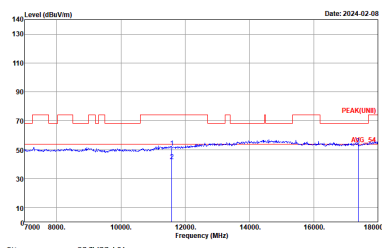
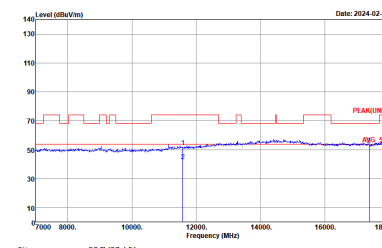
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : .	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : .



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-14Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-14Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



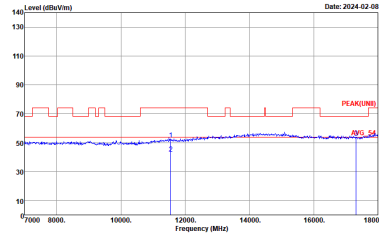
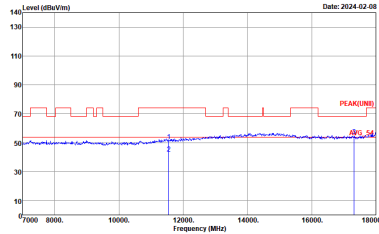
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-14Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL	 Site : 03CH22-14Y Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



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

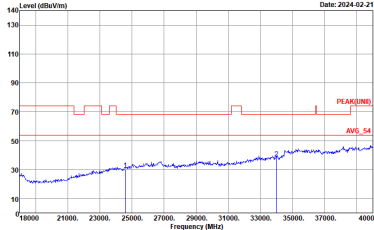
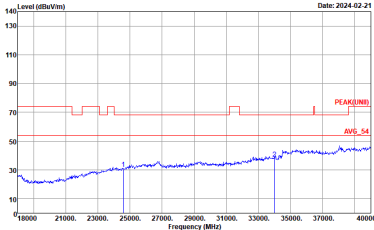
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : .	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : .



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-4Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-08 Site : 03CH22-4Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 HORIZONTAL :	 Site : 03CH22-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 VERTICAL :



Emission below 1GHz

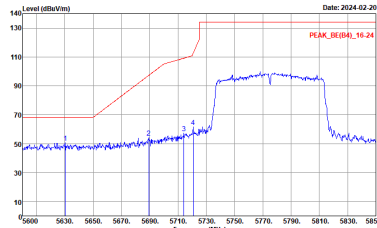
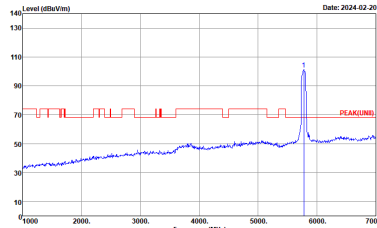
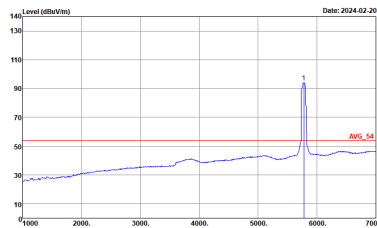
5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	Level (dBuV/m) Date: 2024-02-23 Site : 03CH22-HV Condition : QP-3m 81L0663304_231015_30 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-23 Site : 03CH22-HV Condition : QP-3m 81L0663304_231015_30 VERTICAL :

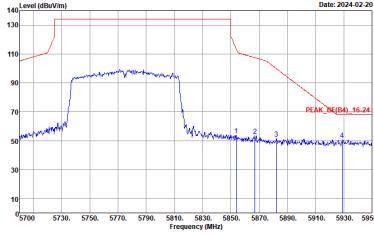


<Sample 2>

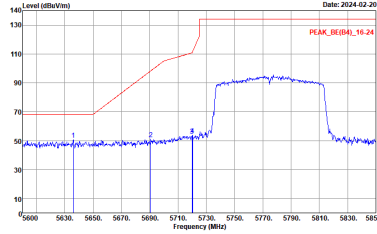
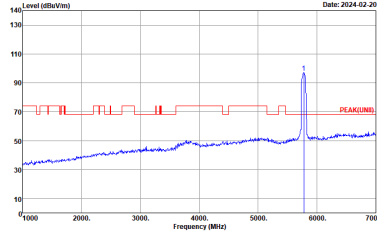
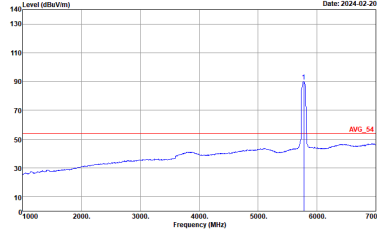
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto

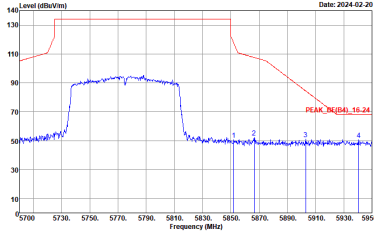


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_85(B4)_16-24 3m LE204A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



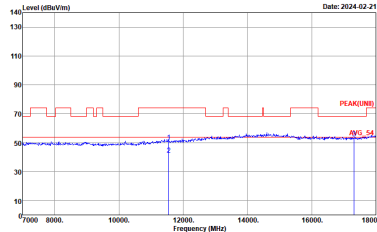
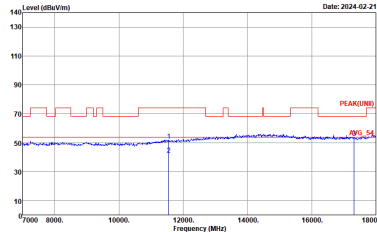
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_85(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



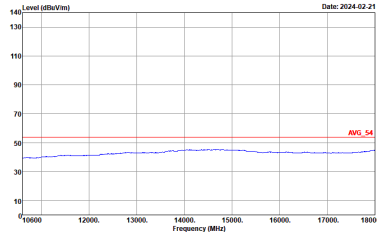
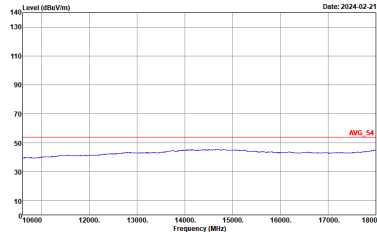
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-14V Condition : PEAK_IN(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



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

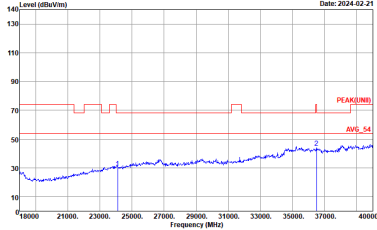
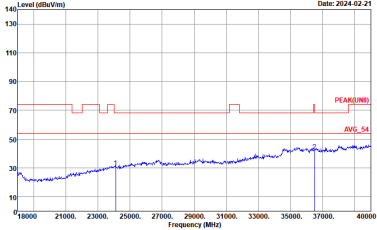
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : .	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : .



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
10.6G ~14.5G Avg.	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



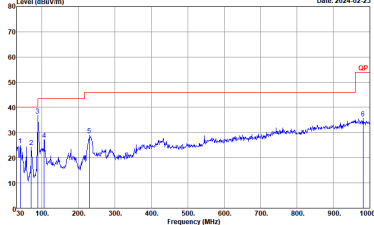
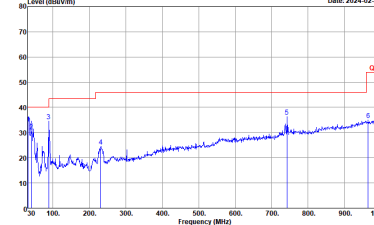
Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNB) 1m SHF_1223_230710 HORIZONTAL :	 Site : 03CH22-HY Condition : PEAK(UNB) 1m SHF_1223_230710 VERTICAL :



Emission below 1GHz

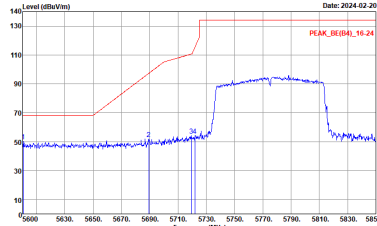
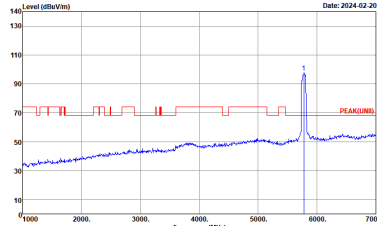
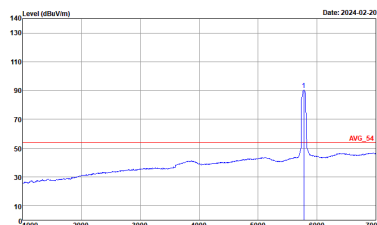
5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH22-HV Condition : QP 3m 801.0663304_231015_30 HORIZONTAL : RBW120.0000Hz VBW300.0000Hz SWT0.500sec	 Site : 03CH22-HV Condition : QP 3m 801.0663304_231015_30 VERTICAL : RBW120.0000Hz VBW300.0000Hz SWT0.500sec

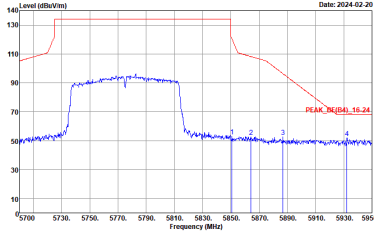


<Sample 3>

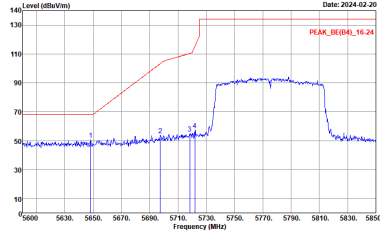
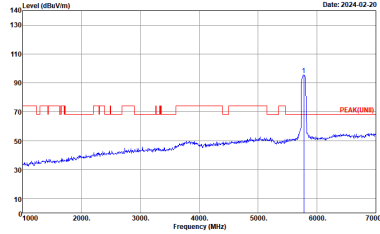
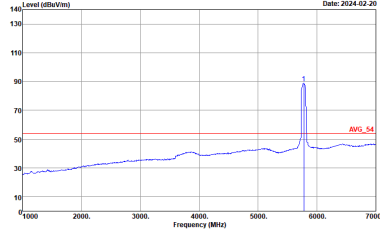
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE(B4)_16-24 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-HY Condition : AVG_54 3m LE2004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

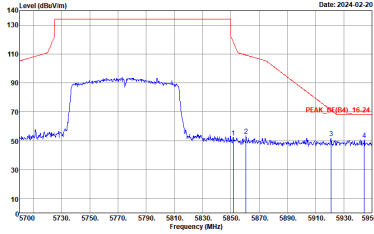


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_IN(B4)_16-24 3m LEZ04A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



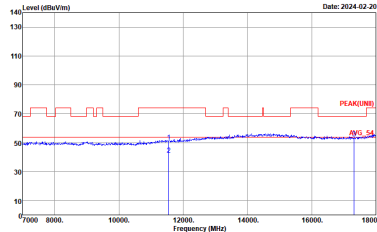
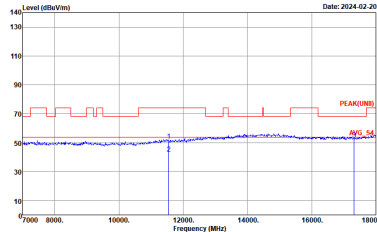
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-1HY Condition : PEAK_RE(B4)_16-24 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-1HY Condition : PEAK(FUND) 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Left blank	 Site : 03CH22-1HY Condition : AVG_F_54 3m LE2C04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH22-11V Condition : PEAK_IN(B4)_16-24 3m LEZ04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



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

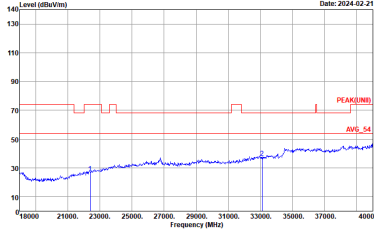
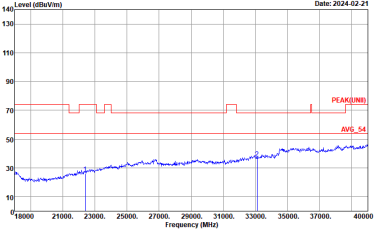
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 HORIZONTAL : .	 Site : 03CH22-HY Condition : PEAK(UNIT) 3m LE2C04A18EN_230712 VERTICAL : .



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-02-20 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-02-20 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 HORIZONTAL :	 Site : 03CH22-HY Condition : PEAK(UNIT) 1m SHF_1223_230710 VERTICAL :



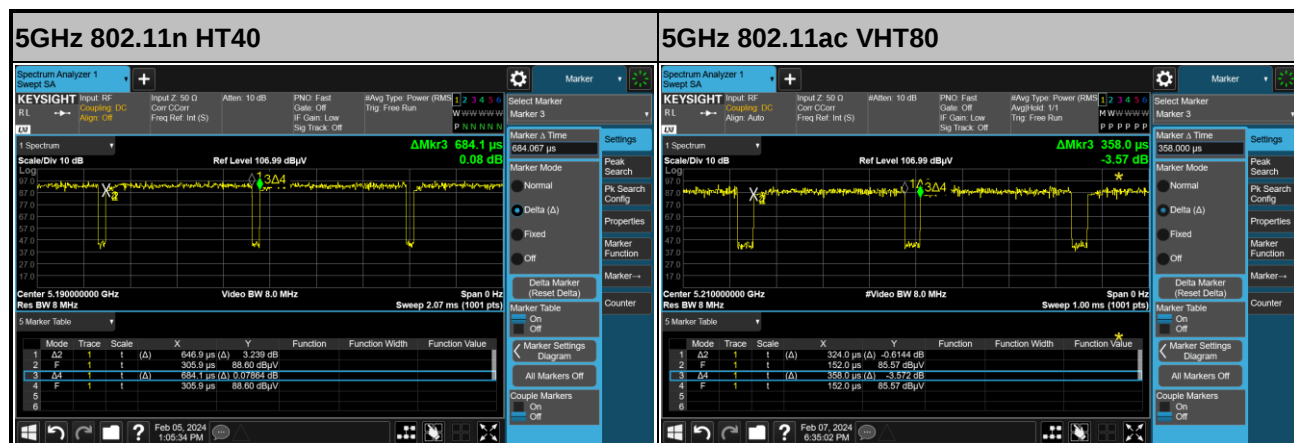
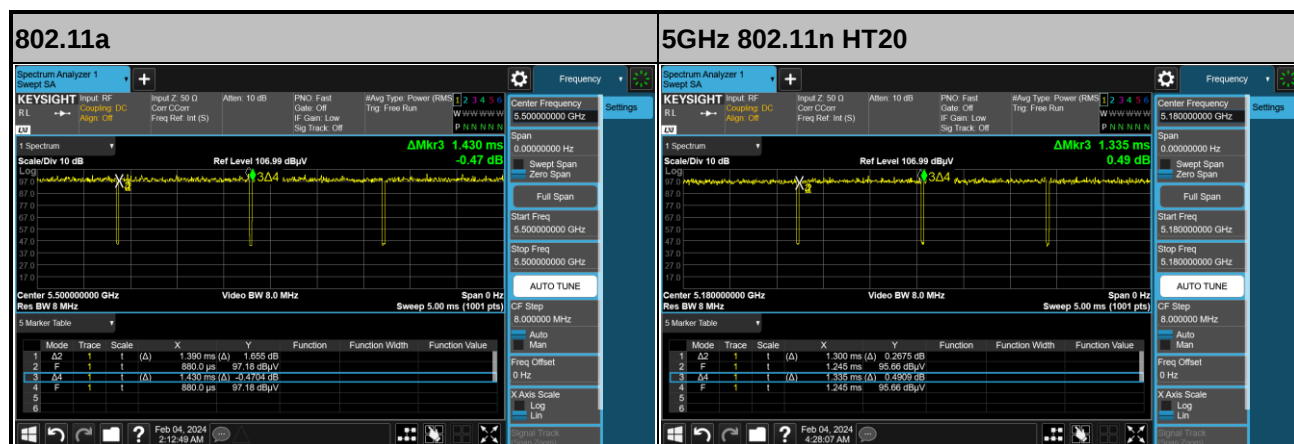
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	Site : 03CH22-HY Condition : QP 3m BIL0663304_231015_30 HORIZONTAL ..	Site : 03CH22-HY Condition : QP 3m BIL0663304_231015_30 VERTICAL ..



Appendix E. Duty Cycle Plots

<Sample 1>

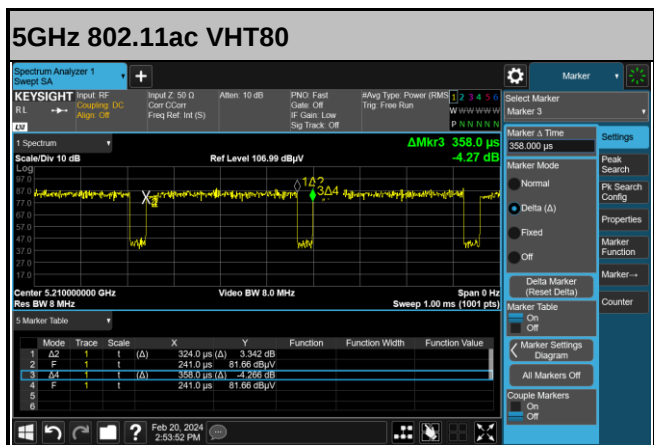
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	97.20	1390	0.72	750Hz
5GHz 802.11n HT20	97.38	1300	0.77	820Hz
5GHz 802.11n HT40	94.56	646.9	1.55	1.6kHz
5GHz 802.11ac VHT80	90.50	324	3.09	3.3kHz





<Sample 2>

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
5GHz 802.11ac VHT80	90.50	324	3.09	3.3kHz



<Sample 3>

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
5GHz 802.11ac VHT80	90.50	324	3.09	3.3kHz

