

TEST REPORT

Report Number: R15872942-E5

Applicant : Samsung Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Republic of Korea

Model : SM-A175F / SM-A175F/DS

FCC ID : A3LSMA175F

EUT Description : Smartphone

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2025

Date Of Issue:
2025-07-29

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
1	2025-07-18	Initial Issue	B. Kiewra
2	2025-07-23	Added additional model number	B. Kiewra
3	2025-07-29	Revised maximum power table in Section 6.2	B. Kiewra

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Republic of Korea

EUT DESCRIPTION: Smartphone

MODEL: SM-A175F / SM-A175F/DS

SERIAL NUMBER: R38Y500BA5H, R38Y50033YM

SAMPLE RECEIPT DATE: 2025-06-20

DATE TESTED: 2025-06-27 to 2025-07-23

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Refer to Section 2

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the sample tested, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

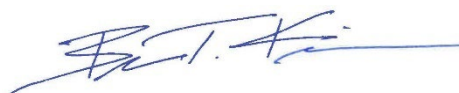
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Approved & Released
For UL LLC By:



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Consumer, Medical and IT Segment
UL LLC

Prepared By:



Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST RESULT SUMMARY

This report contains info provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer. Below is a list of the data/info provided by the customer:

1. Antenna Gain and Type (section 6.3)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 12.2.
See Comment	26dB BW	Compliant	None.
15.407 (e)	6 dB BW		
15.407 (a) (1-3), (h) (1)	Output Power		
15.407 (a) (1-3)	PSD		
15.209, 15.205, 15.407 (b)	Radiated Emissions		
15.207	AC Mains Conducted Emissions		

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with;

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15E
- FCC KDB 789033 D02 v02r01,
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2020

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	ULab
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Power Spectral Density	2.47 dB
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
Unwanted Emissions, Conducted	1.94 dB
Worst Case Radiated Disturbance, 9kHz to 40 GHz	6.01 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Humidity	3.39%
DC Supply Voltages	0.57%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a smartphone. This report covers the full testing of the 5GHz.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.2GHz Band			
5180-5240	802.11a	16.88	48.75
5180-5240	802.11n HT20	16.83	48.19
5190-5230	802.11n HT40	15.72	37.33
5210	802.11ac VHT80	12.83	19.19
5.3GHz Band			
5260-5320	802.11a	16.84	48.31
5260-5320	802.11n HT20	15.76	37.67
5270-5310	802.11n HT40	15.84	38.37
5290	802.11ac VHT80	13.61	22.96
5.6GHz Band			
5500-5720	802.11a	16.97	49.77
5500-5720	802.11ac VHT20	16.85	48.42
5510-5710	802.11n HT40	15.87	38.64
5530-5690	802.11ac VHT80	14.84	30.48
5.8GHz Band			
5745-5825	802.11a	16.92	49.20
5745-5825	802.11n HT20	16.85	48.42
5755-5795	802.11n HT40	15.87	38.64
5775	802.11ac VHT80	14.85	30.55

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna gain and type, as provided by the manufacturer, are as follows:

Frequency (MHz)	Gain (dBi)	Type
5150-5850	-3.3	PIFA

6.4. SOFTWARE AND FIRMWARE

Manufacturer will disclose upon request.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz and AC Mains emissions were performed with the EUT set to transmit at the mode and channel with the highest PSD as a worst-case mode.

Band edge and radiated spurious emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle(spurious only) and high channels.

For bandedge in the 5.2, 5.3 and 5.8 bands 802.11a was used to cover 802.11n HT20 as power was higher.

Radiated spurious emissions performed in the modes with the highest power and PSD per band.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y, and Z. It was determined that X orientation was the worst-case orientation; therefore, all final radiated testing was performed with the antennas in X orientation.

PSD performed at mid channel power.

The worst-case data-rates are as follows:

802.11a mode: 6 Mbps

802.11n HT20 mode: MCS0

802.11n HT40 mode: MCS0

802.11ac VHT80 mode: MCS0

To reduce the size of the report only one plot per test is included to represent all plots for each test.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adaptor	Samsung	EP-T2510	R3738S0231SEA	n/a

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	<3m	Connects to AC adaptor

TEST SETUP

Test software exercised the radio card.

SETUP DIAGRAMS

Please refer to R15872942-EP1 for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
30-1000 MHz					
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-30	2026-01-30
1-18 GHz					
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-02-07	2026-02-07
18-40 GHz					
91186	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2024-05-16	2026-05-16
204705	Horn Antenna, 26-40GHz	Com-Power	AH-640	2023-07-20	2025-07-20
Gain-Loss Chains					
91974	Gain-loss string: 0.009-30MHz	Various	Various	2025-05-31	2026-05-31
91976	Gain-loss string: 25-1000MHz	Various	Various	2025-05-31	2026-05-31
91979	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
135999	Gain-loss string: 18-40GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
81018	Spectrum Analyzer	Agilent	E4446A	2024-07-31	2025-07-31
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241205	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
1-18 GHz					
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-04-09	2026-04-09
Gain-Loss Chains					
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-13
Receiver & Software					
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-21
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
1-18 GHz					
88761	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-10-05	2025-10-05
Gain-Loss Chains					
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-08-29	2025-08-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
214284	Spectrum Analyzer	Rohde & Schwarz	FSW50	2025-03-14	2026-03-14
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23		
Power Software	Boonton Power Analyzer	Boonton	Version 3.0.13.0		
245309 (CBL010)	SMA Cable	Micro-coax	UFB293C-2-0360-300300	2025-06-06	2026-06-06
Pad II	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C27S-10	2024-08-17	2025-08-17
249603	Conducted Switch Box	In-house	NA	2025-03-01	2026-03-01

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
70374	EMI Test Receiver	ROHDE & SCHWARZ	ESC17	2024-07-30	2025-07-30
90416	Spectrum Analyzer	Keysight Technologies	N9030A	2024-09-23	2025-09-23
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2025-04-17	2026-04-17
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2025-04-17	2026-04-17
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2024-08-01	2025-08-01
236852	CW-AC Power Source	Ametek	CW2501	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		

8. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and KDB 789033 D02 v02r01

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2020, Section 6.2.

Radiated emissions in restricted frequency bands: ANSI C63.10 Subclause - 6.3 thru 6.6

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

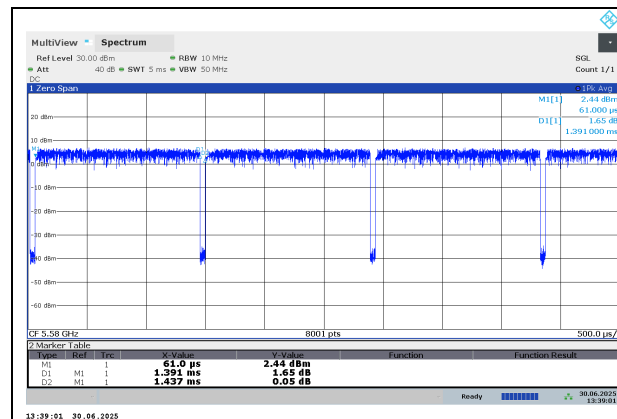
None; for reporting purposes only.

PROCEDURE

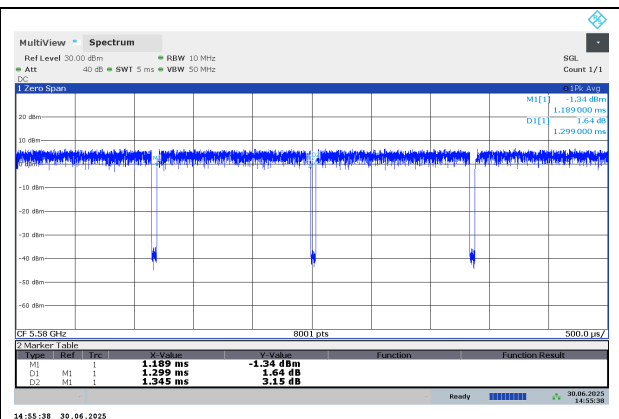
KDB 789033 Zero-Span Spectrum Analyzer Method.

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Cor Factor (20log) (dB)	Duty Cycle Cor Factor (10log) (dB)	1/B Minimum VBW (kHz)
802.11a	1.391	1.437	0.968	96.80	0.28	0.14	0.719
802.11n HT20	1.299	1.345	0.966	96.58	0.30	0.15	0.770
802.11n HT40	0.648	0.692	0.936	93.64	0.57	0.29	1.543
802.11ac VHT80	0.324	0.368	0.879	87.95	1.12	0.56	3.088

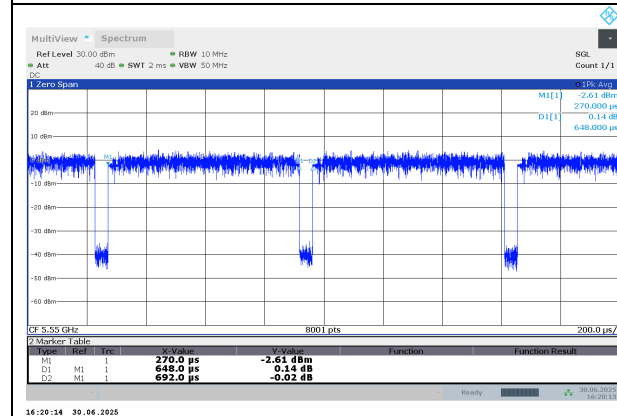
Test Engineer(s):	104463/85502
Test Date(s):	2025-06-30



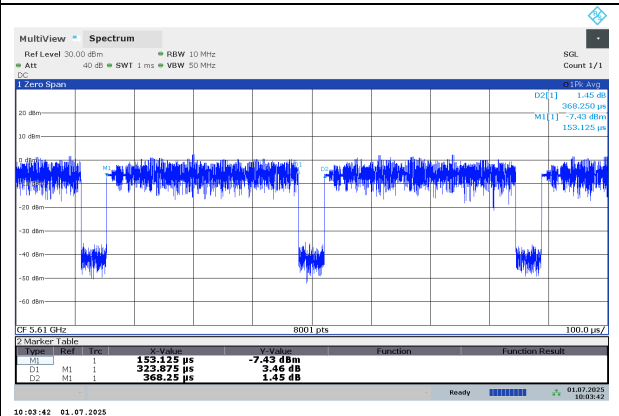
DUTY CYCLE 802.11a 1TX MODE



DUTY CYCLE 802.11nHT20 1TX MODE



DUTY CYCLE 802.11nHT40 1TX MODE



DUTY CYCLE 802.11ac VHT80 1TX MODE

9.2. 26 dB BANDWIDTH

LIMITS

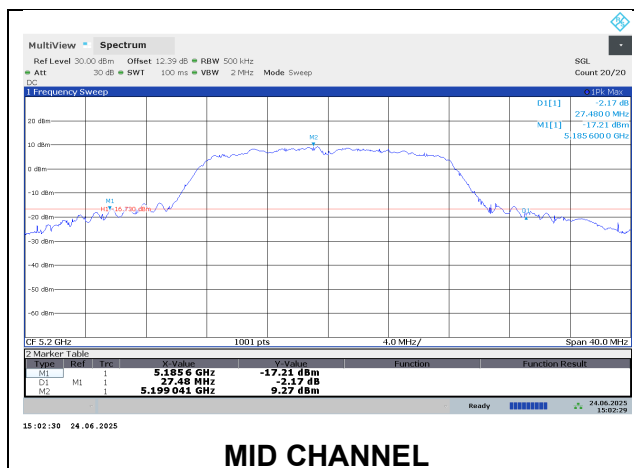
None; for reporting purposes only.

Tester ID: 104463/85502

Test Date: 2025-06-24 to 2025-07-11

9.2.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	27.32
Mid	5200	27.48
High	5240	26.00



9.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	31.24
Mid	5200	31.88
High	5240	32.40

9.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5190	69.40
High	5230	68.04

9.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5210	82.70

9.2.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5260	24.76
Mid	5300	24.88
High	5320	24.84

9.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5260	27.80
Mid	5300	27.76
High	5320	28.56

9.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5270	68.03
High	5310	69.93

9.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5290	82.88

9.2.9. 802.11a MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5500	29.00
Mid	5580	29.04
High	5700	28.48
144	5720	29.00

9.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5500	33.84
Mid	5580	33.40
High	5700	33.20
144	5720	37.60

9.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5510	70.95
Mid	5550	70.00
High	5670	68.84
142	5710	69.22

9.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5530	82.88
High	5610	82.88
138	5690	83.04

9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

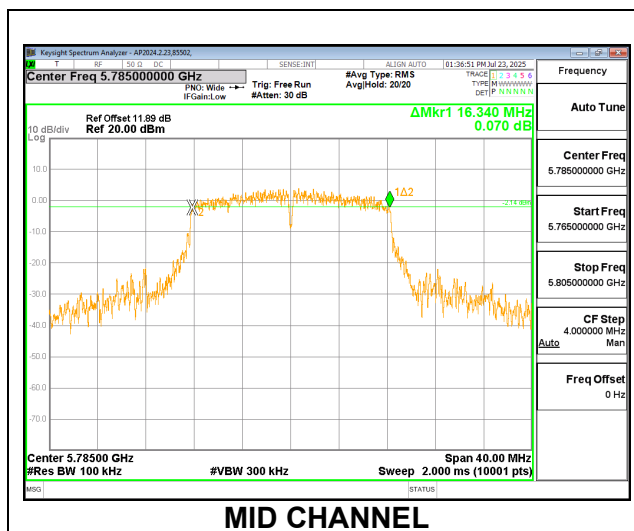
The minimum 6 dB bandwidth shall be at least 500 kHz.

Tester ID: 104463/85502

Test Date: 2025-07-11

9.3.1. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Min Limit (MHz)
Low	5745	16.23	0.50
Mid	5785	16.34	0.50
High	5825	16.32	0.50
144	5720	3.26	0.50



9.3.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Min Limit (MHz)
Low	5745	17.57	0.50
Mid	5785	17.55	0.50
High	5825	17.56	0.50
144	5720	3.91	0.50

9.3.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Min Limit (MHz)
Low	5755	35.30	0.50
High	5795	35.08	0.50
142	5710	3.18	0.50

9.3.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Min Limit (MHz)
Mid	5775	73.84	0.50
138	5690	3.24	0.50

9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The 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, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-2) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

Output Power:

Test Engineer(s):	104463/85502, 105900/85502
Test Date(s):	2025-06-24 to 2025-07-23

9.4.1. 802.11a MODE IN THE 5.2 GHZ BAND

1TX Antenna 1 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	-3.30	24.00	11.00
Mid	5200	-3.30	24.00	11.00
High	5240	-3.30	24.00	11.00

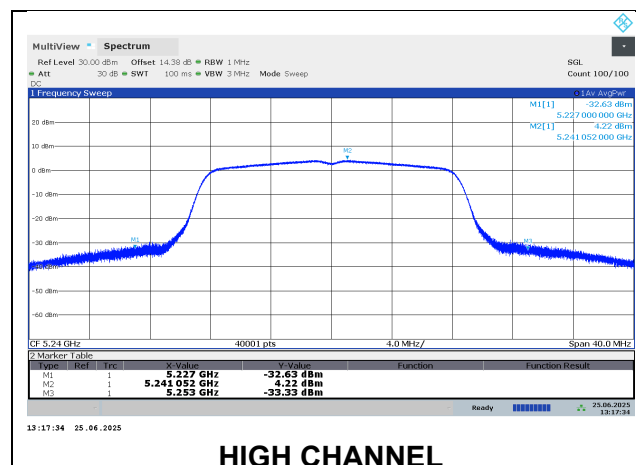
Duty Cycle CF (dB)	0.14	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	16.31	16.31	24.00	-7.69
Mid	5200	16.72	16.72	24.00	-7.28
High	5240	16.88	16.88	24.00	-7.12

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	3.85	3.99	11.00	-7.01
Mid	5200	4.09	4.23	11.00	-6.77
High	5240	4.22	4.36	11.00	-6.64



9.4.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-3.30	24.00	11.00
Mid	5200	-3.30	24.00	11.00
High	5240	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	16.660	16.66	24.00	-7.34
Mid	5200	16.830	16.83	24.00	-7.17
High	5240	16.810	16.81	24.00	-7.19

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.390	3.54	11.00	-7.46
Mid	5200	3.690	3.84	11.00	-7.16
High	5240	3.890	4.04	11.00	-6.96

9.4.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-3.30	24.00	11.00
High	5230	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	15.720	15.72	24.00	-8.28
High	5230	15.540	15.54	24.00	-8.46

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-0.730	-0.44	11.00	-11.44
High	5230	-0.540	-0.25	11.00	-11.25

9.4.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.56	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	12.830	12.83	24.00	-11.17

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-2.44	-1.88	11.00	-12.88

9.4.5. 802.11a MODE IN THE 5.3 GHZ BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	24.76	-3.30	24.00	11.00
Mid	5300	24.88	-3.30	24.00	11.00
High	5320	24.84	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.14	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.68	16.68	24.00	-7.32
Mid	5300	16.83	16.83	24.00	-7.17
High	5320	16.84	16.84	24.00	-7.16

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.450	3.59	11.00	-7.41
Mid	5300	3.230	3.37	11.00	-7.63
High	5320	3.470	3.61	11.00	-7.39

9.4.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	27.80	-3.30	24.00	11.00
Mid	5300	27.76	-3.30	24.00	11.00
High	5320	28.56	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	15.59	15.59	24.00	-8.41
Mid	5300	15.76	15.76	24.00	-8.24
High	5320	15.66	15.66	24.00	-8.34

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	2.55	2.70	11.00	-8.30
Mid	5300	2.23	2.38	11.00	-8.62
High	5320	2.41	2.56	11.00	-8.44

9.4.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	68.03	-3.30	24.00	11.00
High	5310	69.93	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	15.75	15.75	24.00	-8.25
High	5310	15.84	15.84	24.00	-8.16

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-0.900	-0.61	11.00	-11.61
High	5310	-0.980	-0.69	11.00	-11.69

9.4.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.88	-3.30	24.00	11.00

Duty Cycle CF (dB)	0.56	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	13.61	13.61	24.00	-10.39

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-4.800	-4.24	11.00	-15.24

9.4.9. 802.11a MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	29.00	-3.3	24.00	11.00
Low	5520	29.00	-3.3	24.00	11.00
Mid	5580	29.04	-3.3	24.00	11.00
High	5660	28.48	-3.3	24.00	11.00
High	5680	28.48	-3.3	24.00	11.00
High	5700	28.48	-3.3	24.00	11.00
144	5720	29.00	-3.3	24.00	11.00

Duty Cycle CF (dB)	0.14	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.44	16.44	24.00	-7.56
Low	5520	16.97	16.97	24.00	-7.03
Mid	5580	16.89	16.89	24.00	-7.11
High	5660	16.96	16.96	24.00	-7.04
High	5680	16.90	16.90	24.00	-7.10
High	5700	14.51	14.51	24.00	-9.49
144	5720	16.55	16.55	24.00	-7.45

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.83	3.97	11.00	-7.03
Mid	5580	3.54	3.68	11.00	-7.32
High	5700	3.80	3.94	11.00	-7.06
144	5720	7.27	7.41	11.00	-3.59

9.4.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	33.84	-3.3	24.00	11.00
Low	5520	33.84	-3.3	24.00	11.00
Mid	5580	33.40	-3.3	24.00	11.00
High	5660	33.20	-3.3	24.00	11.00
High	5680	33.20	-3.3	24.00	11.00
High	5700	33.20	-3.3	24.00	11.00
144	5720	37.60	-3.3	24.00	11.00

Duty Cycle CF (dB)	0.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	15.58	15.58	24.00	-8.42
Low	5520	16.74	16.74	24.00	-7.26
Mid	5580	16.74	16.74	24.00	-7.26
High	5660	16.85	16.85	24.00	-7.15
High	5680	16.80	16.80	24.00	-7.20
High	5700	14.98	14.98	24.00	-9.02
144	5720	16.75	16.75	24.00	-7.25

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.28	3.43	11.00	-7.57
Mid	5580	3.05	3.20	11.00	-7.80
High	5700	3.22	3.37	11.00	-7.63
144	5720	3.47	3.62	11.00	-7.38

9.4.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5510	70.95	-3.3	24.00	11.00
Mid	5550	70.00	-3.3	24.00	11.00
High	5670	68.84	-3.3	24.00	11.00
142	5710	69.22	-3.3	24.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	13.46	13.46	24.00	-10.54
Mid	5550	15.72	15.72	24.00	-8.28
High	5670	15.61	15.61	24.00	-8.39
142	5710	15.87	15.87	24.00	-8.13

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	-0.66	-0.37	11.00	-11.37
Mid	5550	-0.68	-0.39	11.00	-11.39
High	5670	-0.43	-0.14	11.00	-11.14
142	5710	2.99	3.28	11.00	-7.72

9.4.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.88	-3.3	24.00	11.00
High	5610	82.88	-3.3	24.00	11.00
138	5690	83.04	-3.3	24.00	11.00

Duty Cycle CF (dB)	0.56	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	14.37	14.37	24.00	-9.63
High	5610	14.83	14.83	24.00	-9.17
138	5690	14.84	14.84	24.00	-9.16

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-4.63	-4.07	11.00	-15.07
High	5610	-4.81	-4.25	11.00	-15.25
138	5690	-1.44	-0.88	11.00	-11.88

9.4.13. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 500KHz)
Low	5745	-3.30	30.00	30.00
Mid	5785	-3.30	30.00	30.00
High	5825	-3.30	30.00	30.00
144	5720	-3.30	30.00	30.00

Duty Cycle CF (dB)	0.14	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	16.83	16.830	30.00	-13.17
Mid	5785	16.85	16.850	30.00	-13.15
High	5825	16.92	16.920	30.00	-13.08
144	5720	16.55	16.550	30.00	-13.45

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	3.95	4.090	30.00	-25.91
Mid	5785	3.83	3.970	30.00	-26.03
High	5825	3.93	4.070	30.00	-25.93
144	5720	-0.60	-0.460	30.00	-30.46

9.4.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Low	5745	-3.30	30.00	30.00
Mid	5785	-3.30	30.00	30.00
High	5825	-3.30	30.00	30.00
144	5720	-3.30	30.00	30.00

Duty Cycle CF (dB)	0.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	16.74	16.74	30.00	-13.26
Mid	5785	16.75	16.75	30.00	-13.25
High	5825	16.85	16.85	30.00	-13.15
144	5720	16.75	16.75	30.00	-13.25

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	3.47	3.62	30.00	-26.38
Mid	5785	3.58	3.73	30.00	-26.27
High	5825	3.41	3.56	30.00	-26.44
144	5720	-0.81	-0.66	30.00	-30.66

9.4.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Low	5755	-3.30	30.00	30.00
High	5795	-3.30	30.00	30.00
142	5710	-3.30	30.00	30.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd PSD
--------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	15.81	15.81	30.00	-14.19
High	5795	15.76	15.76	30.00	-14.24
142	5710	15.87	15.87	30.00	-14.13

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	-0.47	-0.18	30.00	-30.18
High	5795	-0.50	-0.21	30.00	-30.21
142	5710	-0.05	0.24	30.00	-29.76

9.4.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Mid	5775	-3.30	30.00	30.00
138	5690	-3.30	30.00	30.00

Duty Cycle CF (dB)	0.56	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	14.85	14.85	30.00	-15.15
138	5690	14.84	14.84	30.00	-15.16

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5775	-4.34	-3.78	30.00	-33.78
138	5690	-11.78	-11.22	30.00	-41.22

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 - Restricted bands

FCC §15.407(b)(1-3) - Un-Restricted bands

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. Linear voltage averaging used for this test data.

The spectrum from 9 kHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

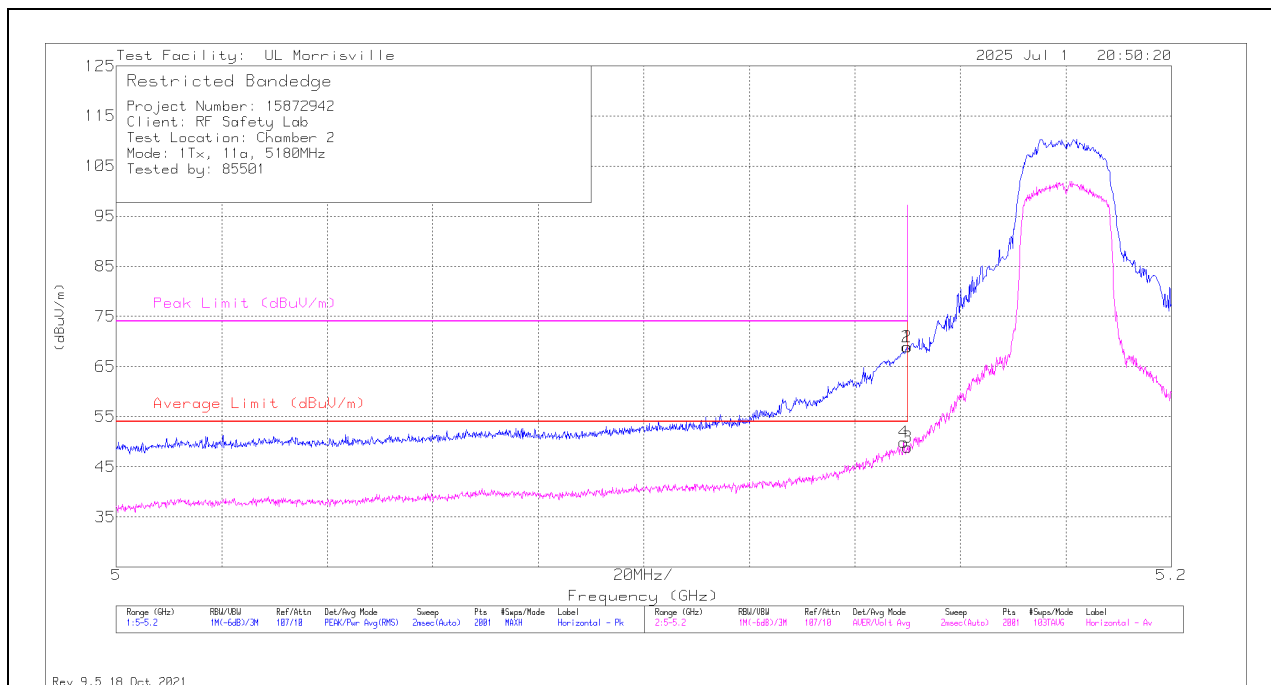
KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and the chamber measured test result is the worst-case test result.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	57.18	Pk	34.3	-22.5	0	68.98	-	-	74	-5.02	320	128	H
2	** 5.1499	57.17	Pk	34.3	-22.5	0	68.97	-	-	74	-5.03	320	128	H
3	*** 5.15	36.77	ADV	34.3	-22.5	.28	48.85	54	-5.15	-	-	320	128	H
4	** 5.1493	37.81	ADV	34.3	-22.5	.28	49.89	54	-4.11	-	-	320	128	H

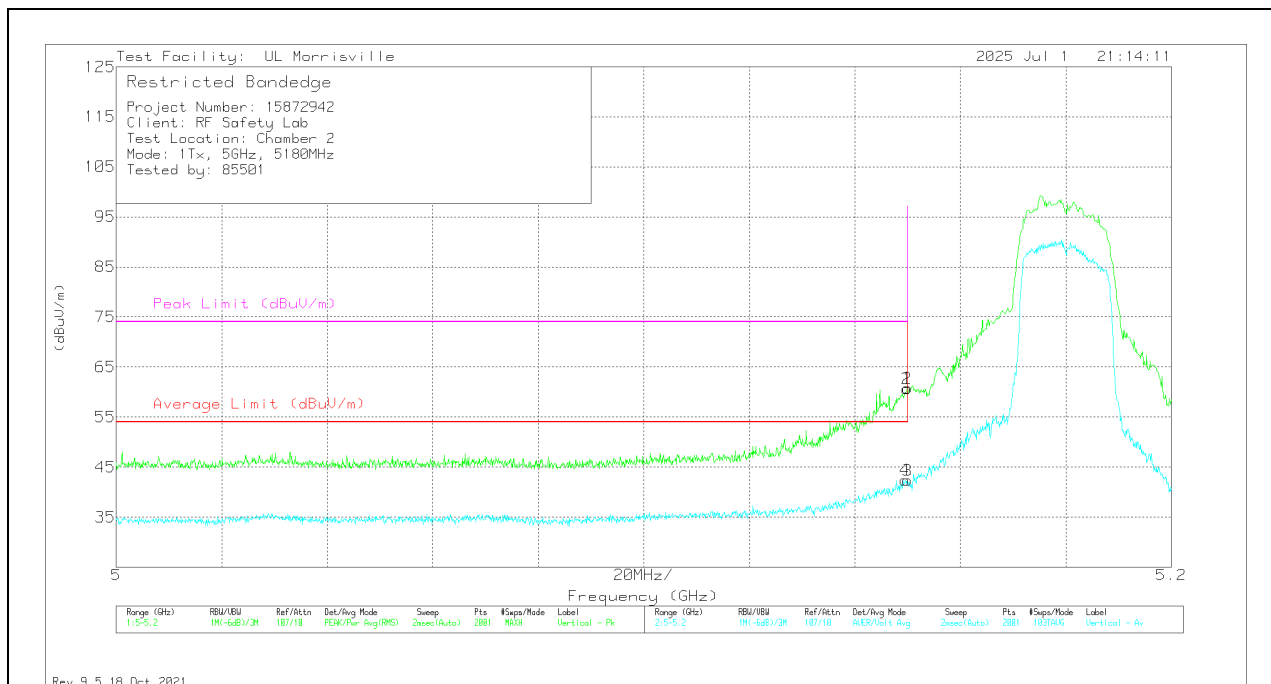
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.15	48.99	Pk	34.3	-22.5	0	60.79	-	-	74	-13.21	204	377	V
2	*** 5.1499	48.9	Pk	34.3	-22.5	0	60.7	-	-	74	-13.3	204	377	V
3	*** 5.15	30.24	ADV	34.3	-22.5	.28	42.32	54	-11.68	-	-	204	377	V
4	*** 5.1495	30.34	ADV	34.3	-22.5	.28	42.42	54	-11.58	-	-	204	377	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

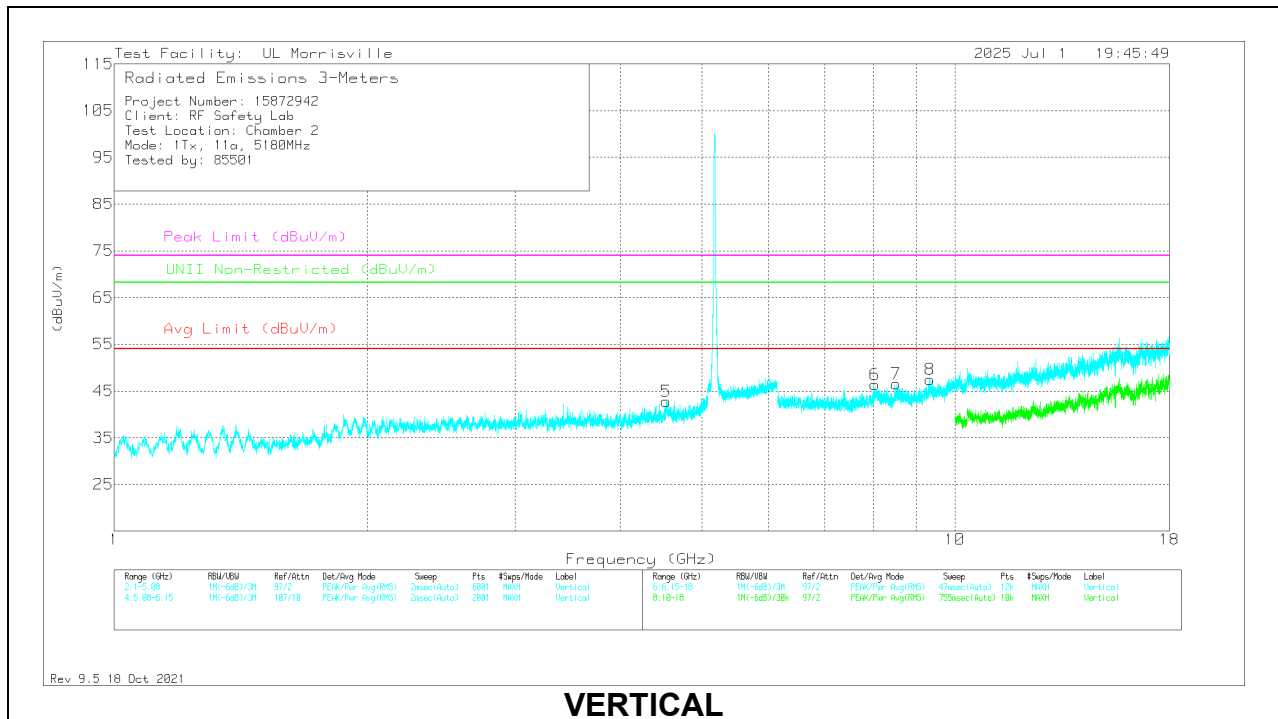
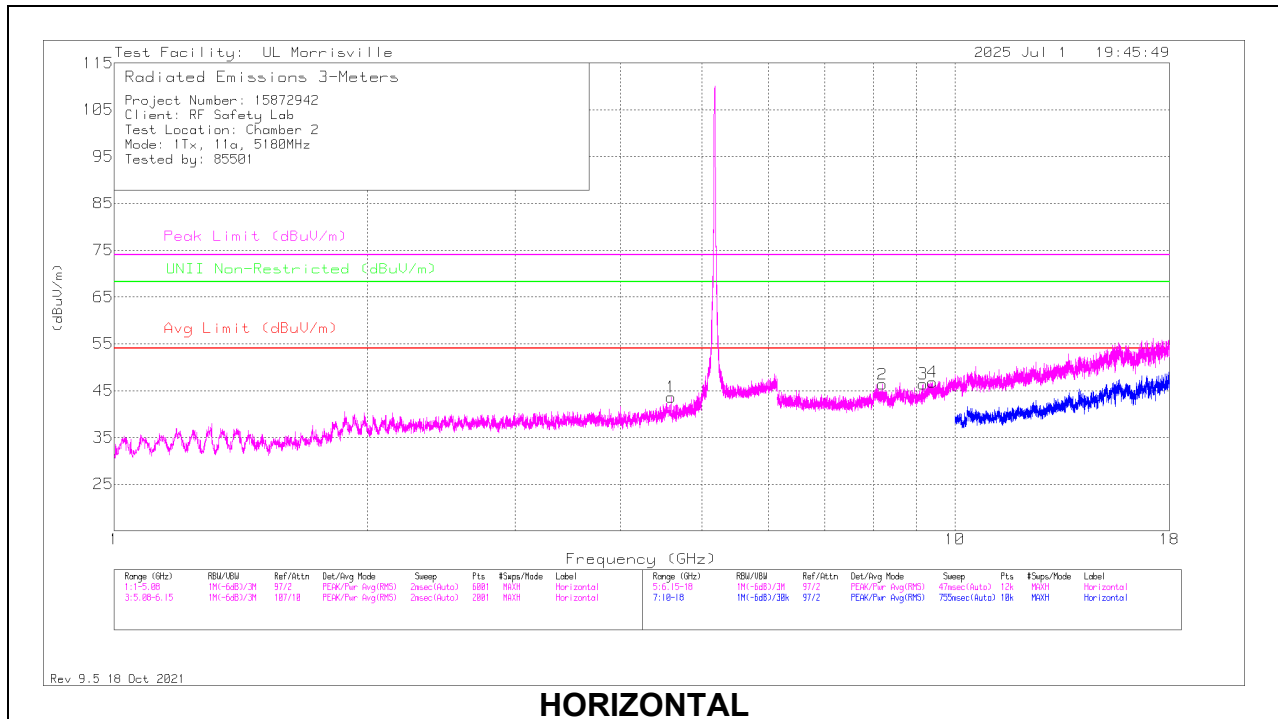
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

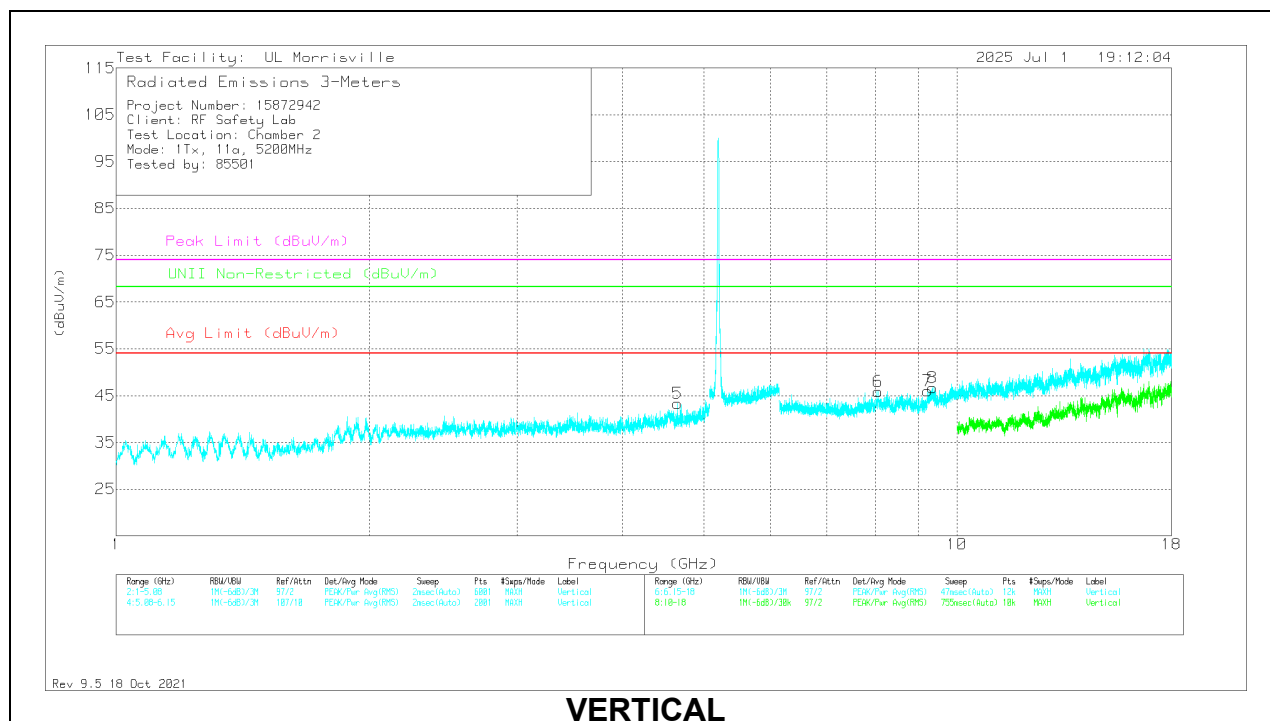
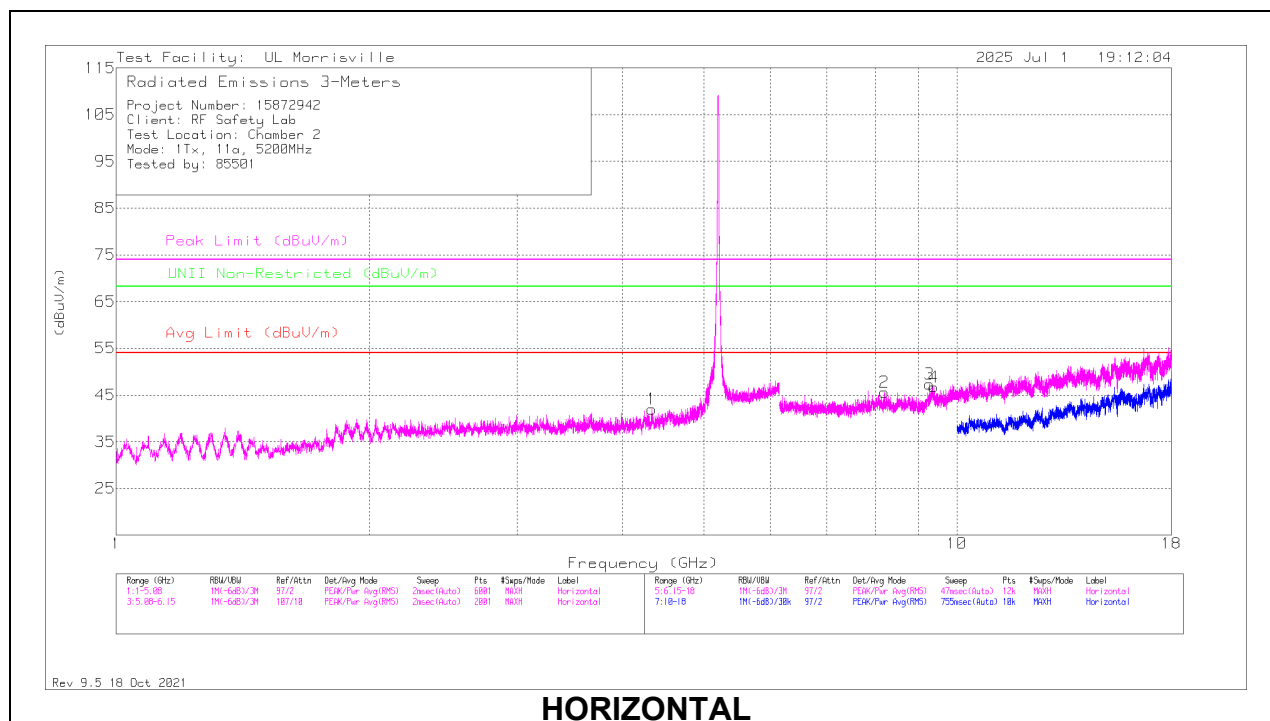
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.6006	54.72	Pk	33.9	-45	0	43.62	54	-10.38	74	-30.38	-	-	0-360	200	H
5	* ** 4.536	54.27	Pk	33.9	-45.4	0	42.77	54	-11.23	74	-31.23	-	-	0-360	101	V
2	* ** 8.20203	51.55	Pk	35.9	-41.1	0	46.35	54	-7.65	74	-27.65	-	-	0-360	101	H
3	* ** 9.16484	51	Pk	36	-40.6	0	46.4	54	-7.6	74	-27.6	-	-	0-360	199	H
4	* ** 9.39986	50.68	Pk	36.3	-40.2	0	46.78	54	-7.22	74	-27.22	-	-	0-360	101	H
6	* ** 8.03514	51.29	Pk	35.9	-40.8	0	46.39	54	-7.61	74	-27.61	-	-	0-360	101	V
8	* ** 9.34654	51.11	Pk	36.2	-39.8	0	47.51	54	-6.49	74	-26.49	-	-	0-360	101	V
7	8.51408	51.09	Pk	35.8	-40.3	0	46.59	-	-	-	-	68.2	-21.61	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

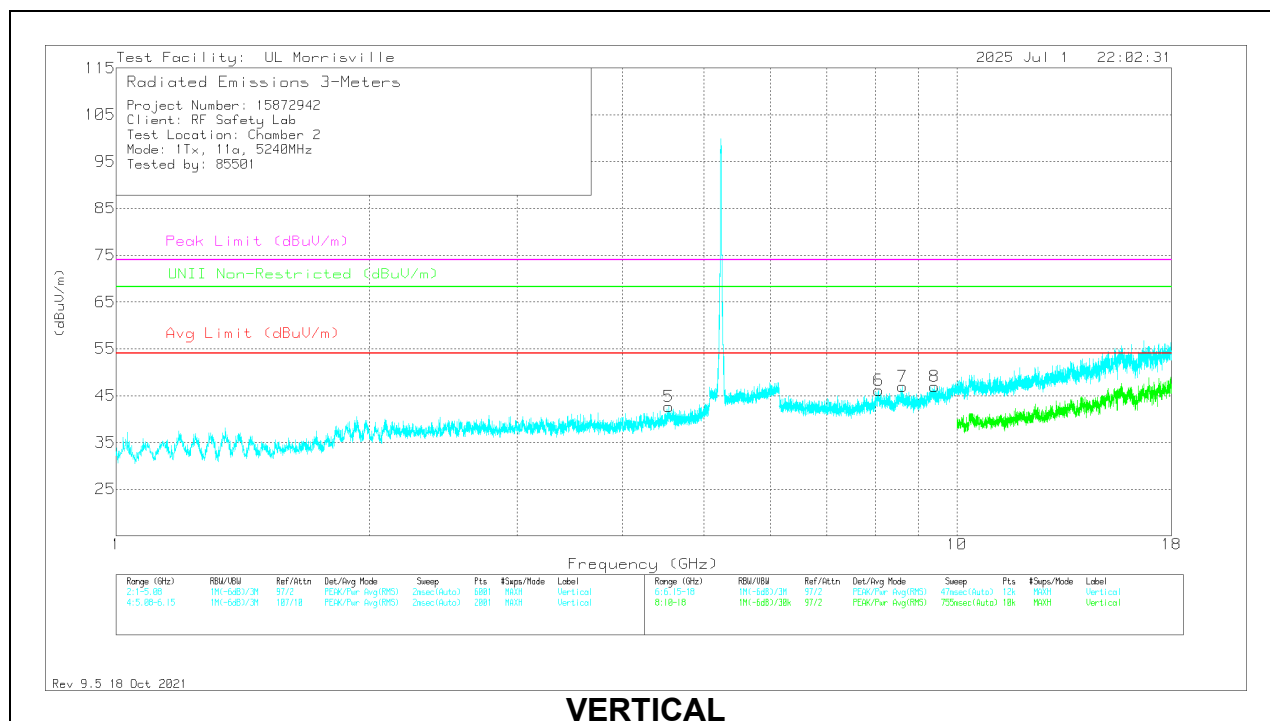
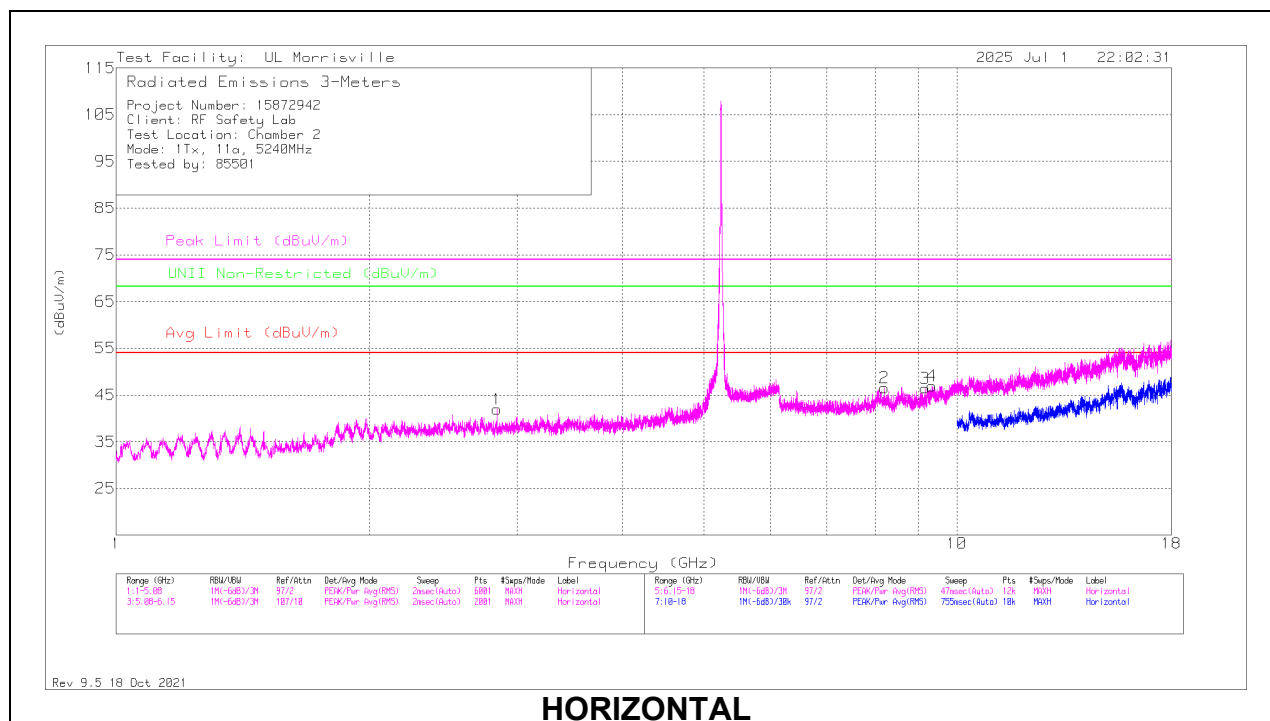
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.33608	53.64	Pk	33.7	-45.4	0	41.94	54	-12.06	74	-32.06	-	-	0-360	100	H
5	* ** 4.655	54.4	Pk	33.8	-44.9	0	43.3	54	-10.7	74	-30.7	-	-	0-360	200	V
2	* ** 8.20598	50.63	Pk	35.9	-40.9	0	45.63	54	-8.37	74	-28.37	-	-	0-360	200	H
4	* ** 9.39394	50.84	Pk	36.3	-40.4	0	46.74	54	-7.26	74	-27.26	-	-	0-360	101	H
6	* ** 8.05686	50.31	Pk	35.9	-40.3	0	45.91	54	-8.09	74	-28.09	-	-	0-360	200	V
8	* ** 9.36333	50.7	Pk	36.2	-40.2	0	46.7	54	-7.3	74	-27.3	-	-	0-360	101	V
7	9.22606	50.62	Pk	36	-40.6	0	46.02	-	-	-	-	68.2	-22.18	0-360	200	V
3	9.27346	51.85	Pk	36.1	-40.6	0	47.35	-	-	-	-	68.2	-20.85	0-360	200	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.83668	55.93	Pk	32.5	-46.5	0	41.93	54	-12.07	74	-32.07	-	-	0-360	101	H
5	* ** 4.5462	53.77	Pk	33.9	-45	0	42.67	54	-11.33	74	-31.33	-	-	0-360	101	V
2	* ** 8.1961	51.96	Pk	35.9	-41.3	0	46.56	54	-7.44	74	-27.44	-	-	0-360	199	H
3	* ** 9.1678	51.07	Pk	36	-40.6	0	46.47	54	-7.53	74	-27.53	-	-	0-360	101	H
4	* ** 9.34753	50.54	Pk	36.2	-39.8	0	46.94	54	-7.06	74	-27.06	-	-	0-360	101	H
6	* ** 8.07661	51.03	Pk	35.9	-40.8	0	46.13	54	-7.87	74	-27.87	-	-	0-360	200	V
8	* ** 9.40085	50.92	Pk	36.3	-40.3	0	46.92	54	-7.08	74	-27.08	-	-	0-360	101	V
7	8.61283	51.31	Pk	35.7	-40.1	0	46.91	-	-	-	-	68.2	-21.29	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

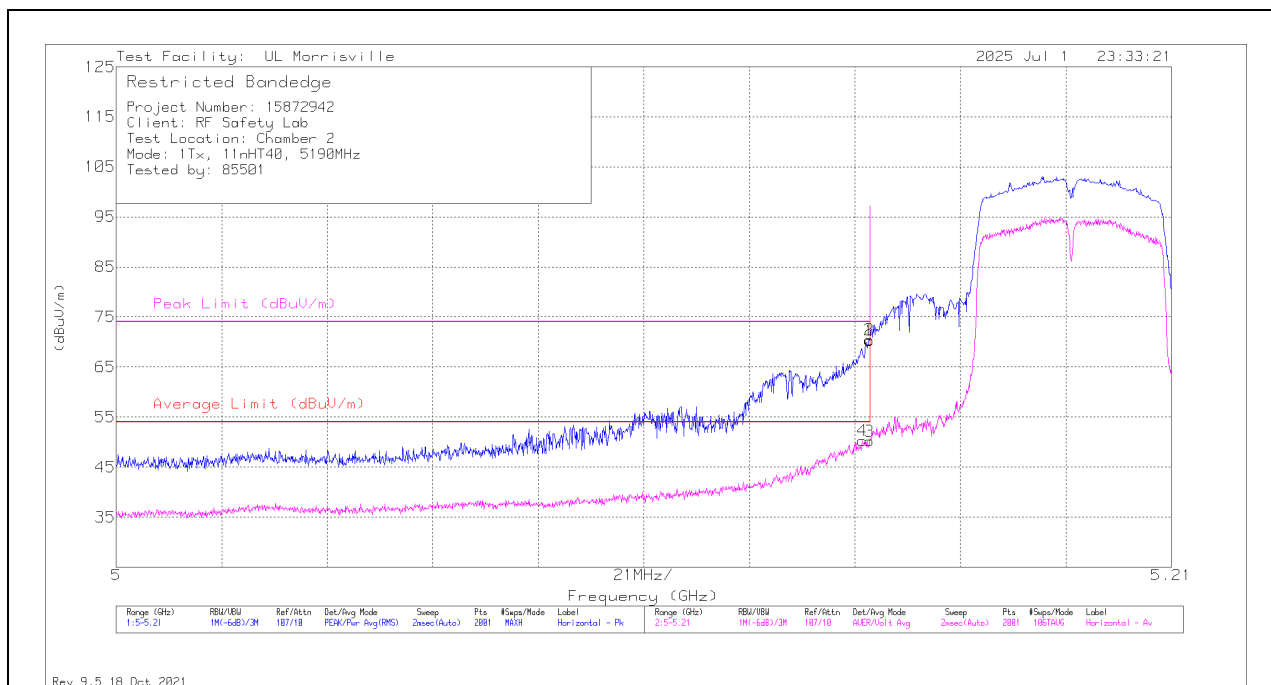
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14994	58.53	Pk	34.3	-22.5	0	70.33	-	-	74	-3.67	271	117	H
2	* ** 5.14984	58.67	Pk	34.3	-22.5	0	70.47	-	-	74	-3.53	271	117	H
3	* ** 5.14994	37.84	ADV	34.3	-22.5	.57	50.21	54	-3.79	-	-	271	117	H
4	* ** 5.14847	37.86	ADV	34.3	-22.4	.57	50.33	54	-3.67	-	-	271	117	H

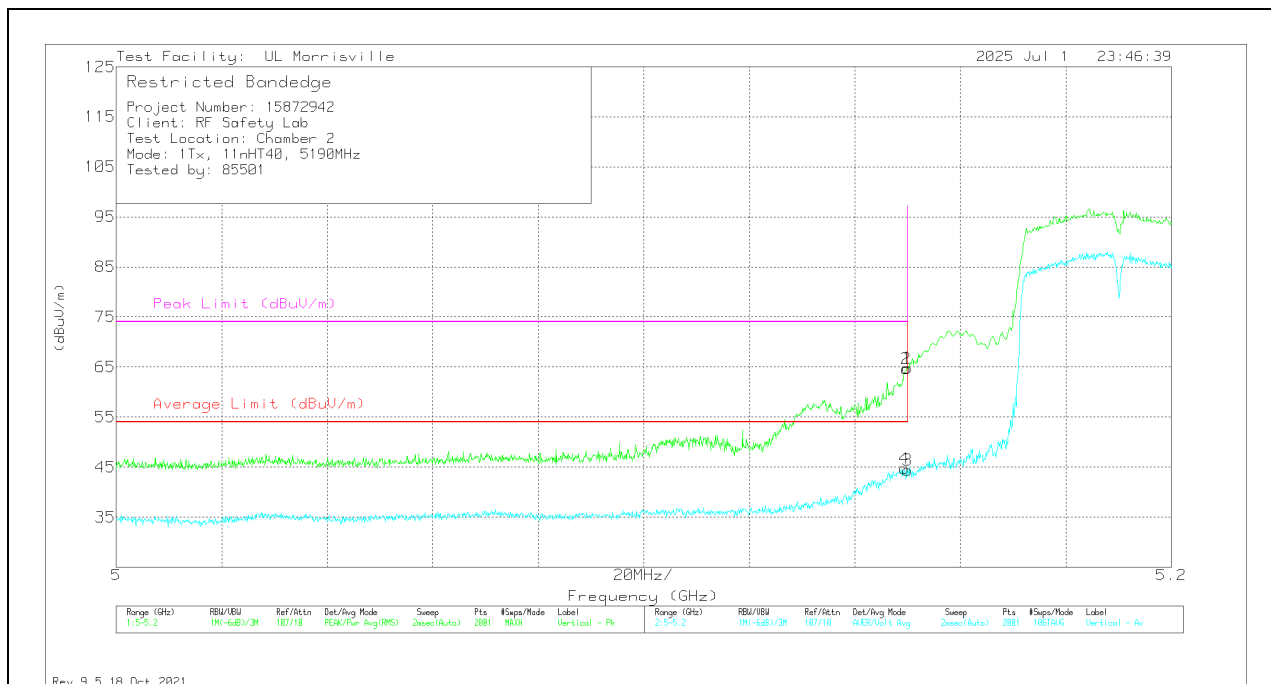
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	53	Pk	34.3	-22.5	0	64.8	-	-	74	-9.2	221	116	V
2	* ** 5.1498	52.9	Pk	34.3	-22.5	0	64.7	-	-	74	-9.3	221	116	V
3	* ** 5.15	32.03	ADV	34.3	-22.5	.57	44.4	54	-9.6	-	-	221	116	V
4	* ** 5.1494	32.35	ADV	34.3	-22.5	.57	44.72	54	-9.28	-	-	221	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

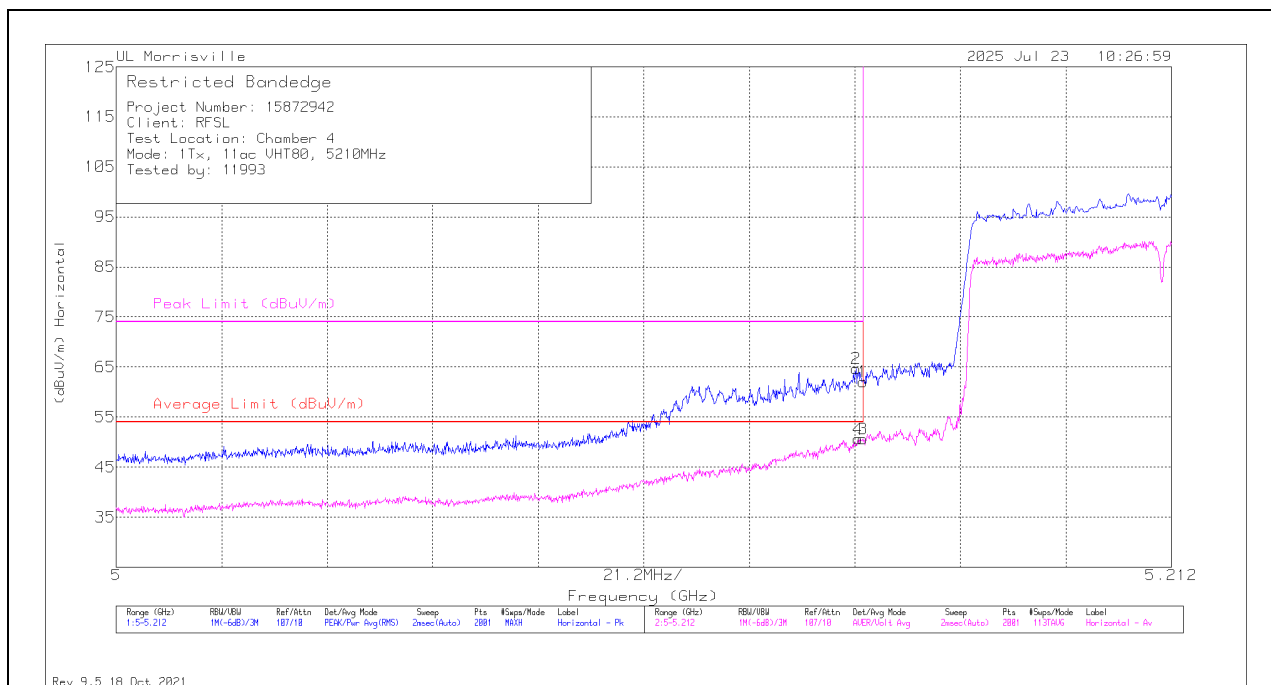
Pk - Peak detector

ADV - Linear Voltage Average

10.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	47.28	Pk	34.1	-19.3	0	62.08	-	-	74	-11.92	18	115	H
2	* ** 5.14861	49.99	Pk	34.1	-19.4	0	64.69	-	-	74	-9.31	18	115	H
3	* ** 5.14999	34.67	ADV	34.1	-19.3	1.12	50.59	54	-3.41	-	-	18	115	H
4	* ** 5.14904	34.76	ADV	34.1	-19.4	1.12	50.58	54	-3.42	-	-	18	115	H

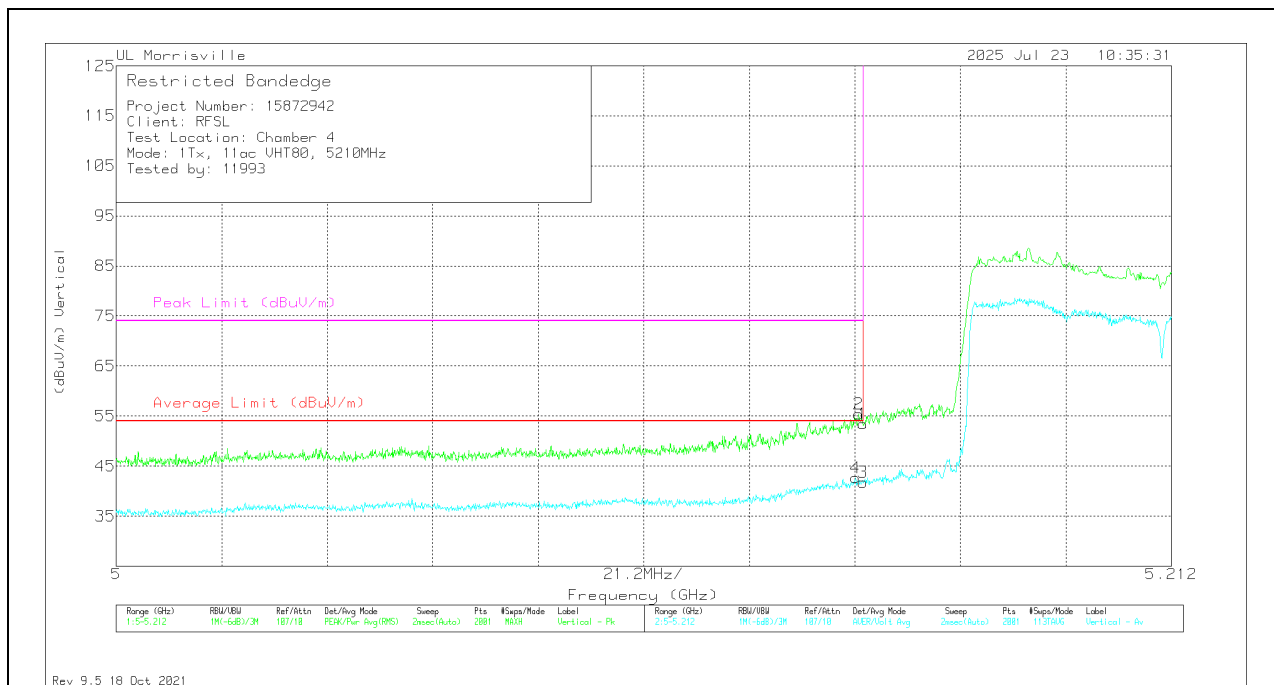
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	38.66	Pk	34.1	-19.3	0	53.46	-	-	74	-20.54	275	386	V
2	*** 5.14914	40.7	Pk	34.1	-19.4	0	55.4	-	-	74	-18.6	275	386	V
3	*** 5.14999	25.86	ADV	34.1	-19.3	1.12	41.78	54	-12.22	-	-	275	386	V
4	*** 5.14851	26.87	ADV	34.1	-19.4	1.12	42.69	54	-11.31	-	-	275	386	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

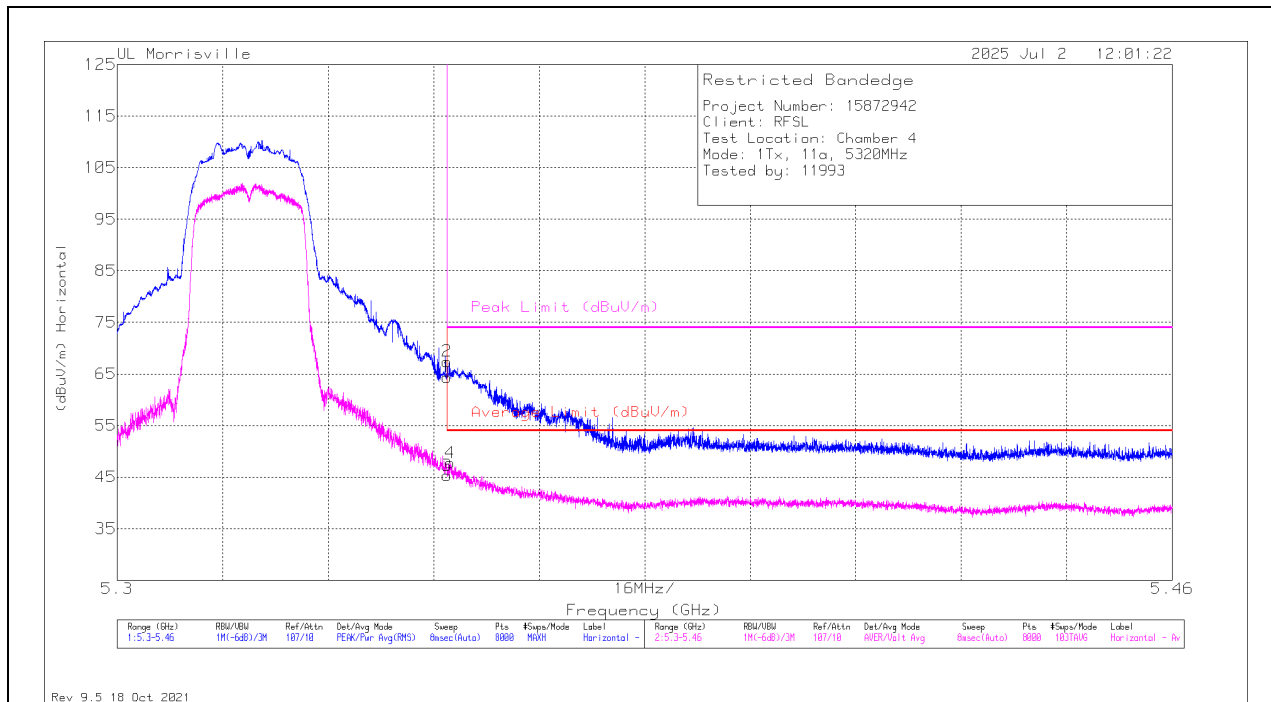
Pk - Peak detector

ADV - Linear Voltage Average

10.1.4. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	49.38	Pk	34.4	-19.4	0	64.38	-	-	74	-9.62	27	133	H
2	* ** 5.35005	52.43	Pk	34.4	-19.4	0	67.43	-	-	74	-6.57	27	133	H
3	* ** 5.35001	30.01	ADV	34.4	-19.4	.28	45.29	54	-8.71	-	-	27	133	H
4	* ** 5.35053	32.47	ADV	34.4	-19.4	.28	47.75	54	-6.25	-	-	27	133	H

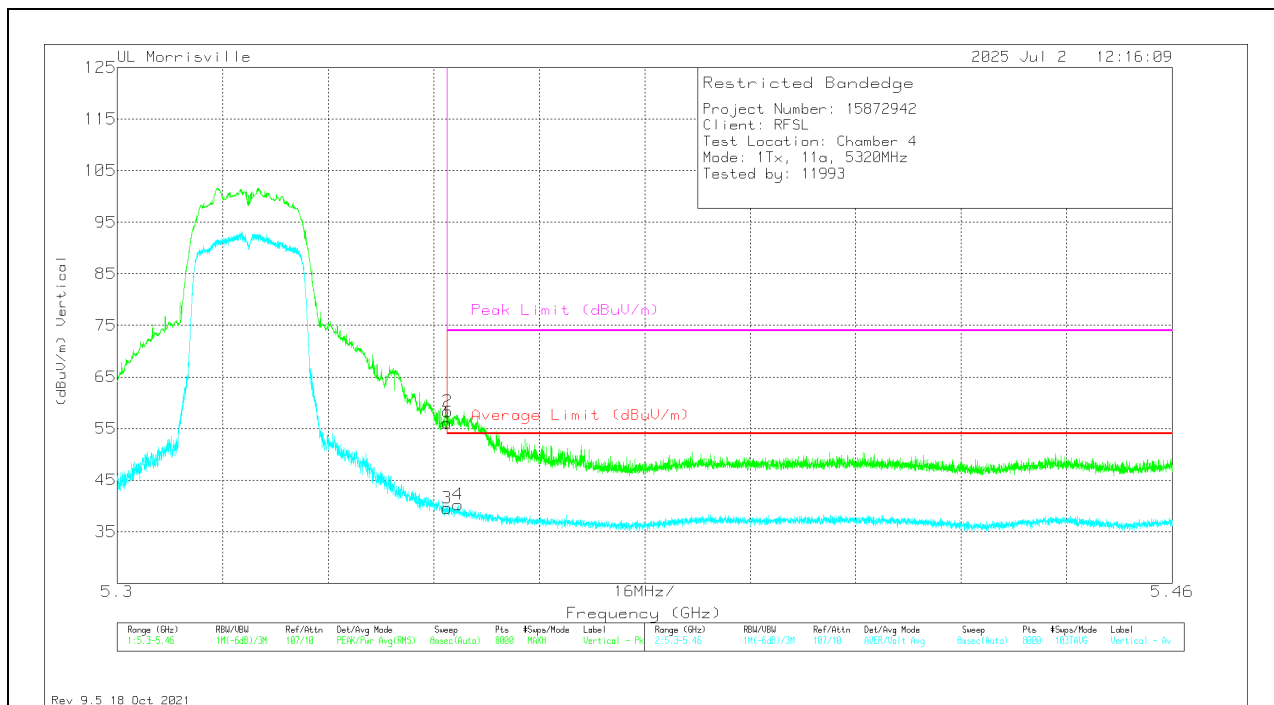
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	41.04	Pk	34.4	-19.4	0	56.04	-	-	74	-17.96	287	110	V
2	* ** 5.35013	43.32	Pk	34.4	-19.4	0	58.32	-	-	74	-15.68	287	110	V
3	* ** 5.35001	24.26	ADV	34.4	-19.4	.28	39.54	54	-14.46	-	-	287	110	V
4	* ** 5.35169	24.97	ADV	34.4	-19.4	.28	40.25	54	-13.75	-	-	287	110	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

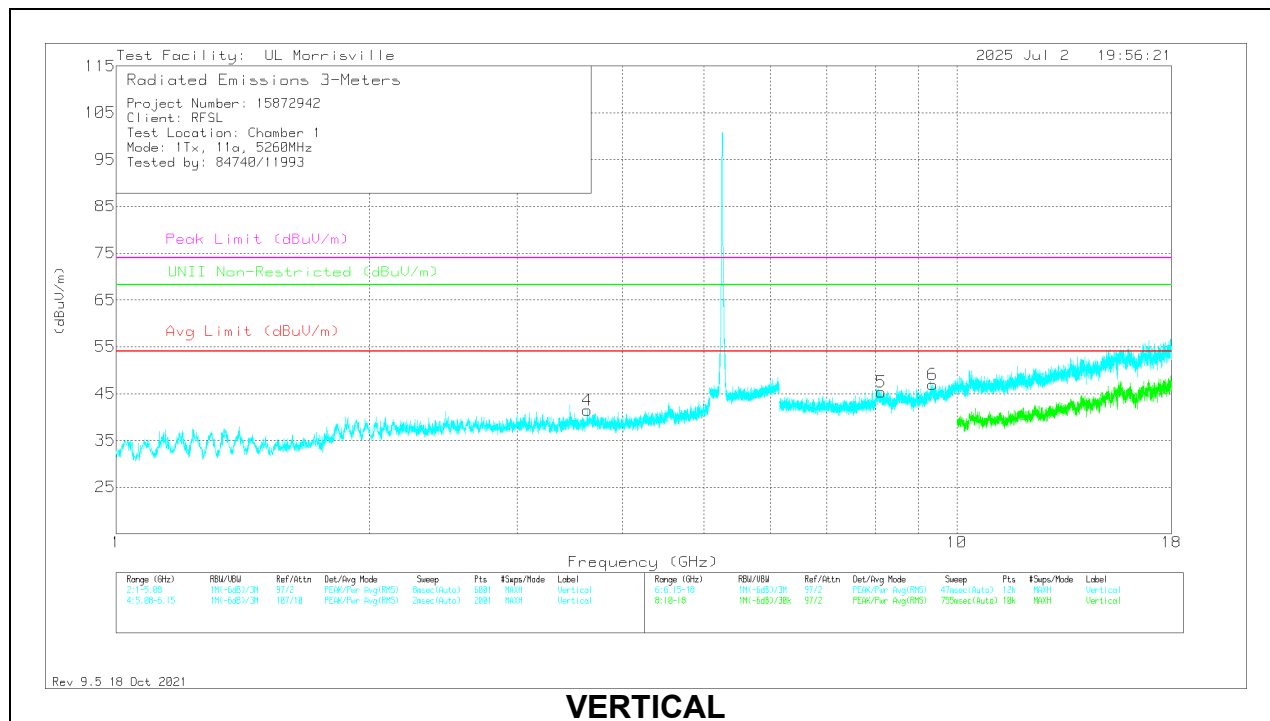
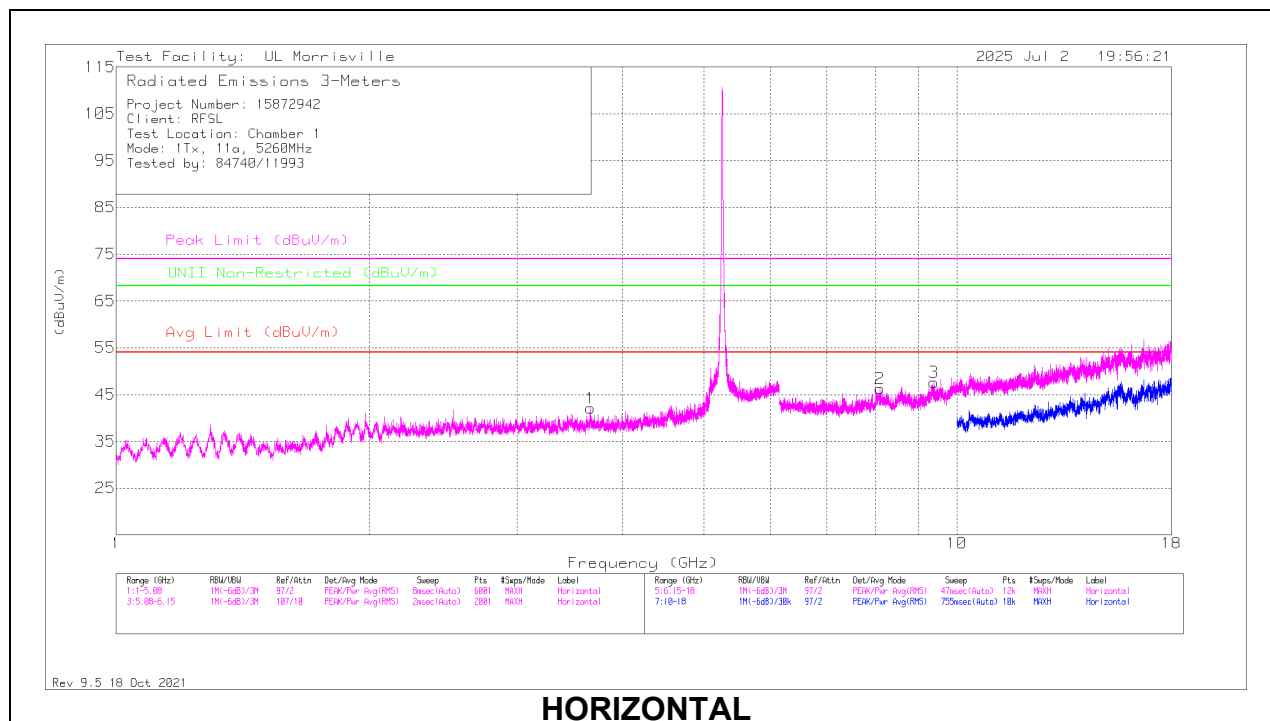
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

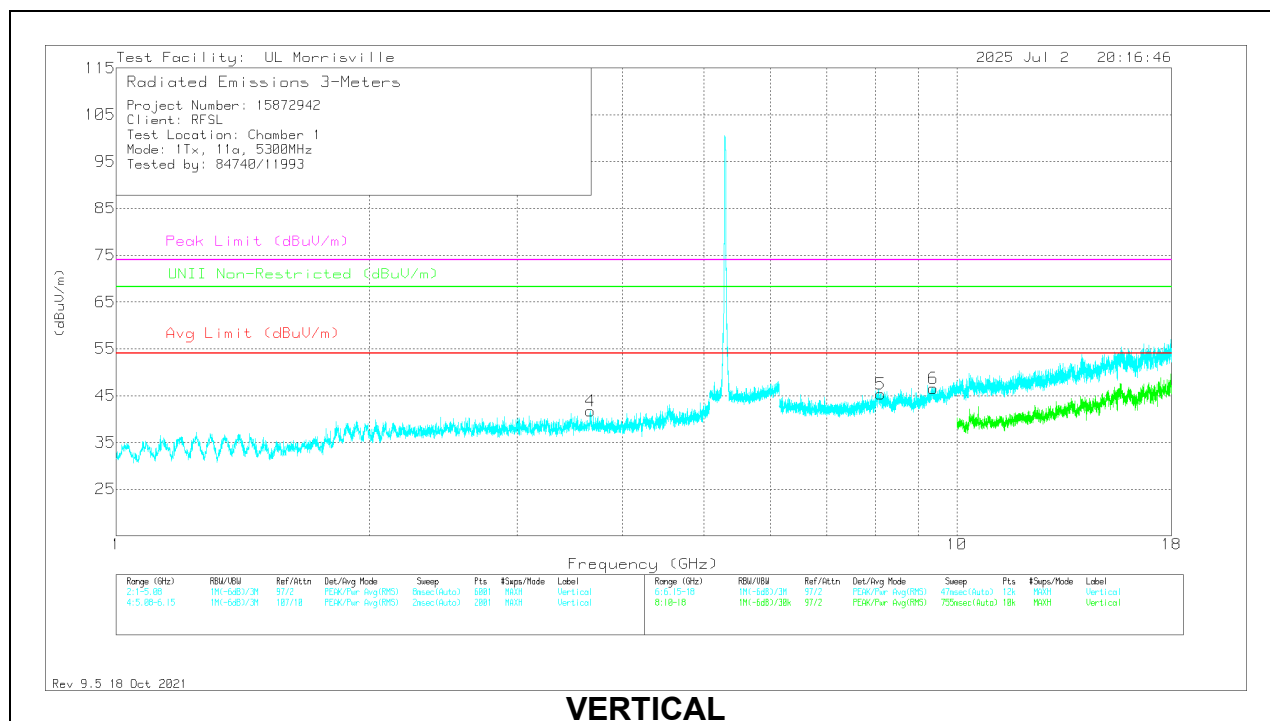
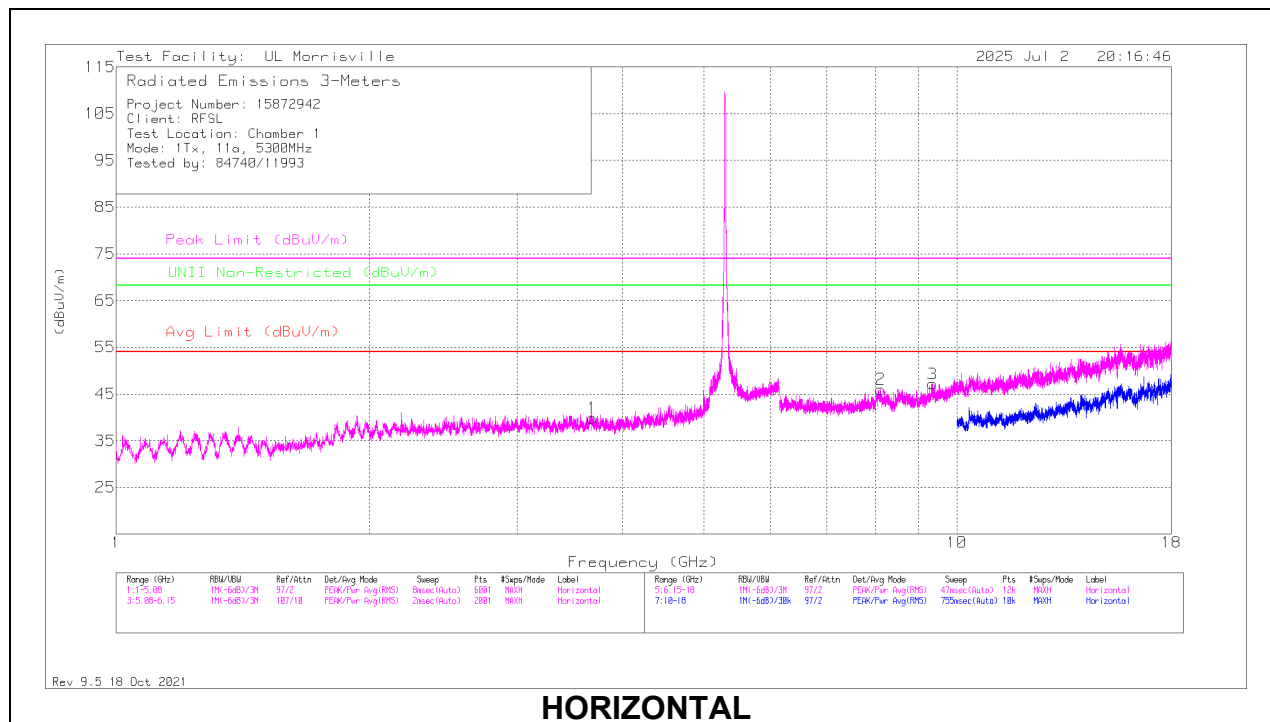
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.66424	52.96	Pk	33.1	-44	42.06	54	-11.94	74	-31.94	-	-	0-360	200	H
4	* ** 3.635	53.03	Pk	33.1	-44.7	41.43	54	-12.57	74	-32.57	-	-	0-360	101	V
2	* ** 8.09538	51.61	Pk	35.9	-41.2	46.31	54	-7.69	74	-27.69	-	-	0-360	101	H
3	* ** 9.38308	51.75	Pk	36.2	-40.3	47.65	54	-6.35	74	-26.35	-	-	0-360	200	H
5	* ** 8.12994	50.19	Pk	35.9	-40.7	45.39	54	-8.61	74	-28.61	-	-	0-360	200	V
6	* ** 9.36333	50.97	Pk	36.2	-40.2	46.97	54	-7.03	74	-27.03	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

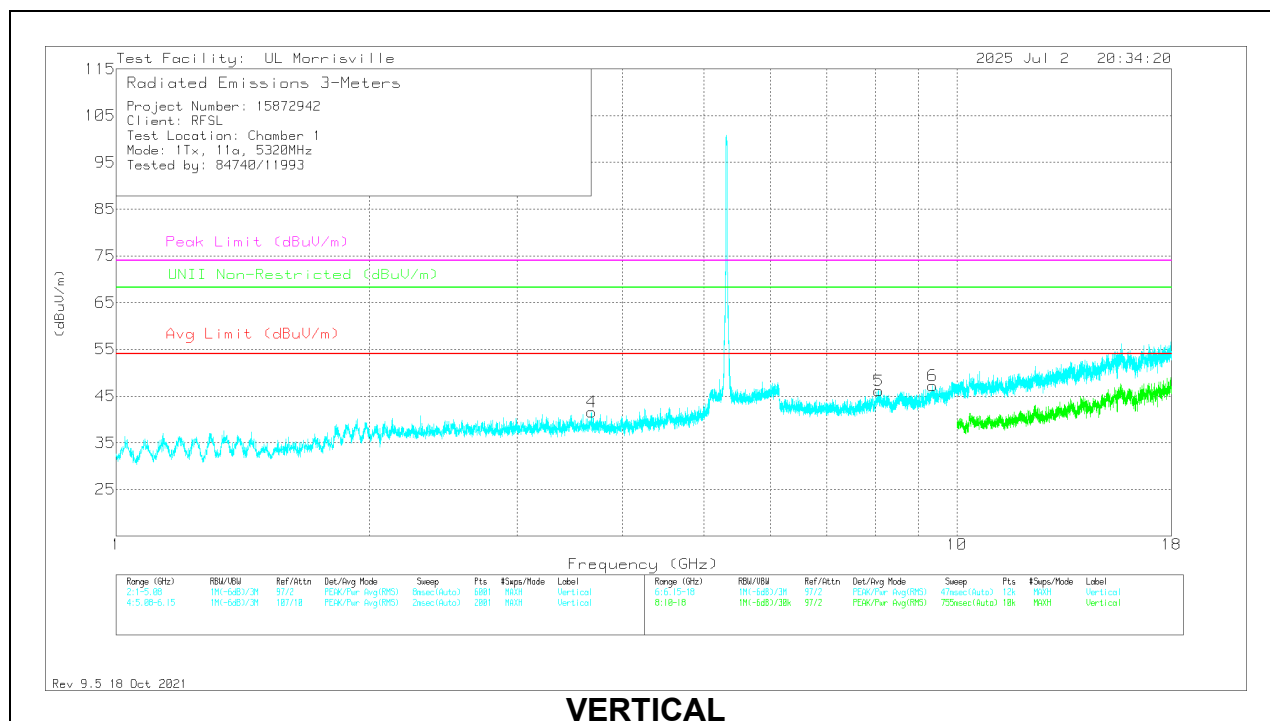
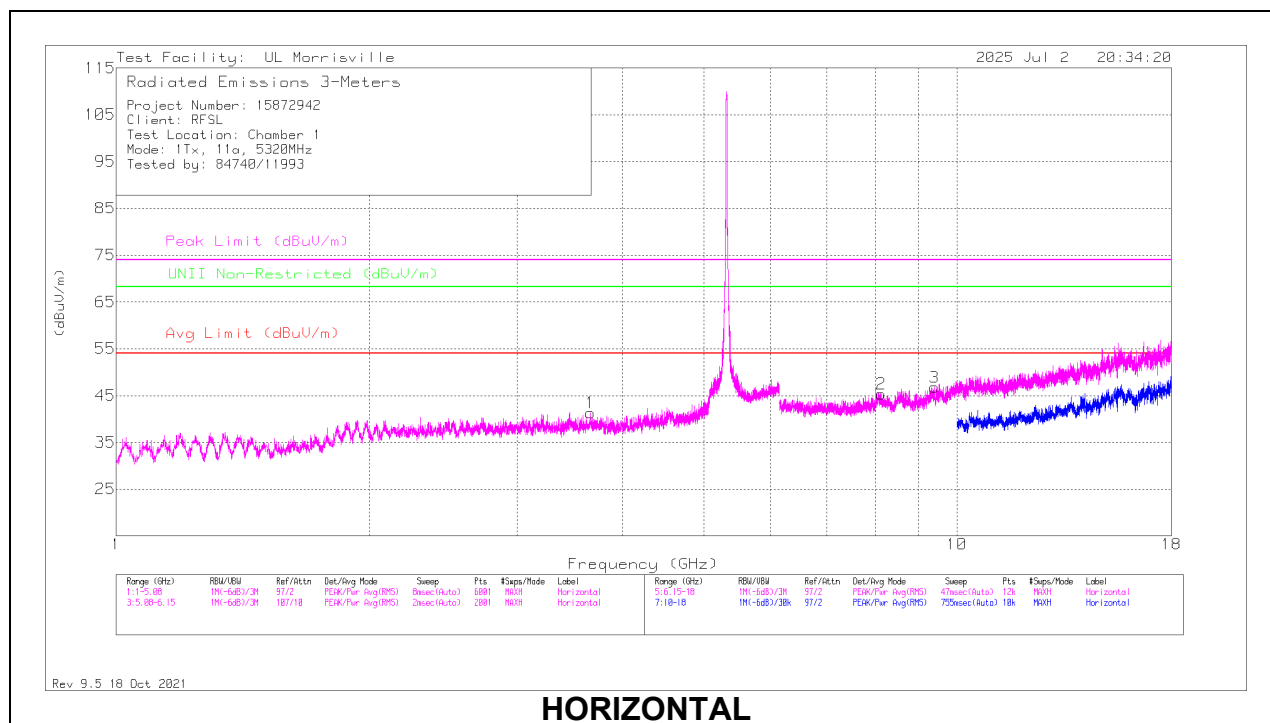
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.68532	51.7	Pk	33.2	-45.1	39.8	54	-14.2	74	-34.2	-	-	0-360	200	H
4	* ** 3.66628	52.6	Pk	33.1	-44	41.7	54	-12.3	74	-32.3	-	-	0-360	200	V
2	* ** 8.1092	51.36	Pk	35.9	-41.2	46.06	54	-7.94	74	-27.94	-	-	0-360	200	H
3	* ** 9.35543	50.75	Pk	36.2	-39.8	47.15	54	-6.85	74	-26.85	-	-	0-360	101	H
5	* ** 8.1092	50.63	Pk	35.9	-41.2	45.33	54	-8.67	74	-28.67	-	-	0-360	101	V
6	* ** 9.3811	50.54	Pk	36.2	-40.2	46.54	54	-7.46	74	-27.46	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.66424	52.21	Pk	33.1	-44	41.31	54	-12.69	74	-32.69	-	-	0-360	101	H
4	* ** 3.6792	53.08	Pk	33.2	-44.7	41.58	54	-12.42	74	-32.42	-	-	0-360	200	V
2	* ** 8.1329	50.13	Pk	35.9	-40.7	45.33	54	-8.67	74	-28.67	-	-	0-360	101	H
3	* ** 9.40184	50.75	Pk	36.3	-40.3	46.75	54	-7.25	74	-27.25	-	-	0-360	200	H
5	* ** 8.07365	50.99	Pk	35.9	-40.8	46.09	54	-7.91	74	-27.91	-	-	0-360	200	V
6	* ** 9.35444	50.79	Pk	36.2	-39.8	47.19	54	-6.81	74	-26.81	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

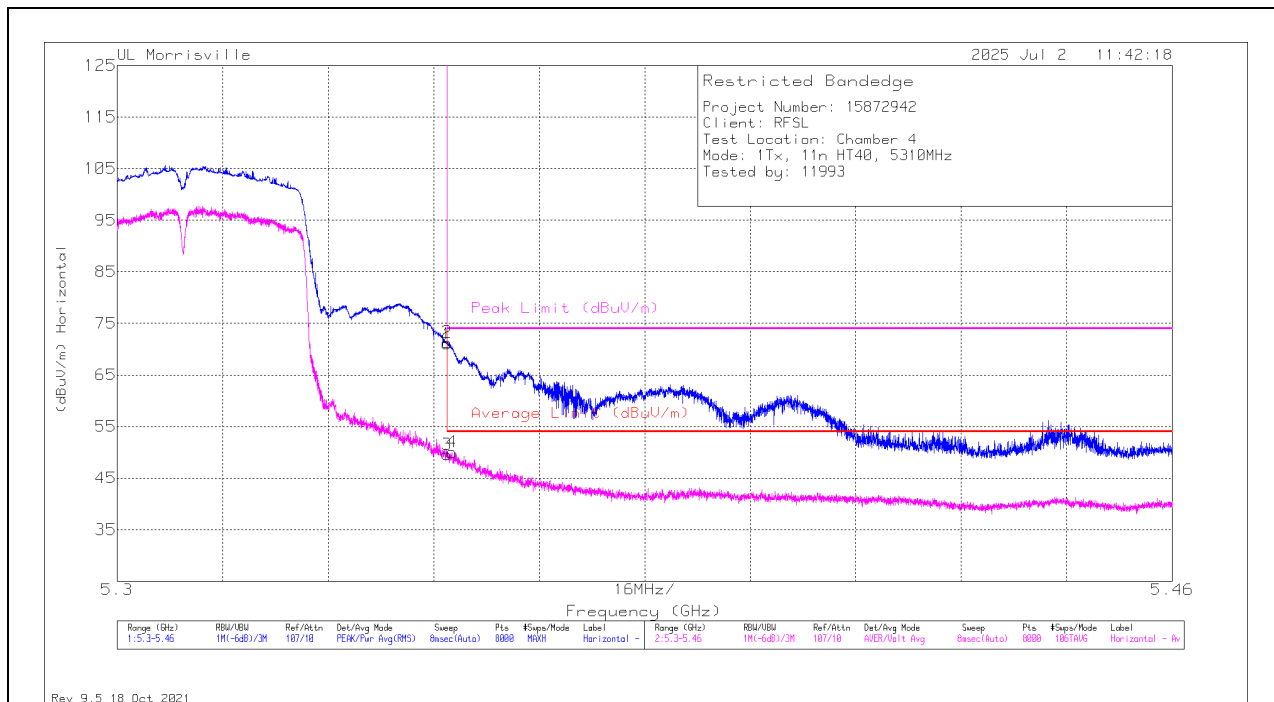
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	56.02	Pk	34.4	-19.4	0	71.02	-	-	74	-2.98	22	119	H
2	*** 5.35003	56.28	Pk	34.4	-19.4	0	71.28	-	-	74	-2.72	22	119	H
3	* ** 5.35001	33.99	ADV	34.4	-19.4	.57	49.56	54	-4.44	-	-	22	119	H
4	* ** 5.35077	34.45	ADV	34.4	-19.4	.57	50.02	54	-3.98	-	-	22	119	H

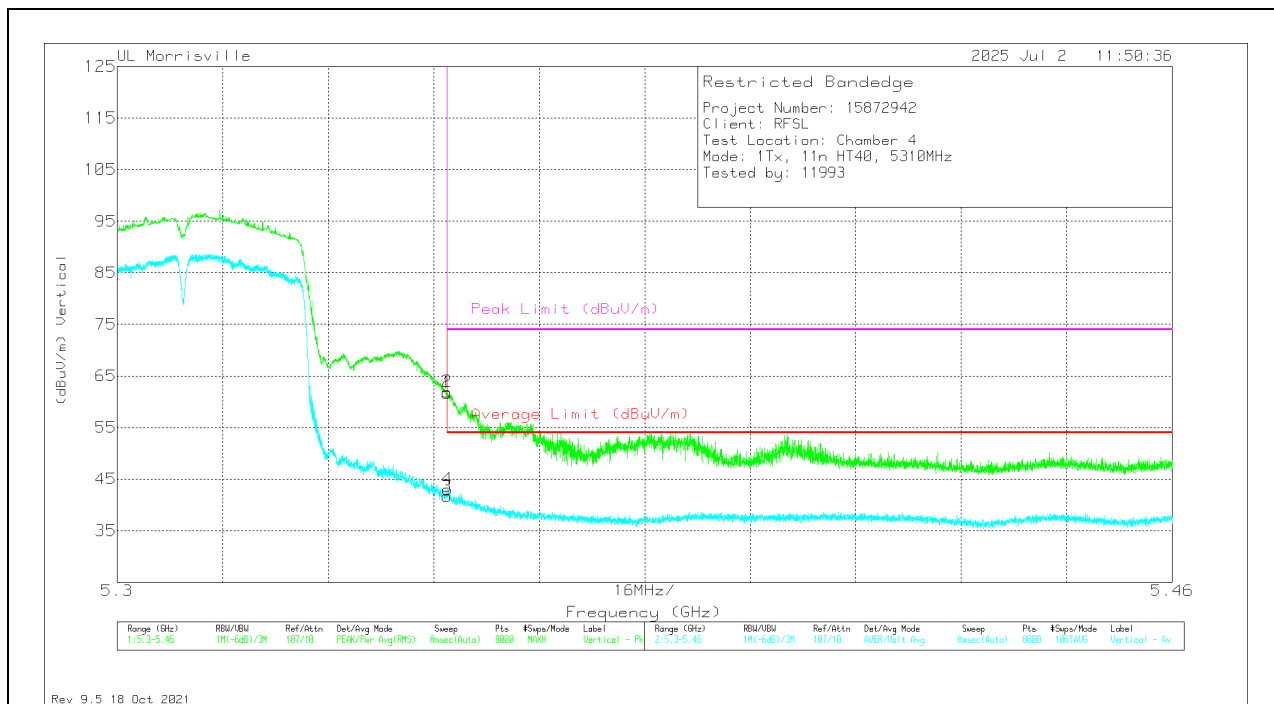
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	46.72	Pk	34.4	-19.4	0	61.72	-	-	74	-12.28	289	110	V
2	* ** 5.35003	46.94	Pk	34.4	-19.4	0	61.94	-	-	74	-12.06	289	110	V
3	* ** 5.35001	26.08	ADV	34.4	-19.4	.57	41.65	54	-12.35	-	-	289	110	V
4	* ** 5.35013	27.47	ADV	34.4	-19.4	.57	43.04	54	-10.96	-	-	289	110	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

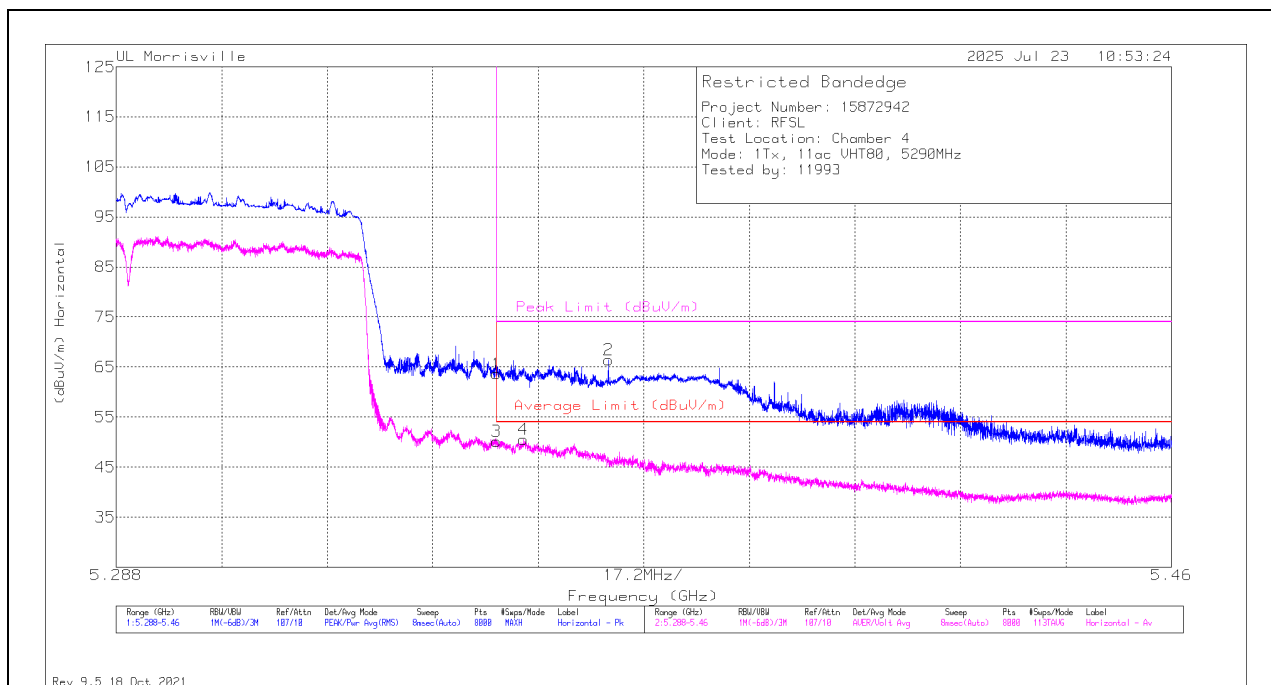
Pk - Peak detector

ADV - Linear Voltage Average

10.1.6. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	48.62	Pk	34.4	-19.4	0	63.62	-	-	74	-10.38	33	101	H
2	* ** 5.36823	51.82	Pk	34.4	-19.8	0	66.42	-	-	74	-7.58	33	101	H
3	* ** 5.35001	34.07	ADV	34.4	-19.4	1.12	50.19	54	-3.81	-	-	33	100	H
4	* ** 5.35438	34.54	ADV	34.4	-19.5	1.12	50.56	54	-3.44	-	-	33	100	H

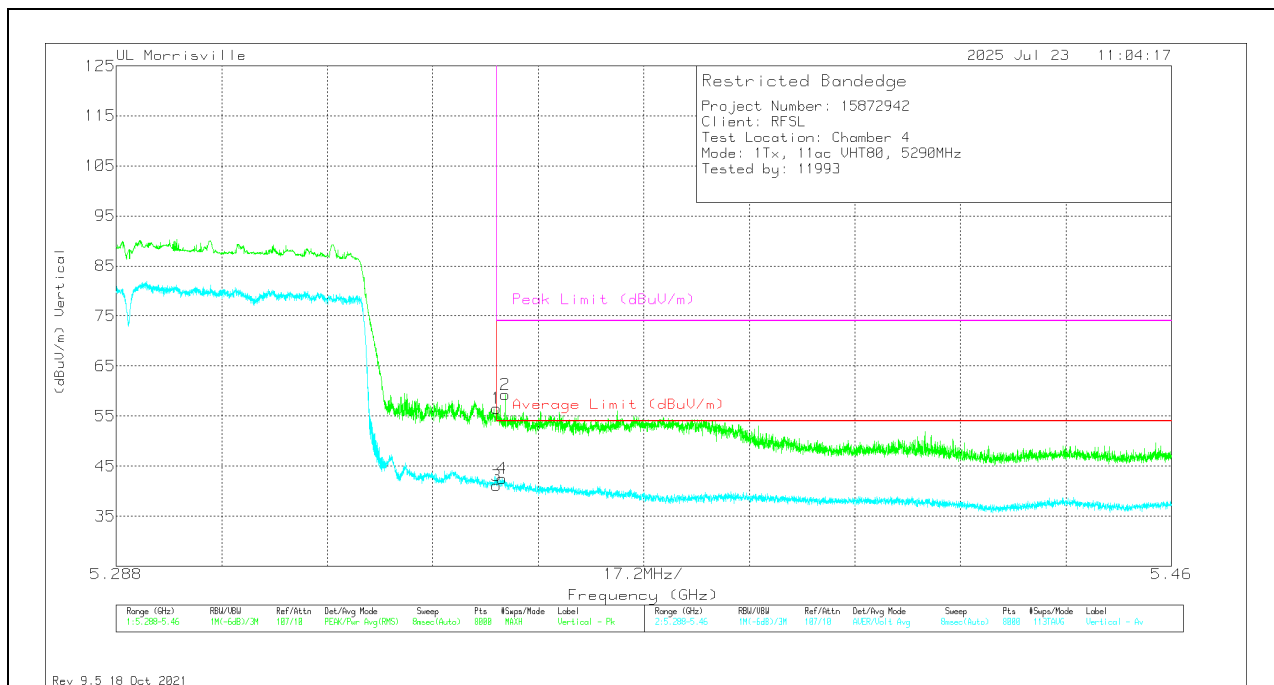
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	41.58	Pk	34.4	-19.4	0	56.58	-	-	74	-17.42	288	114	V
2	*** 5.35139	44.25	Pk	34.4	-19.4	0	59.25	-	-	74	-14.75	288	114	V
3	*** 5.35001	24.95	ADV	34.4	-19.4	1.12	41.07	54	-12.93	-	-	288	114	V
4	*** 5.35094	26.34	ADV	34.4	-19.4	1.12	42.46	54	-11.54	-	-	288	114	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

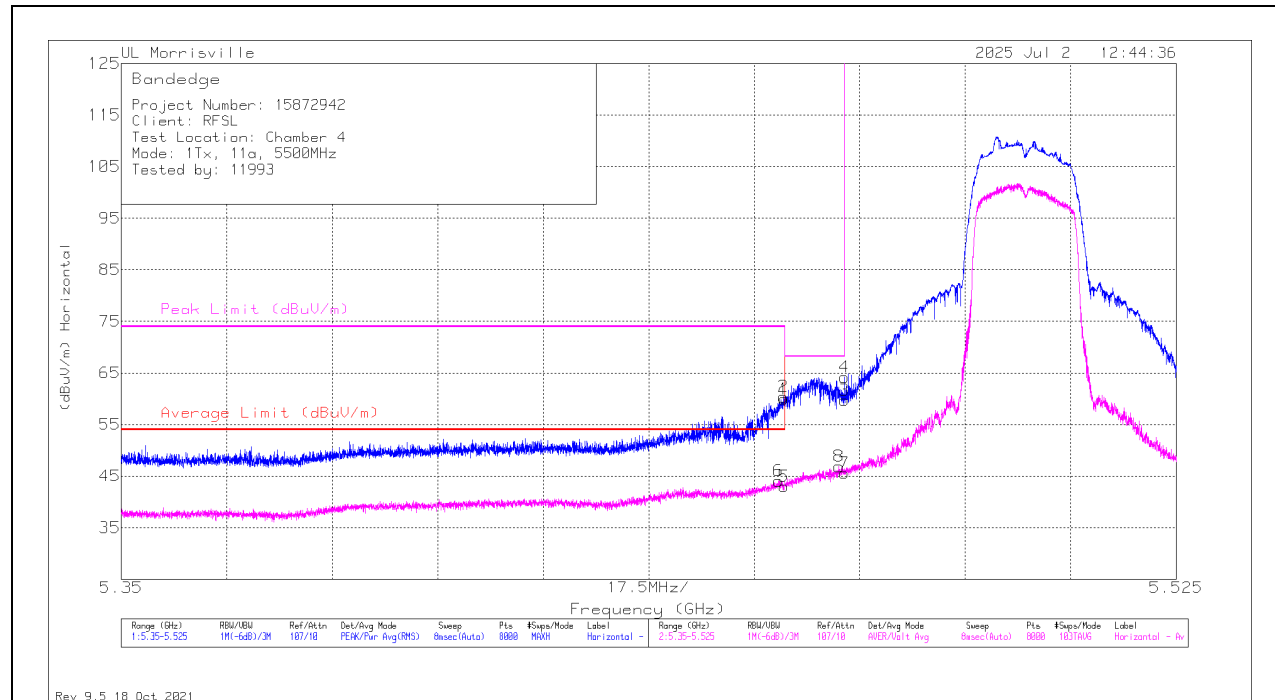
Pk - Peak detector

ADV - Linear Voltage Average

10.1.7. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	44.24	Pk	34.4	-18.7	0	59.94	-	-	74	-14.06	18	125	H
2	* ** 5.45985	44.69	Pk	34.4	-18.7	0	60.39	-	-	74	-13.61	18	125	H
5	* ** 5.45998	27.02	ADV	34.4	-18.7	.28	43.00	54	-11.00	-	-	18	125	H
6	* ** 5.459	28.17	ADV	34.4	-18.8	.28	44.05	54	-9.95	-	-	18	125	H
8	5.46906	30.47	ADV	34.4	-18.3	.28	46.85	-	-	-	-	18	125	H
4	5.46996	48.07	Pk	34.4	-18.3	0	64.17	-	-	68.2	-4.03	18	125	H
3	5.46998	43.58	Pk	34.4	-18.3	0	59.68	-	-	68.2	-8.52	18	125	H
7	5.46998	29.18	ADV	34.4	-18.3	.28	45.56	-	-	-	-	18	125	H

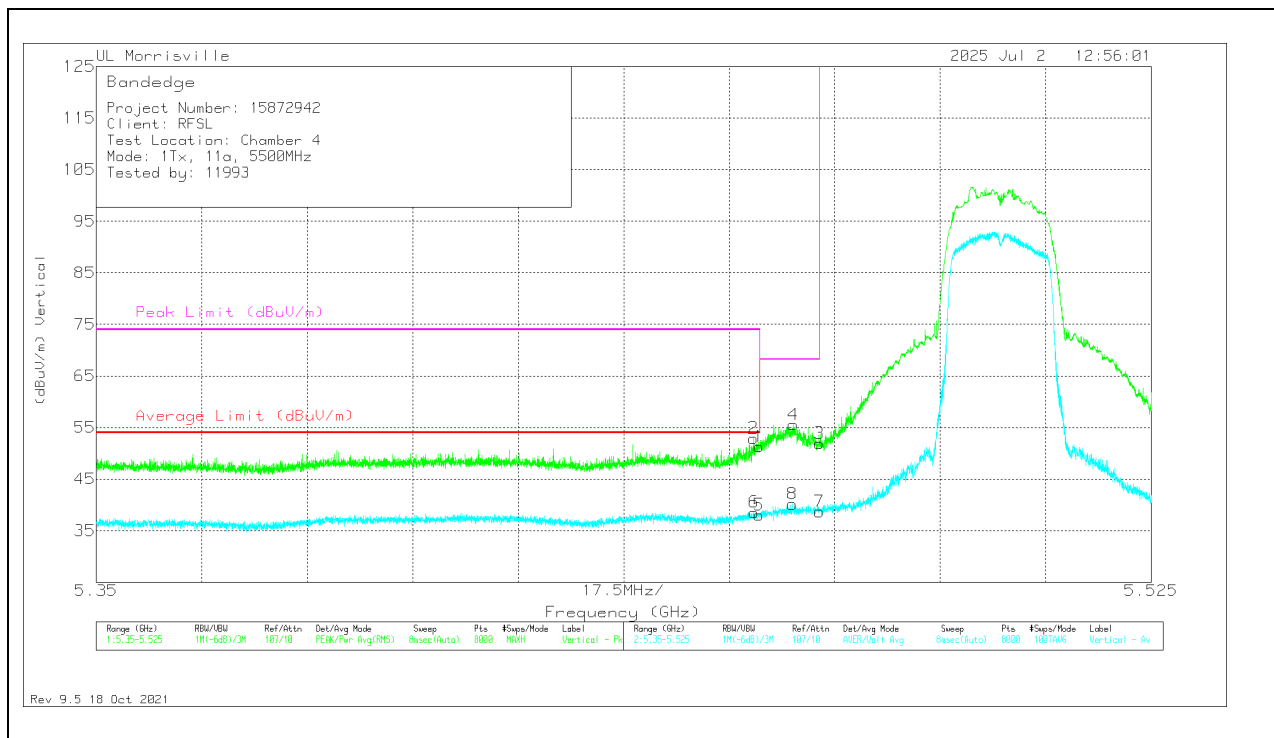
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	35.59	Pk	34.4	-18.7	0	51.29	-	-	74	-22.71	287	113	V
2	* ** 5.459	37.3	Pk	34.4	-18.8	0	52.9	-	-	74	-21.1	287	113	V
5	* ** 5.45998	22.04	ADV	34.4	-18.7	.28	38.02	54	-15.98	-	-	287	113	V
6	* ** 5.45915	22.67	ADV	34.4	-18.8	.28	38.55	54	-15.45	-	-	287	113	V
8	5.46547	23.77	ADV	34.4	-18.3	.28	40.15	-	-	-	-	287	113	V
4	5.46563	39.44	Pk	34.4	-18.3	0	55.54	-	-	68.2	-12.66	287	113	V
3	5.46998	35.81	Pk	34.4	-18.3	0	51.91	-	-	68.2	-16.29	287	113	V
7	5.46998	22.32	ADV	34.4	-18.3	.28	38.70	-	-	-	-	287	113	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

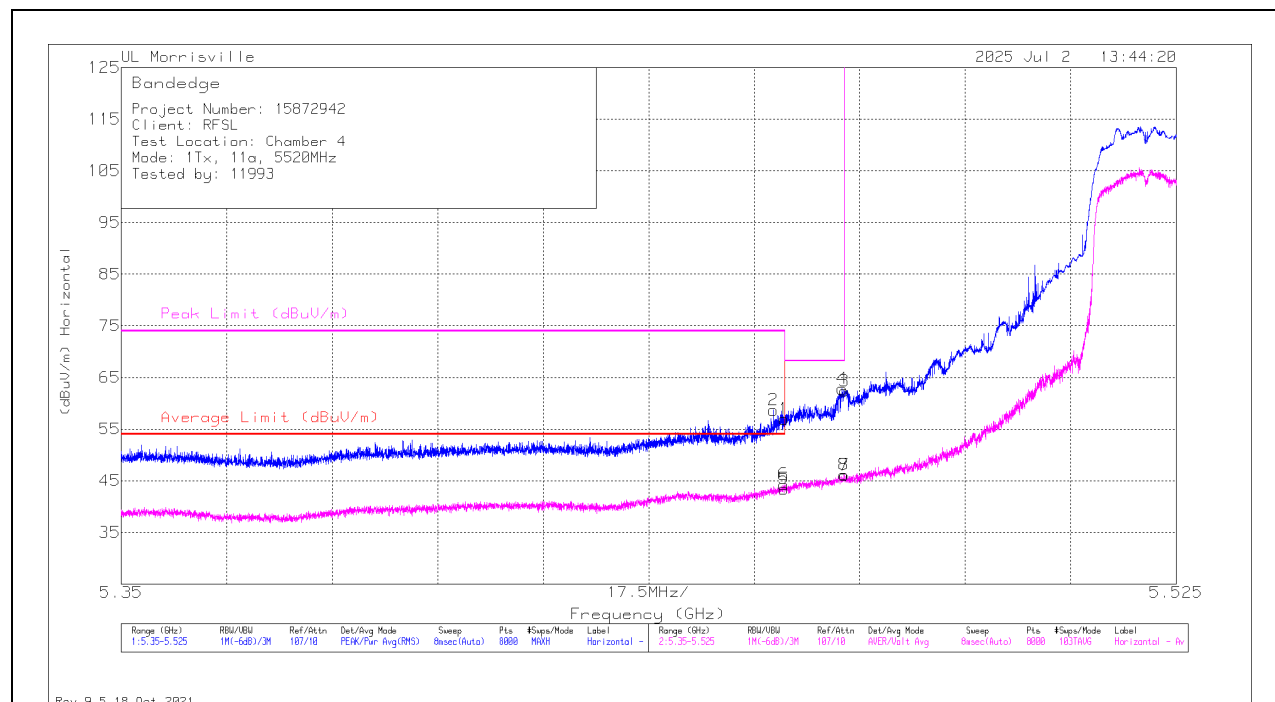
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	41.28	Pk	34.4	-18.7	0	56.98	-	-	74	-17.02	27	112	H
2	*** 5.45816	43.18	Pk	34.4	-18.9	0	58.68	-	-	74	-15.32	27	112	H
5	*** 5.45998	27.46	ADV	34.4	-18.7	.28	43.44	54	-10.56	-	-	27	112	H
6	*** 5.45989	28.26	ADV	34.4	-18.7	.28	44.24	54	-9.76	-	-	27	112	H
4	5.46959	46.73	Pk	34.4	-18.3	0	62.83	-	-	68.2	-5.37	27	112	H
8	5.46985	29.77	ADV	34.4	-18.3	.28	46.15	-	-	-	-	27	112	H
3	5.46998	46.25	Pk	34.4	-18.3	0	62.35	-	-	68.2	-5.85	27	112	H
7	5.46998	29.69	ADV	34.4	-18.3	.28	46.07	-	-	-	-	27	112	H

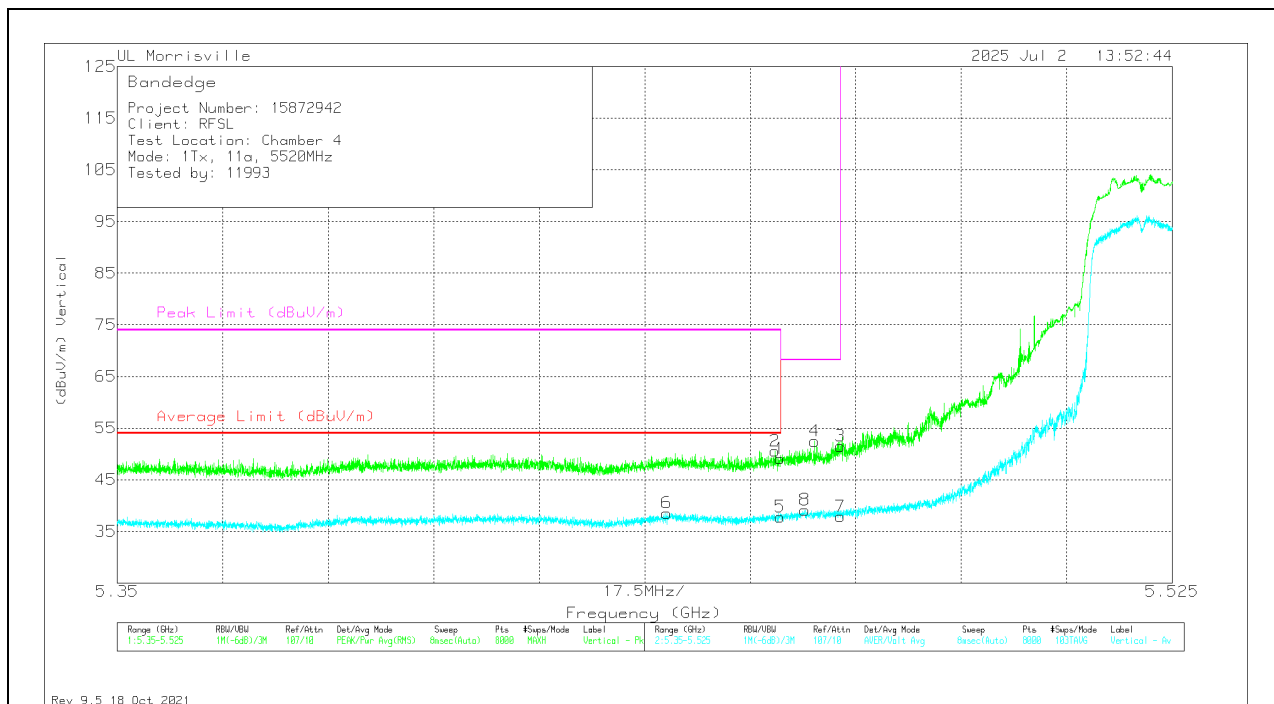
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	33.38	Pk	34.4	-18.7	0	49.08	-	-	74	-24.92	287	112	V
2	* ** 5.45913	34.95	Pk	34.4	-18.8	0	50.55	-	-	74	-23.45	287	112	V
5	* ** 5.45998	21.82	ADV	34.4	-18.7	.28	37.80	54	-16.20	-	-	287	112	V
6	* ** 5.44114	22.47	ADV	34.4	-18.6	.28	38.55	54	-15.45	-	-	287	112	V
8	5.46407	22.76	ADV	34.4	-18.3	.28	39.14	-	-	-	-	287	112	V
4	5.46571	36.37	Pk	34.4	-18.3	0	52.47	-	-	68.2	-15.73	287	112	V
3	5.46998	35.39	Pk	34.4	-18.3	0	51.49	-	-	68.2	-16.71	287	112	V
7	5.46998	21.48	ADV	34.4	-18.3	.28	37.86	-	-	-	-	287	112	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

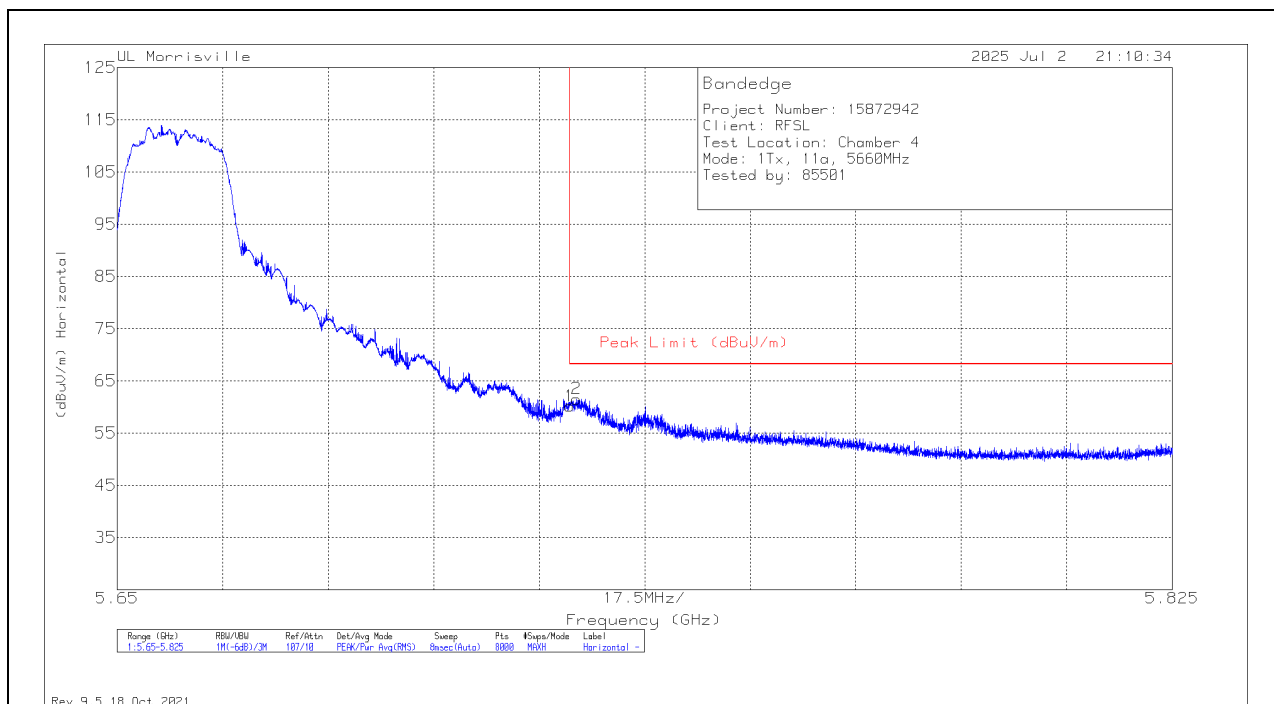
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

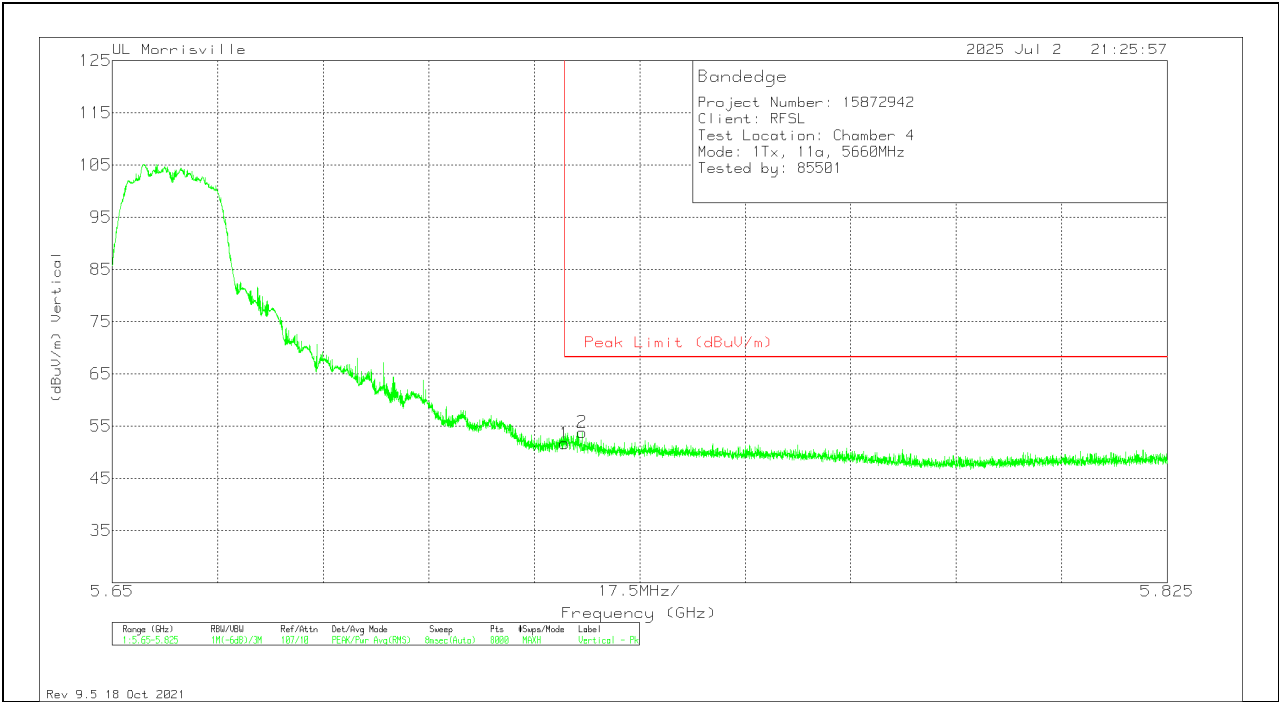
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	43.94	Pk	34.5	-18.3	0	60.14	68.2	-8.06	25	118	H
2	5.7262	45.25	Pk	34.5	-18.2	0	61.55	68.2	-6.65	25	118	H

Pk - Peak detector

VERTICAL RESULT

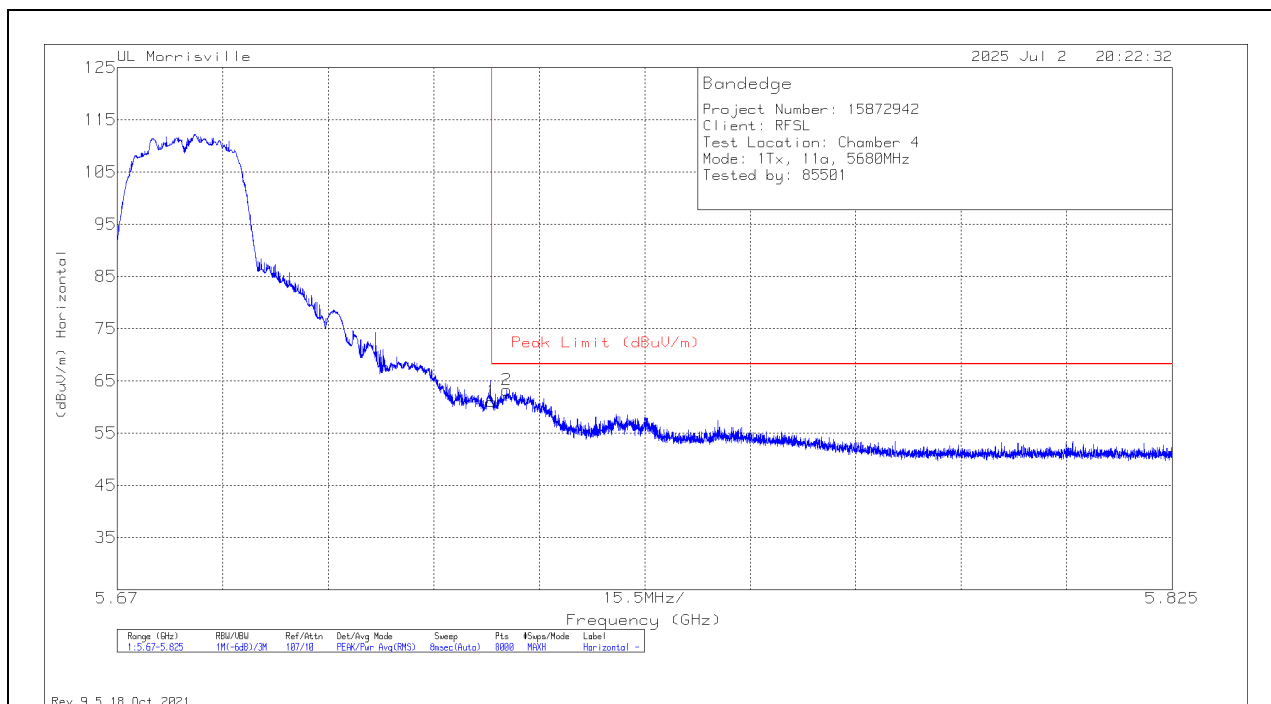


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	35.48	Pk	34.5	-18.3	0	51.68	68.2	-16.52	289	101	V
2	5.72793	37.42	Pk	34.5	-18.1	0	53.82	68.2	-14.38	289	101	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

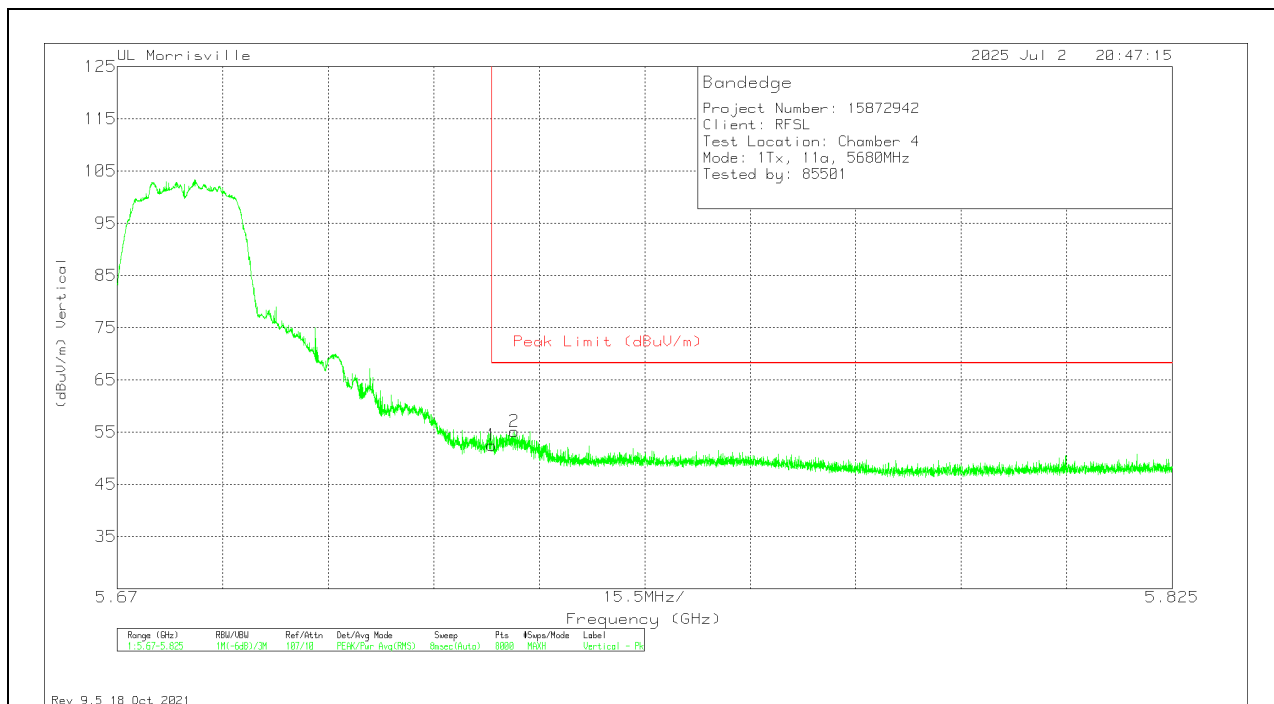
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	44.84	Pk	34.5	-18.3	61.04	68.2	-7.16	25	110	H
2	5.7272	46.95	Pk	34.5	-18.2	63.25	68.2	-4.95	25	110	H

Pk - Peak detector

VERTICAL RESULT

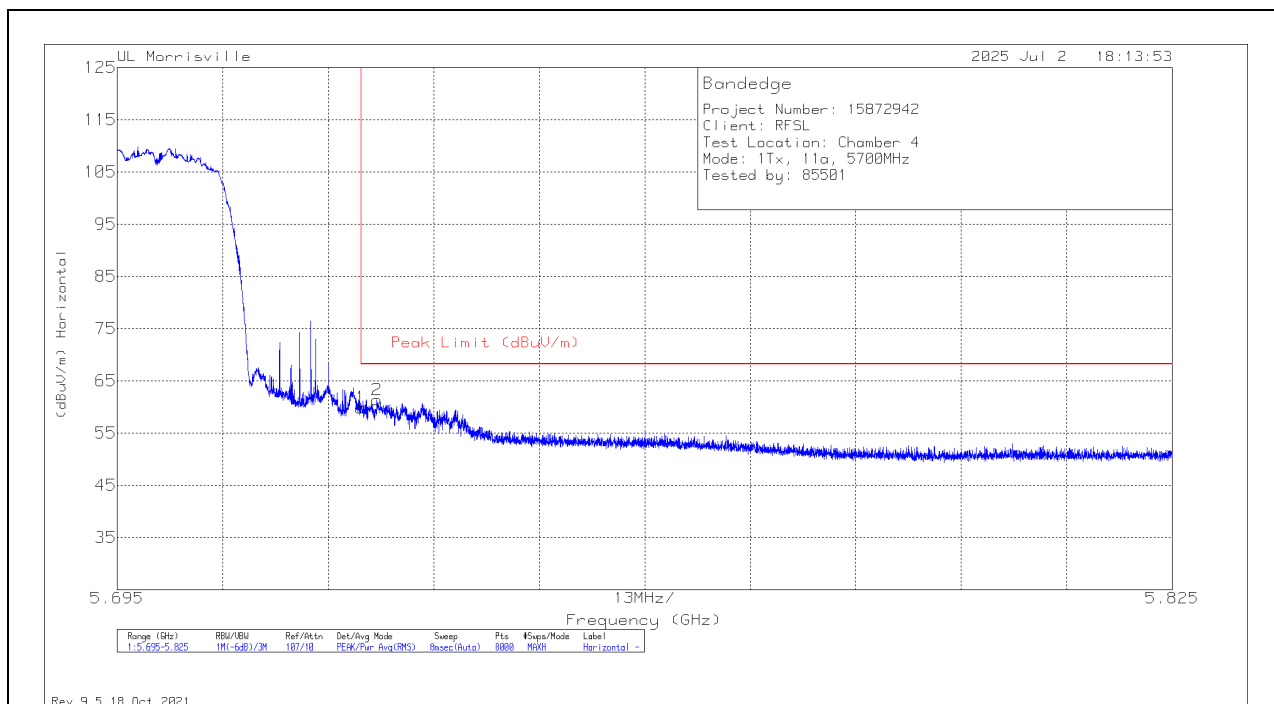


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	36.27	Pk	34.5	-18.3	0	52.47	68.2	-15.73	287	102	V
2	5.72831	38.75	Pk	34.5	-18.1	0	55.15	68.2	-13.05	287	102	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

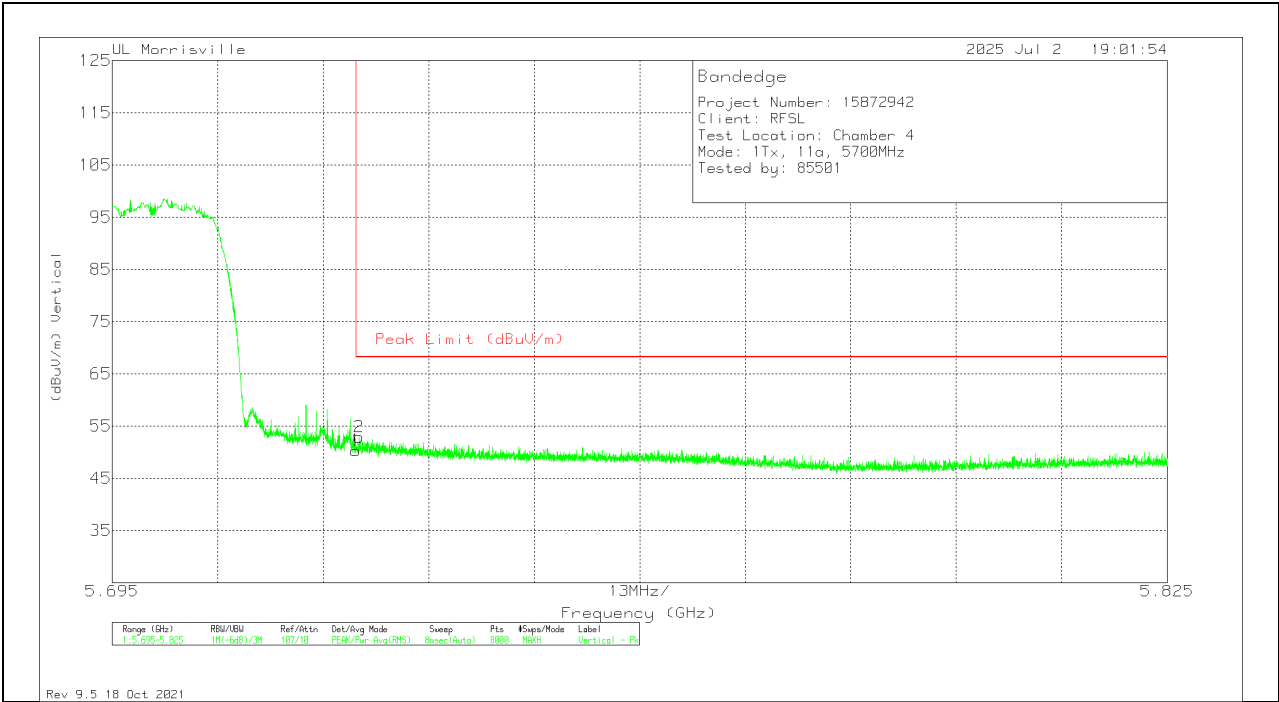
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain /Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.62	Pk	34.5	-18.3	0	59.82	68.2	-8.38	25	115	H
2	5.727	45.07	Pk	34.5	-18.2	0	61.37	68.2	-6.83	25	115	H

Pk - Peak detector

VERTICAL RESULT



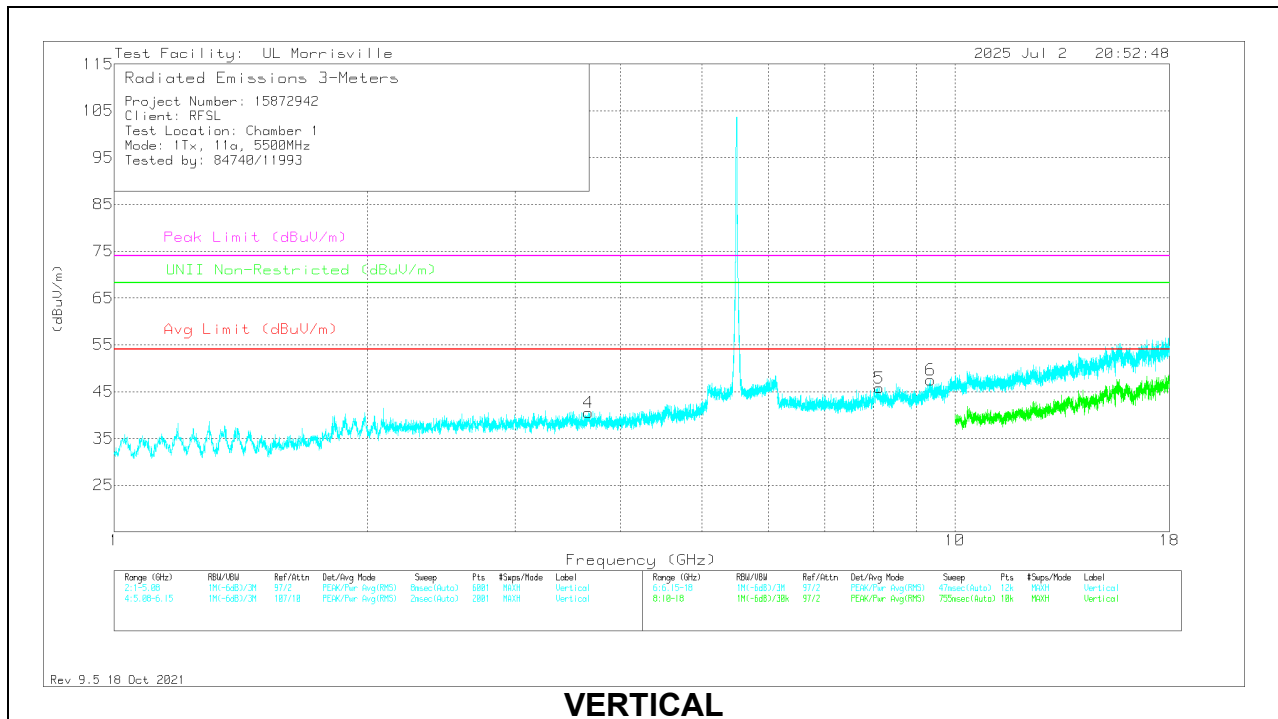
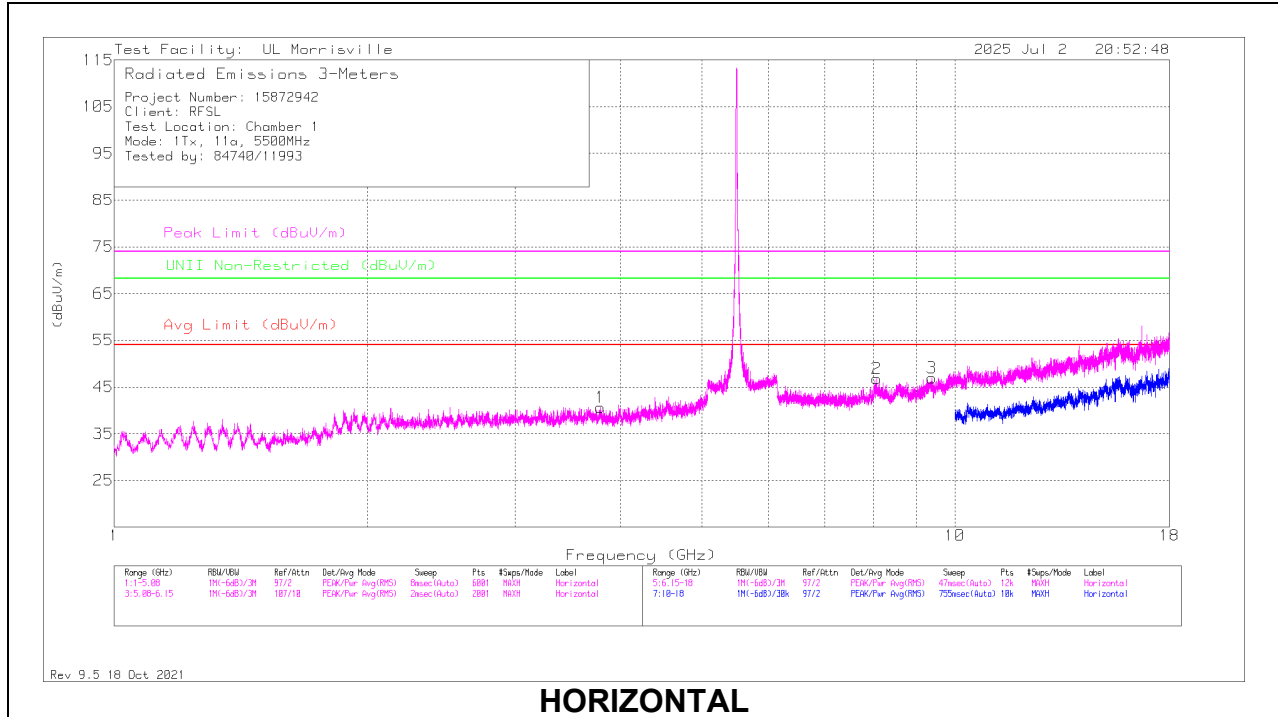
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	34.12	Pk	34.5	-18.3	0	50.32	68.2	-17.88	281	381	V
2	5.72539	36.69	Pk	34.5	-18.3	0	52.89	68.2	-15.31	281	381	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

Note – RSE performed at mid channel power settings.

LOW CHANNEL RESULTS



RADIATED EMISSIONS

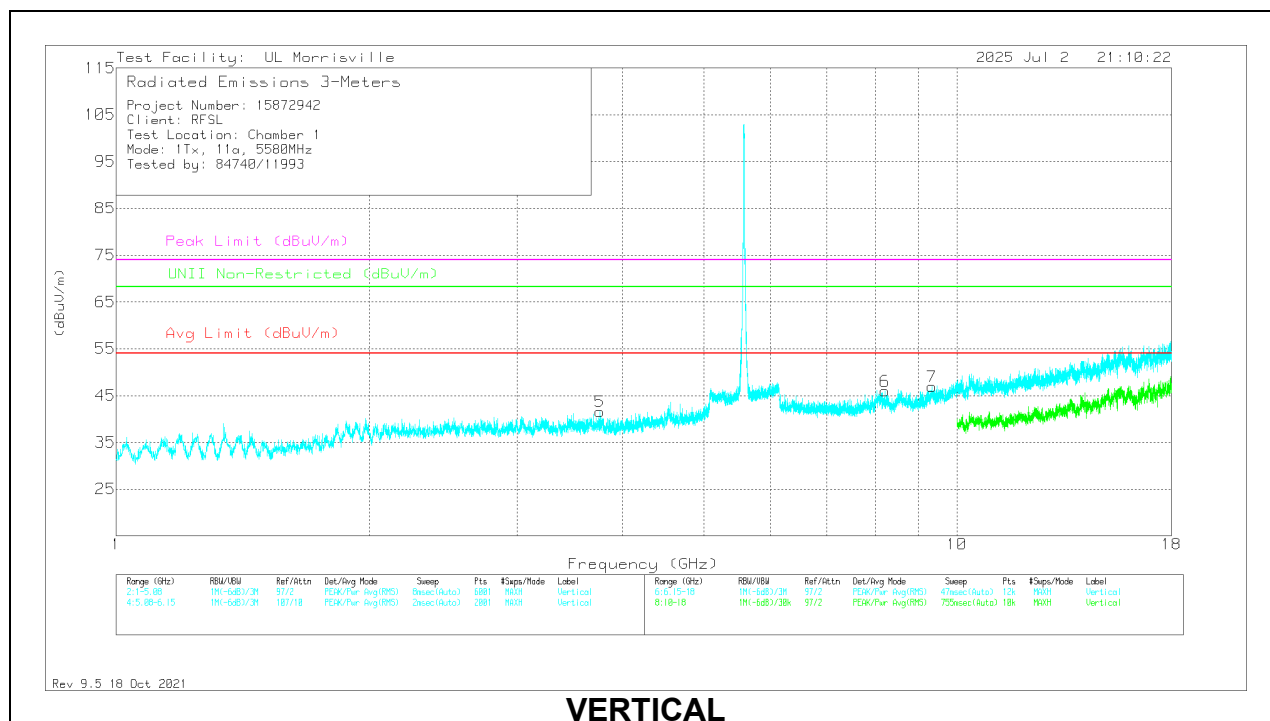
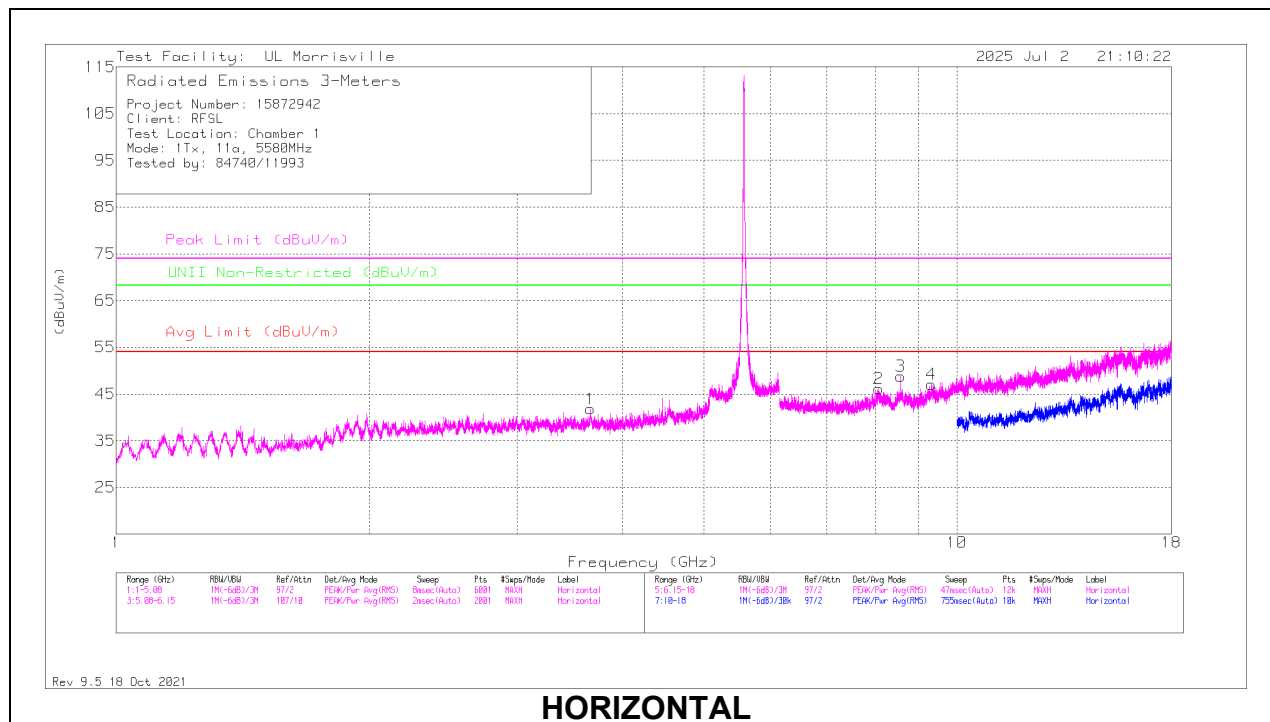
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.78936	51.94	Pk	33.1	-44.4	40.64	54	-13.36	74	-33.36	-	-	0-360	200	H
4	* ** 3.6656	51.41	Pk	33.1	-44	40.51	54	-13.49	74	-33.49	-	-	0-360	101	V
2	* ** 8.0697	51.76	Pk	35.9	-40.8	46.86	54	-7.14	74	-27.14	-	-	0-360	199	H
3	* ** 9.38406	51.02	Pk	36.2	-40.3	46.92	54	-7.08	74	-27.08	-	-	0-360	101	H
5	* ** 8.12994	50.6	Pk	35.9	-40.7	45.8	54	-8.2	74	-28.2	-	-	0-360	200	V
6	* ** 9.36135	51.39	Pk	36.2	-40.1	47.49	54	-6.51	74	-26.51	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

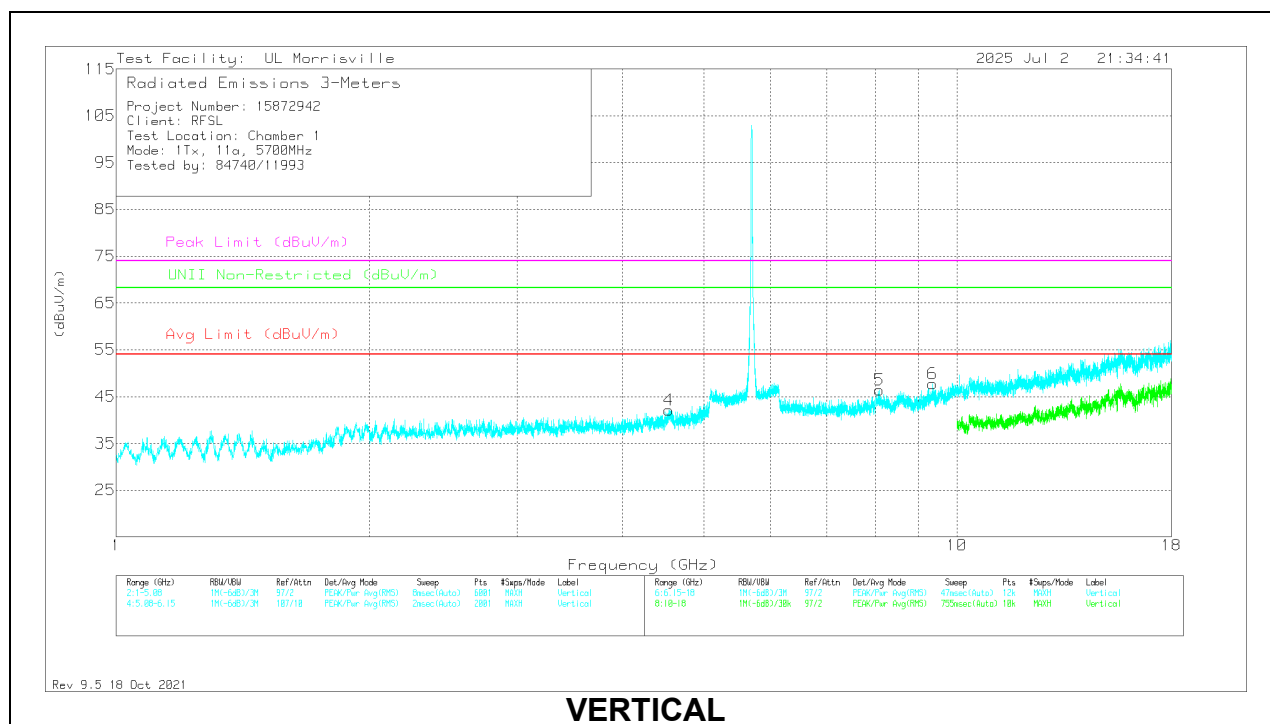
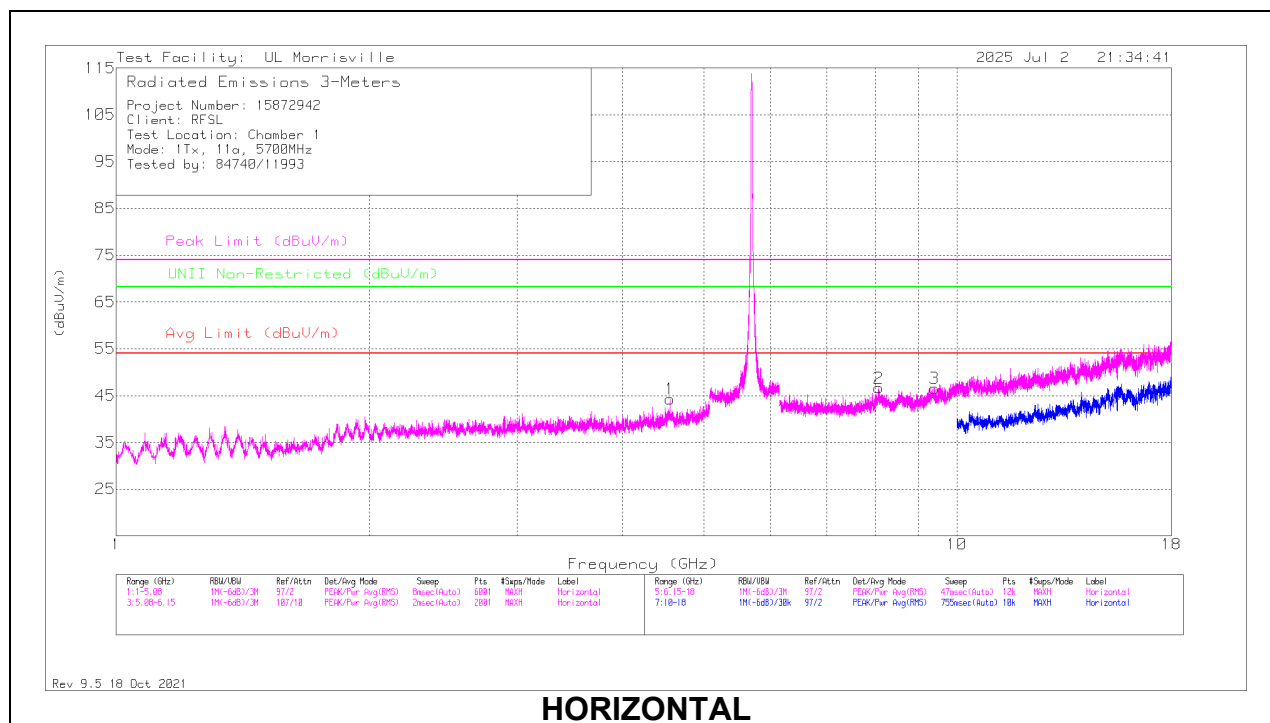
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.66356	52.7	Pk	33.1	-44	41.8	54	-12.2	74	-32.2	-	-	0-360	200	H
5	* ** 3.7642	52.73	Pk	33.2	-44.4	41.53	54	-12.47	74	-32.47	-	-	0-360	101	V
2	* ** 8.06871	51.07	Pk	35.9	-40.8	46.17	54	-7.83	74	-27.83	-	-	0-360	101	H
4	* ** 9.33271	50.56	Pk	36.2	-39.7	47.06	54	-6.94	74	-26.94	-	-	0-360	200	H
6	* ** 8.21585	51.34	Pk	35.9	-41.3	45.94	54	-8.06	74	-28.06	-	-	0-360	200	V
7	* ** 9.33568	50.29	Pk	36.2	-39.6	46.89	54	-7.11	74	-27.11	-	-	0-360	101	V
3	8.57925	52.94	Pk	35.7	-39.8	48.84	-	-	-	-	68.2	-19.36	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.56048	56	Pk	33.9	-45.6	44.3	54	-9.7	74	-29.7	-	-	0-360	101	H
4	* ** 4.54416	53.37	Pk	33.9	-45.1	42.17	54	-11.83	74	-31.83	-	-	0-360	200	V
2	* ** 8.07859	51.51	Pk	35.9	-40.8	46.61	54	-7.39	74	-27.39	-	-	0-360	101	H
3	* ** 9.40283	50.7	Pk	36.3	-40.4	46.6	54	-7.4	74	-27.4	-	-	0-360	101	H
5	* ** 8.08353	51.5	Pk	35.9	-41	46.4	54	-7.6	74	-27.6	-	-	0-360	101	V
6	* ** 9.35641	51.35	Pk	36.2	-39.8	47.75	54	-6.25	74	-26.25	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

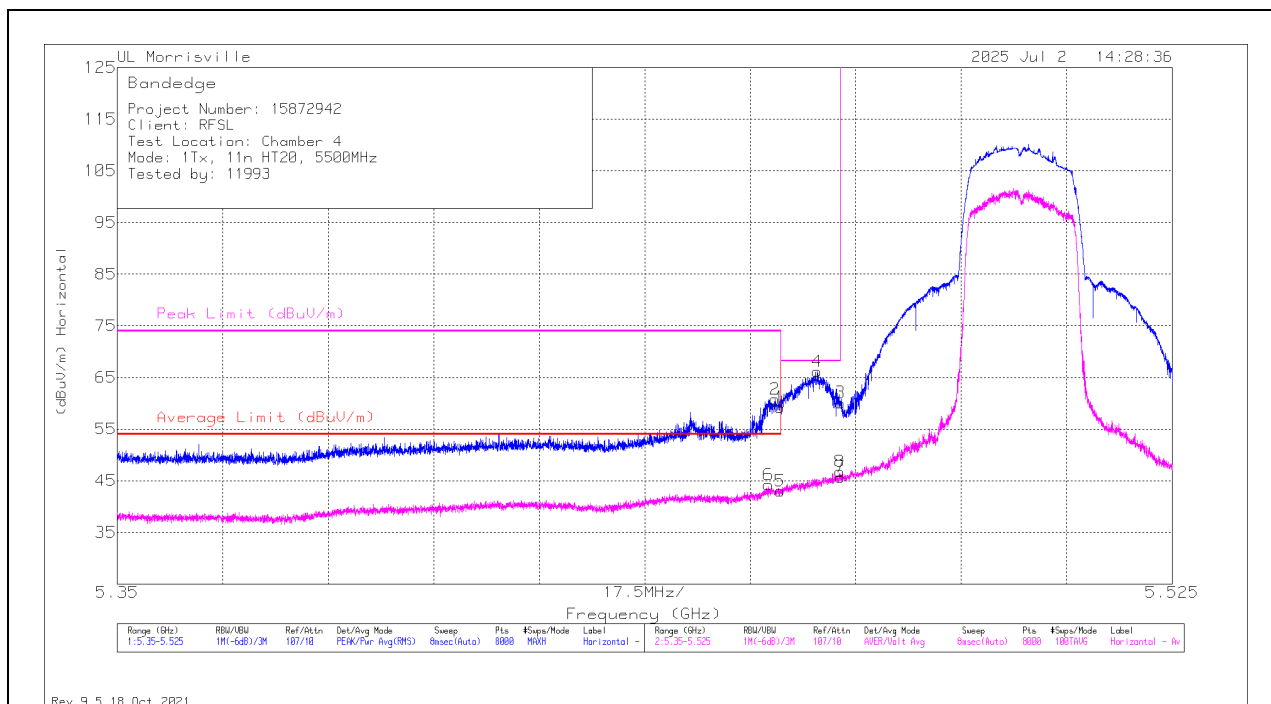
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1.8. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

BANDEGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	43.52	Pk	34.4	-18.7	0	59.22	-	-	74	-14.78	23	106	H
2	*** 5.45908	45.19	Pk	34.4	-18.8	0	60.79	-	-	74	-13.21	23	106	H
5	*** 5.45998	26.99	ADV	34.4	-18.7	.30	42.99	54	-11.01	-	-	23	106	H
6	*** 5.45801	28.41	ADV	34.4	-18.9	.30	44.21	54	-9.79	-	-	23	106	H
4	5.46613	50.03	Pk	34.4	-18.3	0	66.13	-	-	68.2	-2.07	23	106	H
8	5.46987	30.38	ADV	34.4	-18.3	.30	46.78	-	-	-	-	23	106	H
3	5.46998	43.99	Pk	34.4	-18.3	0	60.09	-	-	68.2	-8.11	23	106	H
7	5.46998	29.32	ADV	34.4	-18.3	.30	45.72	-	-	-	-	23	106	H

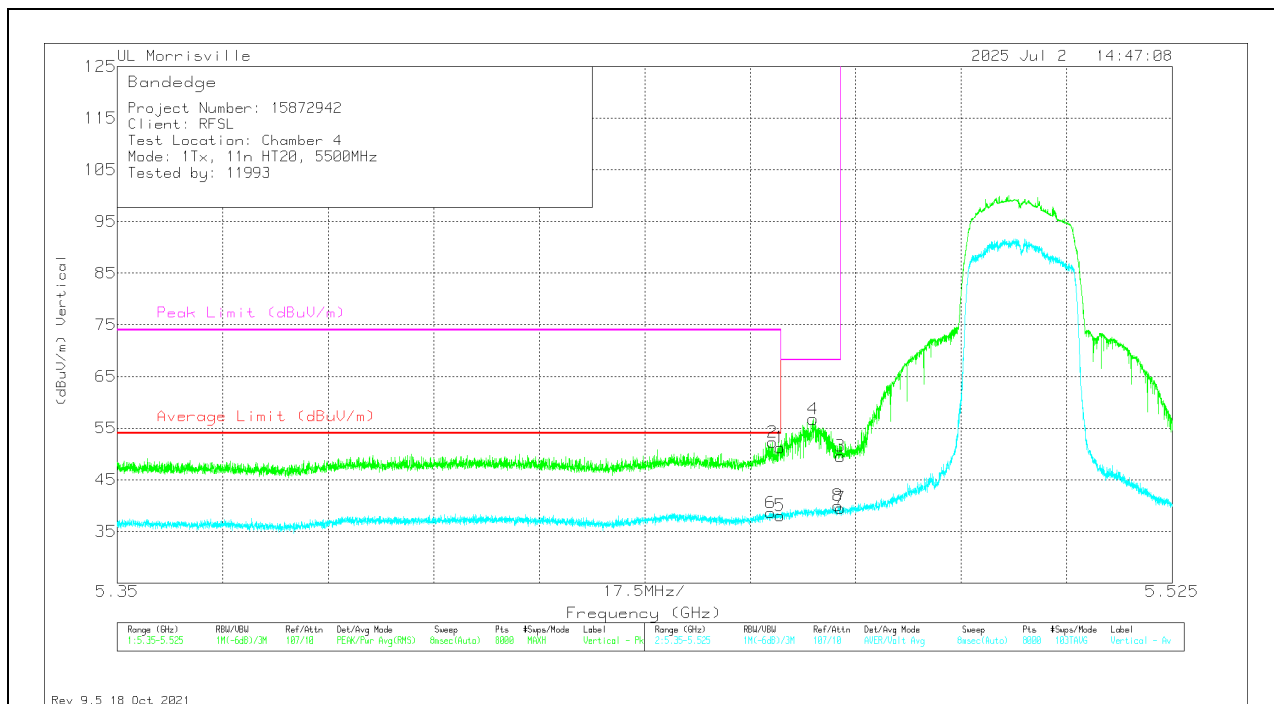
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	35.53	Pk	34.4	-18.7	0	51.23	-	-	74	-22.77	291	121	V
2	* ** 5.45871	36.77	Pk	34.4	-18.9	0	52.27	-	-	74	-21.73	291	121	V
5	* ** 5.45998	22.07	ADV	34.4	-18.7	.30	38.07	54	-15.93	-	-	291	121	V
6	* ** 5.45841	22.82	ADV	34.4	-18.9	.30	38.62	54	-15.38	-	-	291	121	V
4	5.46543	40.64	Pk	34.4	-18.3	0	56.74	-	-	68.2	-11.46	291	121	V
8	5.46952	23.59	ADV	34.4	-18.3	.30	39.99	-	-	-	-	291	121	V
3	5.46998	33.44	Pk	34.4	-18.3	0	49.54	-	-	68.2	-18.66	291	121	V
7	5.46998	23.13	ADV	34.4	-18.3	.30	39.53	-	-	-	-	291	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

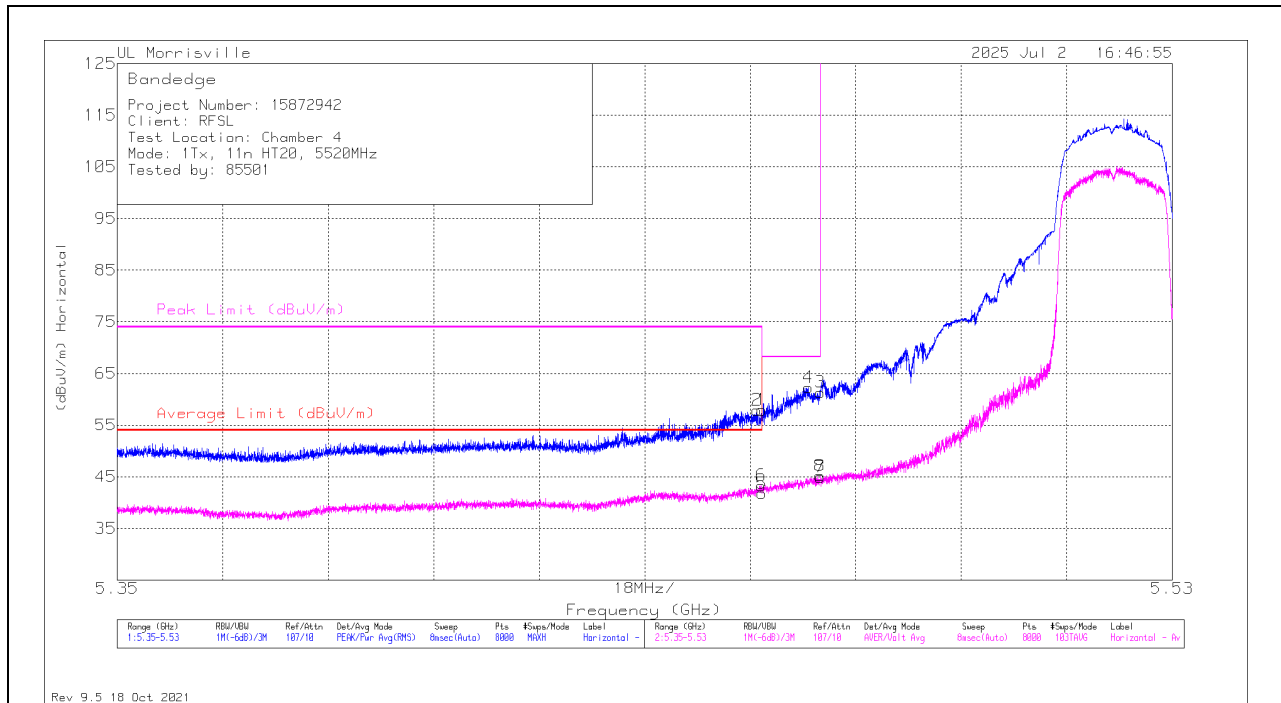
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45999	42.25	Pk	34.4	-18.7	0	57.95	-	-	74	-16.05	23	121	H
2	* ** 5.45909	42.32	Pk	34.4	-18.8	0	57.92	-	-	74	-16.08	23	121	H
5	* ** 5.45999	25.79	ADV	34.4	-18.7	.30	41.79	54	-12.21	-	-	23	121	H
6	* ** 5.45988	27.3	ADV	34.4	-18.7	.30	43.30	54	-10.70	-	-	23	121	H
4	5.46789	46.19	Pk	34.4	-18.3	0	62.29	-	-	68.2	-5.91	23	121	H
8	5.4699	28.79	ADV	34.4	-18.3	.30	45.19	-	-	-	-	23	121	H
3	5.46999	45.24	Pk	34.4	-18.3	0	61.34	-	-	68.2	-6.86	23	121	H
7	5.46999	28.52	ADV	34.4	-18.3	.30	44.92	-	-	-	-	23	121	H

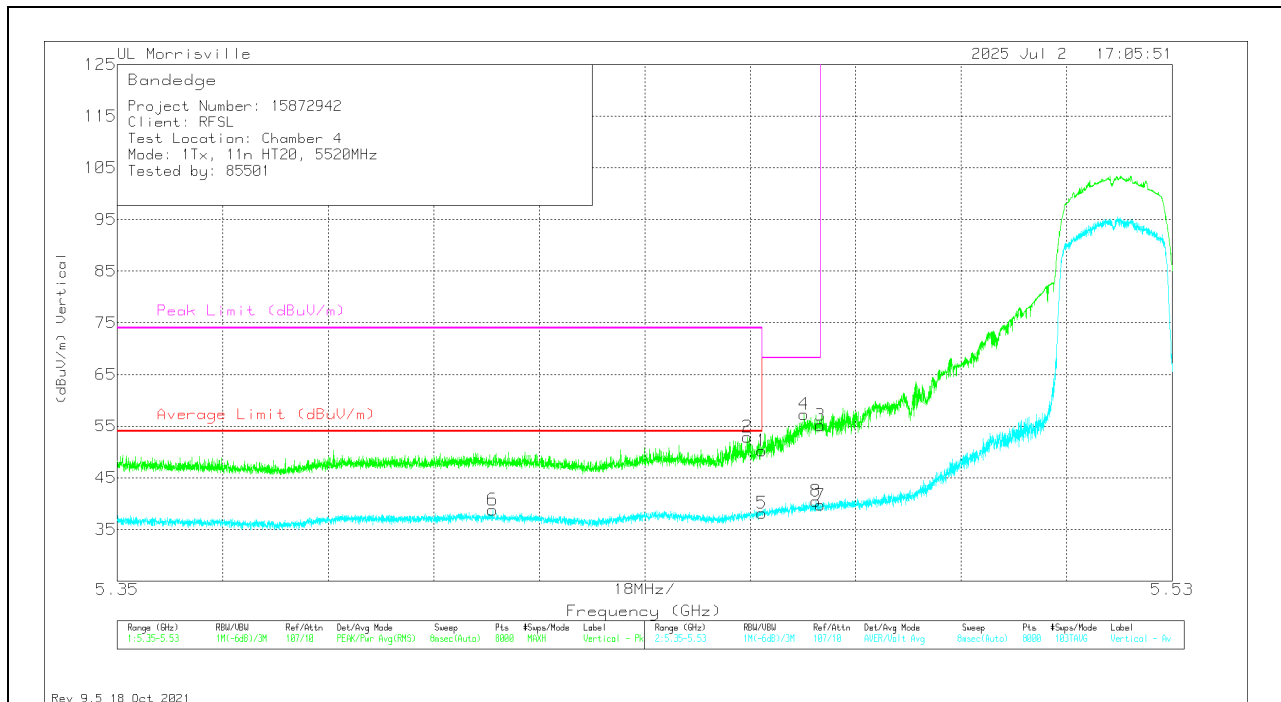
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45999	34.52	Pk	34.4	-18.7	0	50.22	-	-	74	-23.78	287	112	V
2	* ** 5.45752	37.52	Pk	34.4	-19	0	52.92	-	-	74	-21.08	287	112	V
5	* ** 5.45999	22.19	ADV	34.4	-18.7	.30	38.19	54	-15.81	-	-	287	112	V
6	* ** 5.41404	22.99	ADV	34.4	-18.9	.30	38.79	54	-15.21	-	-	287	112	V
4	5.46715	41.21	Pk	34.4	-18.3	0	57.31	-	-	68.2	-10.89	287	112	V
8	5.46922	24.11	ADV	34.4	-18.3	.30	40.51	-	-	-	-	287	112	V
3	5.46999	39.05	Pk	34.4	-18.3	0	55.15	-	-	68.2	-13.05	287	112	V
7	5.46999	23.31	ADV	34.4	-18.3	.30	39.71	-	-	-	-	287	112	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

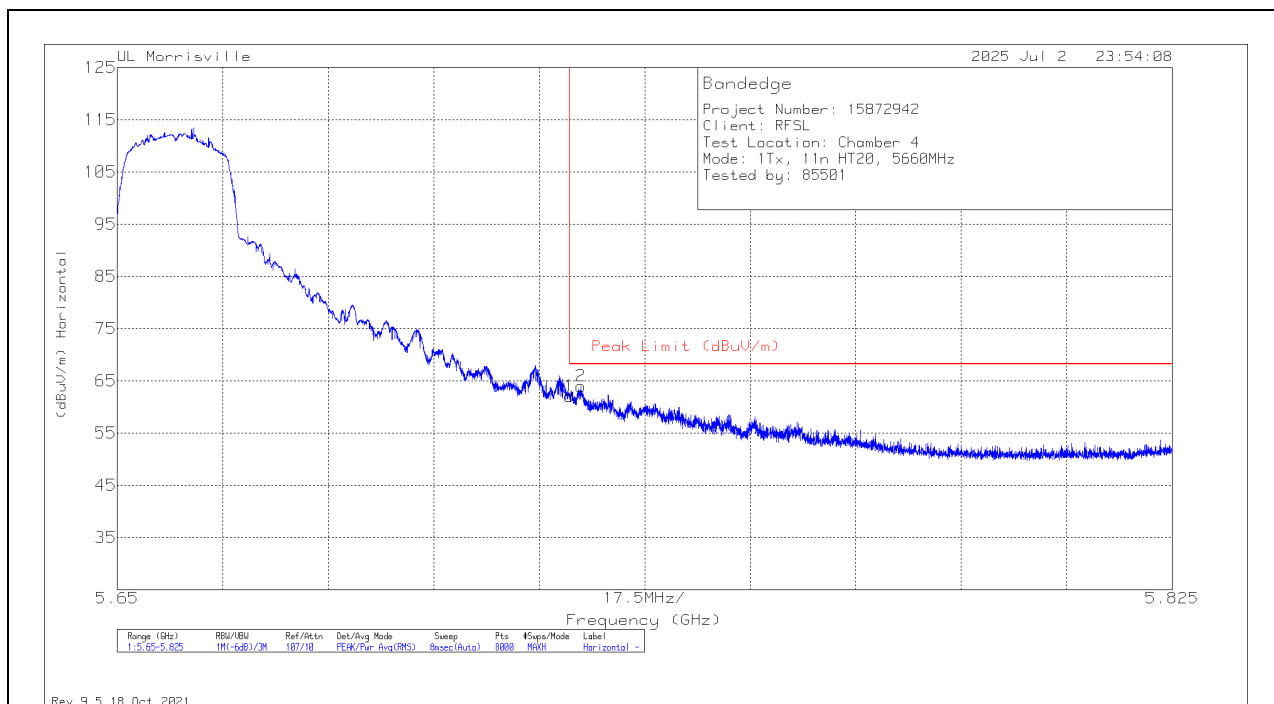
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

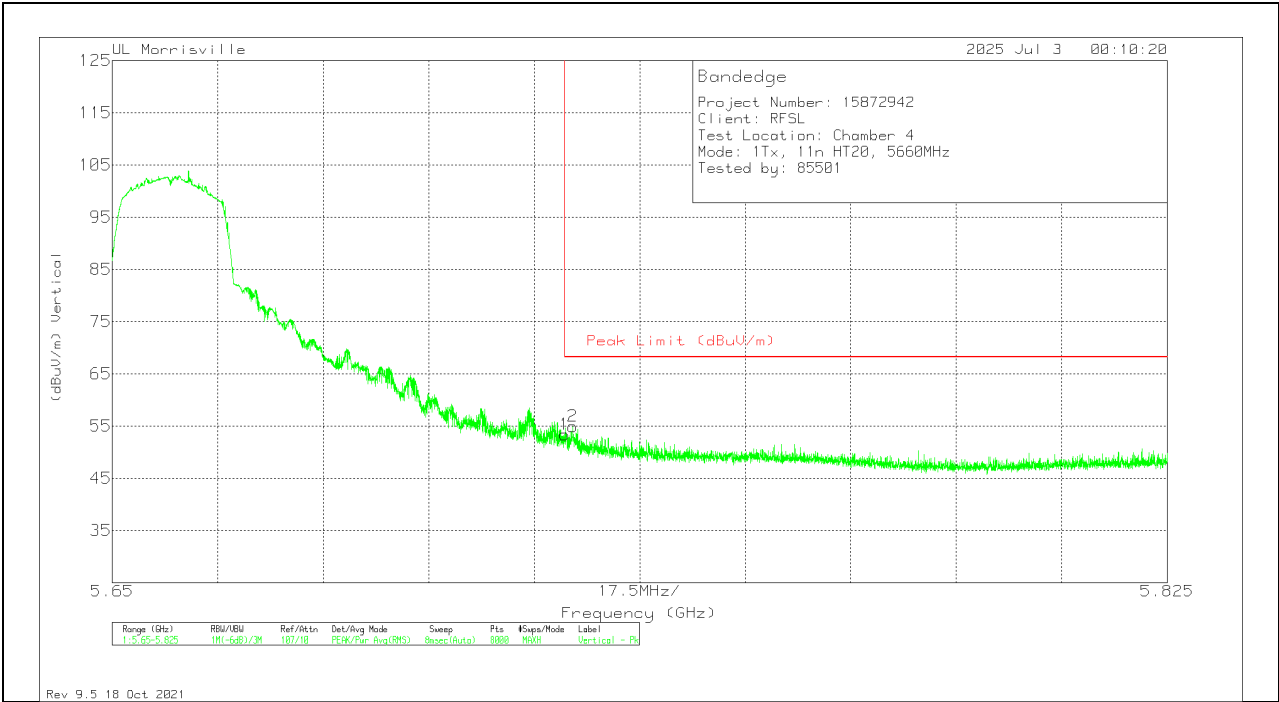
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	45.85	Pk	34.5	-18.3	0	62.05	68.2	-6.15	23	101	H
2	5.72692	47.67	Pk	34.5	-18.2	0	63.97	68.2	-4.23	23	101	H

Pk - Peak detector

VERTICAL RESULT

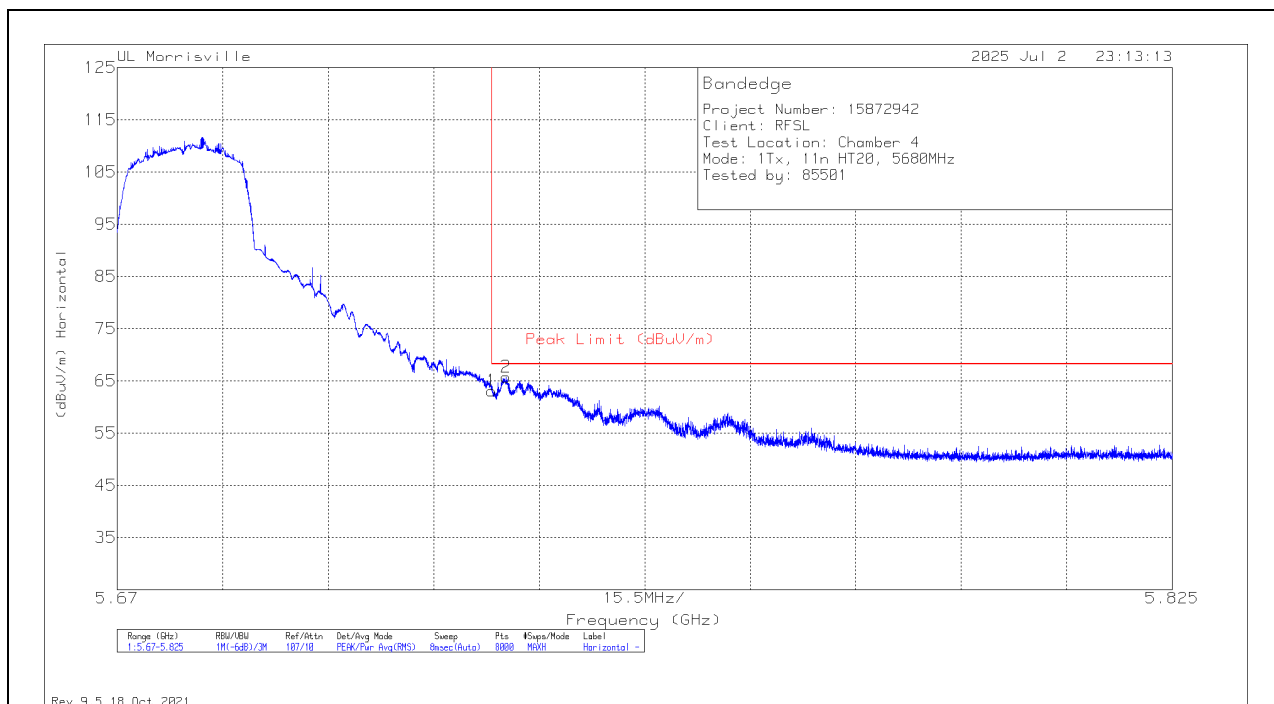


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	37.18	Pk	34.5	-18.3	0	53.38	68.2	-14.82	287	127	V
2	5.72638	38.63	Pk	34.5	-18.2	0	54.93	68.2	-13.27	287	127	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

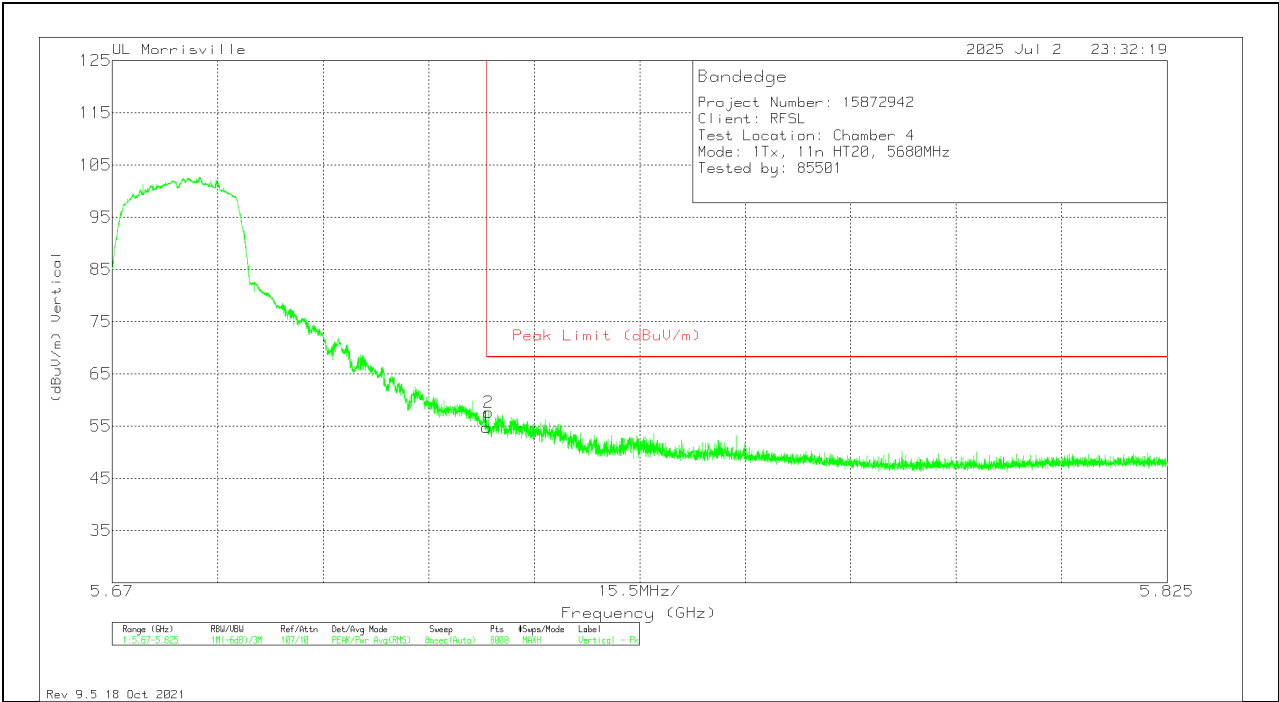
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	46.9	Pk	34.5	-18.3	0	63.1	68.2	-5.1	27	103	H
2	5.72714	49.42	Pk	34.5	-18.2	0	65.72	68.2	-2.48	27	103	H

Pk - Peak detector

VERTICAL RESULT

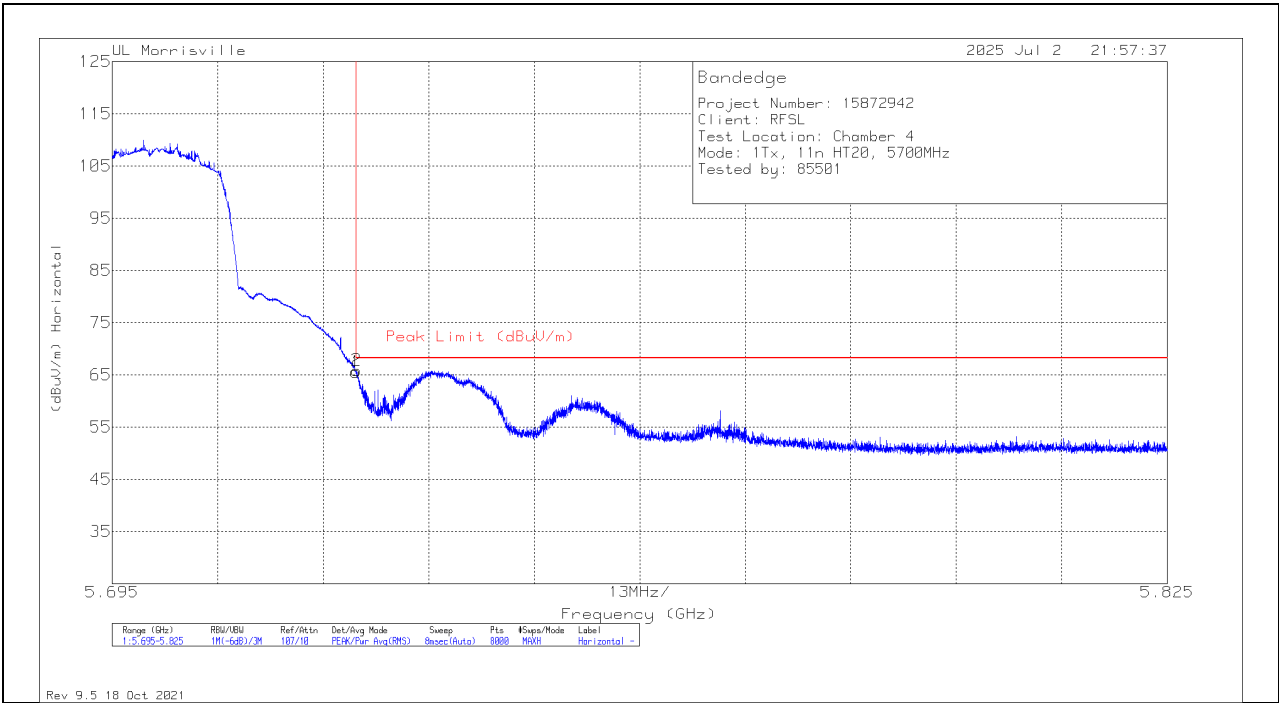


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	38.54	Pk	34.5	-18.3	0	54.74	68.2	-13.46	287	119	V
2	5.7253	41.43	Pk	34.5	-18.3	0	57.63	68.2	-10.57	287	119	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

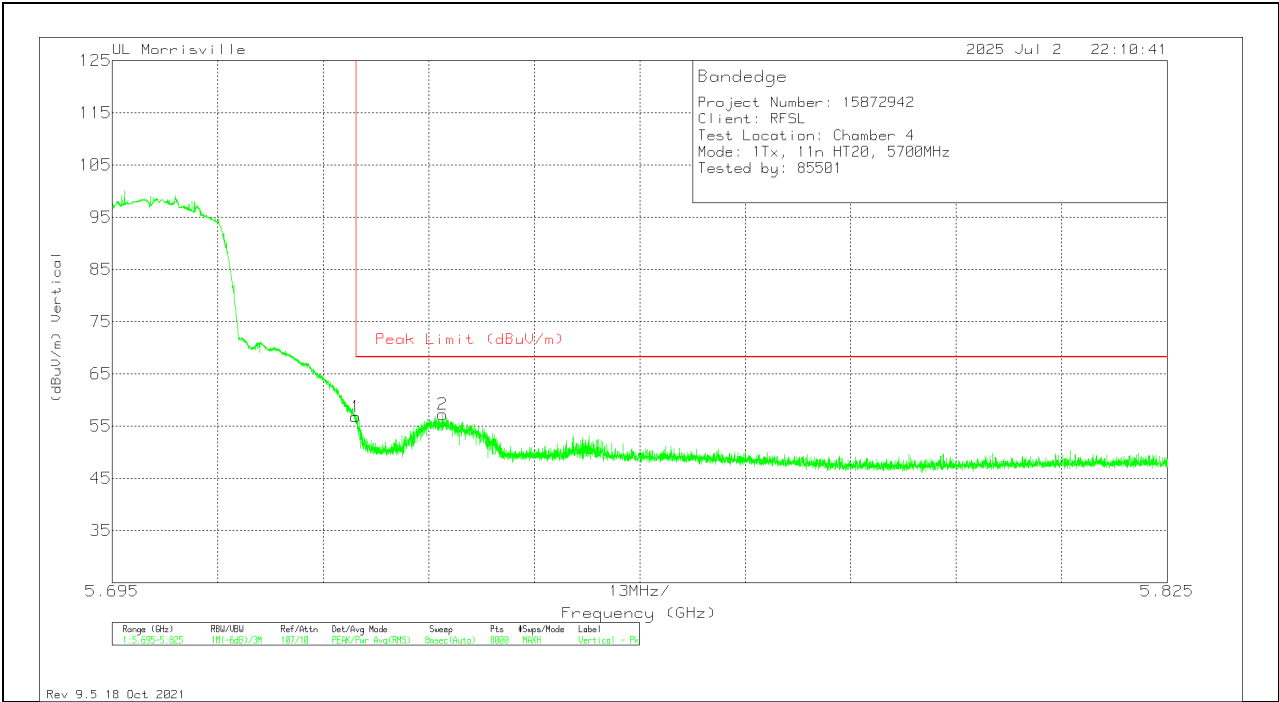
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.35	Pk	34.5	-18.3	0	65.55	68.2	-2.65	27	103	H
2	5.72513	49.67	Pk	34.5	-18.3	0	65.87	68.2	-2.33	27	103	H

Pk - Peak detector

VERTICAL RESULT



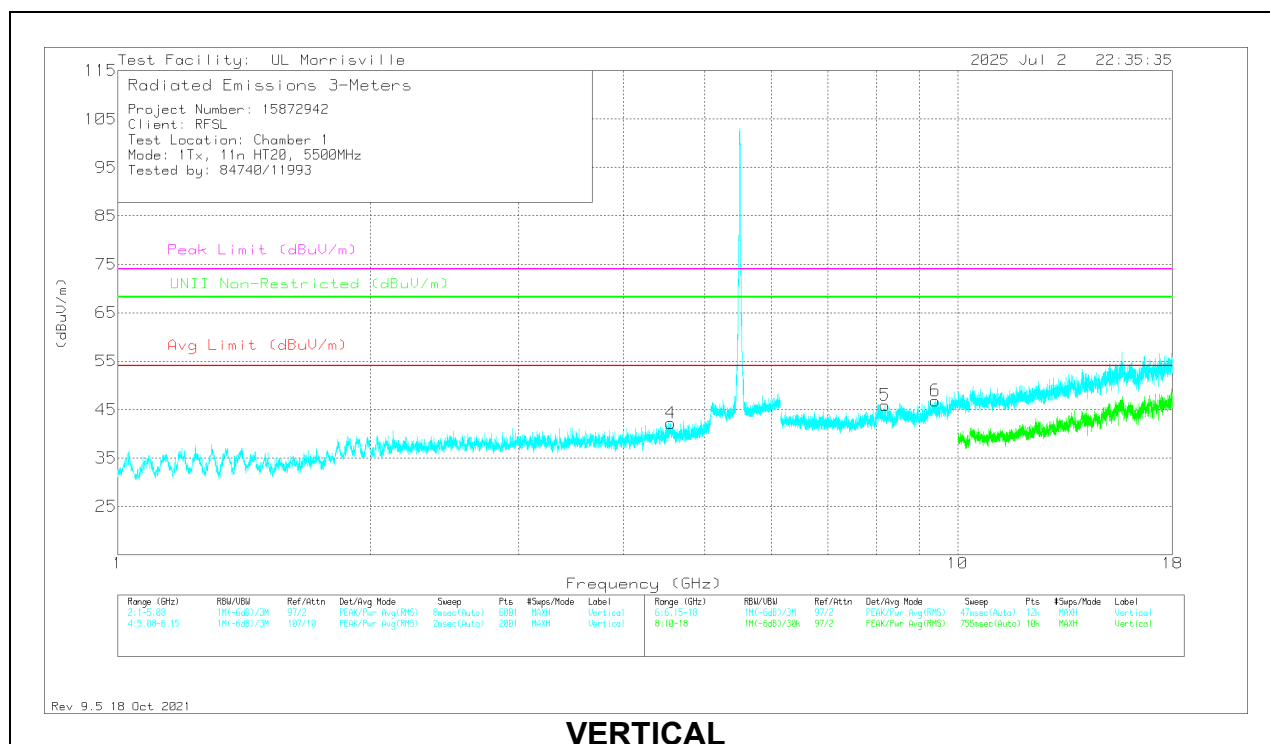
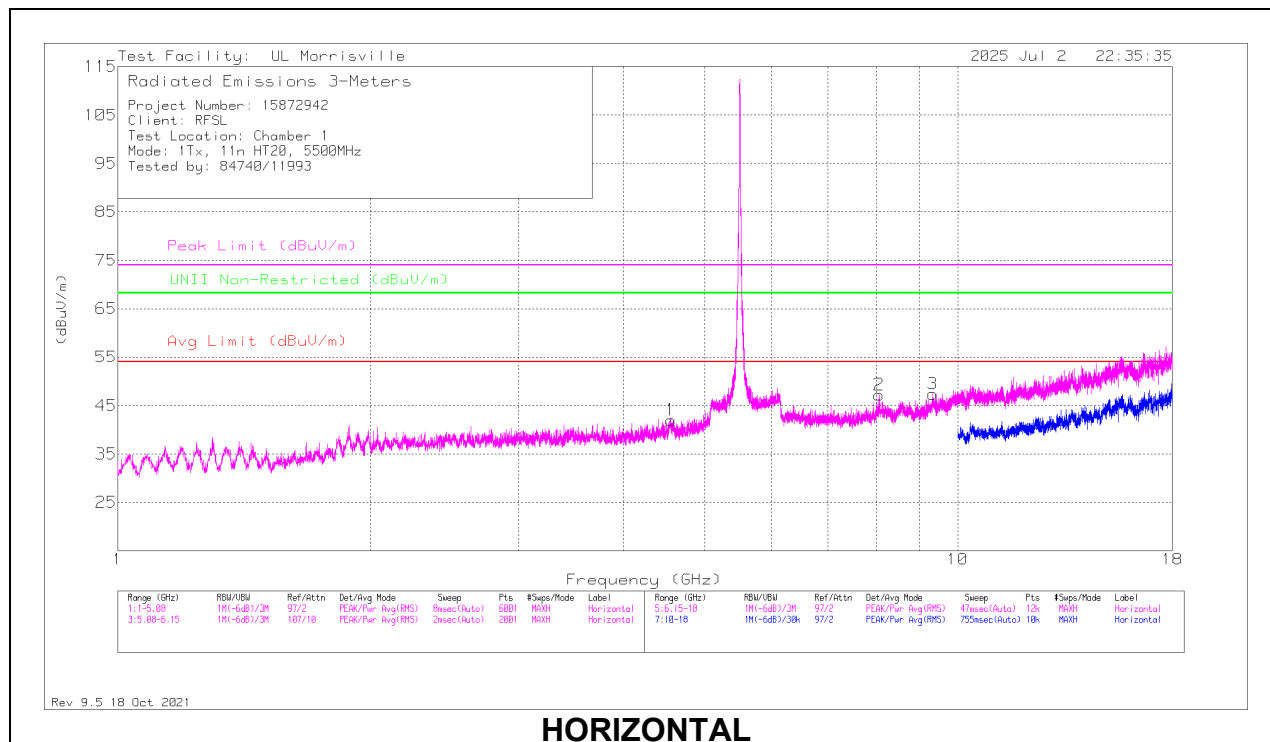
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.57	Pk	34.5	-18.3	0	56.77	68.2	-11.43	282	101	V
2	5.7357	40.72	Pk	34.5	-18	0	57.22	68.2	-10.98	282	101	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

Note – RSE run at mid channel power settings.

LOW CHANNEL RESULTS



RADIATED EMISSIONS

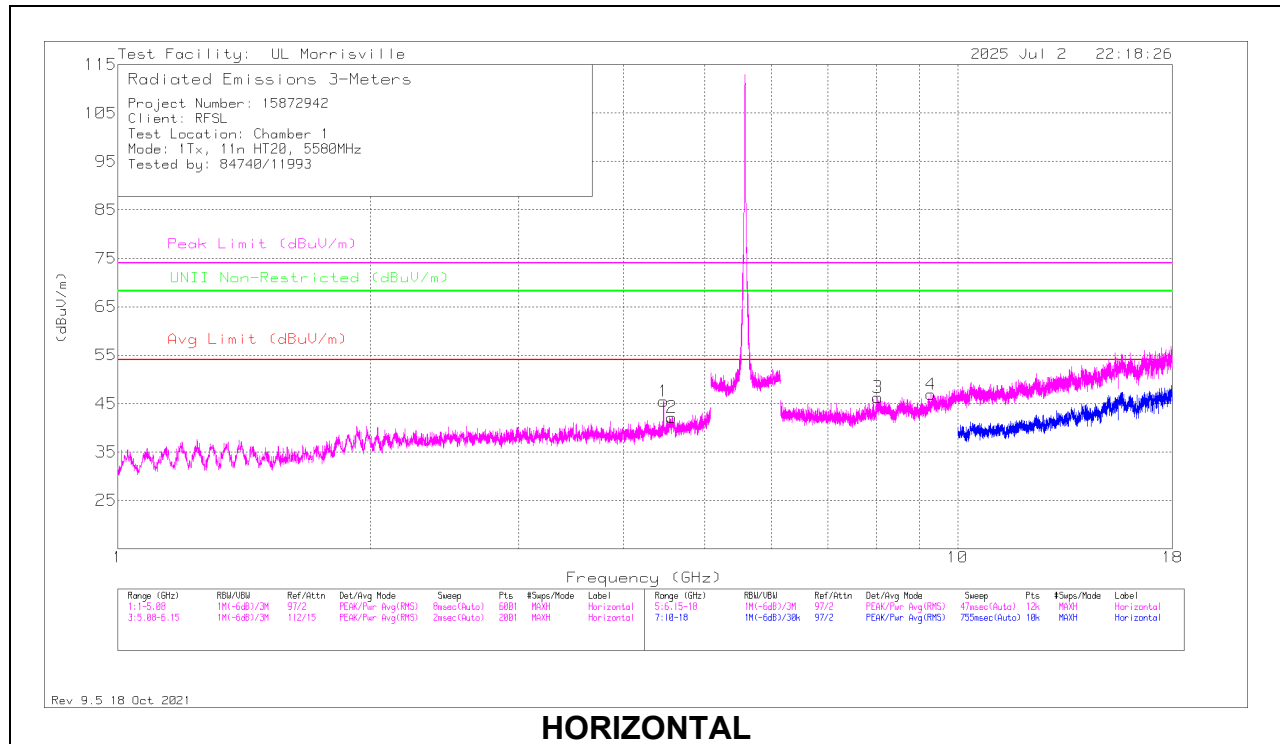
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.55708	53.59	Pk	33.9	-45.5	41.99	54	-12.01	74	-32.01	-	-	0-360	101	H
4	* ** 4.55368	53.51	Pk	33.9	-45.2	42.21	54	-11.79	74	-31.79	-	-	0-360	200	V
2	* ** 8.05983	51.59	Pk	35.9	-40.3	47.19	54	-6.81	74	-26.81	-	-	0-360	199	H
3	* ** 9.33469	50.79	Pk	36.2	-39.6	47.39	54	-6.61	74	-26.61	-	-	0-360	101	H
5	* ** 8.19709	51.32	Pk	35.9	-41.3	45.92	54	-8.08	74	-28.08	-	-	0-360	101	V
6	* ** 9.40085	50.82	Pk	36.3	-40.3	46.82	54	-7.18	74	-27.18	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

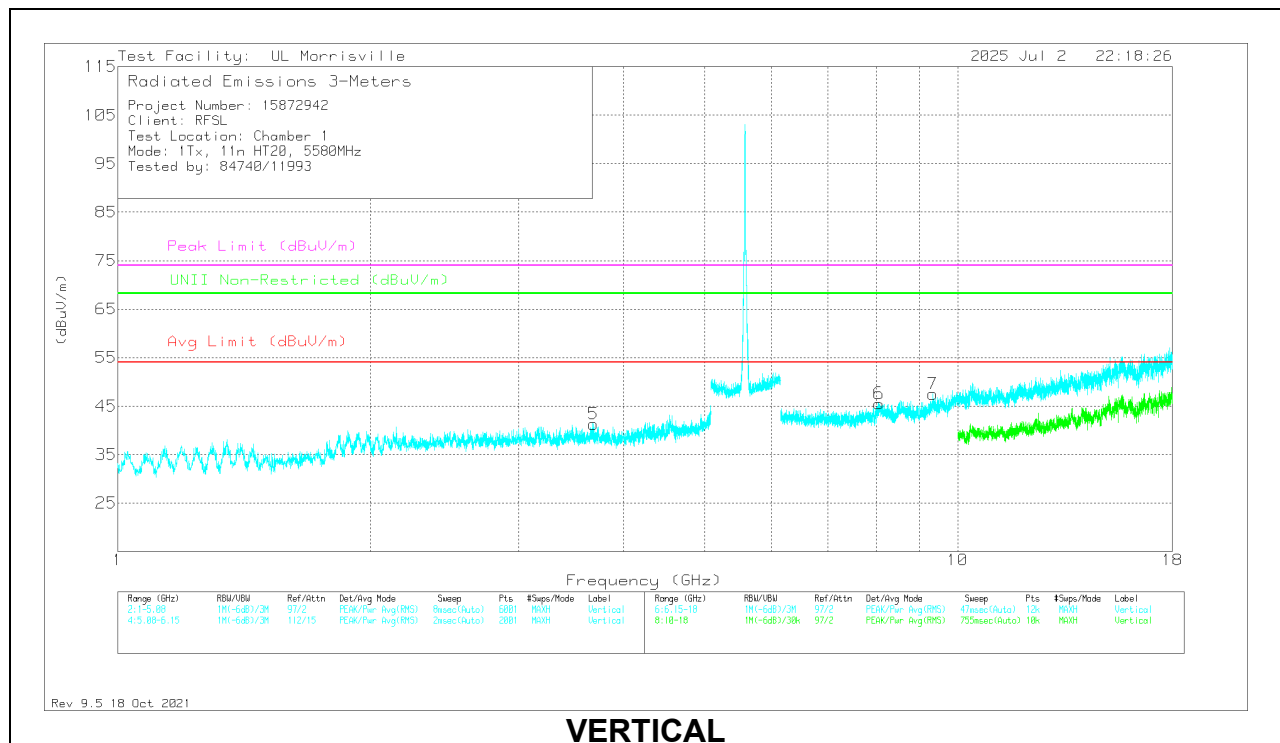
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

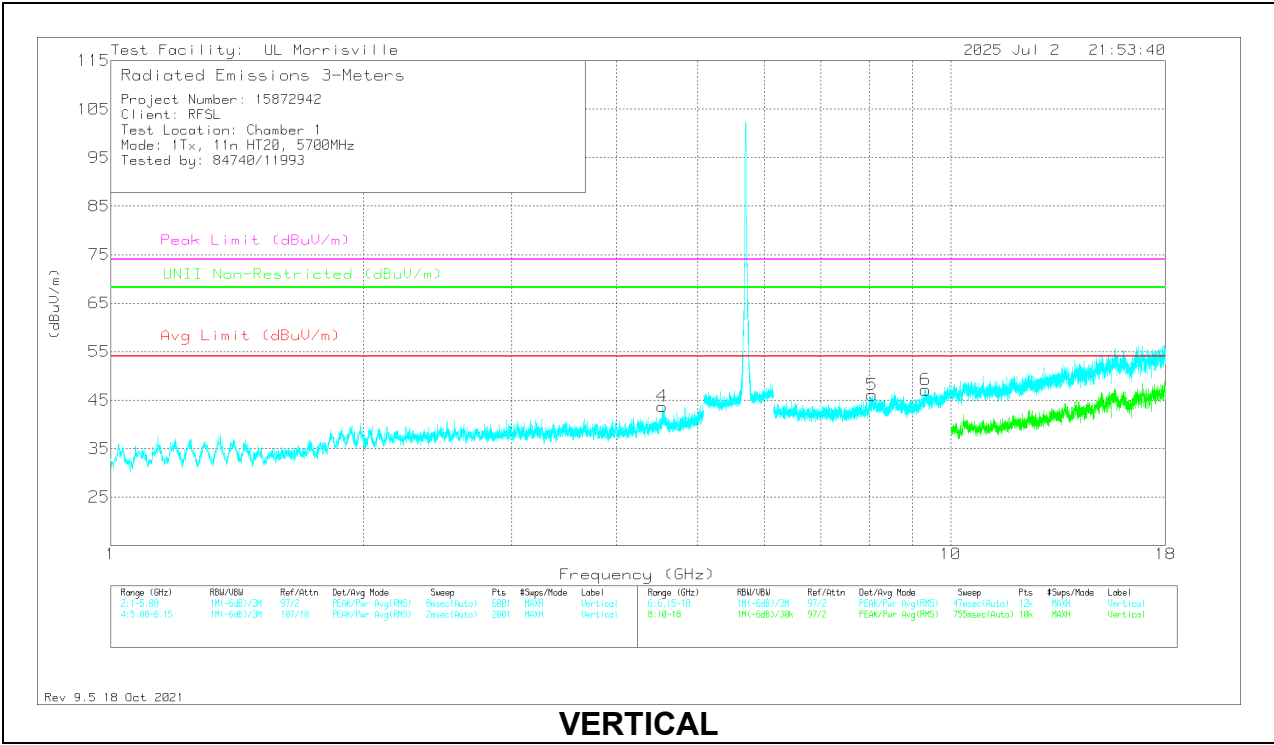
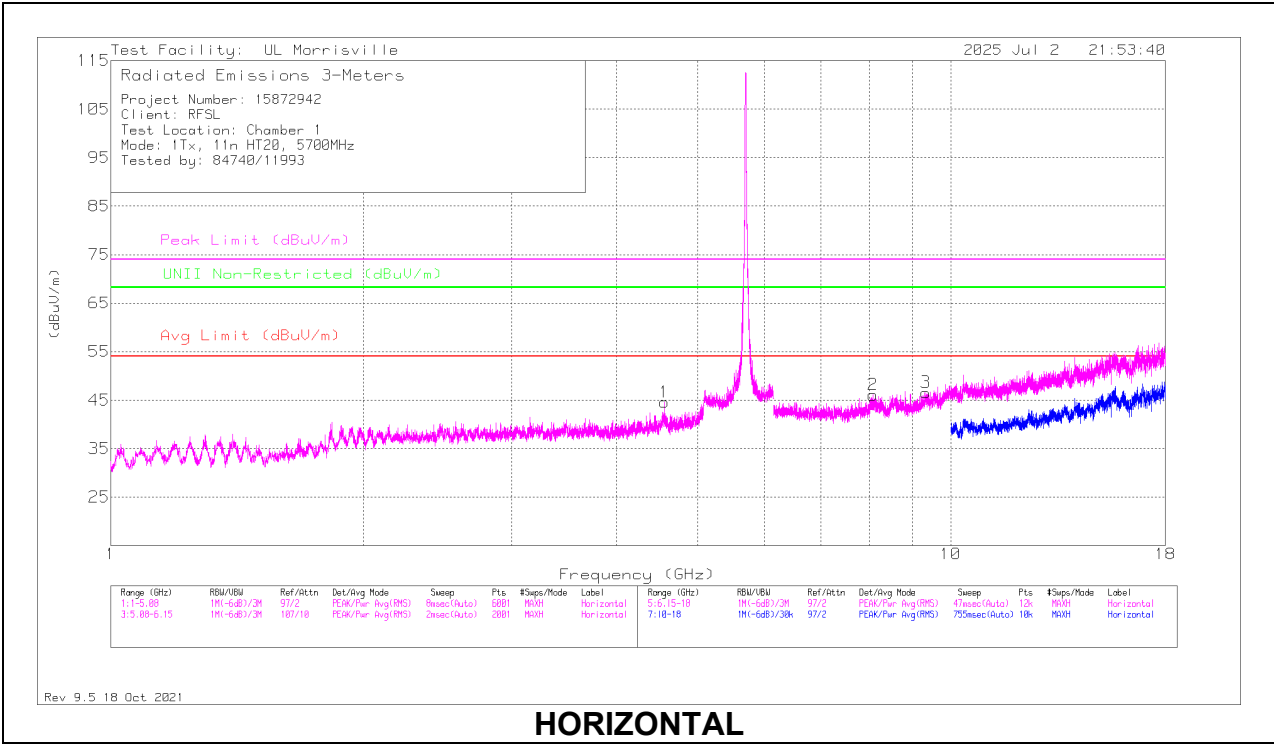
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 4.5666	53.64	Pk	33.9	-45.4	42.14	54	-11.86	74	-31.86	-	-	0-360	199	H
5	*** 3.68396	53.08	Pk	33.2	-45	41.28	54	-12.72	74	-32.72	-	-	0-360	200	V
3	*** 8.03119	51.47	Pk	35.9	-41.1	46.27	54	-7.73	74	-27.73	-	-	0-360	200	H
6	*** 8.05785	49.8	Pk	35.9	-40.2	45.5	54	-8.5	74	-28.5	-	-	0-360	101	V
7	*** 9.33963	51.01	Pk	36.2	-39.7	47.51	54	-6.49	74	-26.49	-	-	0-360	200	V
1	4.4646	56.76	Pk	33.9	-45.2	45.46	-	-	-	-	68.2	-22.74	0-360	101	H
4	9.2942	51.39	Pk	36.1	-40.6	46.89	-	-	-	-	68.2	-21.31	0-360	200	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.56048	56.26	Pk	33.9	-45.6	44.56	54	-9.44	74	-29.44	-	-	0-360	101	H
4	* ** 4.53464	55.2	Pk	33.9	-45.4	43.7	54	-10.3	74	-30.3	-	-	0-360	200	V
2	* ** 8.07661	50.98	Pk	35.9	-40.8	46.08	54	-7.92	74	-27.92	-	-	0-360	199	H
3	* ** 9.33963	50.05	Pk	36.2	-39.7	46.55	54	-7.45	74	-27.45	-	-	0-360	199	H
5	* ** 8.06081	50.58	Pk	35.9	-40.4	46.08	54	-7.92	74	-27.92	-	-	0-360	101	V
6	* ** 9.32975	50.62	Pk	36.2	-39.7	47.12	54	-6.88	74	-26.88	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

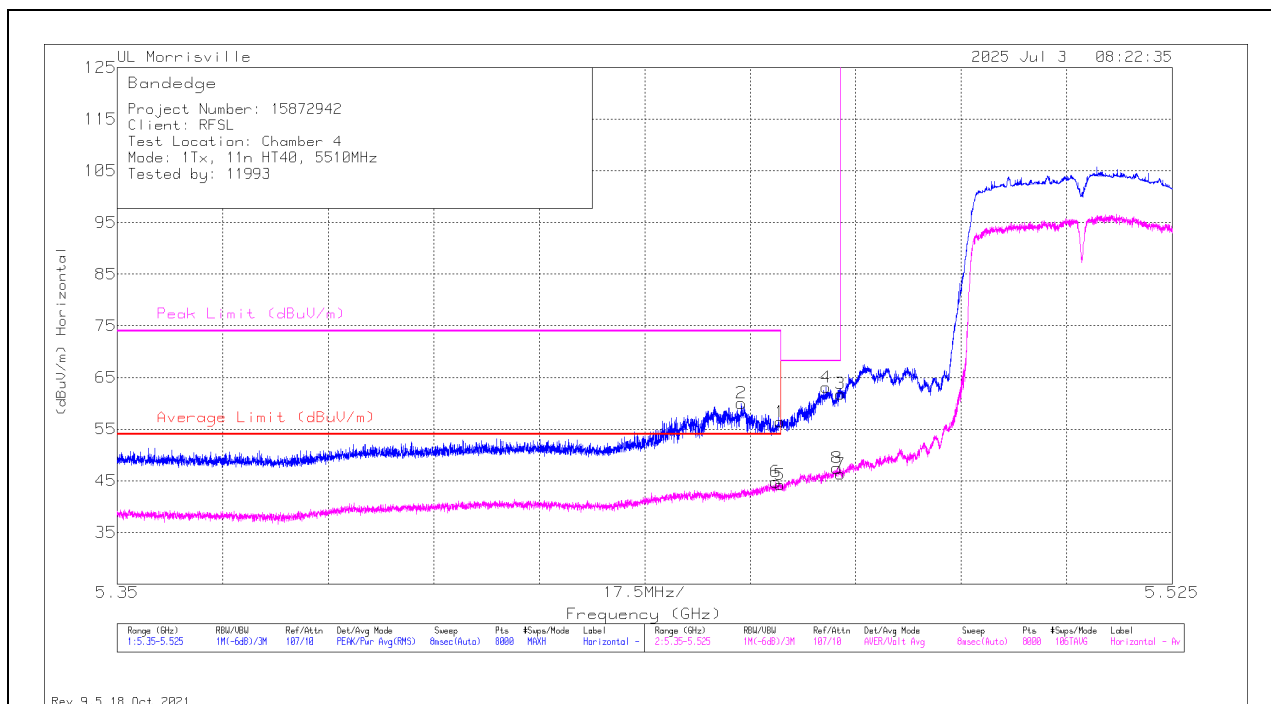
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1.9. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	40.69	Pk	34.4	-18.7	0	56.39	-	-	74	-17.61	24	109	H
2	*** 5.45353	45.11	Pk	34.4	-19.5	0	60.01	-	-	74	-13.99	24	109	H
5	*** 5.45998	27.95	ADV	34.4	-18.7	.57	44.22	54	-9.78	-	-	24	109	H
6	*** 5.45926	28.63	ADV	34.4	-18.8	.57	44.8	54	-9.2	-	-	24	109	H
4	5.46755	47	Pk	34.4	-18.3	0	63.1	-	-	68.2	-5.1	24	109	H
8	5.46939	30.81	ADV	34.4	-18.3	.57	47.48	-	-	-	-	24	109	H
3	5.46998	45.73	Pk	34.4	-18.3	0	61.83	-	-	68.2	-6.37	24	109	H
7	5.46998	29.62	ADV	34.4	-18.3	.57	46.29	-	-	-	-	24	109	H

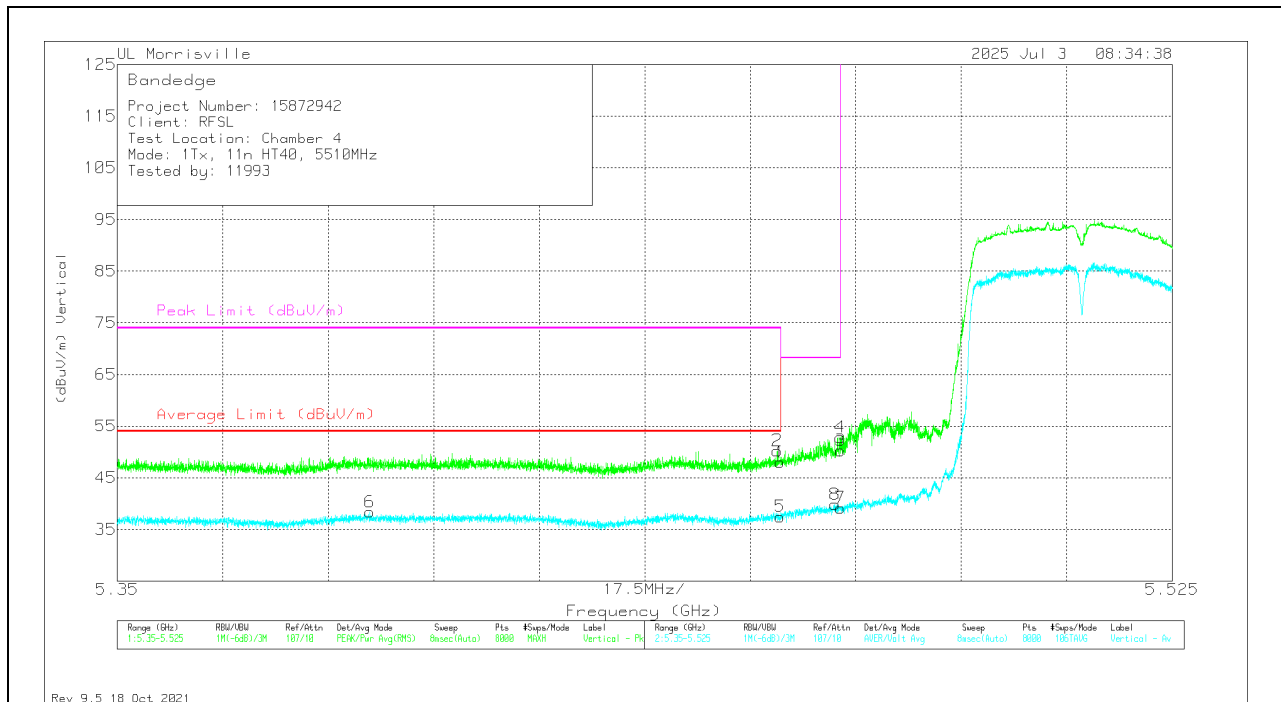
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	32.28	Pk	34.4	-18.7	0	47.98	-	-	74	-26.02	291	388	V
2	* ** 5.45948	34.62	Pk	34.4	-18.8	0	50.22	-	-	74	-23.78	291	388	V
5	* ** 5.45998	21.2	ADV	34.4	-18.7	.57	37.47	54	-16.53	-	-	291	388	V
6	* ** 5.39192	22.49	ADV	34.4	-19.1	.57	38.36	54	-15.64	-	-	291	388	V
8	5.46906	23.15	ADV	34.4	-18.3	.57	39.82	-	-	-	-	291	388	V
4	5.46991	36.72	Pk	34.4	-18.3	0	52.82	-	-	68.2	-15.38	291	388	V
3	5.46998	34.18	Pk	34.4	-18.3	0	50.28	-	-	68.2	-17.92	291	388	V
7	5.46998	22.49	ADV	34.4	-18.3	.57	39.16	-	-	-	-	291	388	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

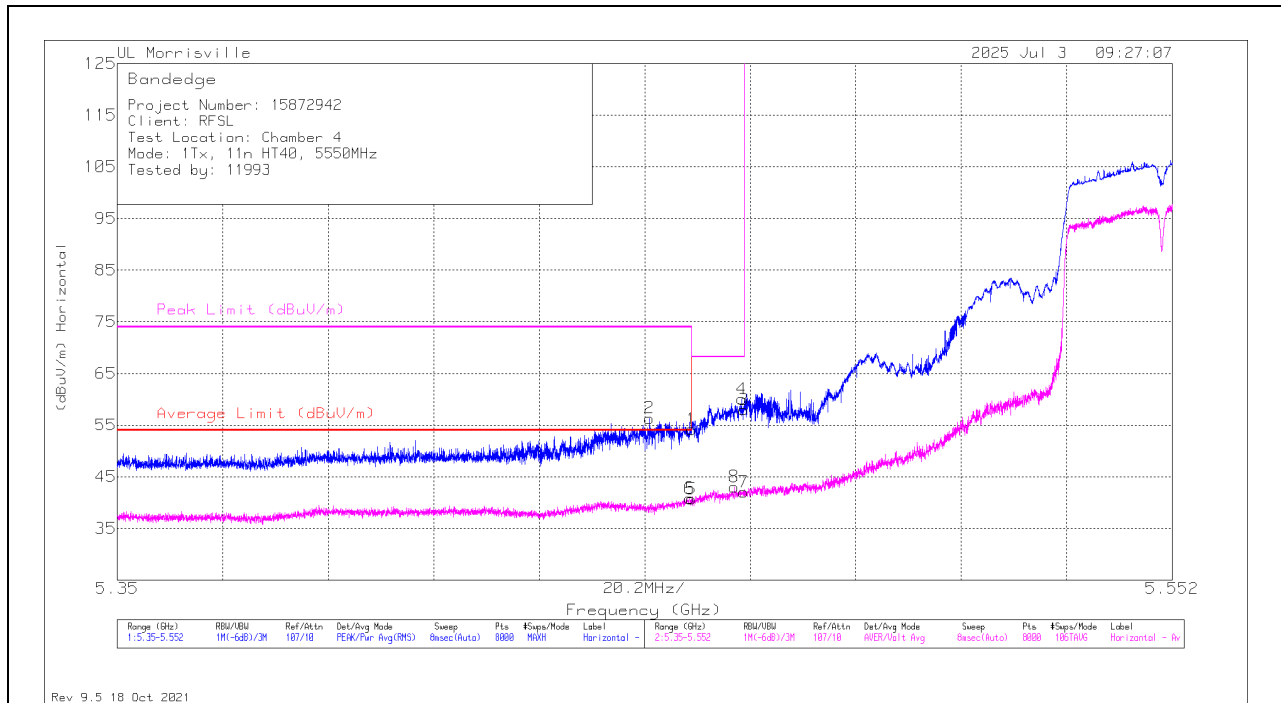
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	38.47	Pk	34.4	-18.7	0	54.17	-	-	74	-19.83	35	127	H
2	* ** 5.45192	41.35	Pk	34.4	-19.4	0	56.35	-	-	74	-17.65	35	127	H
5	* ** 5.45998	24.41	ADV	34.4	-18.7	.57	40.68	54	-13.32	-	-	35	127	H
6	* ** 5.45957	24.66	ADV	34.4	-18.8	.57	40.83	54	-13.17	-	-	35	127	H
8	5.46816	26.36	ADV	34.4	-18.3	.57	43.03	-	-	-	-	35	127	H
4	5.4696	43.94	Pk	34.4	-18.3	0	60.04	-	-	68.2	-8.16	35	127	H
3	5.46998	41.87	Pk	34.4	-18.3	0	57.97	-	-	68.2	-10.23	35	127	H
7	5.46998	25.34	ADV	34.4	-18.3	.57	42.01	-	-	-	-	35	127	H

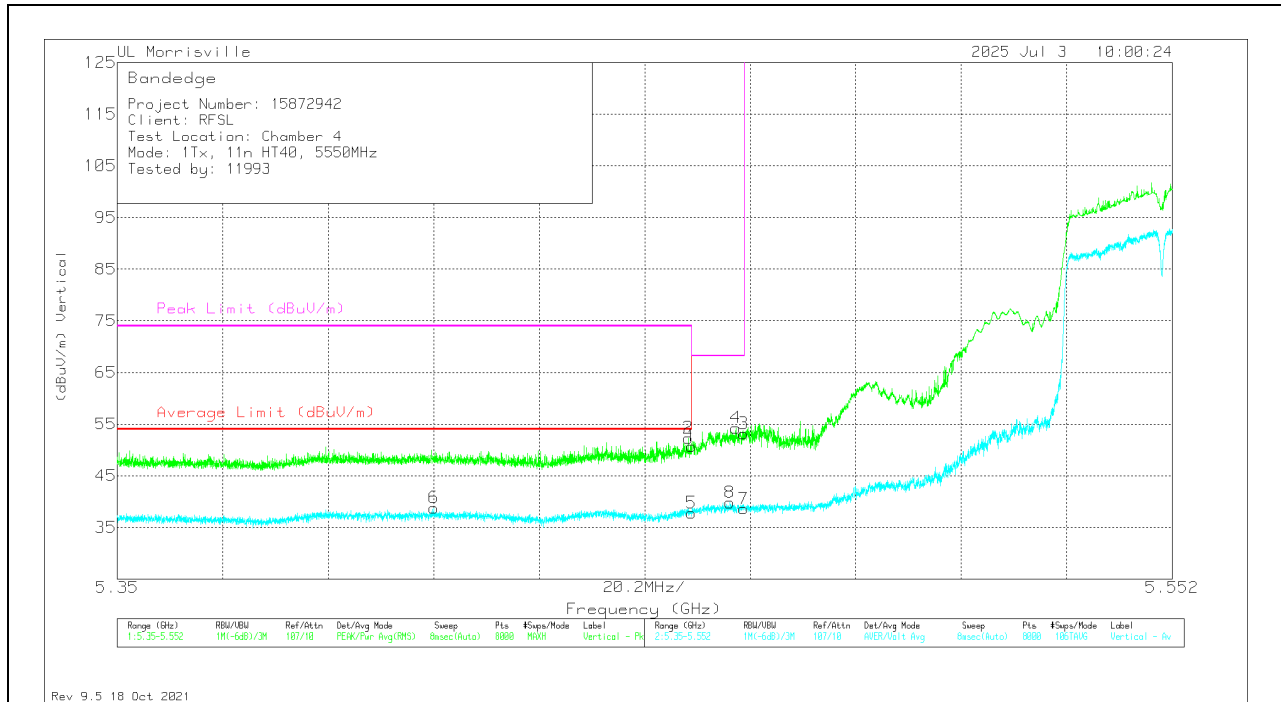
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	35.04	Pk	34.4	-18.7	0	50.74	-	-	74	-23.26	291	118	V
2	*** 5.45935	36.71	Pk	34.4	-18.8	0	52.31	-	-	74	-21.69	291	118	V
5	*** 5.45998	21.51	ADV	34.4	-18.7	.57	37.78	54	-16.22	-	-	291	118	V
6	*** 5.41063	22.73	ADV	34.4	-18.9	.57	38.8	54	-15.2	-	-	291	118	V
8	5.46733	23.14	ADV	34.4	-18.3	.57	39.81	-	-	-	-	291	118	V
4	5.46844	38.18	Pk	34.4	-18.3	0	54.28	-	-	68.2	-13.92	291	118	V
3	5.46998	37.05	Pk	34.4	-18.3	0	53.15	-	-	68.2	-15.05	291	118	V
7	5.46998	21.93	ADV	34.4	-18.3	.57	38.6	-	-	-	-	291	118	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

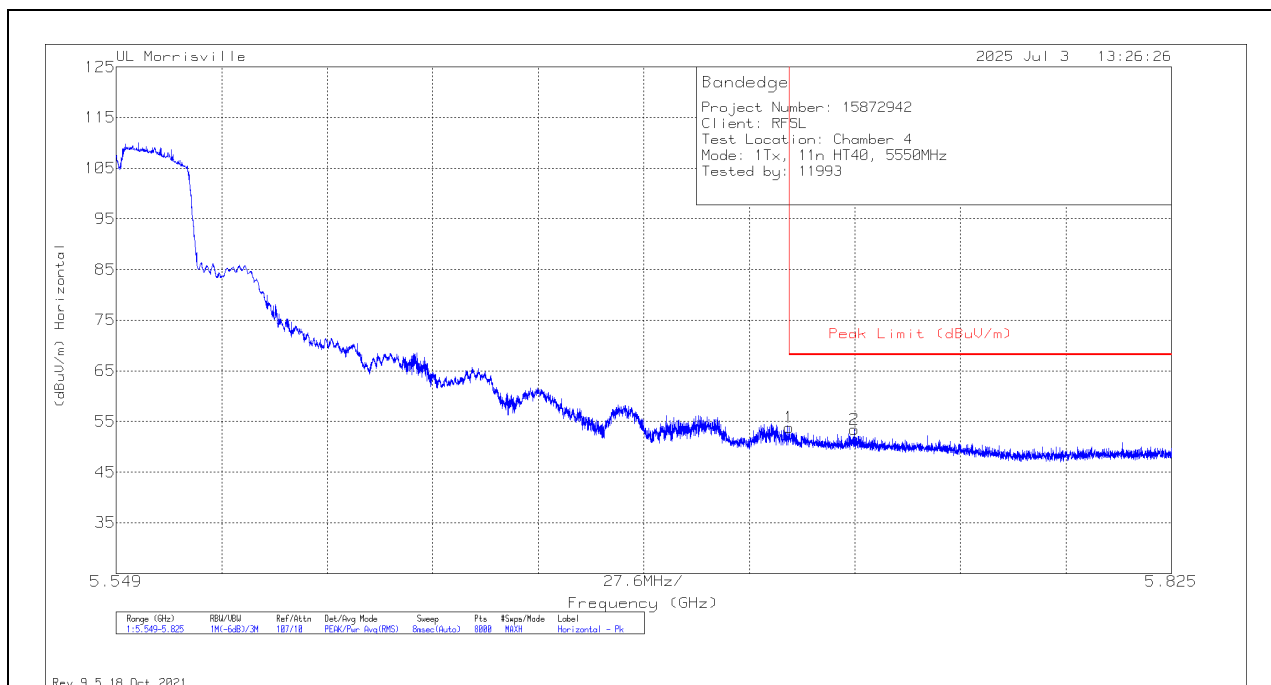
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

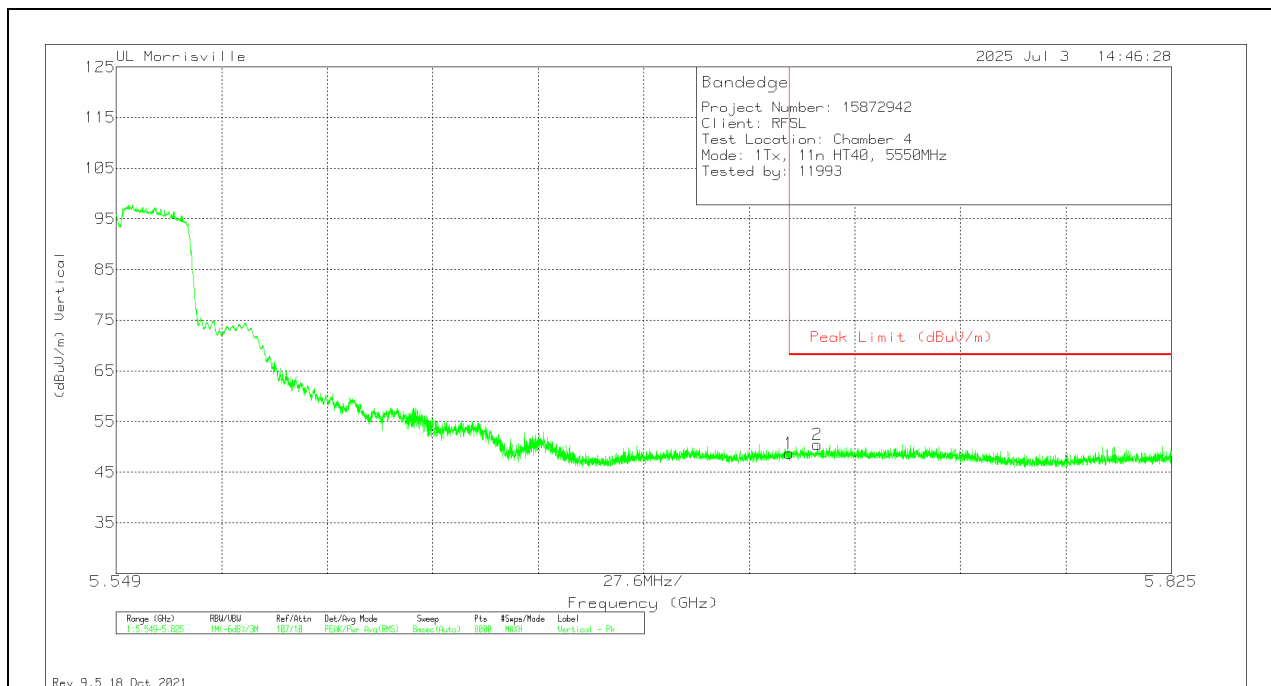
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.64	Pk	34.5	-18.3	53.84	68.2	-14.36	25	109	H
2	5.74205	37.09	Pk	34.5	-18.2	53.39	68.2	-14.81	25	109	H

Pk - Peak detector

VERTICAL RESULT

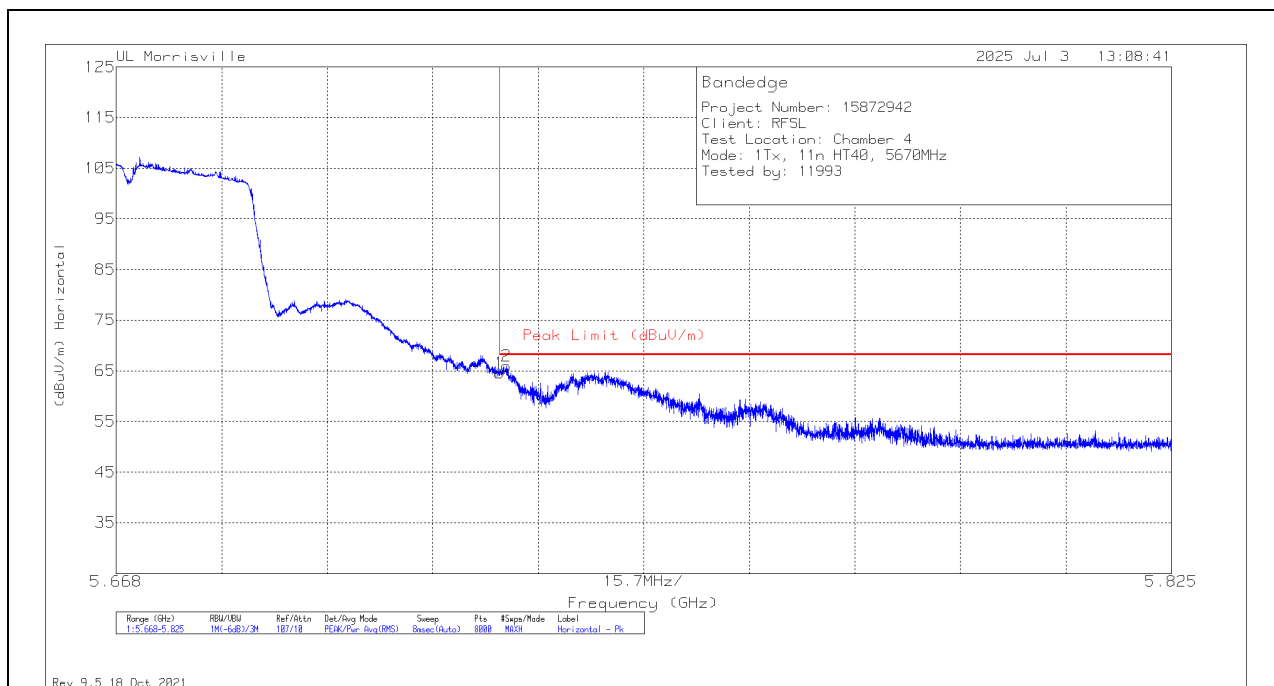


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	32.56	Pk	34.5	-18.3	48.76	68.2	-19.44	283	107	V
2	5.73235	34	Pk	34.5	-18	50.5	68.2	-17.7	283	107	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

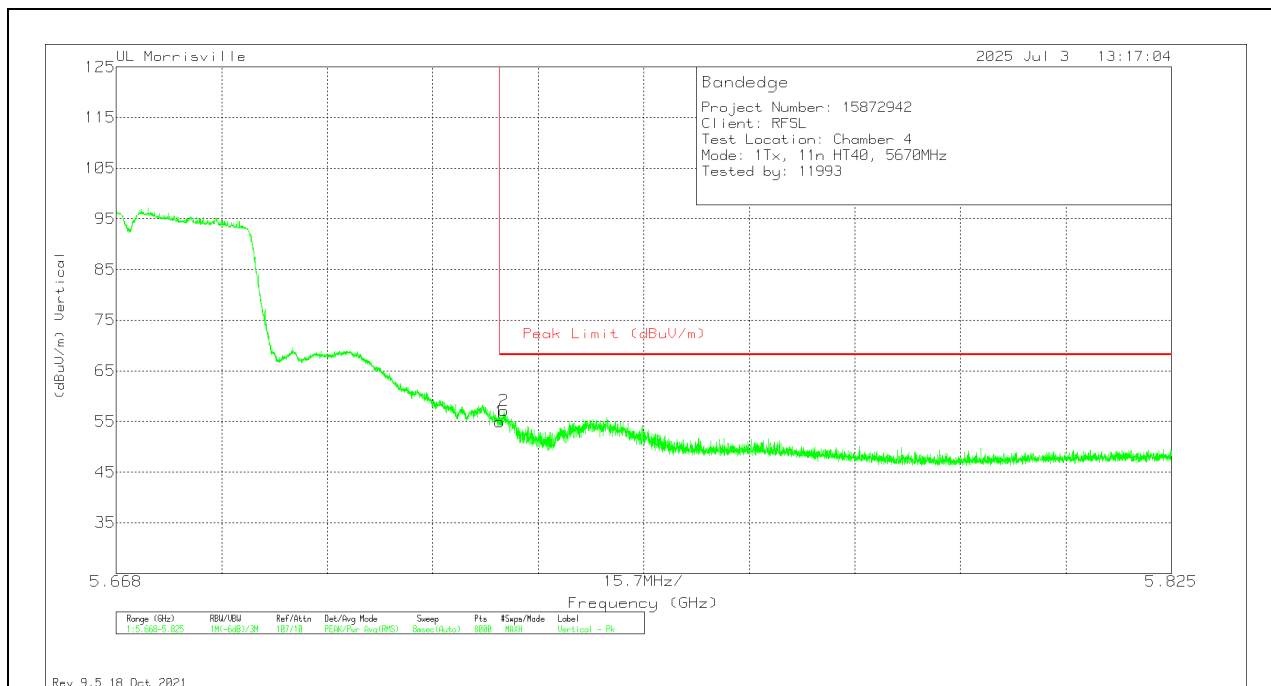
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	48.37	Pk	34.5	-18.3	64.57	68.2	-3.63	24	102	H
2	5.72604	49.61	Pk	34.5	-18.2	65.91	68.2	-2.29	24	102	H

Pk - Peak detector

VERTICAL RESULT



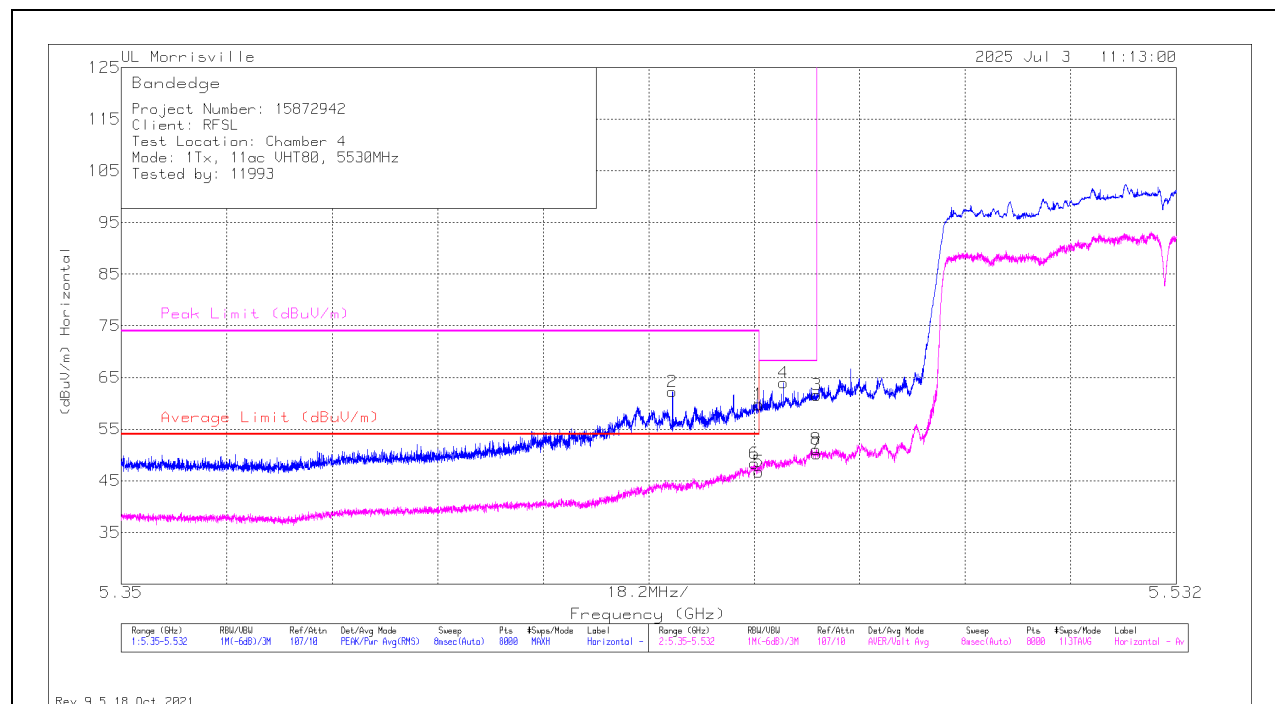
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	38.69	Pk	34.5	-18.3	54.89	68.2	-13.31	285	101	V
2	5.72572	40.95	Pk	34.5	-18.3	57.15	68.2	-11.05	285	101	V

Pk - Peak detector

10.1.10. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

BANDEGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45999	44.08	Pk	34.4	-18.7	0	59.78	-	-	74	-14.22	17	102	H
2	*** 5.44508	46.53	Pk	34.4	-18.7	0	62.23	-	-	74	-11.77	17	102	H
5	*** 5.45999	29.92	ADV	34.4	-18.7	1.12	46.74	54	-7.26	-	-	17	102	H
6	*** 5.45924	31.64	ADV	34.4	-18.8	1.12	48.36	54	-5.64	-	-	17	102	H
4	5.46422	47.85	Pk	34.4	-18.3	0	63.95	-	-	68.2	-4.25	17	102	H
8	5.46986	33.83	ADV	34.4	-18.3	1.12	51.05	-	-	-	-	17	102	H
3	5.47	45.51	Pk	34.4	-18.3	0	61.61	-	-	68.2	-6.59	17	102	H
7	5.47	32.98	ADV	34.4	-18.3	1.12	50.20	-	-	-	-	17	102	H

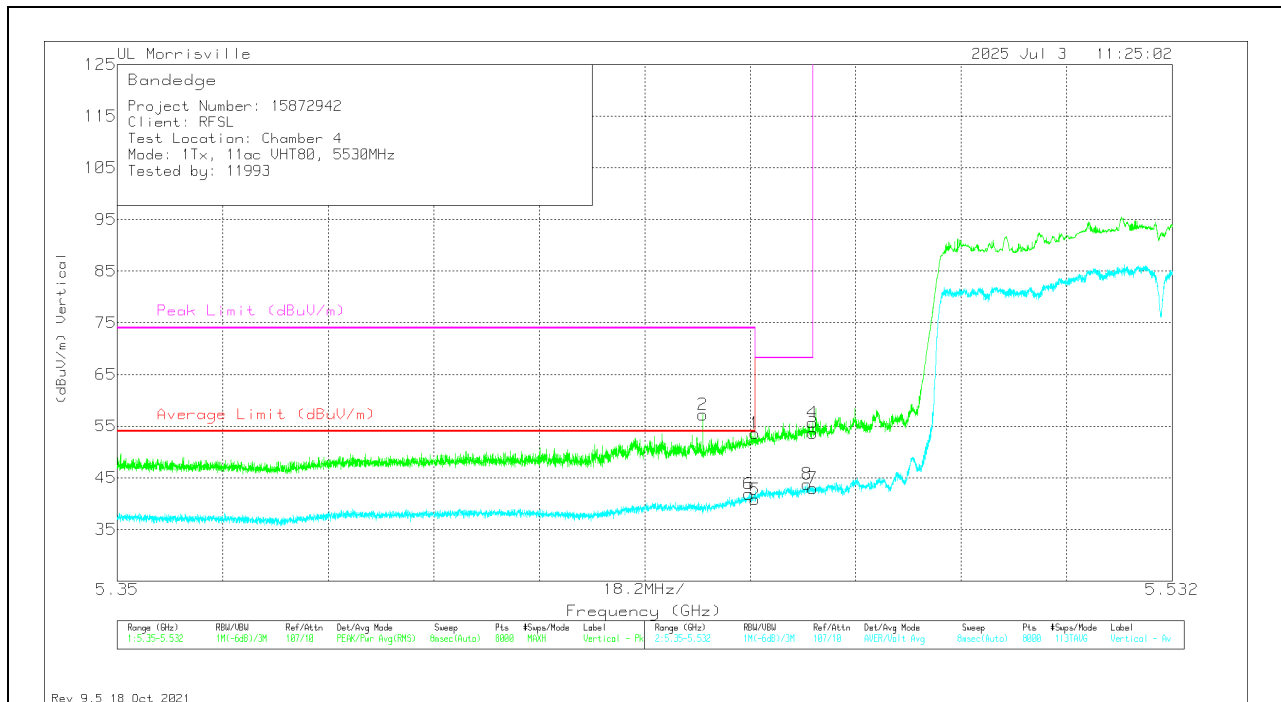
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45999	37.92	Pk	34.4	-18.7	0	53.62	-	-	74	-20.38	287	104	V
2	* ** 5.45098	42.12	Pk	34.4	-19.3	0	57.22	-	-	74	-16.78	287	104	V
5	* ** 5.45999	23.96	ADV	34.4	-18.7	1.12	40.78	54	-13.22	-	-	287	104	V
6	* ** 5.45899	25.15	ADV	34.4	-18.8	1.12	41.87	54	-12.13	-	-	287	104	V
8	5.46902	26.54	ADV	34.4	-18.3	1.12	43.76	-	-	-	-	287	104	V
4	5.46993	39.58	Pk	34.4	-18.3	0	55.68	-	-	68.2	-12.52	287	104	V
3	5.47	37.58	Pk	34.4	-18.3	0	53.68	-	-	68.2	-14.52	287	104	V
7	5.47	25.73	ADV	34.4	-18.3	1.12	42.95	-	-	-	-	287	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

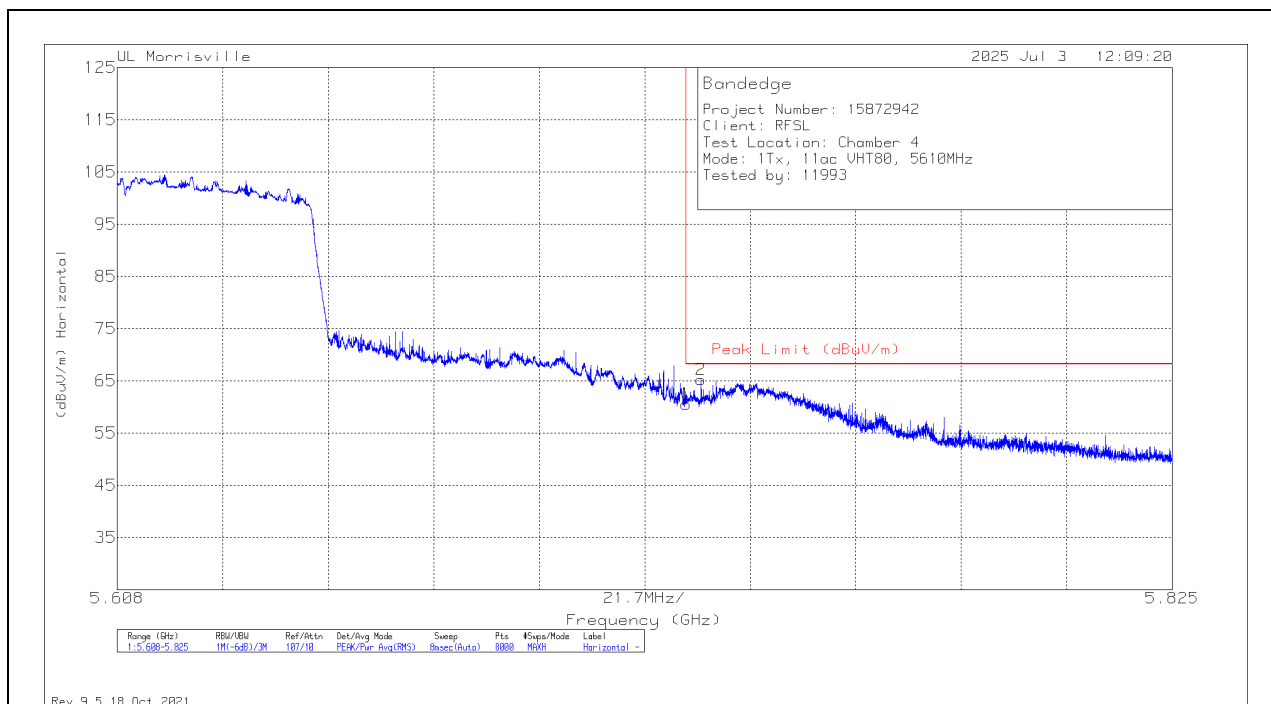
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

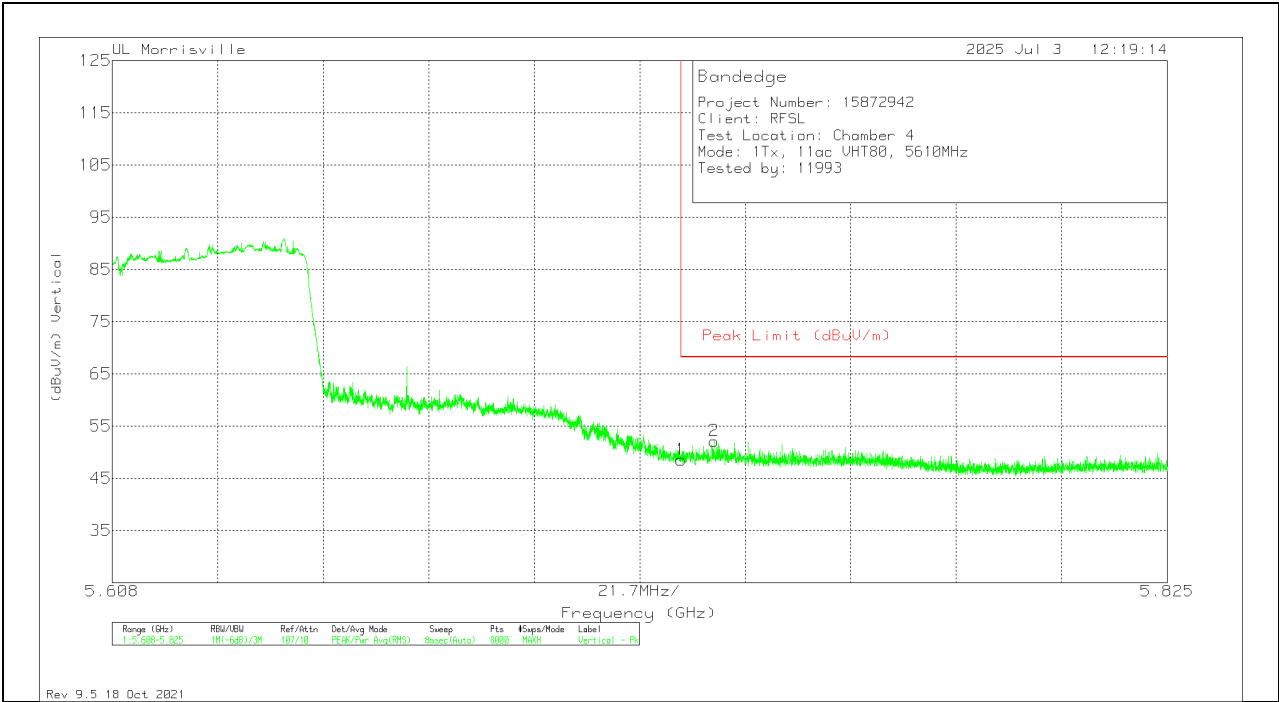
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	44.32	Pk	34.5	-18.3	60.52	68.2	-7.68	18	109	H
2	5.72807	48.82	Pk	34.5	-18.1	65.22	68.2	-2.98	18	109	H

Pk - Peak detector

VERTICAL RESULT



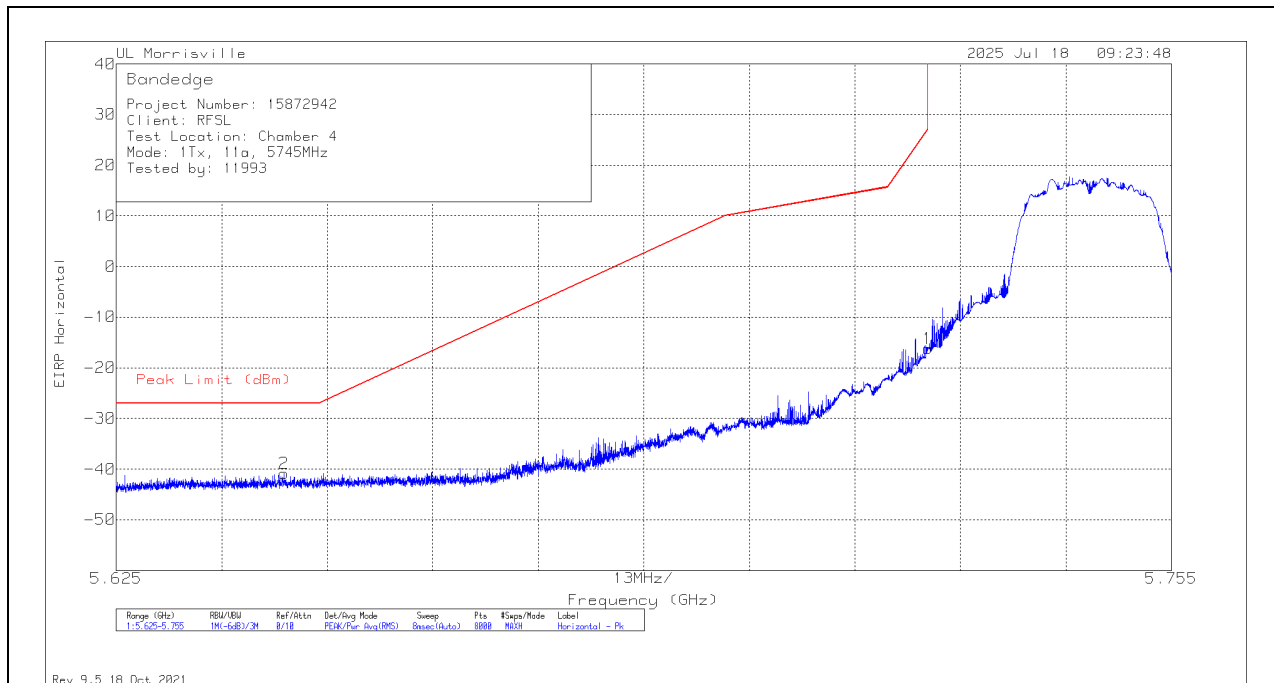
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	32.34	Pk	34.5	-18.3	48.54	68.2	-19.66	285	365	V
2	5.73181	35.65	Pk	34.5	-18	52.15	68.2	-16.05	285	365	V

Pk - Peak detector

10.1.11. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

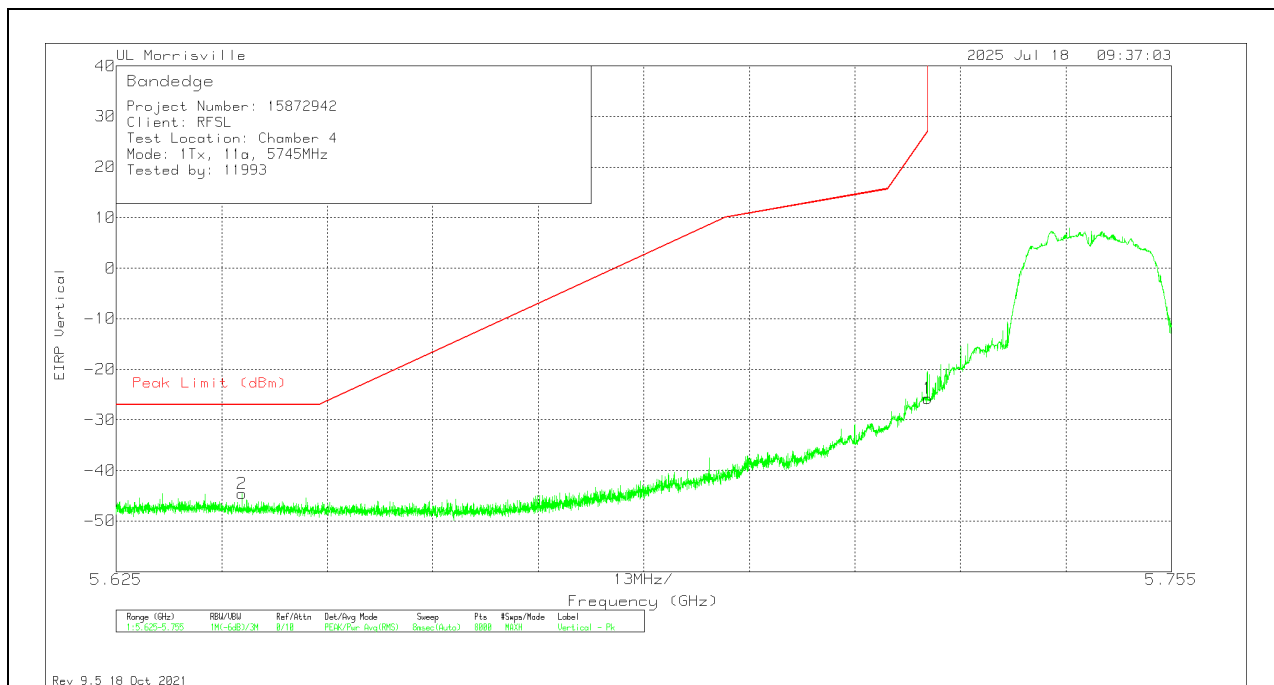
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64567	-68.24	Pk	34.4	-18.8	11.8	-40.84	-27	-13.84	22	107	H
1	5.725	-44.24	Pk	34.5	-18.3	11.8	-16.24	27	-43.24	22	107	H

Pk - Peak detector

VERTICAL RESULT

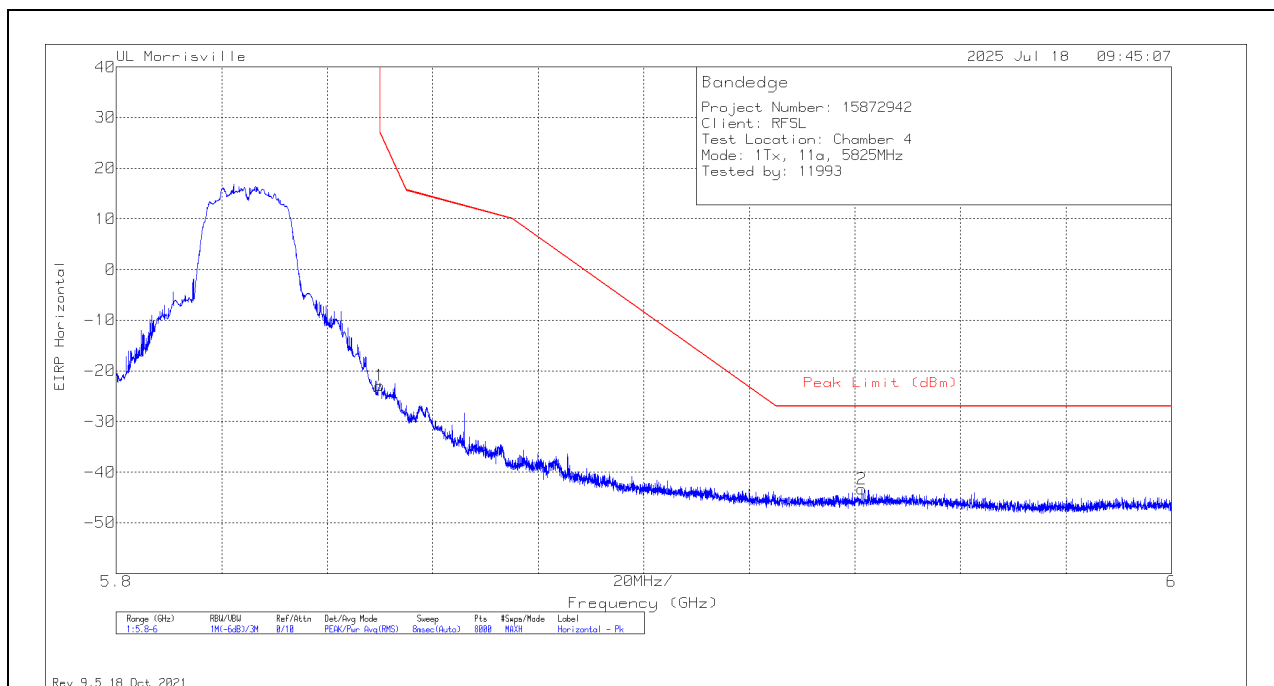


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64052	-72.03	Pk	34.4	-18.7	11.8	-44.53	-27	-17.53	296	110	V
1	5.725	-53.74	Pk	34.5	-18.3	11.8	-25.74	27	-52.74	296	110	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

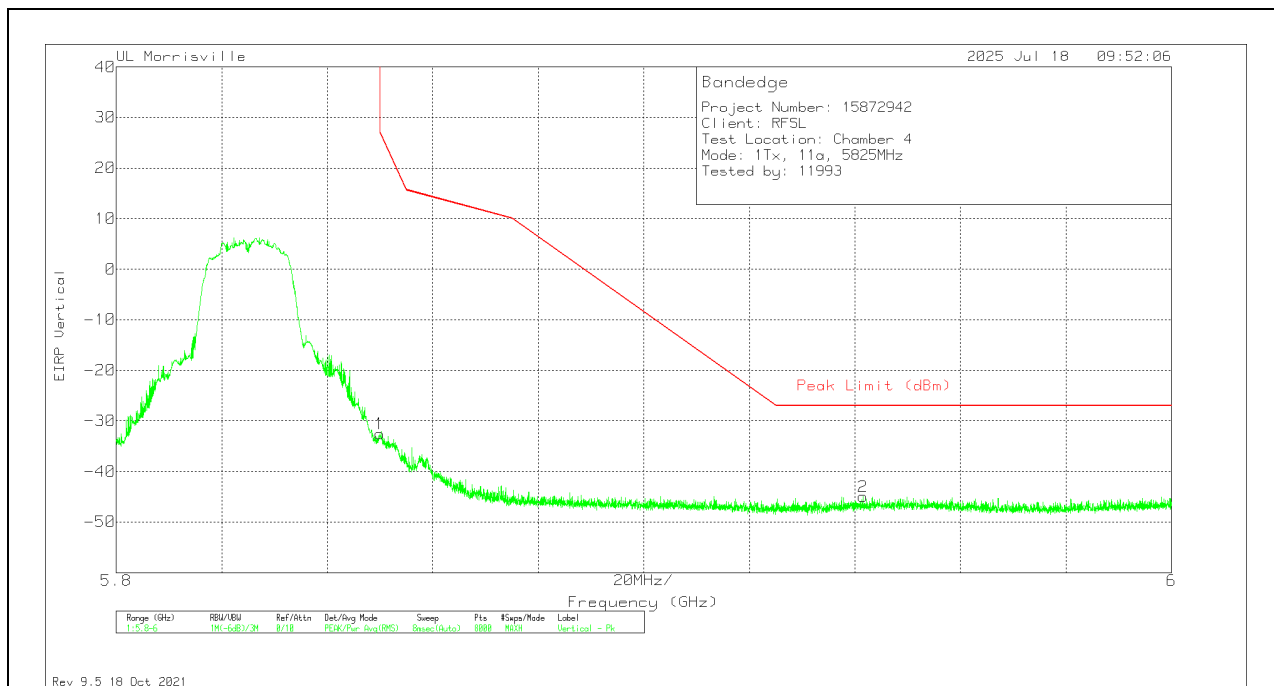
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-50.84	Pk	34.8	-18.7	11.8	-22.94	26.99	-49.93	27	109	H
2	5.94129	-71.57	Pk	35.1	-18.7	11.8	-43.37	-27	-16.37	27	109	H

Pk - Peak detector

VERTICAL RESULT

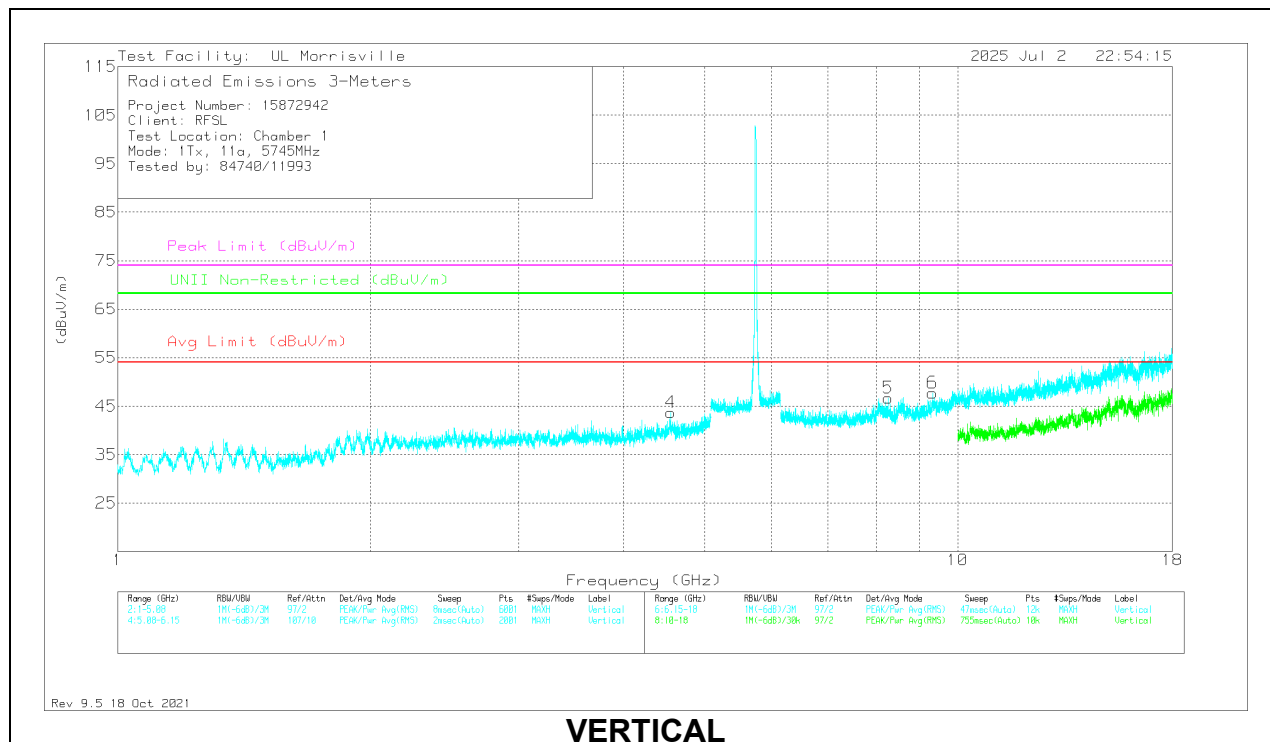
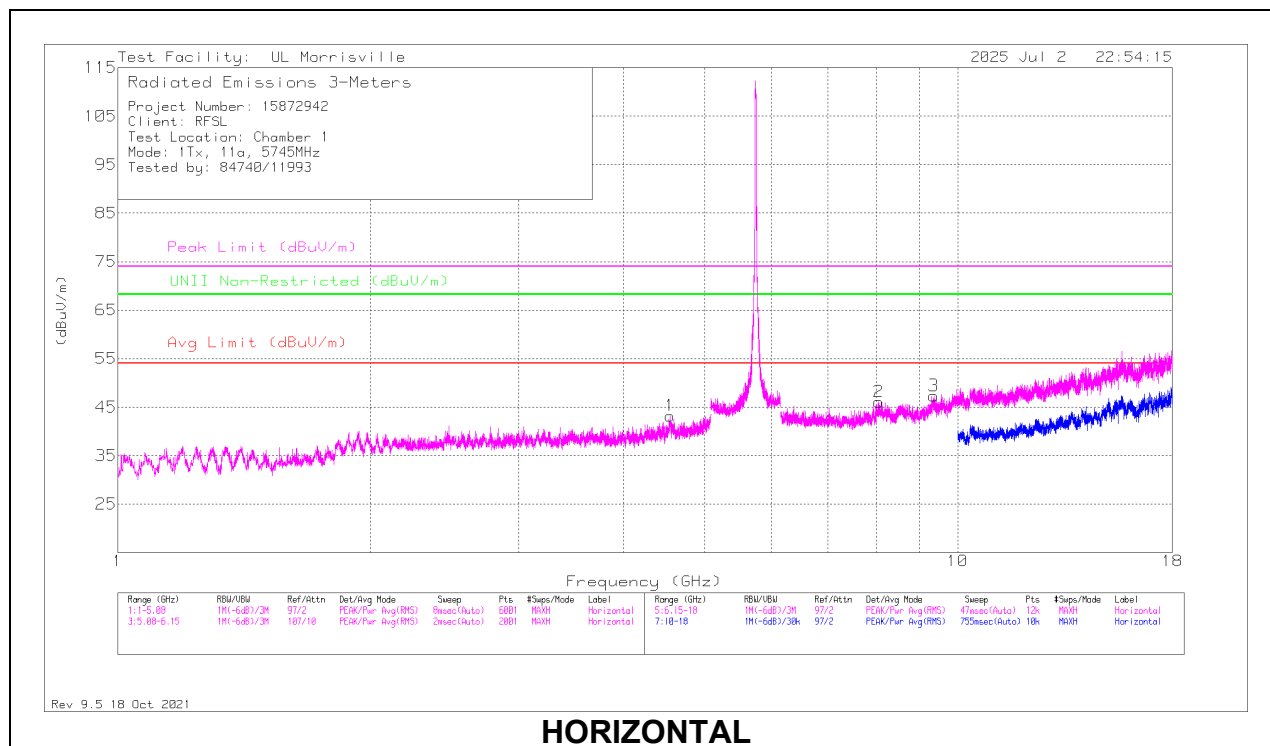


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-60.48	Pk	34.8	-18.7	11.8	-32.58	26.99	-59.57	292	398	V
2	5.94154	-73.29	Pk	35.1	-18.6	11.8	-44.99	-27	-17.99	292	398	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

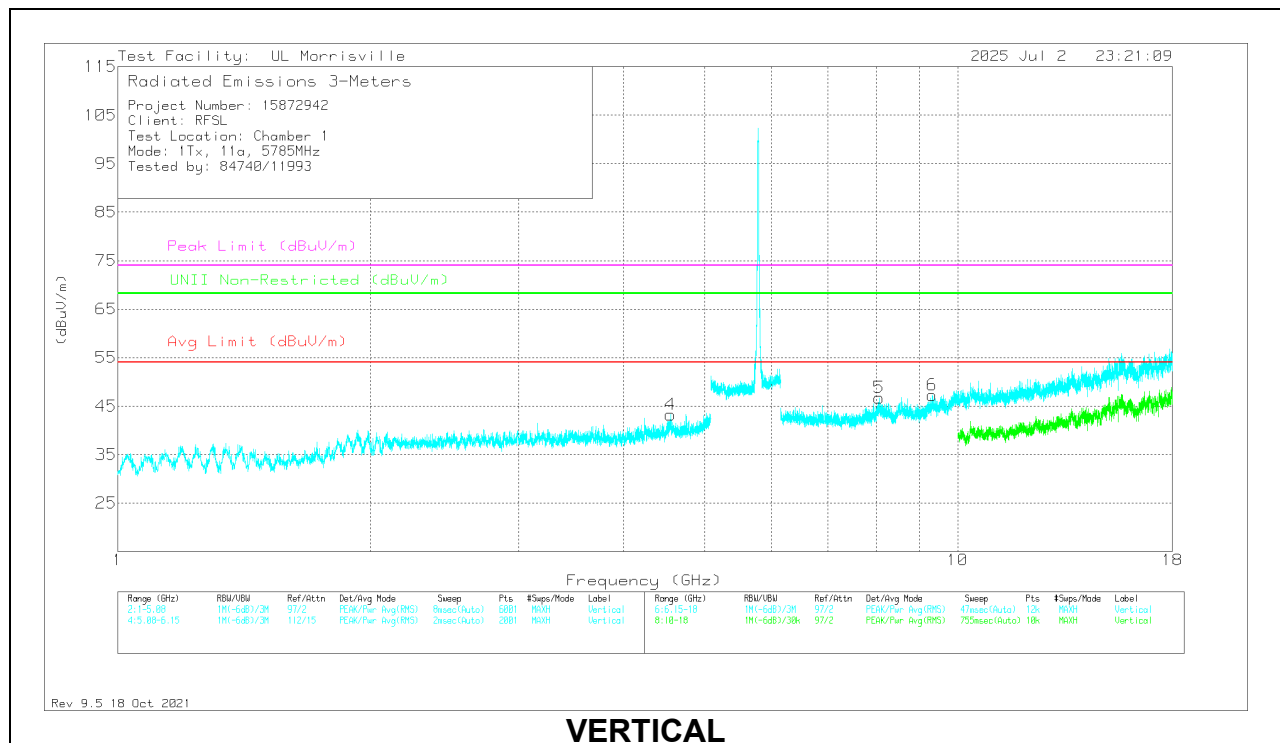
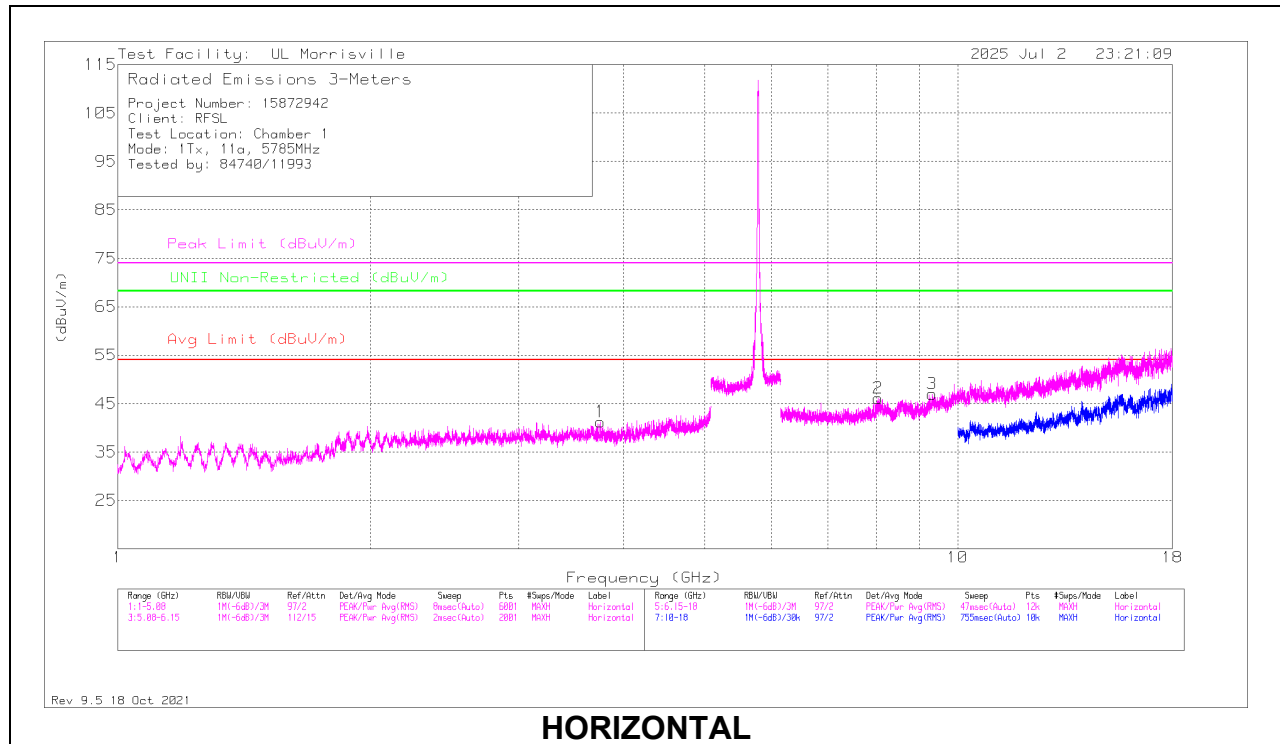
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.54756	54.3	Pk	33.9	-45	43.2	54	-10.8	74	-30.8	-	-	0-360	101	H
4	* ** 4.55232	54.98	Pk	33.9	-45.2	43.68	54	-10.32	74	-30.32	-	-	0-360	101	V
2	* ** 8.0539	50.98	Pk	35.9	-40.8	46.08	54	-7.92	74	-27.92	-	-	0-360	101	H
3	* ** 9.36234	51.3	Pk	36.2	-40.2	47.3	54	-6.7	74	-26.7	-	-	0-360	199	H
5	* ** 8.26029	51.76	Pk	35.9	-41	46.66	54	-7.34	74	-27.34	-	-	0-360	101	V
6	* ** 9.32975	51.22	Pk	36.2	-39.7	47.72	54	-6.28	74	-26.28	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

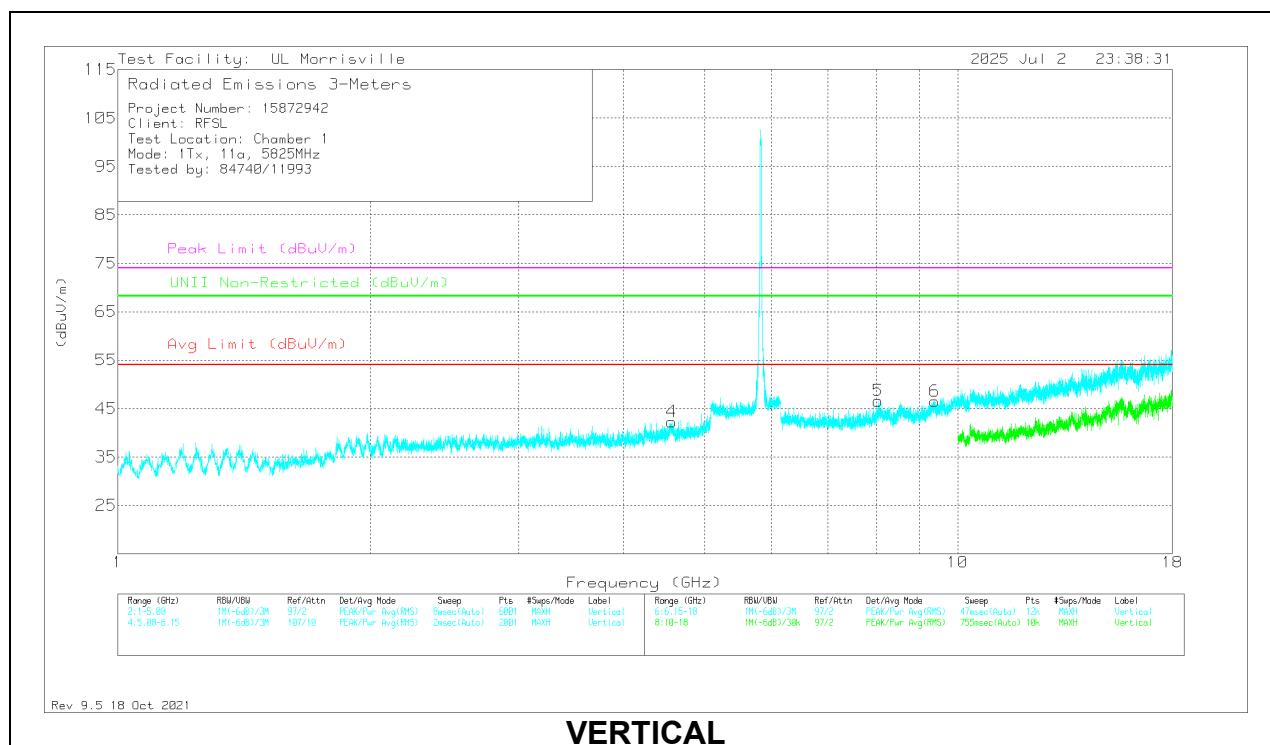
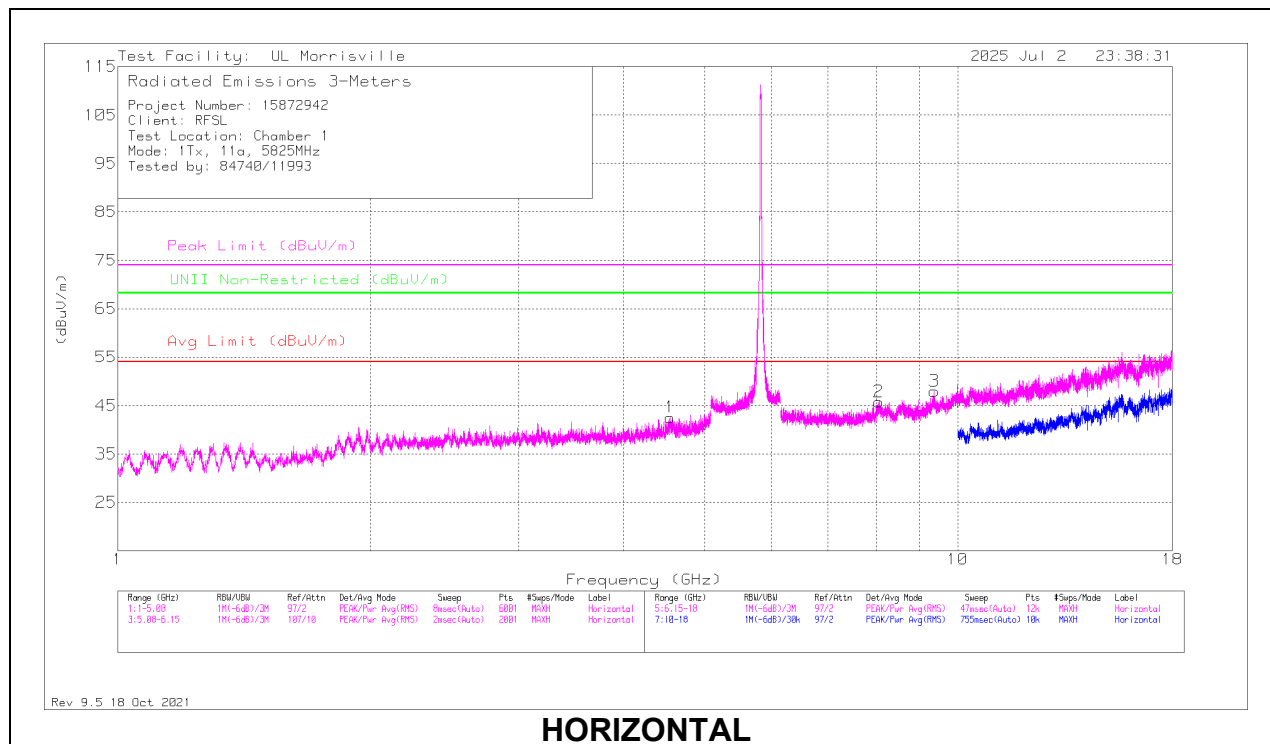
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.754	52.91	Pk	33.2	-44.9	41.21	54	-12.79	74	-32.79	-	-	0-360	200	H
4	* ** 4.5496	54.33	Pk	33.9	-45	43.23	54	-10.77	74	-30.77	-	-	0-360	101	V
2	* ** 8.03613	50.9	Pk	35.9	-40.7	46.1	54	-7.9	74	-27.9	-	-	0-360	101	H
3	* ** 9.32679	50.58	Pk	36.2	-39.8	46.98	54	-7.02	74	-27.02	-	-	0-360	199	H
5	* ** 8.06081	51.22	Pk	35.9	-40.4	46.72	54	-7.28	74	-27.28	-	-	0-360	101	V
6	* ** 9.3258	50.85	Pk	36.2	-39.8	47.25	54	-6.75	74	-26.75	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.54484	53.75	Pk	33.9	-45.1	42.55	54	-11.45	74	-31.45	-	-	0-360	101	H
4	* ** 4.56592	53.75	Pk	33.9	-45.4	42.25	54	-11.75	74	-31.75	-	-	0-360	200	V
2	* ** 8.05489	50.57	Pk	35.9	-40.7	45.77	54	-8.23	74	-28.23	-	-	0-360	199	H
3	* ** 9.37616	51.98	Pk	36.2	-40.2	47.98	54	-6.02	74	-26.02	-	-	0-360	199	H
5	* ** 8.03613	51.39	Pk	35.9	-40.7	46.59	54	-7.41	74	-27.41	-	-	0-360	101	V
6	* ** 9.389	50.8	Pk	36.2	-40.5	46.5	54	-7.5	74	-27.5	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

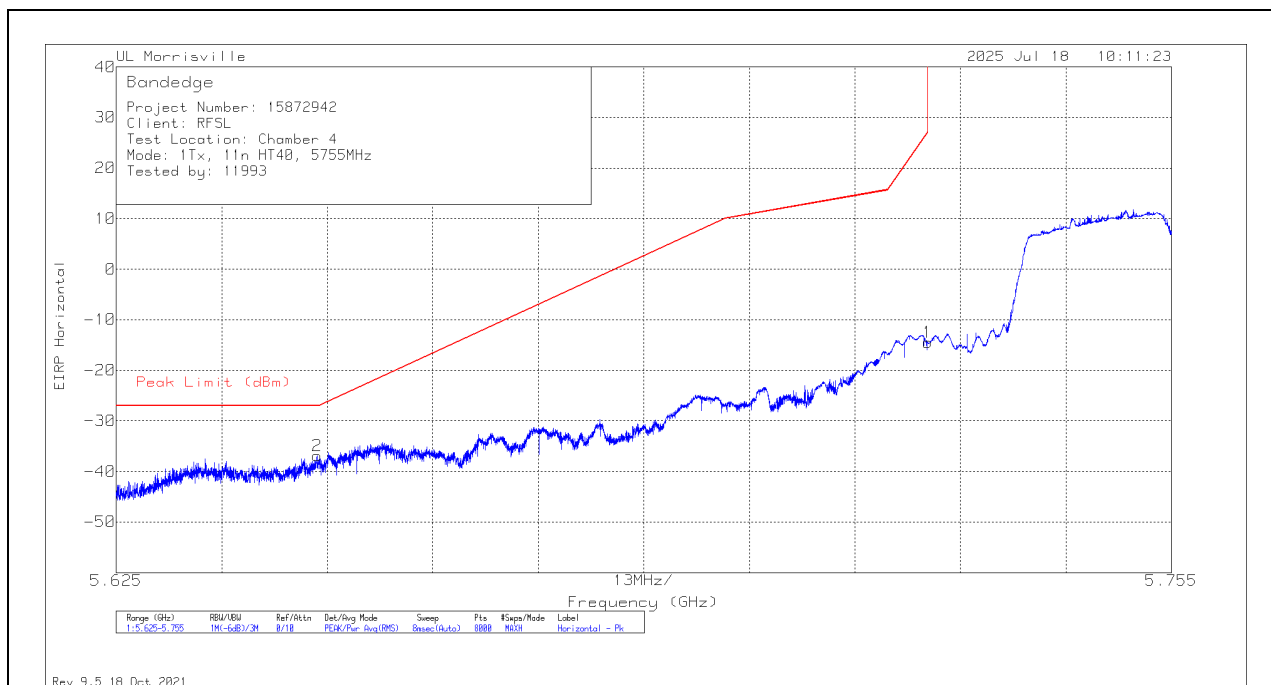
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1.12. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

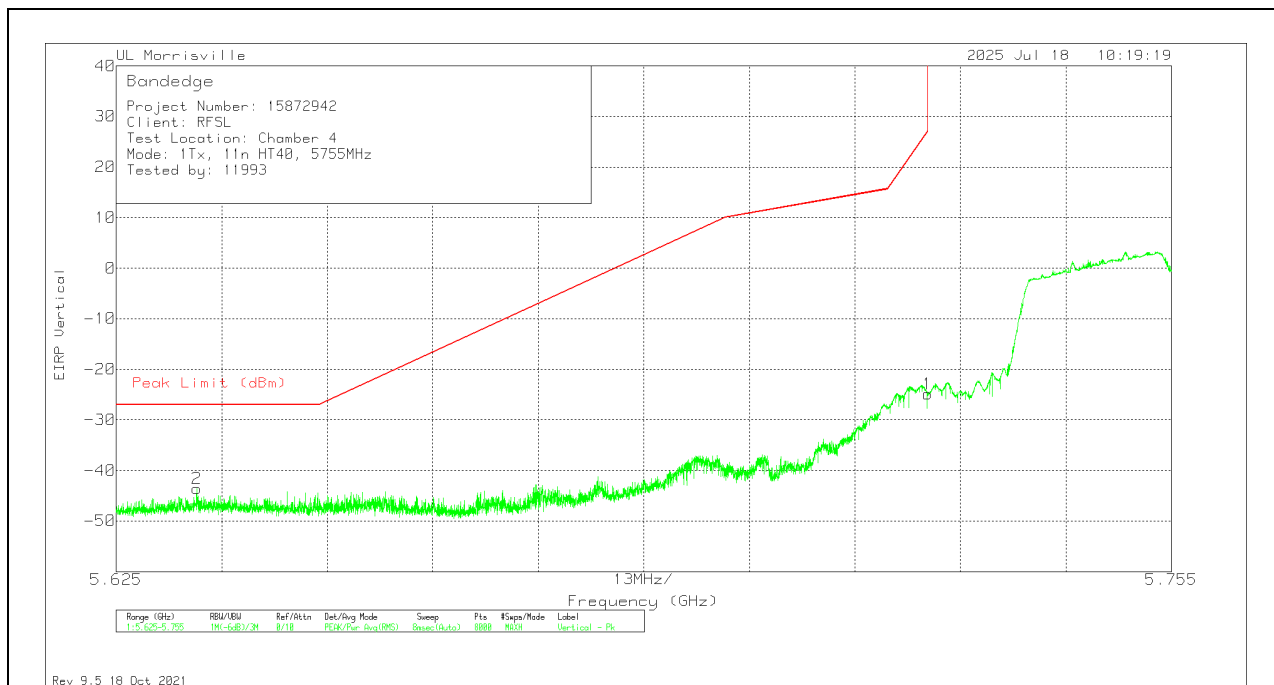
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64978	-64.14	Pk	34.4	-18.9	11.8	-36.84	-27	-9.84	0	121	H
1	5.725	-42.52	Pk	34.5	-18.3	11.8	-14.52	27	-41.52	0	121	H

Pk - Peak detector

VERTICAL RESULT

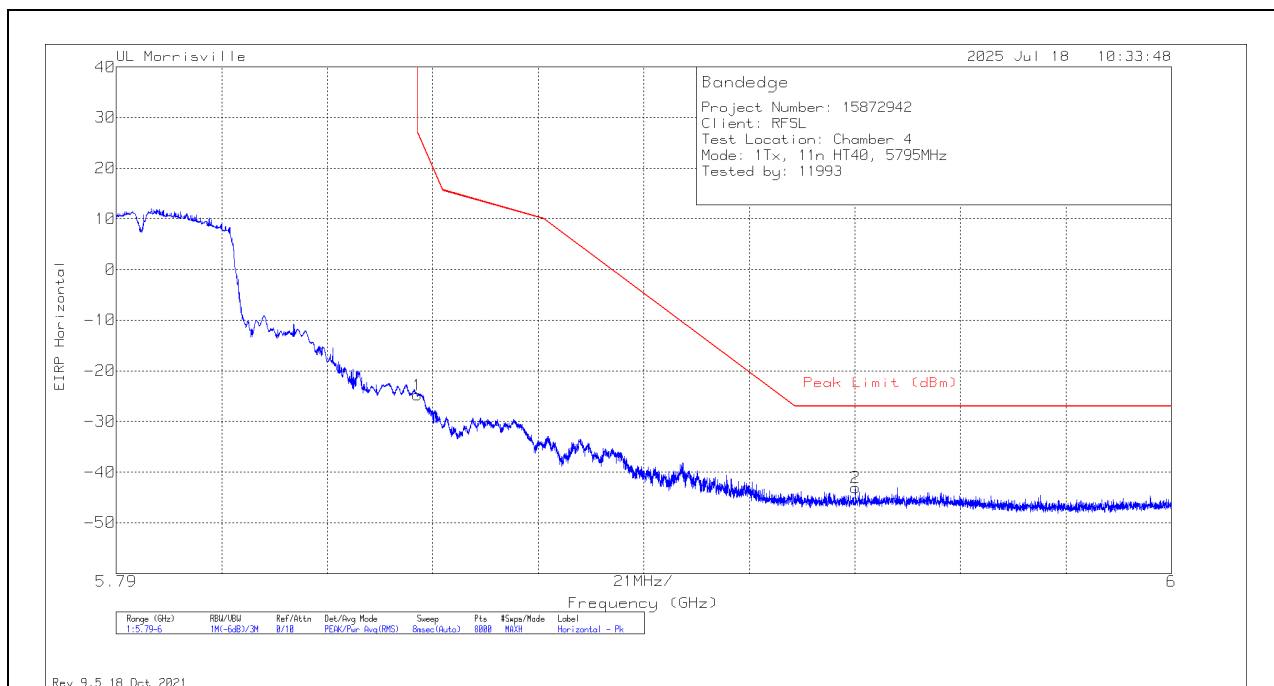


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63496	-71.23	Pk	34.4	-18.5	11.8	-43.53	-27	-16.53	290	369	V
1	5.725	-52.84	Pk	34.5	-18.3	11.8	-24.84	27	-51.84	290	369	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

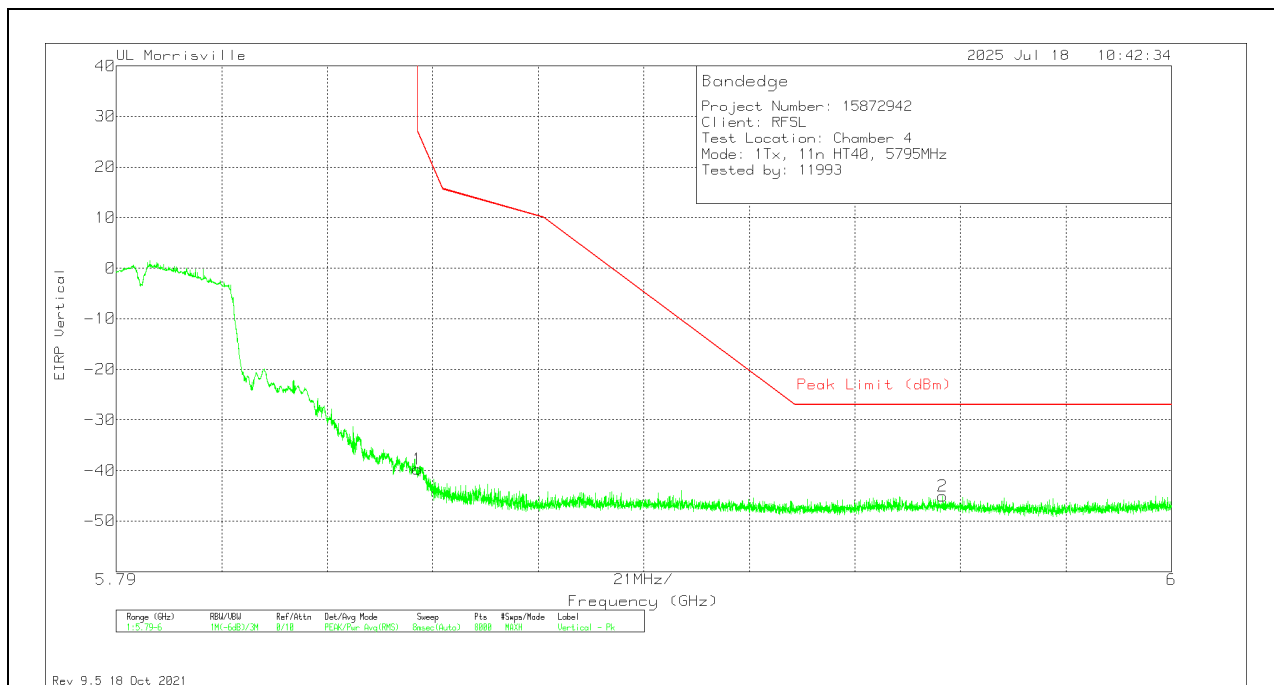
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-52.71	Pk	34.8	-18.7	11.8	-24.81	26.97	-51.78	27	110	H
2	5.93715	-70.97	Pk	35	-18.9	11.8	-43.07	-27	-16.07	27	110	H

Pk - Peak detector

VERTICAL RESULT



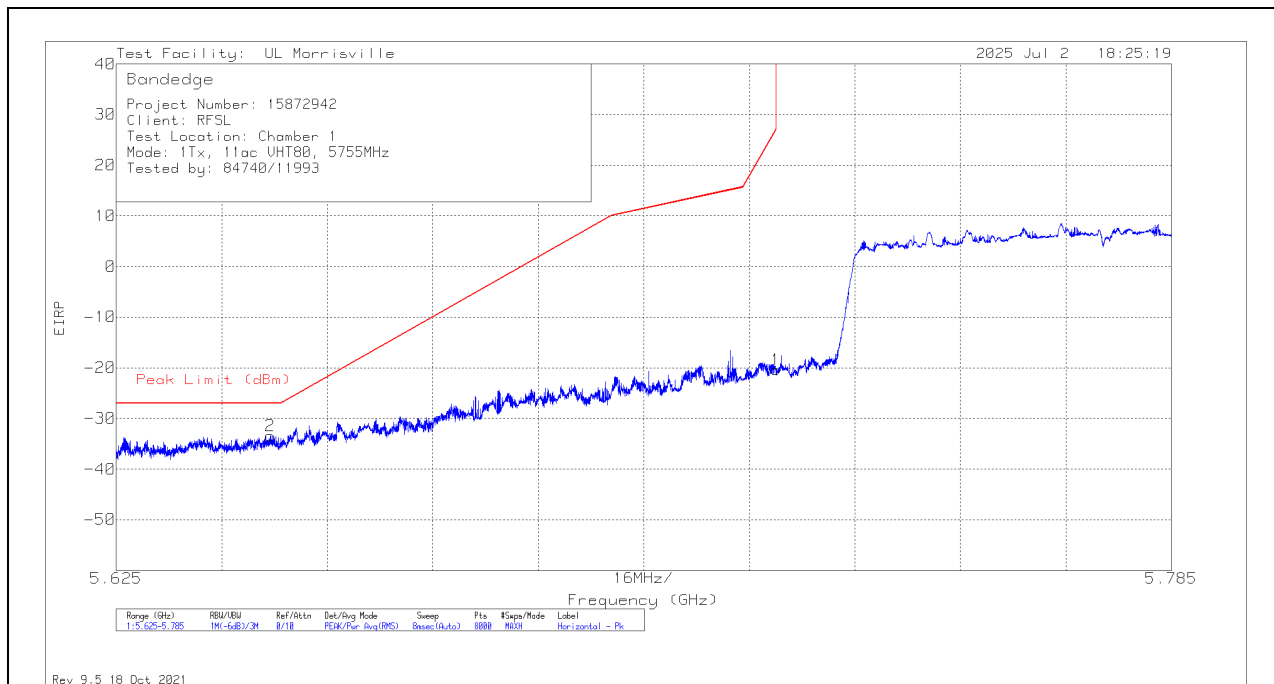
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-67.67	Pk	34.8	-18.7	11.8	-39.77	26.97	-66.74	265	393	V
2	5.95445	-73.49	Pk	35.1	-18.5	11.8	-45.09	-27	-18.09	265	393	V

Pk - Peak detector

10.1.13. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

BANDEDGE (LOW CHANNEL)

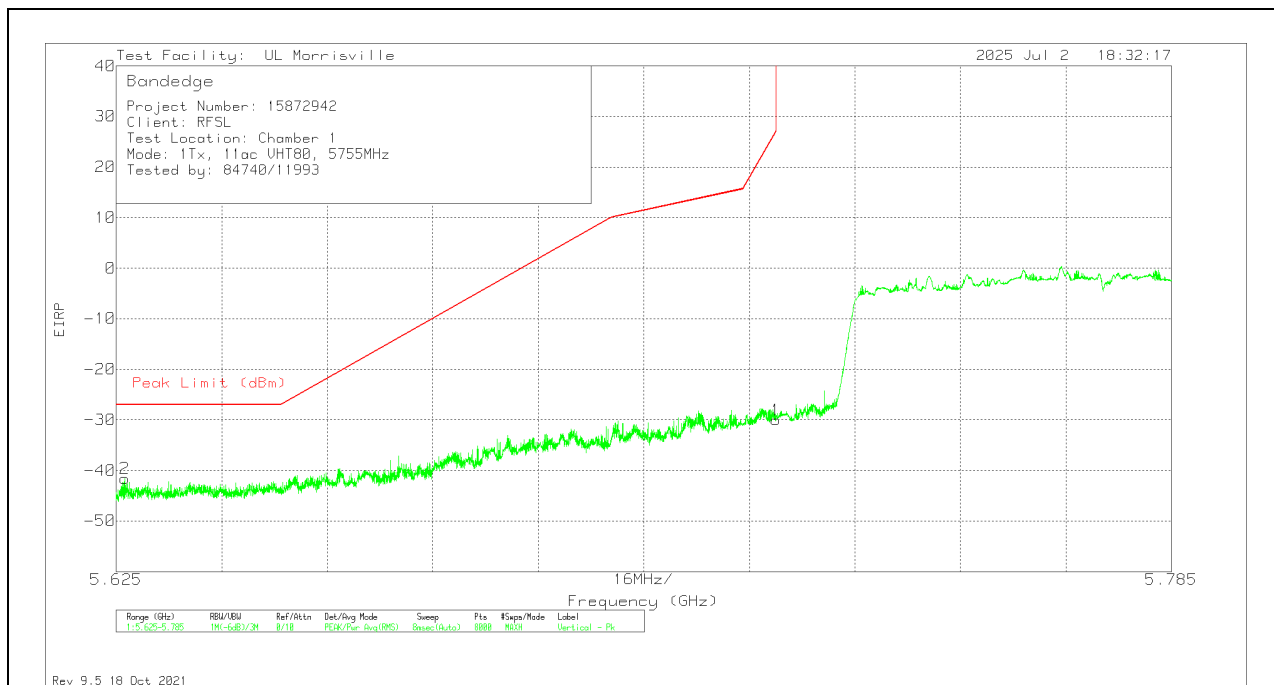
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64836	-56.69	Pk	34.6	-23.1	11.8	-33.39	-27	-6.39	335	105	H
1	5.725	-43.86	Pk	34.7	-23	11.8	-20.36	26.99	-47.35	335	105	H

Pk - Peak detector

VERTICAL RESULT

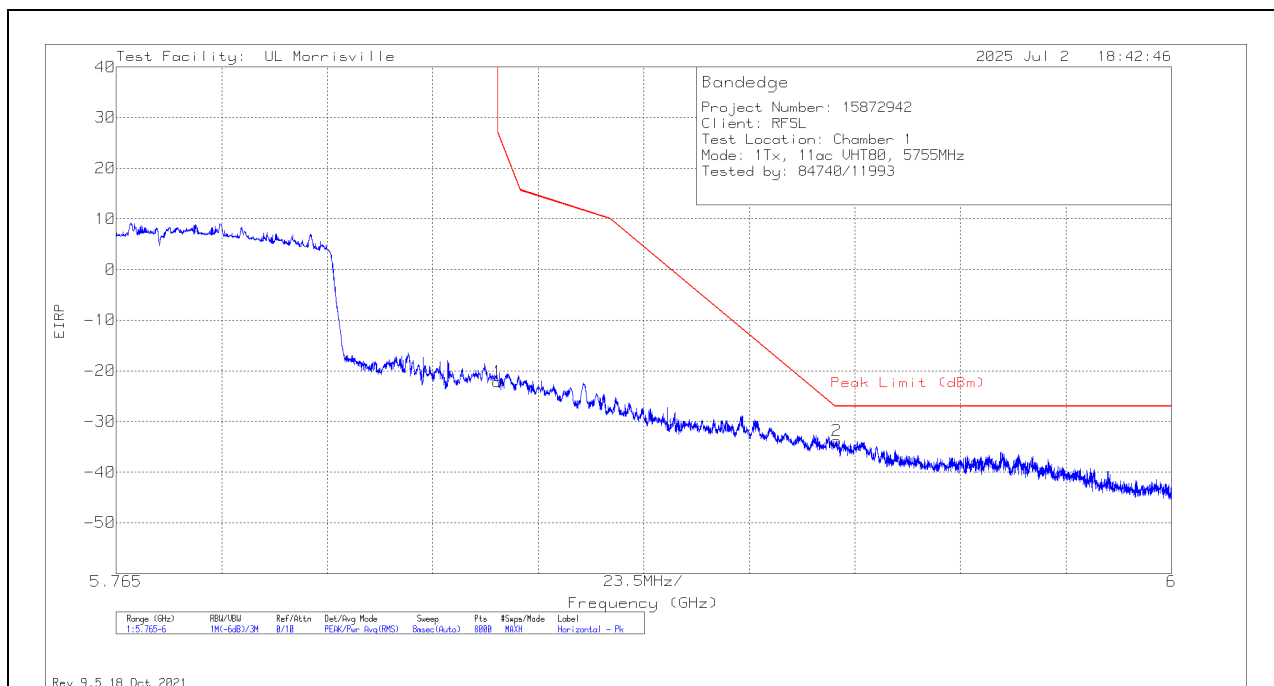


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62632	-65.2	Pk	34.6	-22.8	11.8	-41.6	-27	-14.6	210	104	V
1	5.725	-53.52	Pk	34.7	-23	11.8	-30.02	26.99	-57.01	210	104	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

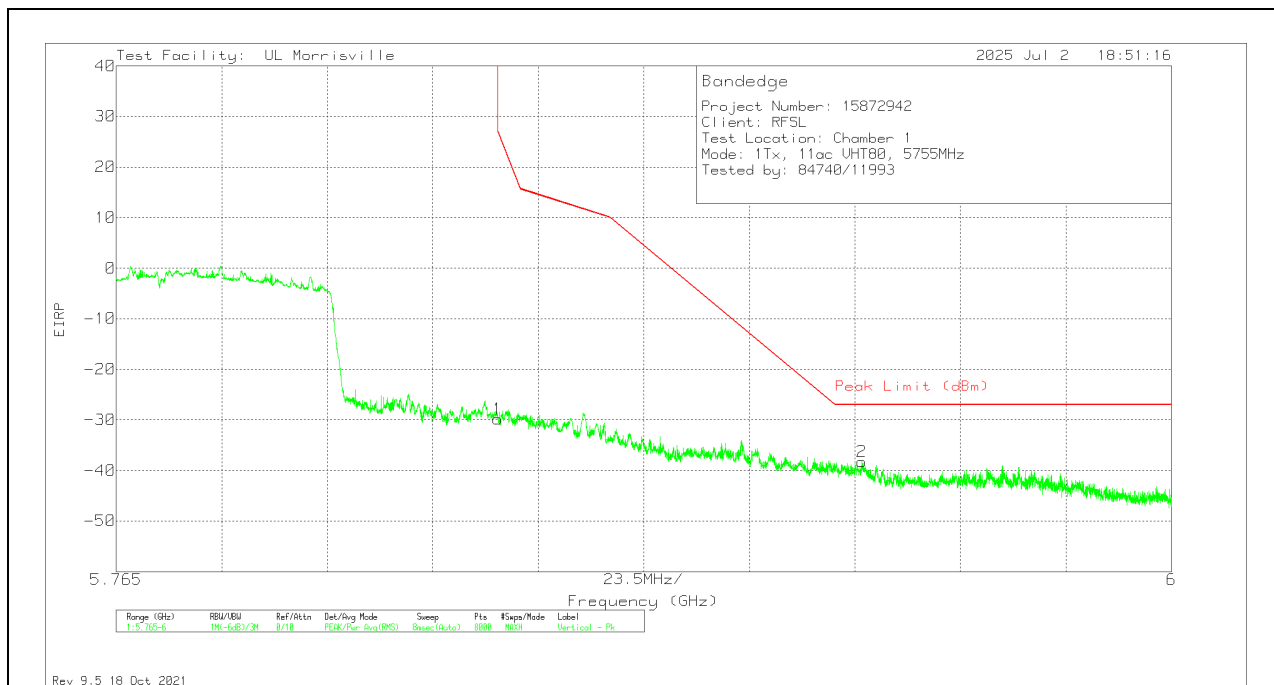
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-46.64	Pk	35	-22.3	11.8	-22.14	26.95	-49.09	324	105	H
2	5.92547	-58.77	Pk	35.1	-21.9	11.8	-33.77	-27	-6.77	324	105	H

Pk - Peak detector

VERTICAL RESULT

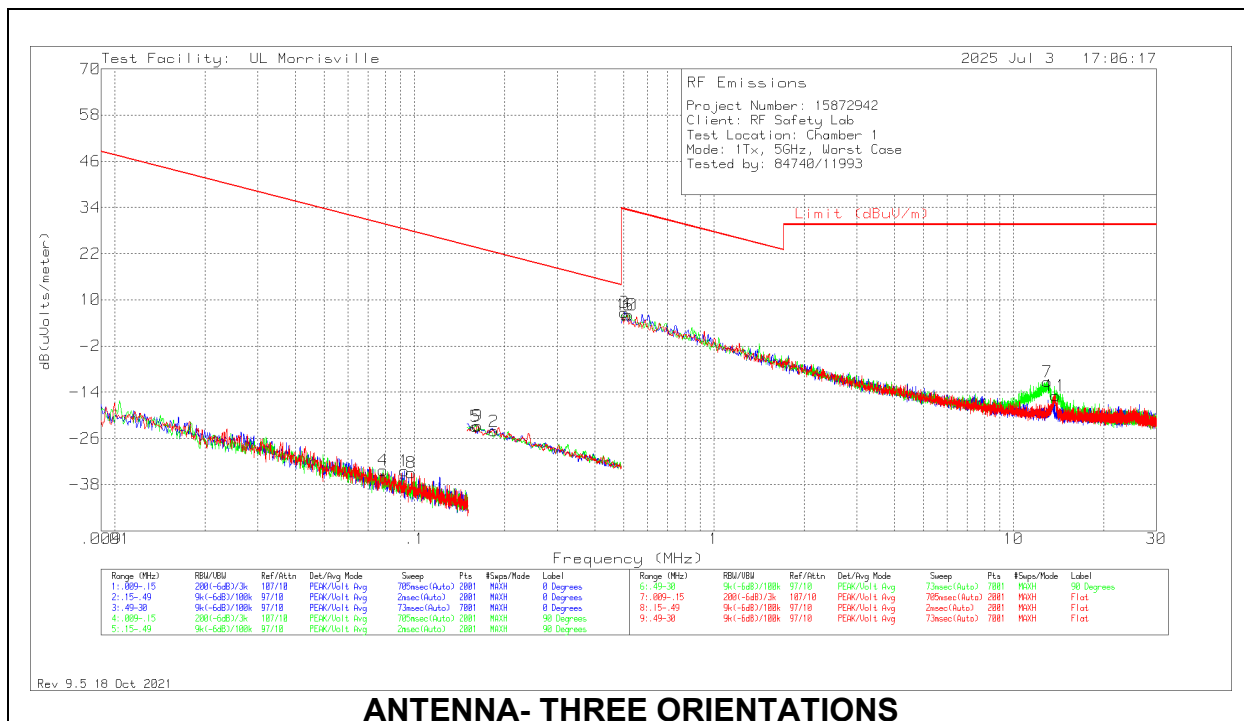


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-54.37	Pk	35	-22.3	11.8	-29.87	26.95	-56.82	175	102	V
2	5.93105	-63.04	Pk	35.1	-22.1	11.8	-38.24	-27	-11.24	175	102	V

Pk - Peak detector

10.2. TRANSMITTER WORST CASE CONFIGURATION

10.2.1. SPURIOUS EMISSIONS BELOW 30 MHz

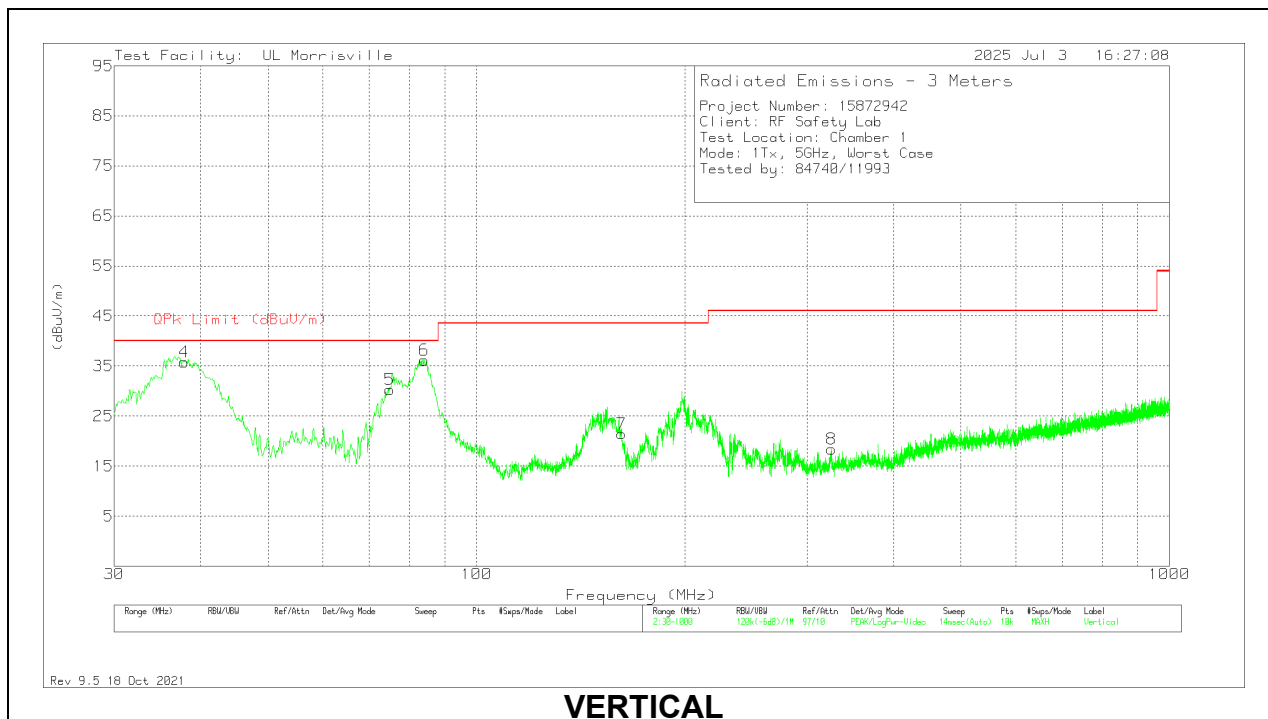
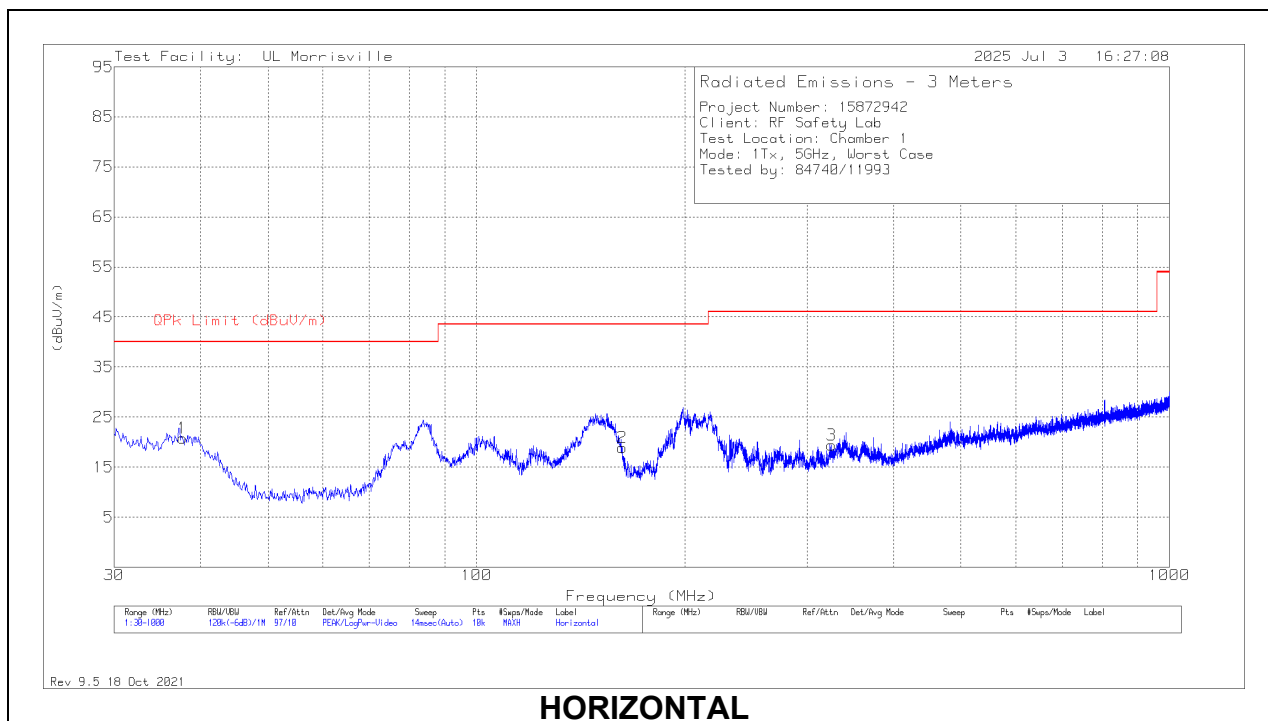


ANTENNA- THREE ORIENTATIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Qp/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.07844	34.46	Pk	11.2	.1	-80	-34.24	29.71	49.71	-63.95	0-360	90 degs
1	.09246	34.35	Pk	11.1	.1	-80	-34.45	28.29	-	-62.74	0-360	0 degs
8	.09775	33.91	Pk	11.1	.1	-80	-34.89	27.8	-	-62.69	0-360	Flat
5	.16054	46.03	Pk	11	.1	-80	-22.87	23.49	43.49	-46.36	0-360	90 degs
9	.16267	46.18	Pk	11	.1	-80	-22.72	23.38	43.38	-46.1	0-360	Flat
2	.18434	44.8	Pk	11	.1	-80	-24.1	22.29	42.29	-46.39	0-360	0 degs
3	.50265	35.66	Pk	11	.1	-40	6.76	33.58	-	-26.82	0-360	0 degs
10	.51108	34.93	Pk	11	.1	-40	6.03	33.43	-	-27.4	0-360	Flat
6	.51951	34.94	Pk	11	.1	-40	6.04	33.29	-	-27.25	0-360	90 degs
7	12.98201	17.54	Pk	10.6	.6	-40	-11.26	29.54	-	-40.8	0-360	90 degs
11	13.78305	13.94	Pk	10.6	.6	-40	-14.86	29.54	-	-44.4	0-360	Flat

Pk - Peak detector

10.2.2. SPURIOUS EMISSIONS 30 TO 1000 MHz



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 37.663	31.13	Pk	21.5	-31.9	20.73	40	-19.27	0-360	100	H
2	* ** 162.308	30.5	Pk	18.5	-30.1	18.9	43.52	-24.62	0-360	299	H
3	* ** 325.365	28.41	Pk	20	-29	19.41	46.02	-26.61	0-360	100	H
4	* ** 37.6455	44.52	Qp	21.5	-31.9	34.12	40	-5.88	220	100	V
5	* ** 75.008	47.37	Pk	14.4	-31.5	30.27	40	-9.73	0-360	100	V
7	* ** 162.114	33.06	Pk	18.5	-30.1	21.46	43.52	-22.06	0-360	100	V
8	* ** 325.268	27.27	Pk	20	-28.9	18.37	46.02	-27.65	0-360	100	V
6	84.029	53.6	Pk	13.6	-31	36.2	-	-	0-360	100	V

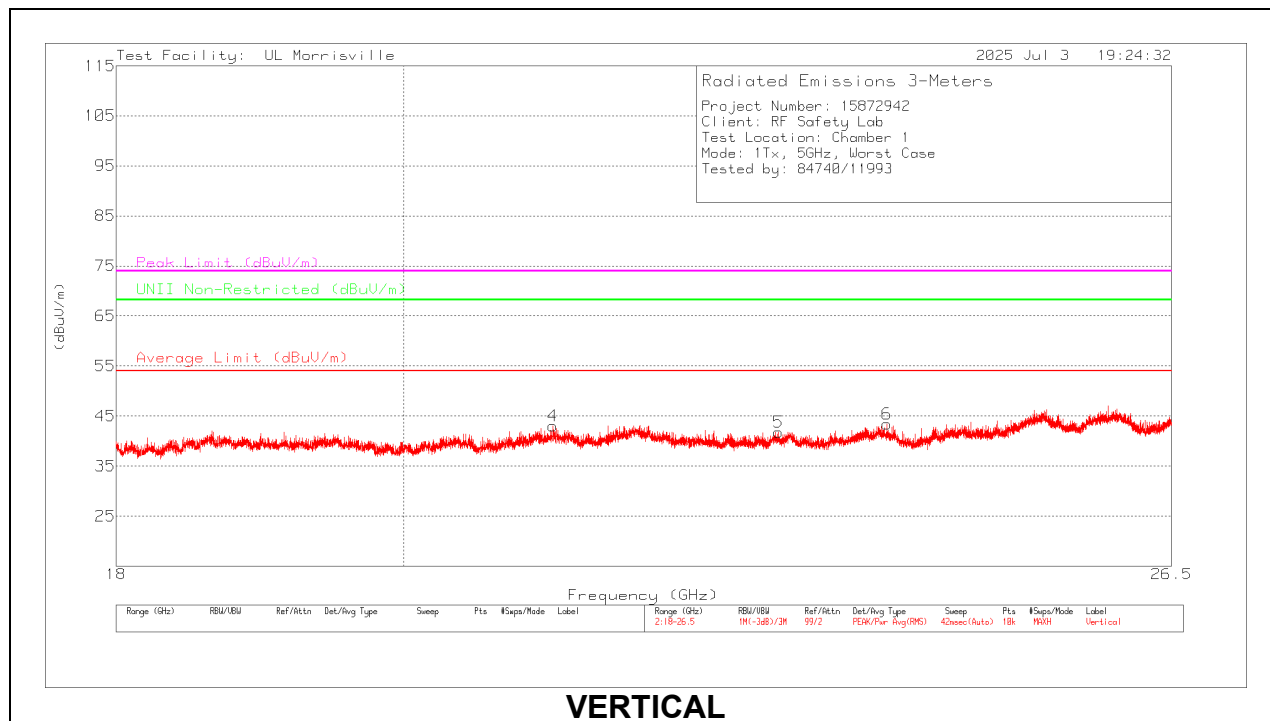
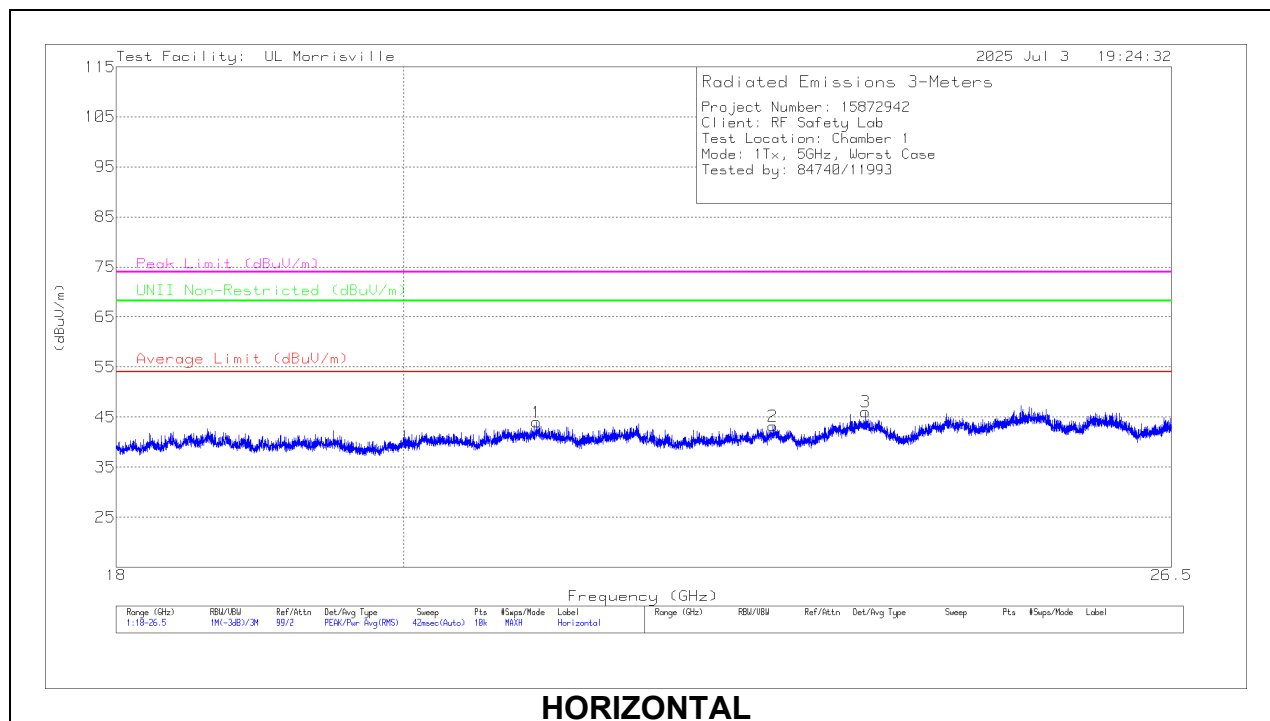
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

10.2.3. SPURIOUS EMISSIONS 18-26 GHz



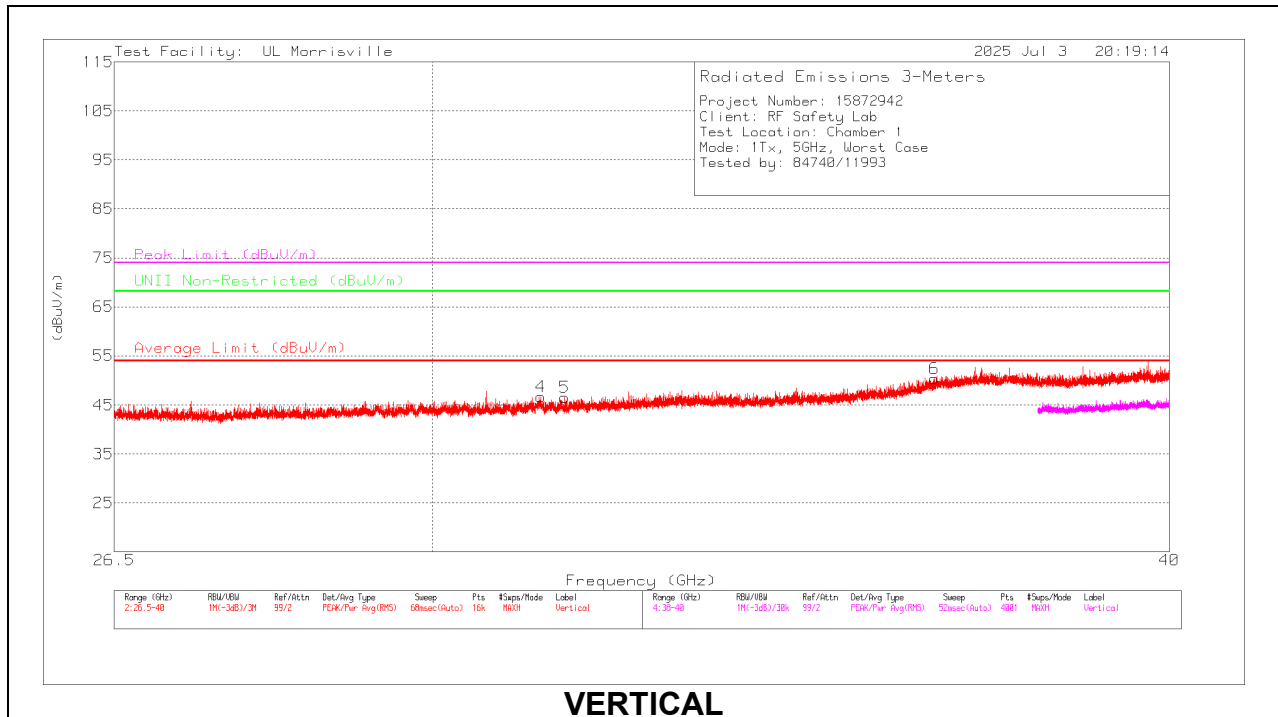
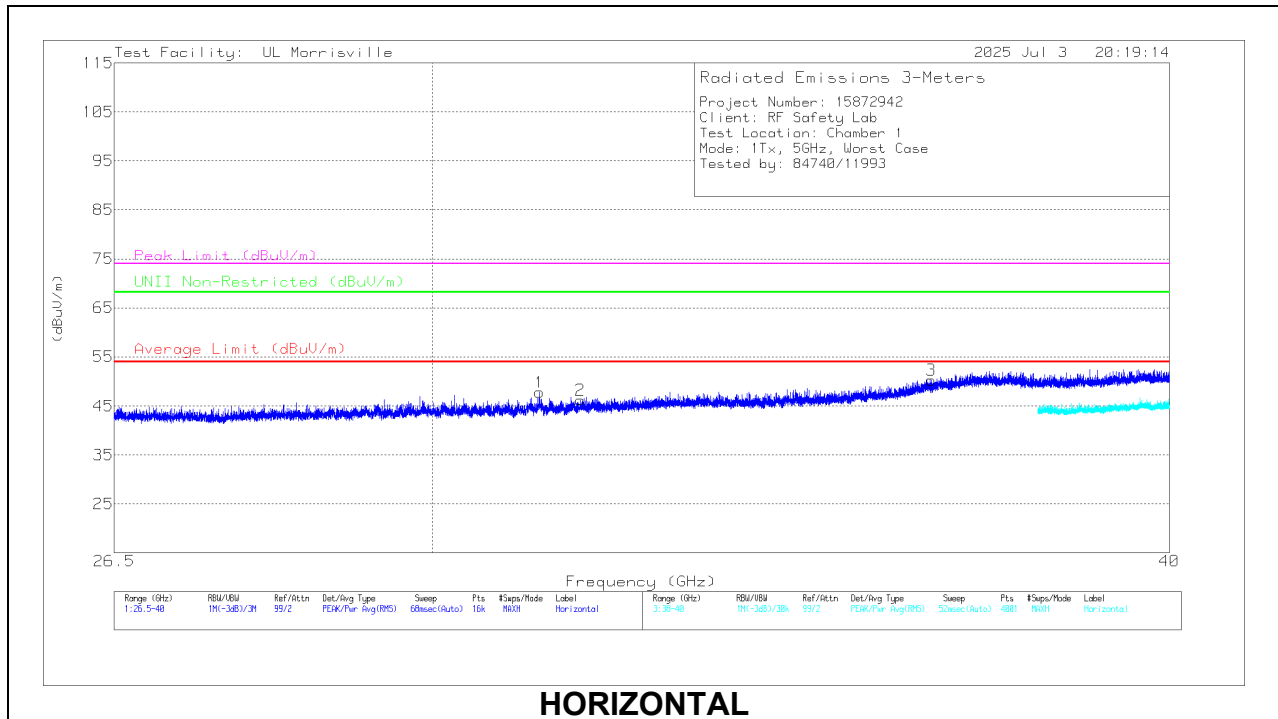
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.99935	51.07	Pk	32.9	-40	43.97	54	-10.03	74	-30.03	-	-	0-360	199	H
2	* ** 22.89721	49.91	Pk	33.5	-40.2	43.21	54	-10.79	74	-30.79	-	-	0-360	150	H
3	* ** 23.69103	52.06	Pk	33.9	-39.9	46.06	54	-7.94	74	-27.94	-	-	0-360	150	H
4	* ** 21.12429	50.2	Pk	32.8	-40	43	54	-11	74	-31	-	-	0-360	200	V
5	* ** 22.94481	48.43	Pk	33.6	-40.2	41.83	54	-12.17	74	-32.17	-	-	0-360	101	V
6	* ** 23.87716	49.48	Pk	33.8	-39.9	43.38	54	-10.62	74	-30.62	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.2.4. SPURIOUS EMISSIONS 26-40 GHz



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204705 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 31.28207	47.96	Pk	37	-37.2	0	47.76	54	-6.24	74	-26.24	-	-	0-360	300	H
2	* ** 31.78745	46.21	Pk	37.1	-37.1	0	46.21	54	-7.79	74	-27.79	-	-	0-360	250	H
3	* ** 36.45367	50.31	PK-U	37.9	-37.1	0	51.11	-	-	74	-22.89	-	-	343	349	H
	* ** 36.45267	37.1	ADV	37.9	-37.1	.28	38.18	54	-15.82	-	-	-	-	343	349	H
4	* ** 31.29726	46.85	Pk	37	-37.2	0	46.65	54	-7.35	74	-27.35	-	-	0-360	300	V
5	* ** 31.59509	46.87	Pk	36.8	-37.1	0	46.57	54	-7.43	74	-27.43	-	-	0-360	150	V
6	* ** 36.49533	50.51	PK-U	37.9	-37.1	0	51.31	-	-	74	-22.69	-	-	69	208	V
	* ** 36.49741	37.21	ADV	37.9	-37.1	.28	38.29	54	-15.71	-	-	-	-	69	208	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK-U - Maximum Peak

ADV - Linear Voltage Average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	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.

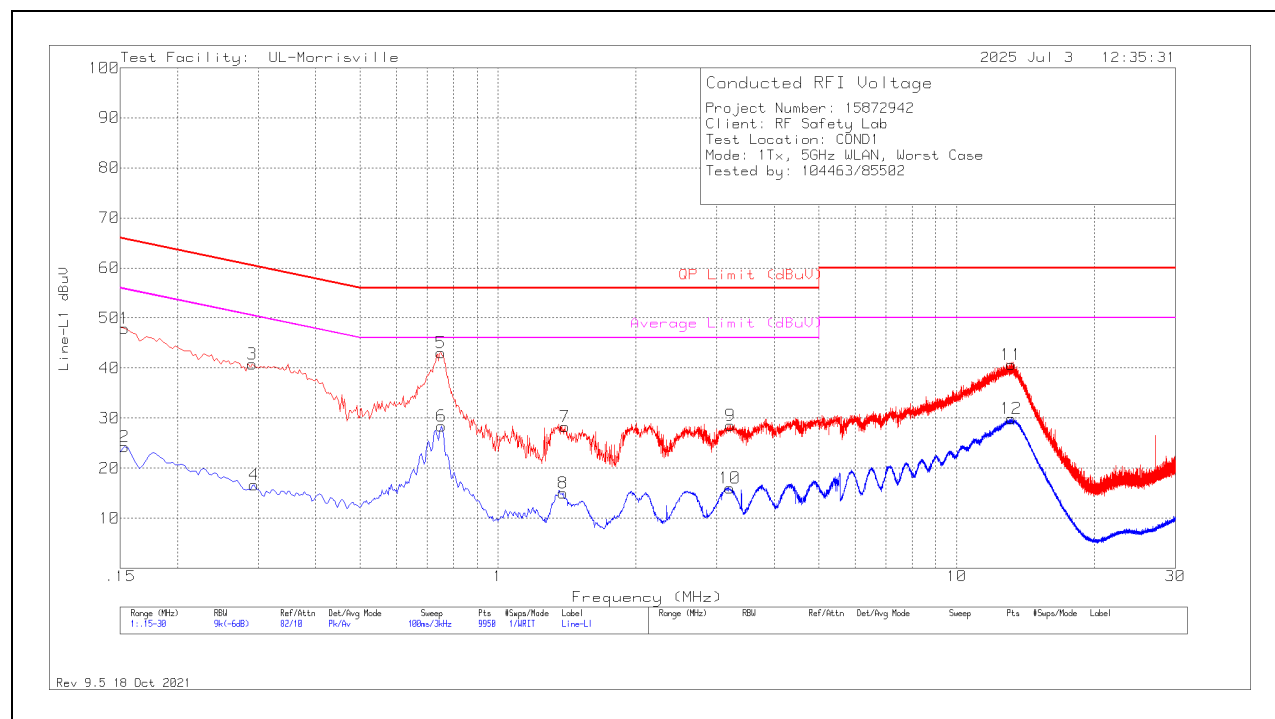
TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

LINE 1 RESULTS



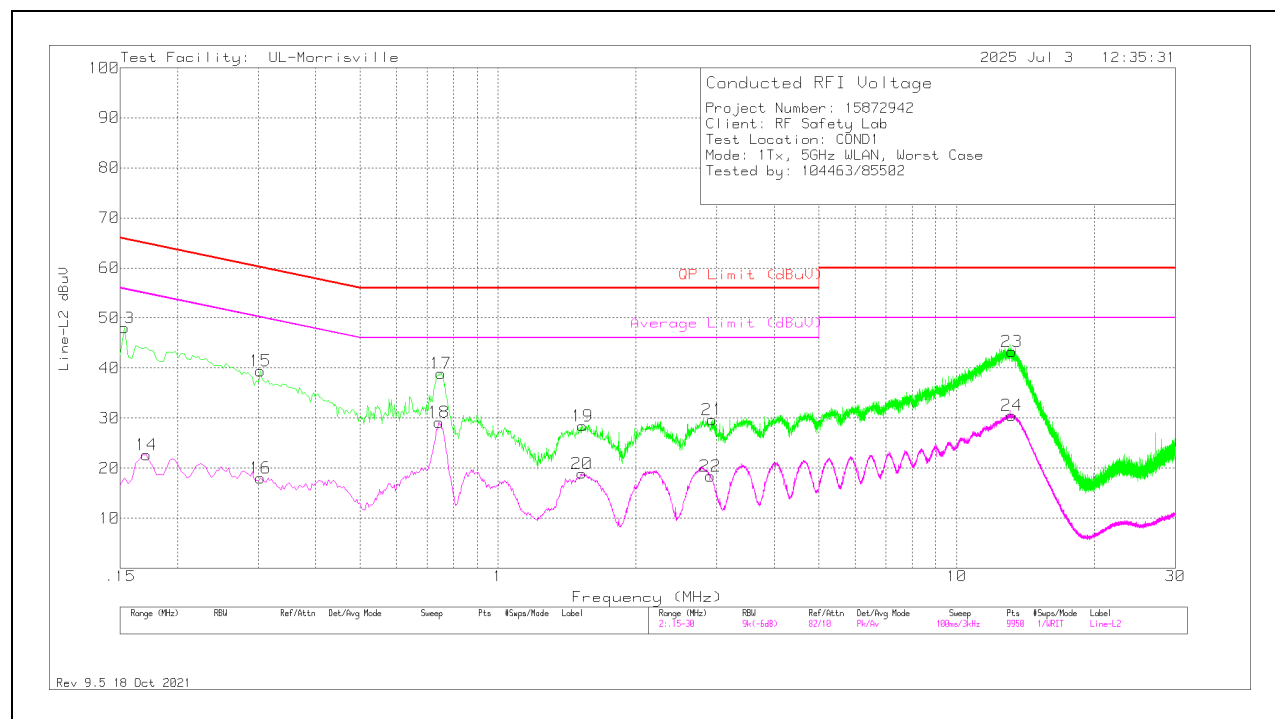
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.153	38.07	Pk	.2	9.7	47.97	65.84	-17.87	-	-
2	.153	14.42	Av	.2	9.7	24.32	-	-	55.84	-31.52
3	.291	30.95	Pk	.1	9.7	40.75	60.5	-19.75	-	-
4	.294	6.86	Av	.1	9.7	16.66	-	-	50.41	-33.75
5	.75	33.35	Pk	0	9.7	43.05	56	-12.95	-	-
6	.753	18.67	Av	0	9.7	28.37	-	-	46	-17.63
8	1.386	5.31	Av	0	9.7	15.01	-	-	46	-30.99
7	1.398	18.55	Pk	0	9.7	28.25	56	-27.75	-	-
10	3.204	6.33	Av	0	9.7	16.03	-	-	46	-29.97
9	3.21	18.84	Pk	0	9.7	28.54	56	-27.46	-	-
12	13.158	20.01	Av	.1	9.8	29.91	-	-	50	-20.09
11	13.164	30.81	Pk	.1	9.8	40.71	60	-19.29	-	-

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.153	38.1	Pk	.2	9.7	48	65.84	-17.84	-	-
14	.171	12.76	Av	.2	9.7	22.66	-	-	54.91	-32.25
15	.303	29.58	Pk	.1	9.7	39.38	60.16	-20.78	-	-
16	.303	8.25	Av	.1	9.7	18.05	-	-	50.16	-32.11
18	.744	19.46	Av	0	9.7	29.16	-	-	46	-16.84
17	.75	29.27	Pk	0	9.7	38.97	56	-17.03	-	-
20	1.524	9.25	Av	0	9.7	18.95	-	-	46	-27.05
19	1.53	18.76	Pk	0	9.7	28.46	56	-27.54	-	-
22	2.907	8.67	Av	0	9.7	18.37	-	-	46	-27.63
21	2.931	19.95	Pk	0	9.7	29.65	56	-26.35	-	-
23	13.2	33.45	Pk	.1	9.8	43.35	60	-16.65	-	-
24	13.209	20.67	Av	.1	9.8	30.57	-	-	50	-19.43

Pk - Peak detector

Av - Average detection

12. SETUP PHOTOS

Please refer to R15872942-EP1 for setup photos

END OF TEST REPORT