



TEST REPORT

Report Number. : R13335074-E6

Applicant : eero LLC
660 3rd Street
4th Floor
San Francisco, CA 94107
United States

Model : K010001

FCC ID : 2AEM4-30317

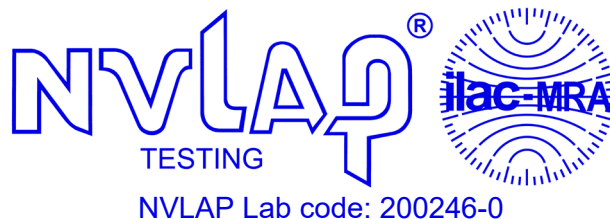
IC : 20631-30317

EUT Description : Wireless router for home and small office

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 2
ISED RSS-GEN ISSUE 5

Date Of Issue:
2020-09-23

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2020-08-10	Initial Issue	Niklas Haydon
V2	2020-09-22	Updated statement on simultaneous transmission and output power	Niklas Haydon
V3	2020-09-23	Added statement in worst case section	Niklas Haydon

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: eero LLC
660 3rd Street
4th Floor
San Francisco, CA 94107
United States

EUT DESCRIPTION: Wireless router for home and small office

MODEL: K010001

SERIAL NUMBER: ZU12WF9, ZU12WF5

SAMPLE RECEIPT DATE: 2020-06-02 and 2020-06-25

DATE TESTED: 2020-06-05 to 2020-09-22

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Complies
ISED RSS-247 Issue 2	Complies
ISED RSS-GEN Issue 5	Complies

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 tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure 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.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For
UL Verification Services Inc. By:



Dan Coronia
Operations Leader
Consumer Technology Division
UL Verification Services Inc.

Prepared By:



Niklas Haydon
Operations Leader
Consumer Technology Division
UL LLC

2. TEST RESULTS SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.3.
15.247 (a) (2)	RSS-247 5.2 (a)	6dB BW	Compliant	None.
15.247 (b) (3)	RSS-247 5.4 (d)	Output Power	Compliant	None.
See Comment		Average power	Reporting purposes only	Per ANSI C63.10, Section 11.9.2.3.2.
15.247 (e)	RSS-247 5.2 (b)	PSD	Compliant	None.
15.247 (d)	RSS-247 5.5	Conducted Spurious Emissions	Compliant	None.
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions	Compliant	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	Compliant	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01 RSS-GEN Issue 5, and RSS-247 Issue 2.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, NC 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27560, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Perimeter Park Dr.
Site Code: 2180C	
<input type="checkbox"/> Chamber A RTP	<input checked="" type="checkbox"/> North Chamber
<input type="checkbox"/> Chamber C RTP	<input checked="" type="checkbox"/> South Chamber

The above test sites and facilities are covered under FCC Test Firm Registration # 703469. Chambers above are covered under Industry Canada company address and respective code.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0

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	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	2.00%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	4.88 dB
Conducted Emissions (0.150-30MHz) - LISN	3.07 dB
Temperature	2.26°C
Humidity	6.79%
DC Supply voltages	1.70%
Time	3.39%

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 wireless router for home and small office.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2405 - 2480	802.15.4	13.70	23.44

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Range	Max Gain (dBi)
2.4 GHz; BLE/ZigBee	4.0

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was eeroQSDK version builder@4162cb4b0759.
The test utility software used during testing was Qorvo RadioControlConsole v4.0.0.0.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power and PSD as worst-case scenario.

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

The conducted power was lowered after the radiated emissions was performed, therefore the radiated emissions data is considered worst case.

The EUT only operates in one orientation X, therefore, all final radiated testing was performed with the EUT in X orientation.

Simultaneous transmission of the following combinations was investigated and there were not any non-conformances found:

802.15.4 radio, 2.4 WLAN radio, and 5.8 WLAN radio
802.15.4 radio, 5.2 WLAN radio, and 5.8 WLAN radio

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop PC	Dell	Latitude E6430	J29SNX1	N/A
Laptop PC	Dell	Latitude E5450	HRR5N72	N/A
AC adapter (EUT)	Foxlink	C210001	A019F0000171	N/A
AC adapter (EUT)	RF Tech	C210001	A027A0000361	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC In	1	USB-C	Unshielded	1.5	Cable captured to AC power supply
2	LAN	2	RJ45-unshielded	Unshielded	15	Includes 1.7m cable that accompanied the EUT

TEST SETUP

The EUT is connected to a test laptop during the tests. Test software exercised the radio card.

SETUP DIAGRAMS

Please refer to R13335074-EP1 for setup diagrams.

7. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10-2013 Section 11.6.

6 dB BW: ANSI C63.10 Subclause -11.8.1

Occupied BW (99%): ANSI C63.10-2013 Section 6.9.3

Output Power: ANSI C63.10 Subclause -11.9.1.3 Method PKPM1 Peak-reading power meter

Output Power: ANSI C63.10 Subclause -11.9.2.3.2 Method AVGPM-G (Measurement using a gated RF average-reading power meter)

PSD: ANSI C63.10 Subclause -11.10.2 Method PKPSD (peak PSD)

Emissions in non-restricted frequency bands: ANSI C63.10 Subclause -11.11 and 6.10.4

Emissions in restricted frequency bands: ANSI C63.10 Subclause -11.12.1 and 6.10.5

General Radiated Emissions: ANSI C63.10:2013 Sections 6.3 – 6.6

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

8. 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 - North Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	0.009-30MHz	(Loop Ant.)			
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2019-08-08	2020-08-08
	30-1000 MHz				
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-008-08	2020-08-08
	18-40 GHz				
AT0076	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2019-11-07	2020-11-07
	Gain-Loss Chains				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2020-04-24	2021-04-24
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2020-04-24	2021-04-24
N-SAC04	Gain-loss string: 18-40GHz	Various	Various	2020-03-22	2021-03-22
	Receiver & Software				
SA0025	Spectrum Analyzer	Agilent	N9030A	2020-03-17	2021-03-17
SA0027	Spectrum Analyzer	Agilent	N9030A	2020-06-10	2021-06-10
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-1-22	2022-01-22

Test Equipment Used - Wireless Powerline Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2020-03-26	2021-03-26
s/n 161024885	Environmental Meter	Fisher Scientific	15-077-936	2019-06-17	2020-06-17
HI0091	Environmental Meter	Fisher Scientific	14-650-118	2020-06-26	2021-06-26
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2019-08-19	2020-08-19
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2019-08-20	2020-08-20
ATA222	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2020-03-26	2021-03-26
PS214	AC Power Source	Elgar	CW2501M (s/n 1523A02396)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2019-07-10	2020-07-10
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2020-08-08	2021-08-08

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	0.009-30MHz	(Loop Ant.)			
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2019-08-08	2020-08-08
	30-1000 MHz				
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-08-08	2020-08-08
	1-18 GHz				
AT0078	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-10-28	2020-10-28
	Gain-Loss Chains				
S-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2020-07-10	2021-07-10
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2020-07-10	2021-07-10
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-05-15	2021-05-15
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2020-03-27	2021-03-27
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
s/n 181474409	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
s/n 200037610	Environmental Meter	Fisher Scientific	06-662-4	2020-1-22	2022-01-22

Test Equipment Used - Wireless Antenna Port Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
72822	Spectrum Analyzer	Agilent Technologies	E4446A	2020-01-02	2021-01-02
PWM003	RF Power Meter	Keysight Technologies	N1911A	2019-08-23	2020-08-23
PWS004	Peak and Avg Power Sensor, 50MHz to 18GHz	Keysight Technologies	E1921A	2019-08-23	2020-08-23
PWM001	RF Power Meter	Keysight Technologies	N1912A	2020-07-17	2021-07-17
PWS001	Peak and Avg Power Sensor, 50MHz to 18GHz	Keysight Technologies	N1921A	2020-05-27	2020-05-27
HI0090 SN 161016511	Environmental Meter	Fisher Scientific	15-077-963	2020-06-26	2021-06-26
SN 181562858	Environmental Meter	Fisher Scientific	14-650-118	2018-09-04	2020-09-04
SOFTEMI	EMC Software	UL	Version 2020.3.11 and 2020.4.17	NA	NA

NOTES:

1. For equipment listed above that was calibrated during the testing period, please note the equipment was used for testing after calibration.
2. For equipment listed above that has a calibration due date during the testing period, the testing was completed before the equipment expiration date.
3. Exception to 1. and 2. CDECABLE001 testing was performed between characterization. CDECABLE001 was found to still be within specification.

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

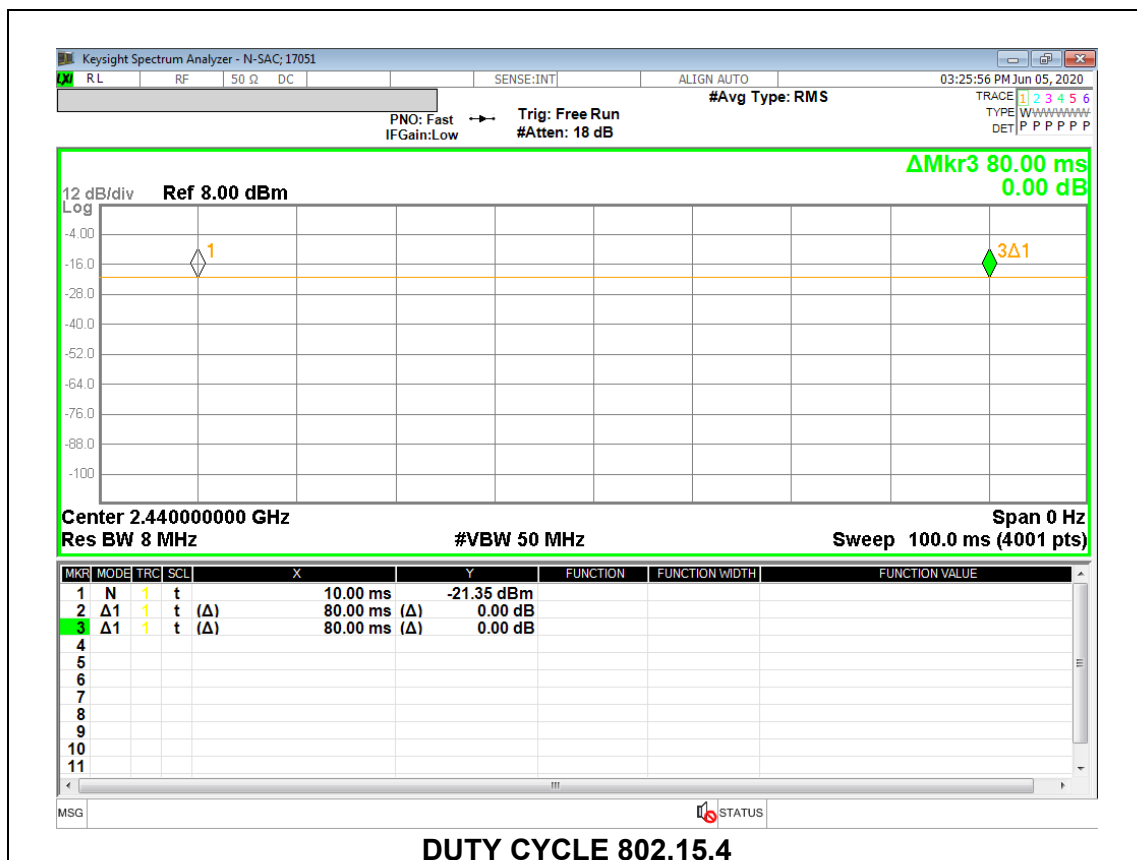
PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.15.4	80.000	80.000	1.000	100.00%	0.00	0.010

DUTY CYCLE PLOTS



9.2. 99% BANDWIDTH

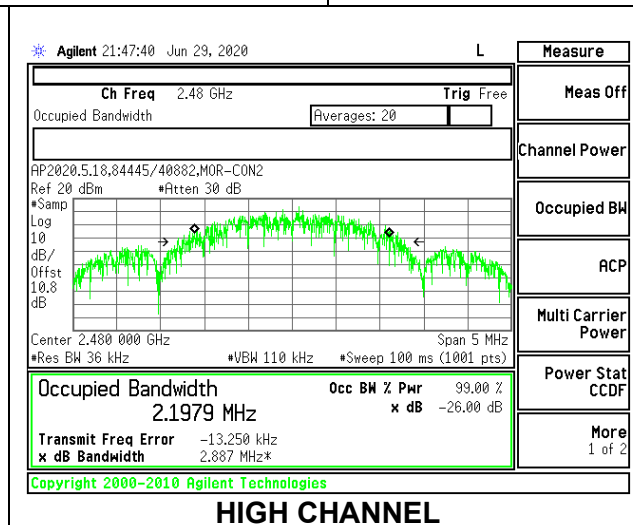
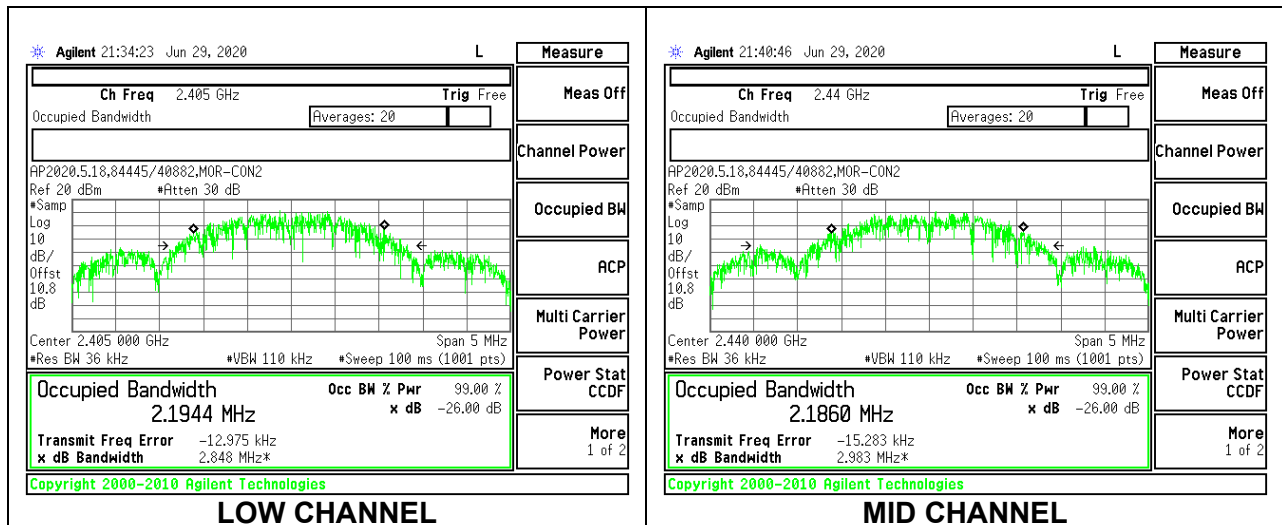
LIMITS

None; for reporting purposes only.

RESULTS

9.2.1. 802.15.4

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2405	2.1944
Middle	2440	2.1860
High	2480	2.1979



9.3. 6 dB BANDWIDTH

LIMITS

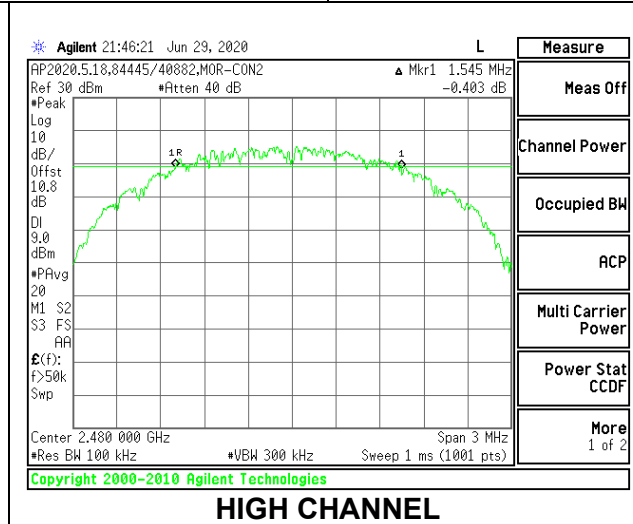
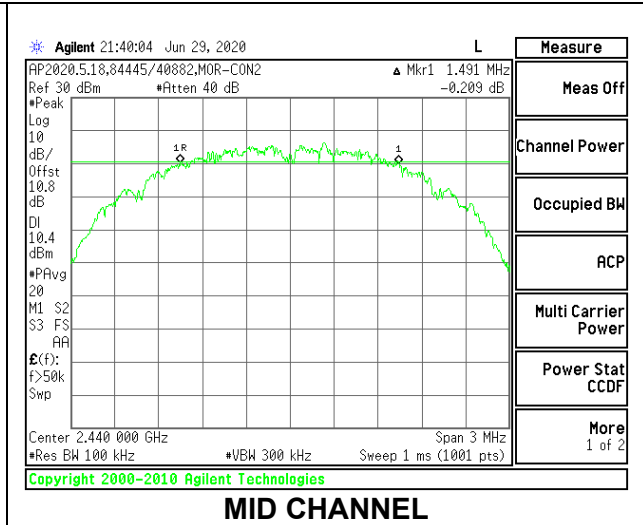
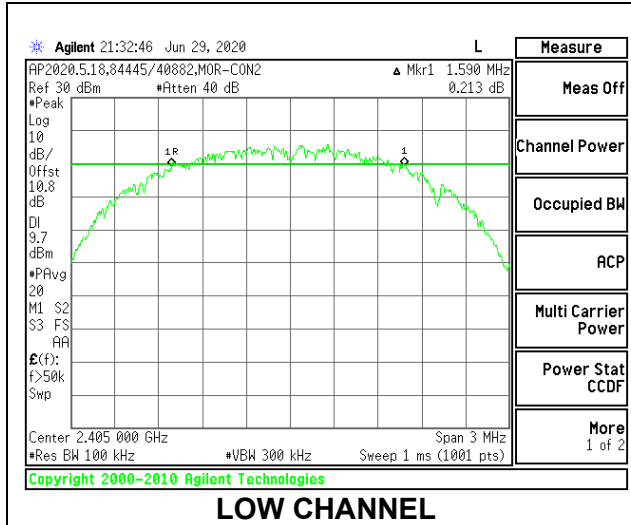
FCC §15.247 (a) (2)
RSS-247 5.2 (a)

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

RESULTS

9.3.1. 802.15.4

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2405	1.590	0.5
Middle	2440	1.491	0.5
High	2480	1.545	0.5



9.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)
RSS-247 5.4 (d)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.78 dB (including 10.49 dB pad and 0.29 dB cable) was entered as an offset in the power meter to allow for a gated peak reading of power.

RESULTS

9.4.1. 802.15.4

Tested By:	84740/44389
Date:	2020-09-22

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2405	13.70	30	-16.30
Middle	2440	13.19	30	-16.81
High	2475	12.51	30	-17.49
High	2480	7.58	30	-22.42

9.5. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.78 dB (including 10.49 dB pad and 0.29 dB cable) was entered as an offset in the power meter to allow for a gated average reading of power.

RESULTS

9.5.1. 802.15.4

Tested By:	84740/44389
Date:	2020-09-22

Channel	Frequency (MHz)	AV power (dBm)
Low	2405	13.47
Middle	2440	12.97
High	2475	12.28
High	2480	7.14

9.6. POWER SPECTRAL DENSITY

LIMITS

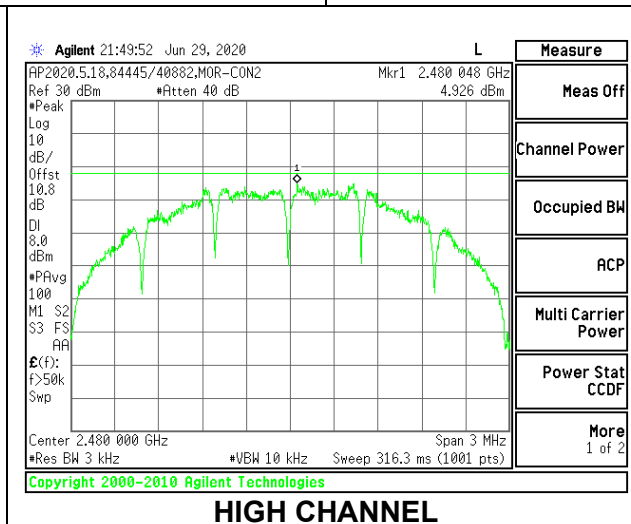
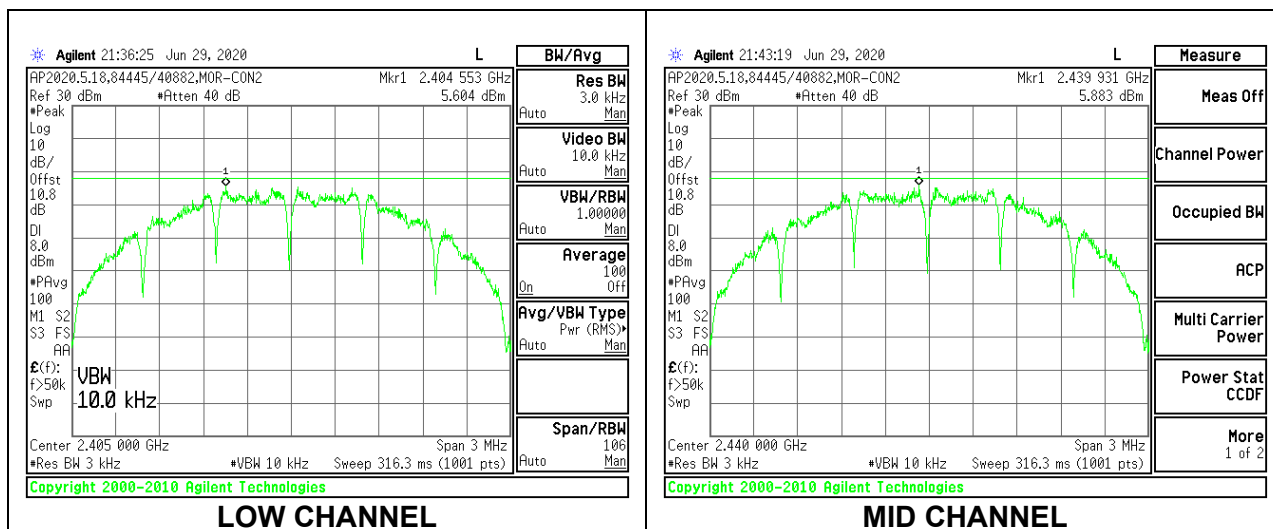
FCC §15.247 (e)
RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

9.6.1. 802.15.4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2405	5.60	8	-2.40
Middle	2440	5.88	8	-2.12
High	2480	4.93	8	-3.07



9.7. CONDUCTED SPURIOUS EMISSIONS

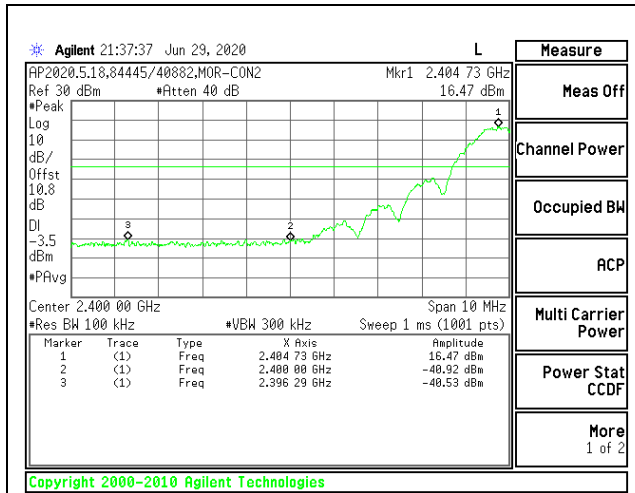
LIMITS

FCC §15.247 (d)
RSS-247 5.5

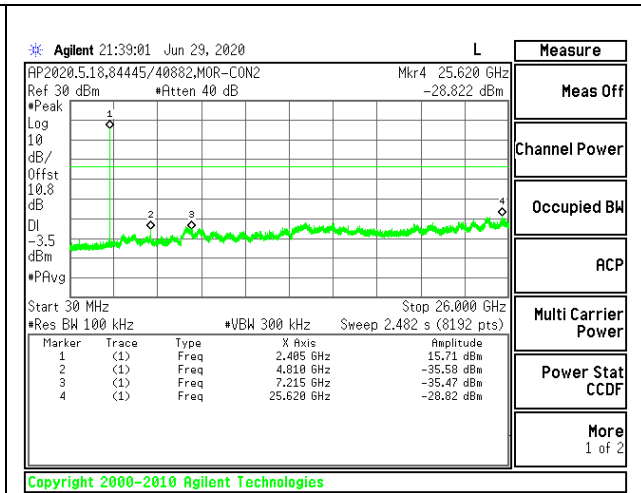
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

RESULTS

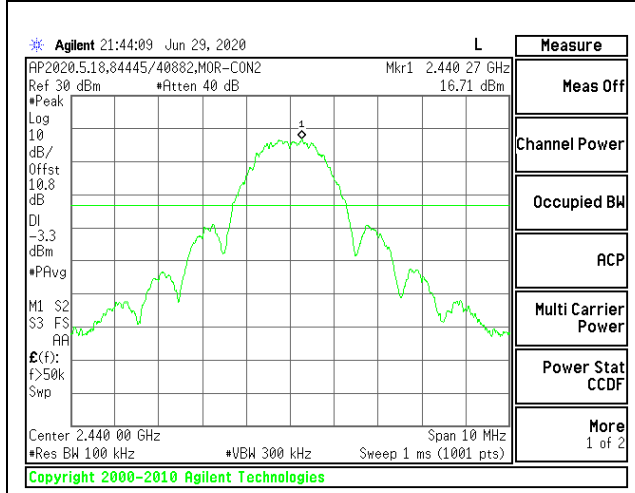
9.7.1. 802.15.4



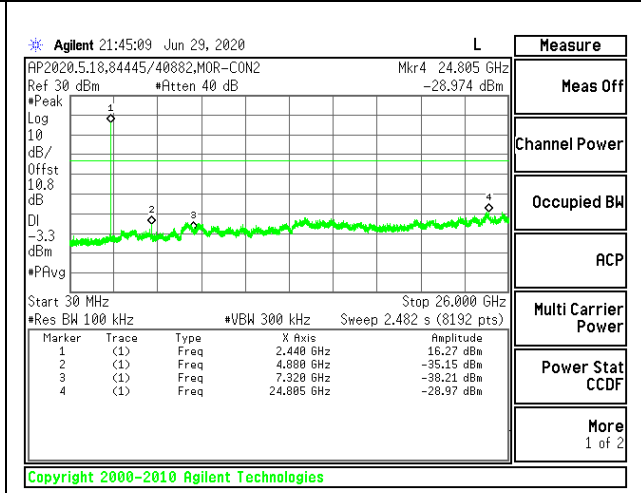
LOW CHANNEL BANDEDGE



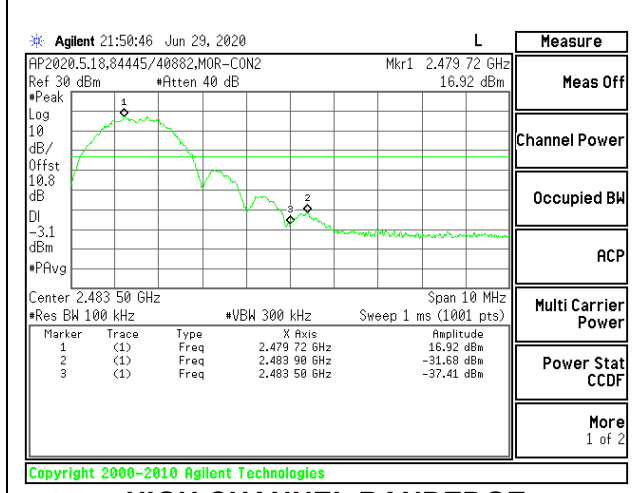
OUT-OF-BAND LOW CHANNEL



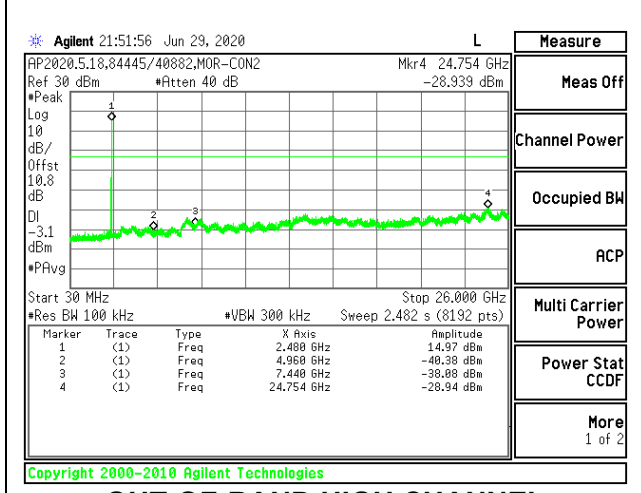
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10.

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 120 kHz for peak and/or 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.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz 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. For this test program, voltage average detection with duty cycle correction per KDB 558074 D01 15.247 V05r02, FAQ Answer 3c) was used.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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).

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

Base 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.

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

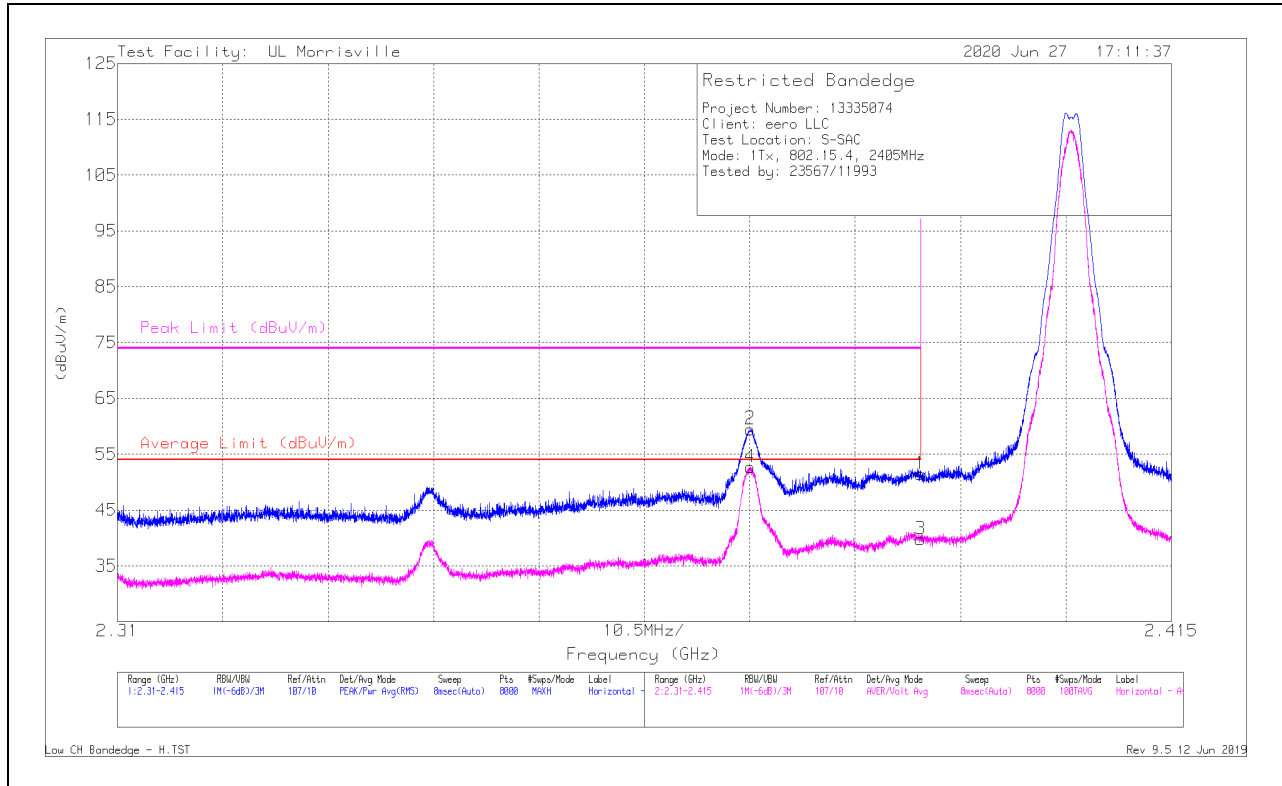
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. 802.15.4

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Fitr/Pad (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	* * * 2.39	43.32	Pk	32	-23.9	0	51.42	-	-	74	-22.58	38	241	H
2	* * * 2.37305	51.38	Pk	32	-23.9	0	59.48	-	-	74	-14.52	38	241	H
3	* * * 2.39	31.7	ADV	32	-23.9	-2.38	37.42	54	-16.58	-	-	38	241	H
4	* * * 2.37304	44.6	ADV	32	-23.9	-2.38	50.32	54	-3.68	-	-	38	241	H

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

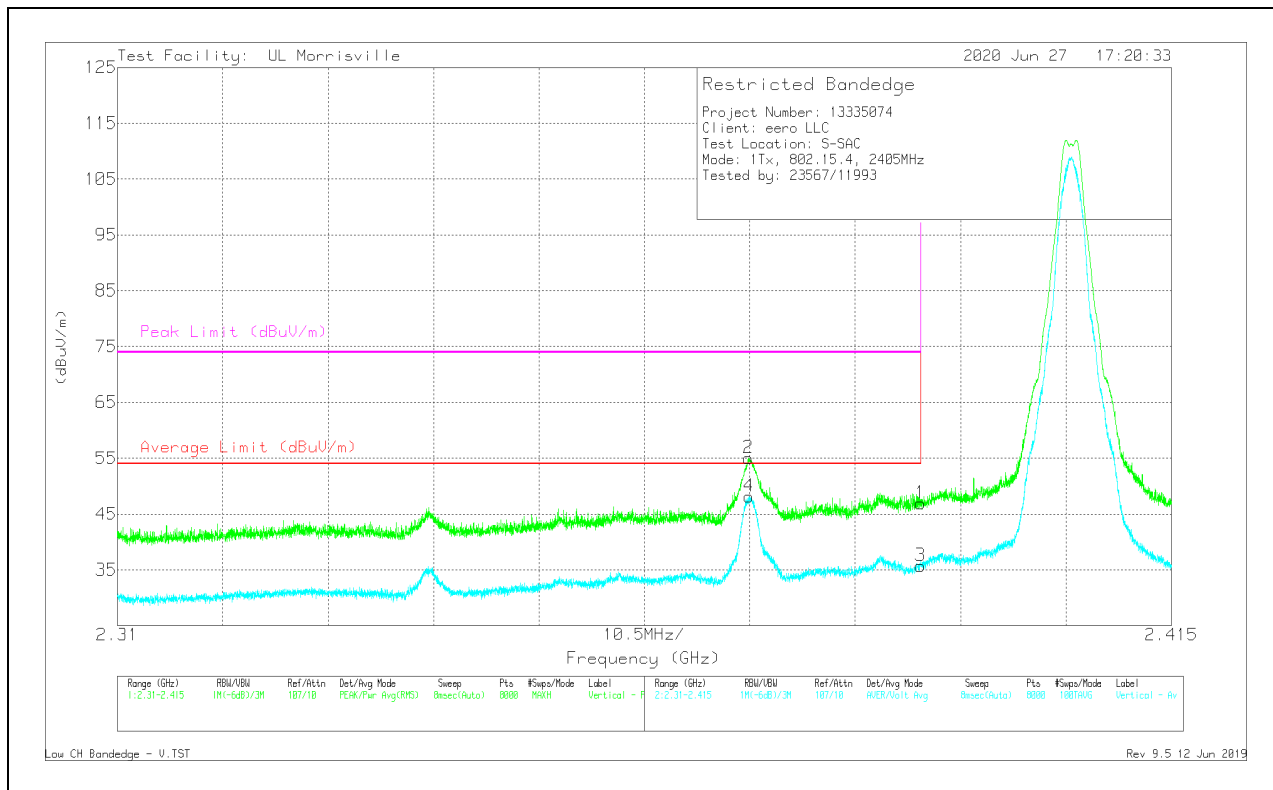
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Voltage Averaging

Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (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	*** 2.39	38.76	Pk	32	-23.9	0	46.86	-	-	74	-27.14	288	328	V
2	*** 2.37288	46.9	Pk	32	-23.9	0	55	-	-	74	-19	288	328	V
3	*** 2.39	27.63	ADV	32	-23.9	-2.38	33.35	54	-20.65	-	-	288	328	V
4	*** 2.37293	40.05	ADV	32	-23.9	-2.38	45.77	54	-8.23	-	-	288	328	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

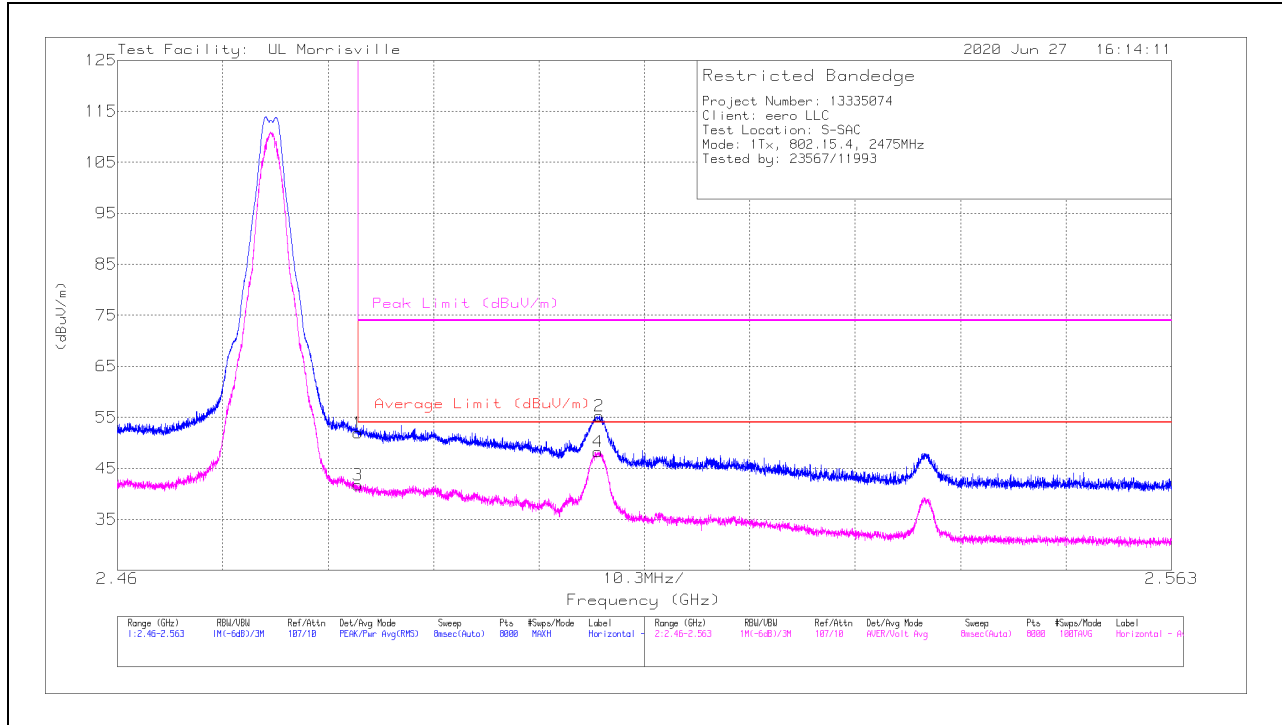
Pk - Peak detector

ADV – Voltage Averaging

Note: DCCF based on manufacturer’s declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

BANDEDGE (HIGH CHANNEL, 2475MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (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	*** 2.4835	44.06	Pk	32.1	-24.2	0	51.96	-	-	74	-22.04	51	264	H
2	** 2.50708	47.54	Pk	32.2	-24.5	0	55.24	-	-	74	-18.76	51	264	H
3	*** 2.4835	33.84	ADV	32.1	-24.2	-2.38	39.36	54	-14.64	-	-	51	264	H
4	** 2.50696	40.52	ADV	32.2	-24.5	-2.38	45.84	54	-8.16	-	-	51	264	H

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

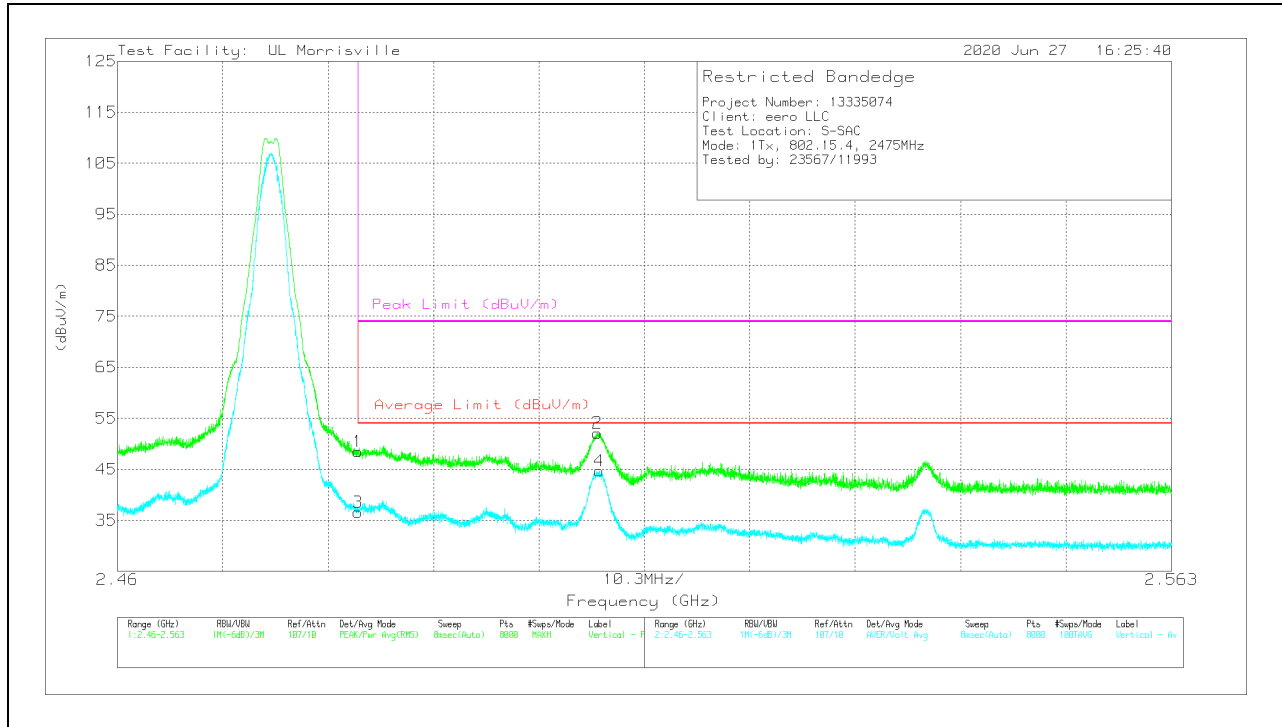
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV – Voltage Averaging

Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (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	* ** 2.4835	40.61	Pk	32.1	-24.2	0	48.51	-	-	74	-25.49	107	269	V
2	** 2.50691	44.42	Pk	32.2	-24.5	0	52.12	-	-	74	-21.88	107	269	V
3	* ** 2.4835	28.67	ADV	32.1	-24.2	-2.38	34.19	54	-19.81	-	-	107	269	V
4	** 2.50708	36.96	ADV	32.2	-24.5	-2.38	42.28	54	-11.72	-	-	107	269	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

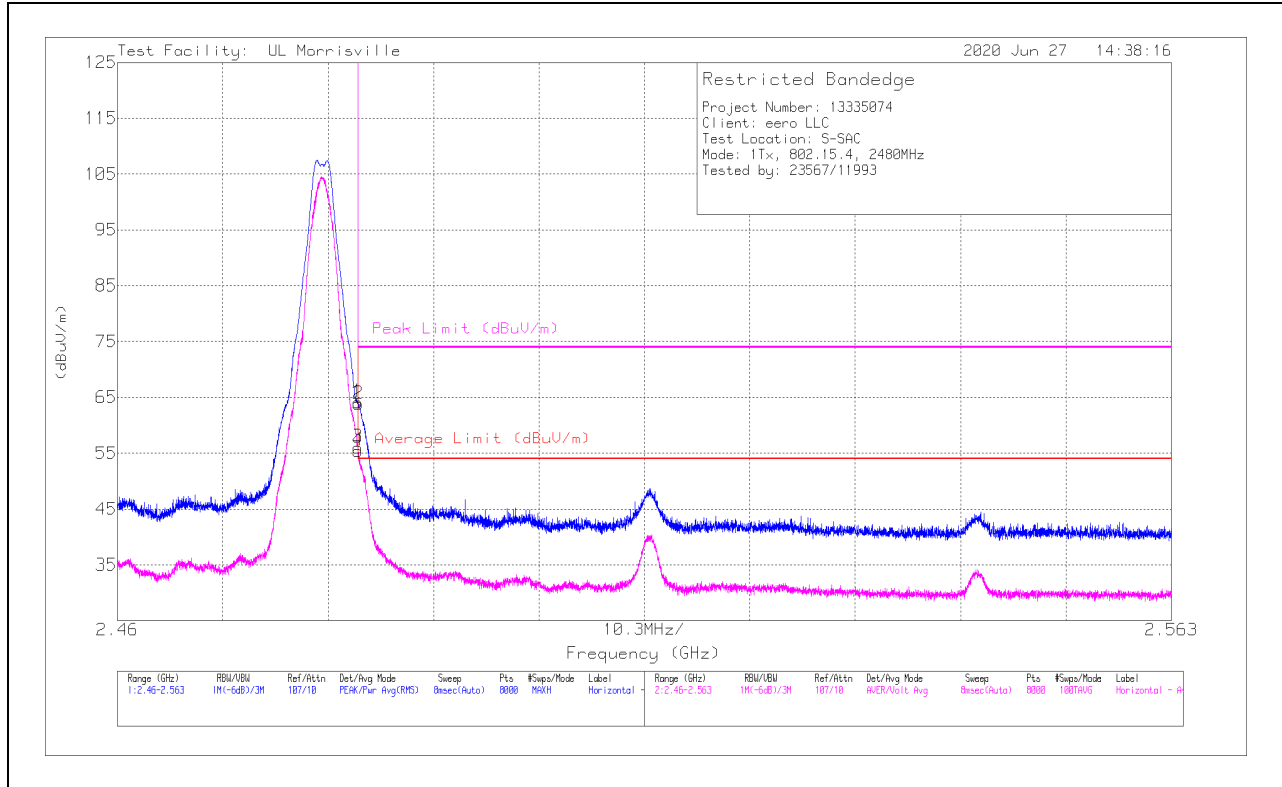
Pk - Peak detector

ADV – Voltage Averaging

Note: DCCF based on manufacturer’s declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

BANDEDGE (HIGH CHANNEL, 2480MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (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	* ** 2.4835	56.24	Pk	32.1	-24.2	0	64.14	-	-	74	-9.86	36	265	H
2	* ** 2.48354	55.98	Pk	32.1	-24.2	0	63.88	-	-	74	-10.12	36	265	H
3	* ** 2.4835	48.15	ADV	32.1	-24.2	-2.38	53.67	54	-0.33	-	-	36	265	H
4	* ** 2.48353	47.54	ADV	32.1	-24.2	-2.38	53.06	54	-0.94	-	-	36	265	H

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

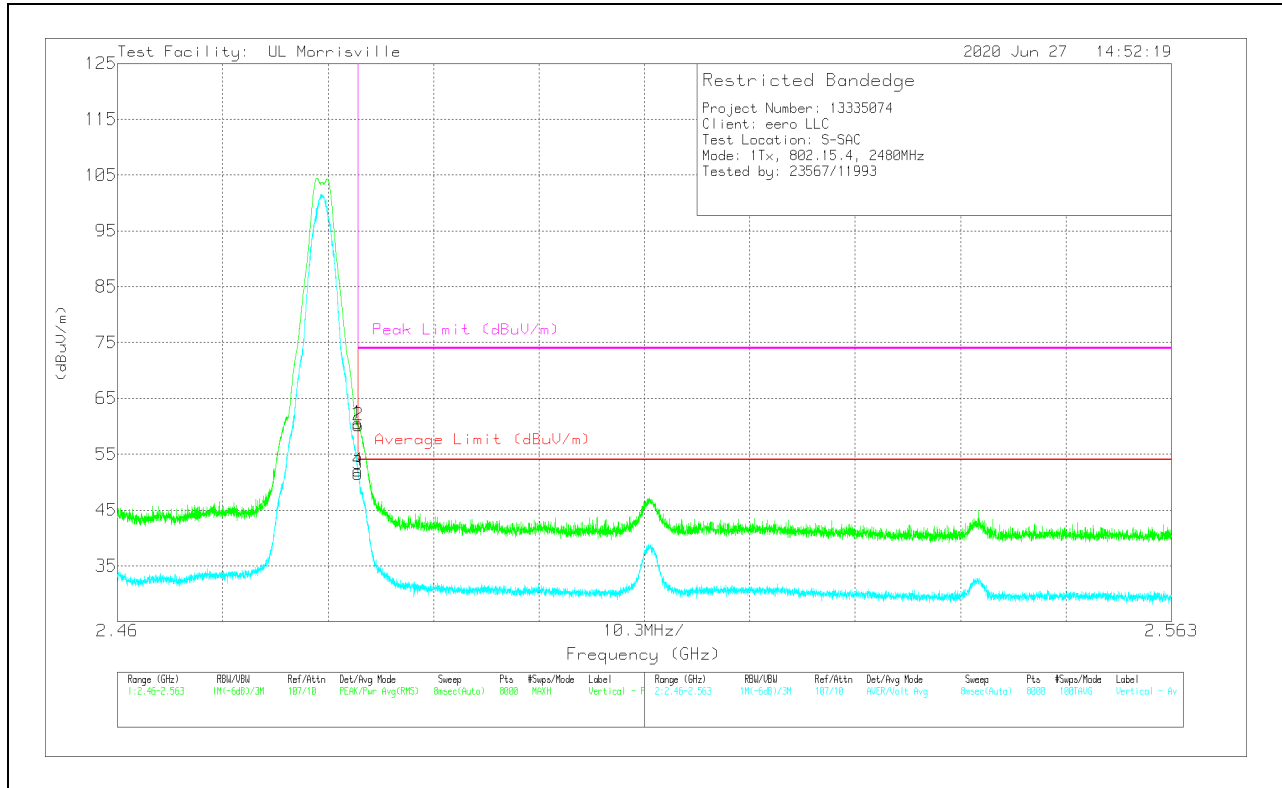
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV – Voltage Averaging

Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (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	*** 2.4835	52.66	Pk	32.1	-24.2	0	60.56	-	-	74	-13.44	313	356	V
2	*** 2.48354	52.25	Pk	32.1	-24.2	0	60.15	-	-	74	-13.85	313	356	V
3	*** 2.4835	43.59	ADV	32.1	-24.2	-2.38	49.11	54	-4.89	-	-	313	356	V
4	*** 2.48351	44.15	ADV	32.1	-24.2	-2.38	49.67	54	-4.33	-	-	313	356	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

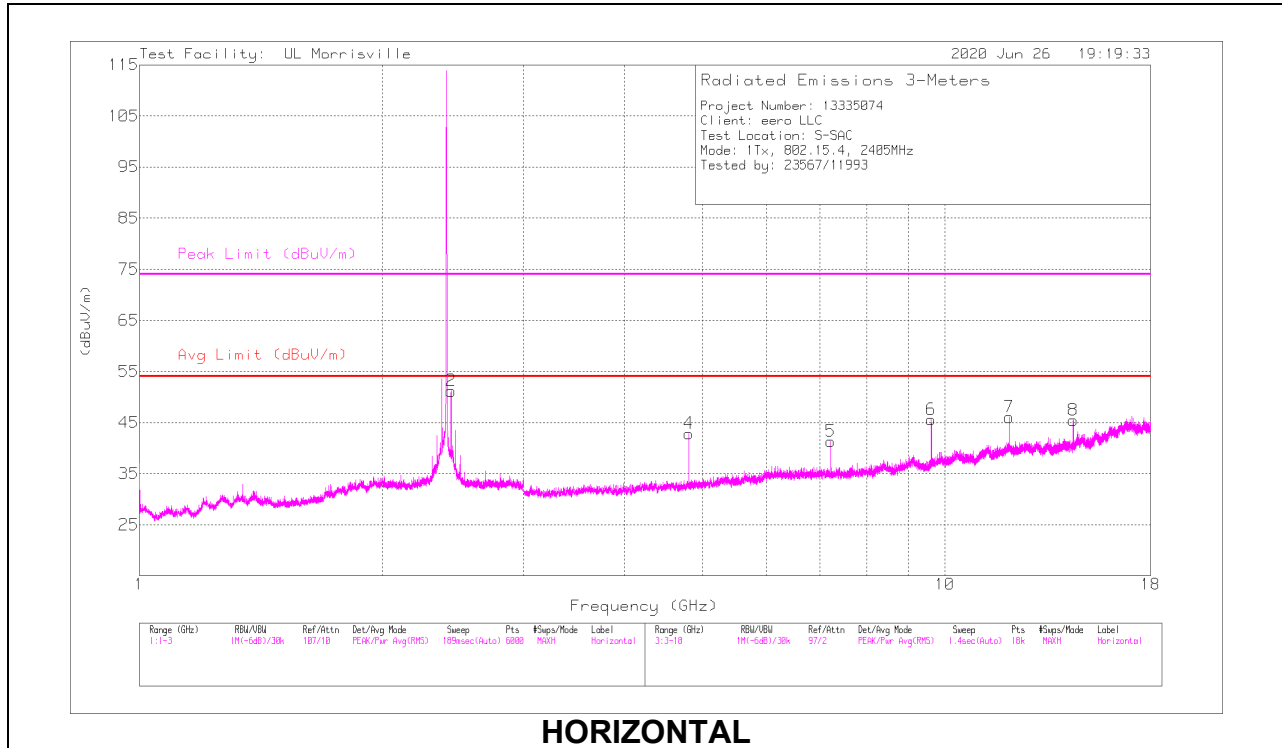
Pk - Peak detector

ADV – Voltage Averaging

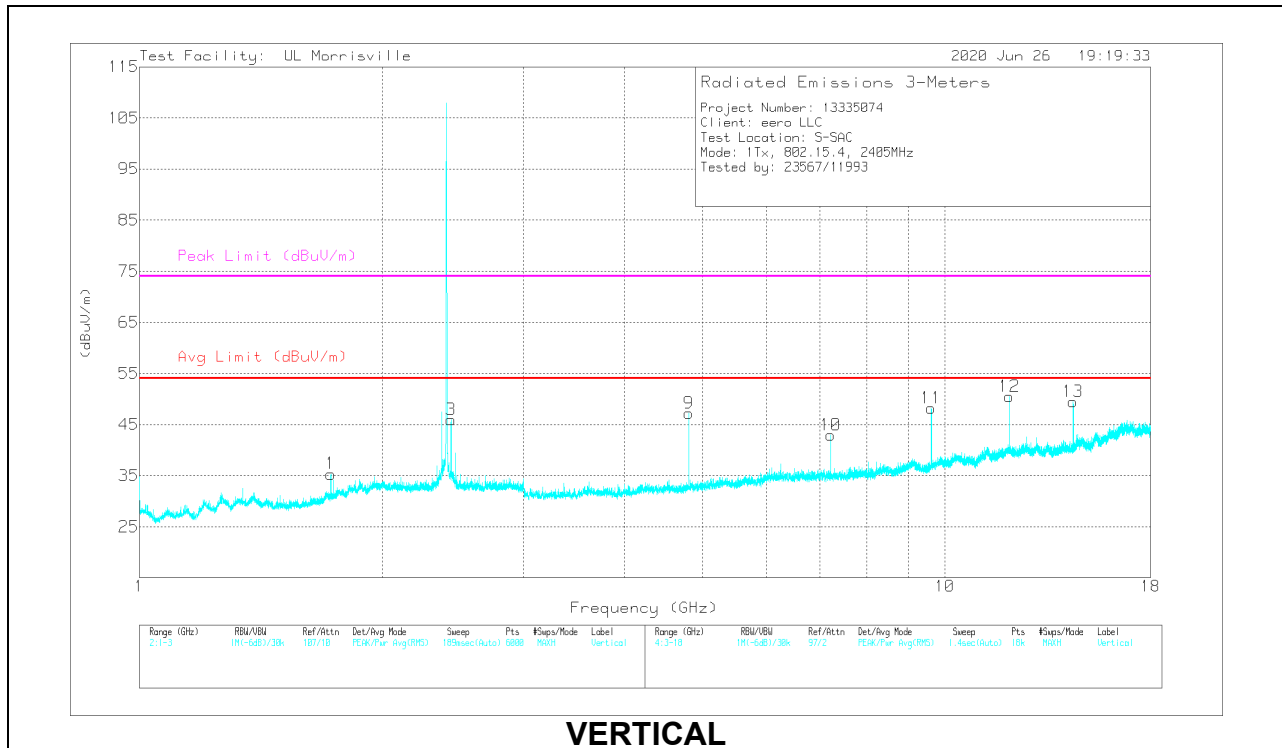
Note: DCCF based on manufacturer’s declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.72799	31.77	PK2	29.7	-22	0	39.47	-	-	74	-34.53	173	245	V
	** 1.72811	22.76	ADV	29.7	-22	-2.38	28.08	54	-25.92	-	-	173	245	V
4	*** 4.80892	47.24	PK2	33.9	-31	0	50.14	-	-	74	-23.86	93	135	H
	*** 4.80891	39.12	ADV	33.9	-31	-2.38	39.64	54	-14.36	-	-	93	135	H
7	*** 12.02249	41.08	PK2	38.6	-23.8	0	55.88	-	-	74	-18.12	43	103	H
	*** 12.02258	31.72	ADV	38.6	-23.8	-2.38	44.14	54	-9.86	-	-	43	103	H
9	** 4.81091	51.93	PK2	33.9	-31	0	54.83	-	-	74	-19.17	7	232	V
	*** 4.80908	45.49	ADV	33.9	-31	-2.38	46.01	54	-7.99	-	-	7	232	V
12	*** 12.02744	43.45	PK2	38.6	-23.7	0	58.35	-	-	74	-15.65	335	101	V
	*** 12.02728	35.44	ADV	38.6	-23.7	-2.38	47.96	54	-6.04	-	-	335	101	V
3	2.43691	37.77	Pk	32.1	-23.9		45.97	-	-	-	-	0-360	199	V
2	2.43724	42.99	Pk	32.1	-23.9		51.19	-	-	-	-	0-360	101	H
5	7.21357	33.5	Pk	35.6	-27.8		41.3	-	-	-	-	0-360	199	H
10	7.21607	35.06	Pk	35.6	-27.7		42.96	-	-	-	-	0-360	199	V
6	9.61787	35.19	Pk	36.6	-26.2		45.59	-	-	-	-	0-360	199	H
11	9.61787	37.85	Pk	36.6	-26.2		48.25	-	-	-	-	0-360	101	V
13	14.42731	34.86	Pk	39.2	-24.6		49.46	-	-	-	-	0-360	199	V
8	14.43314	30.78	Pk	39.2	-24.5		45.48	-	-	-	-	0-360	199	H

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

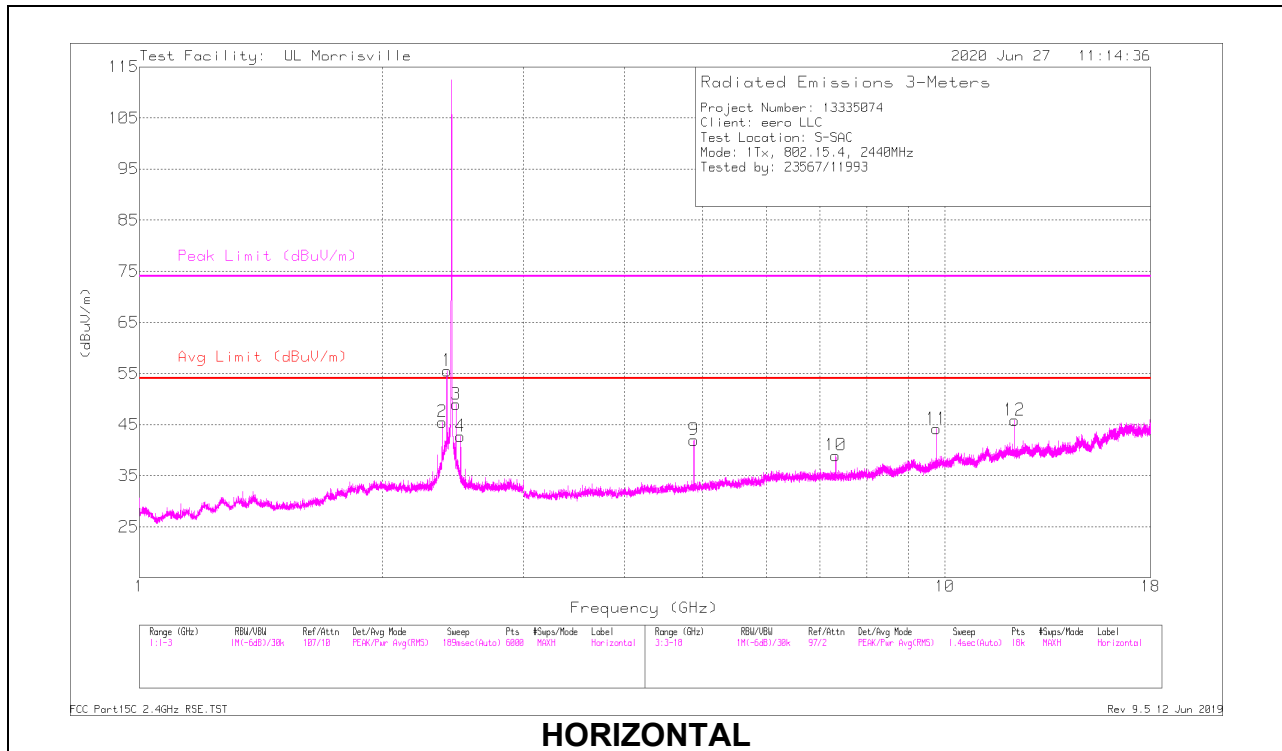
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

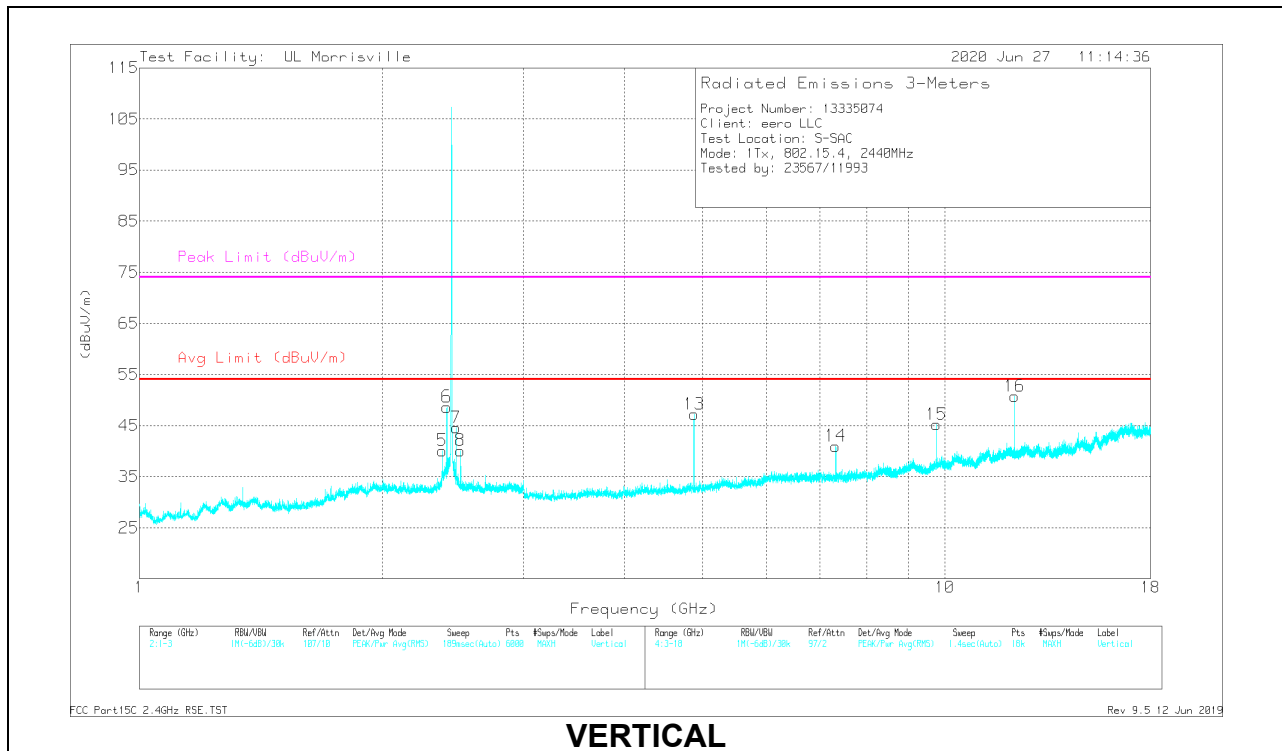
ADV – Voltage Averaging

Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 2.37662	46.13	PK2	32	-23.8	0	54.33	-	-	74	-19.67	28	106	H
	*** 2.37607	36.49	ADV	32	-23.8	-2.38	42.31	54	-11.69	-	-	28	106	H
4	** 2.50398	42.94	PK2	32.2	-24.4	0	50.74	-	-	74	-23.26	3	259	H
	** 2.50405	33.98	ADV	32.2	-24.4	-2.38	39.4	54	-14.6	-	-	3	259	H
5	*** 2.3761	43.2	PK2	32	-23.8	0	51.4	-	-	74	-22.6	330	319	V
	*** 2.37635	33.01	ADV	32	-23.8	-2.38	38.83	54	-15.17	-	-	330	319	V
8	** 2.50401	40.68	PK2	32.2	-24.4	0	48.48	-	-	74	-25.52	93	373	V
	** 2.50397	31.5	ADV	32.2	-24.4	-2.38	36.92	54	-17.08	-	-	93	373	V
9	*** 4.88104	47.69	PK2	33.8	-30.8	0	50.69	-	-	74	-23.31	94	105	H
	*** 4.88088	38.79	ADV	33.8	-30.8	-2.38	39.41	54	-14.59	-	-	94	105	H
10	*** 7.31892	37.37	PK2	35.6	-27.6	0	45.37	-	-	74	-28.63	360	110	H
	*** 7.31841	25.26	ADV	35.6	-27.6	-2.38	30.88	54	-23.12	-	-	360	110	H
12	*** 12.19737	39.89	PK2	38.7	-24	0	54.59	-	-	74	-19.41	336	229	H
	** 12.19765	29.45	ADV	38.7	-24	-2.38	41.77	54	-12.23	-	-	336	229	H
13	*** 4.88091	51.25	PK2	33.8	-30.8	0	54.25	-	-	74	-19.75	7	266	V
	** 4.8791	44.45	ADV	33.8	-30.8	-2.38	45.07	54	-8.93	-	-	7	266	V
14	*** 7.31834	41.91	PK2	35.6	-27.6	0	49.91	-	-	74	-24.09	309	127	V
	*** 7.31873	32.39	ADV	35.6	-27.6	-2.38	38.01	54	-15.99	-	-	309	127	V
16	*** 12.20244	43.55	PK2	38.7	-24	0	58.25	-	-	74	-15.75	332	112	V
	*** 12.2024	35.63	ADV	38.7	-24	-2.38	47.95	54	-6.05	-	-	332	112	V
6	2.4079	40.44	Pk	32	-23.8		48.64	-	-	-	-	0-360	199	V
1	2.40824	47.35	Pk	32	-23.8		55.55	-	-	-	-	0-360	101	H
7	2.47191	36.57	Pk	32.1	-24.1		44.57	-	-	-	-	0-360	199	V
3	2.47225	40.98	Pk	32.1	-24.1		48.98	-	-	-	-	0-360	101	H
11	9.75788	33.06	Pk	36.7	-25.6		44.16	-	-	-	-	0-360	199	H
15	9.75788	34.11	Pk	36.7	-25.6		45.21	-	-	-	-	0-360	101	V

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

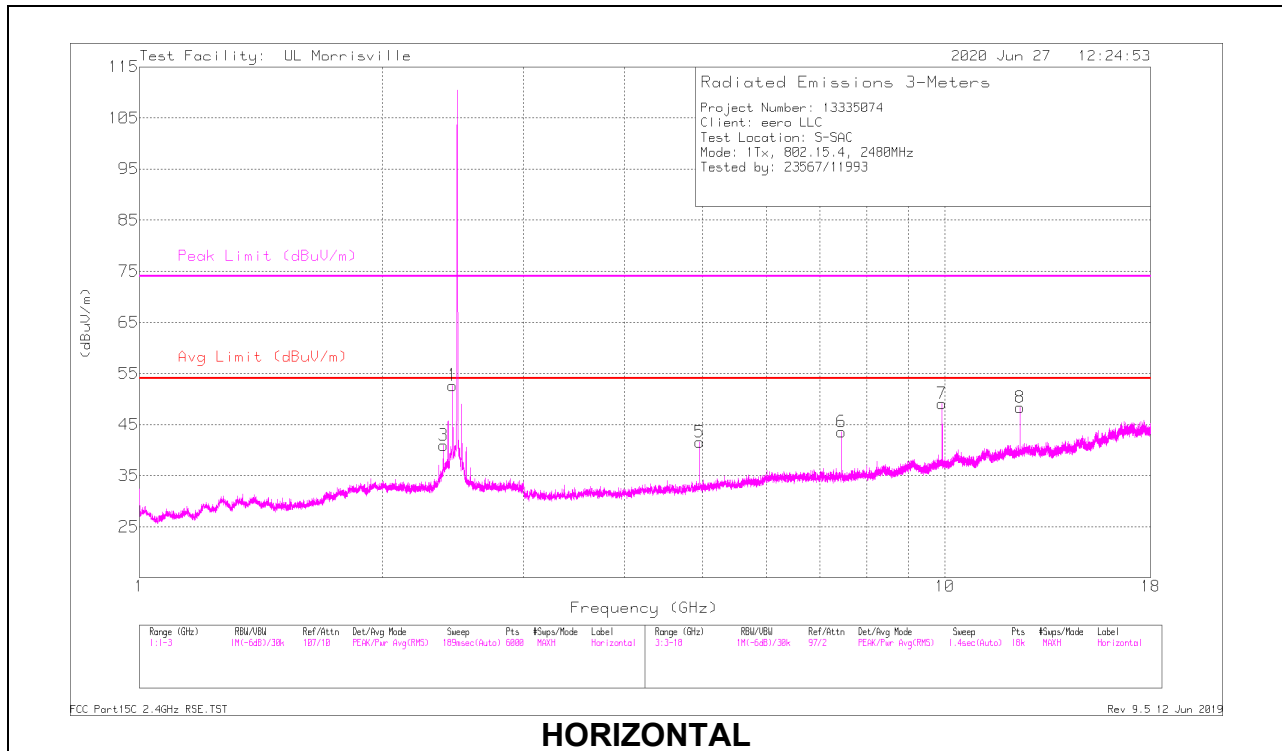
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

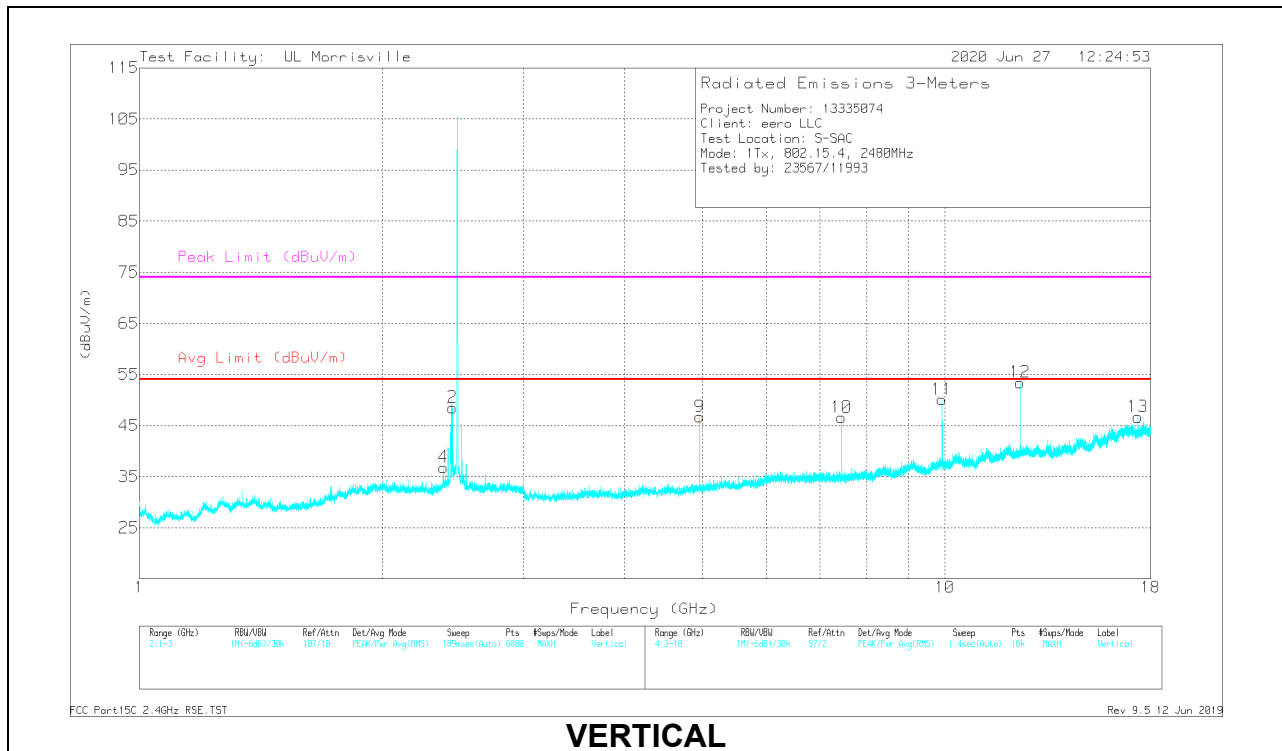
ADV – Voltage Averaging

Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*** 2.38416	42.46	PK2	32	-23.8	0	50.66	-	-	74	-23.34	33	288	H
	*** 2.38364	32.31	ADV	32	-23.8	-2.38	38.13	54	-15.87	-	-	33	288	H
4	*** 2.38405	40.56	PK2	32	-23.8	0	48.76	-	-	74	-25.24	323	318	V
	*** 2.38375	29.9	ADV	32	-23.8	-2.38	35.72	54	-18.28	-	-	323	318	V
5	*** 4.95897	46.87	PK2	34	-31	0	49.87	-	-	74	-24.13	92	122	H
	*** 4.95902	37.91	ADV	34	-31	-2.38	38.53	54	-15.47	-	-	92	122	H
6	*** 7.43861	44.89	PK2	35.6	-27.7	0	52.79	-	-	74	-21.21	124	231	H
	*** 7.43842	36.99	ADV	35.6	-27.7	-2.38	42.51	54	-11.49	-	-	124	231	H
8	*** 12.40233	43.32	PK2	38.7	-24.1	0	57.92	-	-	74	-16.08	76	400	H
	*** 12.40234	35.49	ADV	38.7	-24.1	-2.38	47.71	54	-6.29	-	-	76	400	H
9	*** 4.96096	51.75	PK2	34	-31	0	54.75	-	-	74	-19.25	15	276	V
	*** 4.96101	45.08	ADV	34	-31	-2.38	45.7	54	-8.3	-	-	15	276	V
10	*** 7.44134	45.77	PK2	35.6	-27.7	0	53.67	-	-	74	-20.33	21	104	V
	*** 7.44139	37.69	ADV	35.6	-27.7	-2.38	43.21	54	-10.79	-	-	21	104	V
12	*** 12.39757	45.74	PK2	38.7	-23.9	0	60.54	-	-	74	-13.46	332	106	V
	*** 12.39765	38.2	ADV	38.7	-23.9	-2.38	50.62	54	-3.38	-	-	332	106	V
1	2.44791	44.56	Pk	32.1	-24		52.66	-	-	-	-	0-360	101	H
2	2.44824	40.41	Pk	32.1	-24		48.51	-	-	-	-	0-360	199	V
7	9.91789	37.53	Pk	37	-25.4		49.13	-	-	-	-	0-360	199	H
11	9.91789	38.49	Pk	37	-25.4		50.09	-	-	-	-	0-360	101	V
13	17.35664	28.67	Pk	40.8	-22.8		46.67	-	-	-	-	0-360	199	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Voltage Averaging

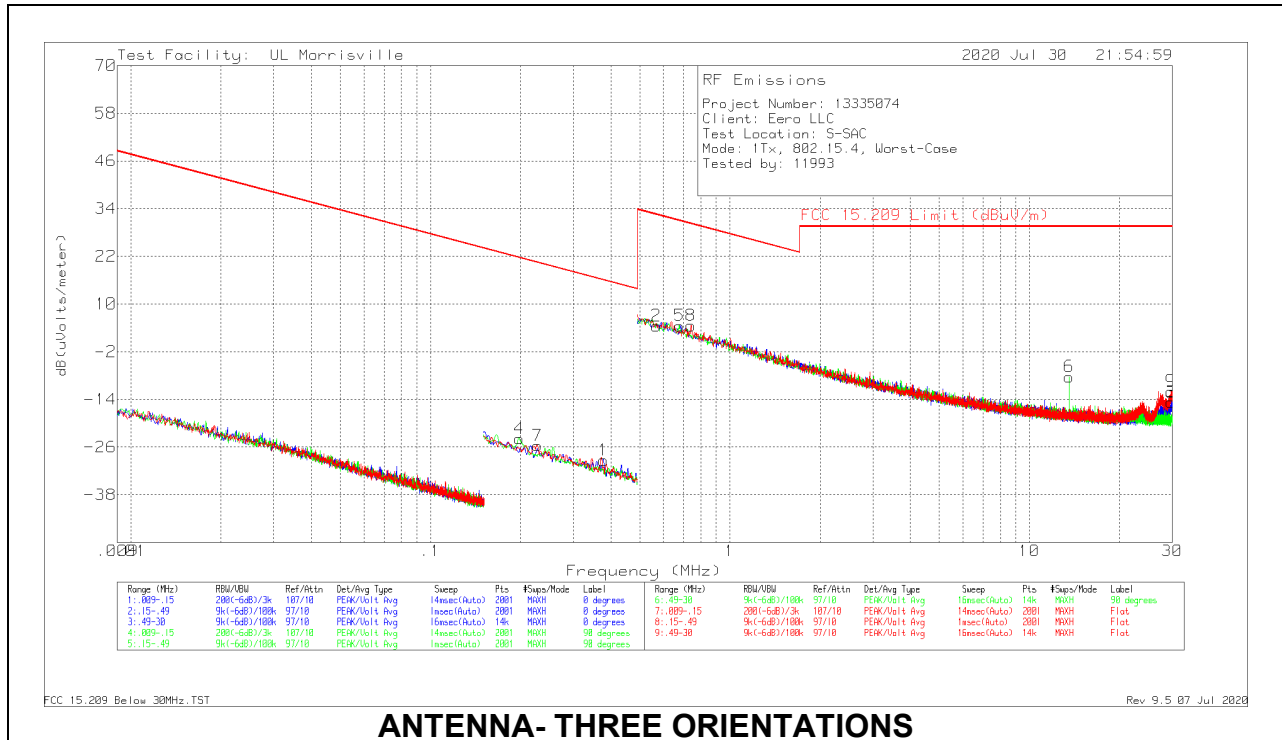
Note: DCCF based on manufacturer's declared duty cycle of 76%, $20\log(0.76) = -2.38\text{dB}$.

10.3. WORST CASE BELOW 30MHZ

Note for below 30 MHz scans: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

The below 30 MHz limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency 198.11 KHz resulted in a level of -23.91 dBuV/m, which is equivalent to -23.91-51.5 = -74.41 dBuA/m, which has the same margin, -45.48 dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- THREE ORIENTATIONS

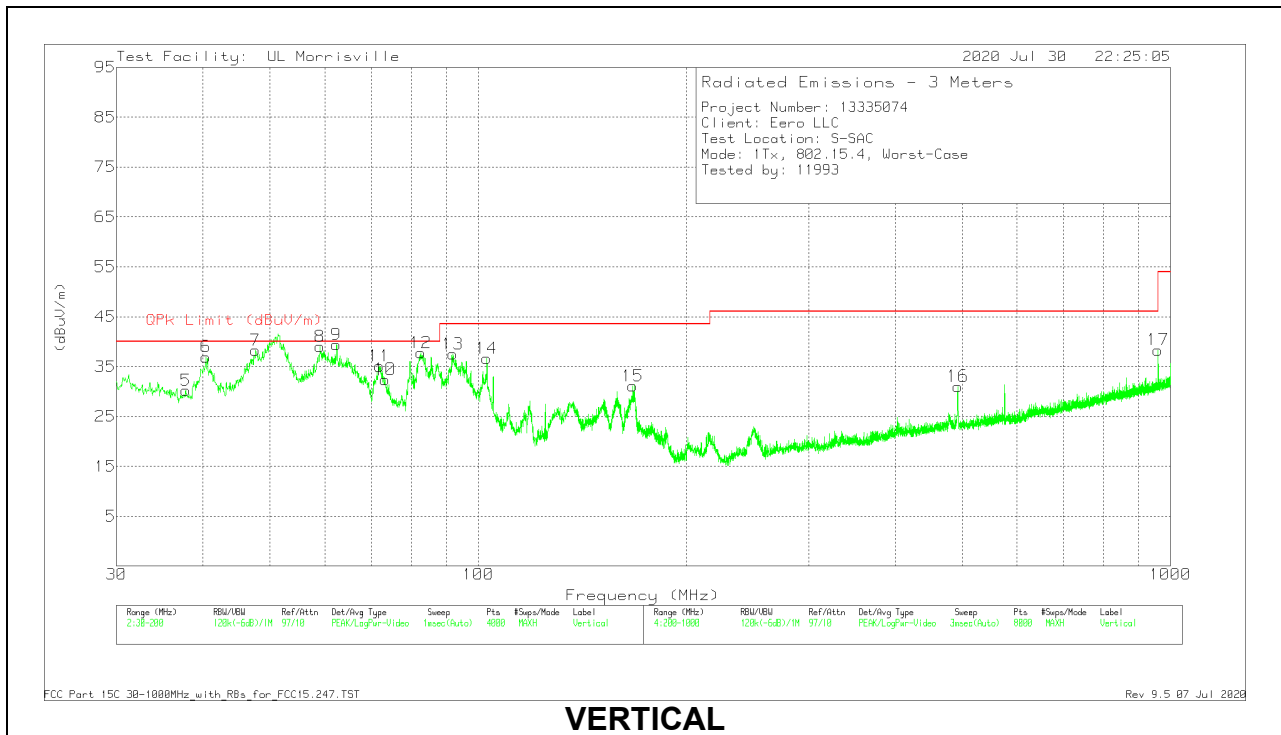
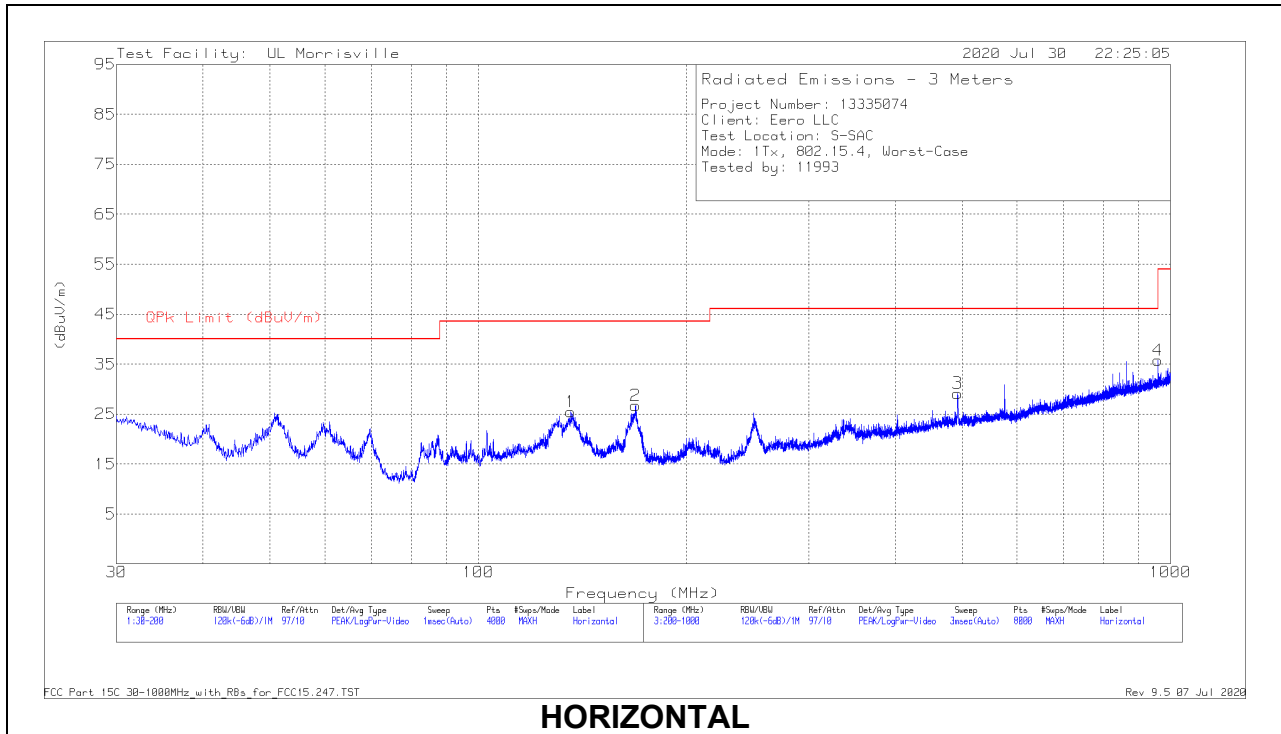
Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit Avg/QP (dBuV/m)	FCC 15.209 Pk Limit (dBuV/m)	Worst-Case Margin (dB)	Azimuth (Degs)
4	.19811	44.99	Pk	11	.1	-80	-23.91	21.67	41.67	-45.58	0-360
7	.22786	43.24	Pk	11	.1	-80	-25.66	20.45	40.45	-46.11	0-360
1	.37831	39.58	Pk	11	.1	-80	-29.32	16.05	36.05	-45.37	0-360
2	.568	33.39	Pk	11	.1	-40	4.49	32.52	-	-28.03	0-360
5	.67972	33.32	Pk	11	.2	-40	4.52	30.96	-	-26.44	0-360
8	.74085	33.36	Pk	11	.2	-40	4.56	30.21	-	-25.65	0-360
6	13.5596	21	Pk	10	.7	-40	-8.3	29.54	-	-37.84	0-360
3	29.75115	16.19	Pk	8	1.1	-40	-14.71	29.54	-	-44.25	0-360
9	29.77223	18.9	Pk	8	1.1	-40	-12	29.54	-	-41.54	0-360

Pk - Peak detector

10.4. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0081 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 136.0649	36.05	Pk	19.5	-30.1	25.45	43.52	-18.07	0-360	200	H
2	*** 168.7134	38.72	Pk	17.9	-29.9	26.72	43.52	-16.8	0-360	200	H
5	*** 37.7795	39.83	Pk	21.8	-31.4	30.23	40	-9.77	0-360	101	V
10	* 73.3612	48.82	Pk	14.5	-30.9	32.42	40	-7.58	0-360	101	V
15	*** 167.0555	42.98	Pk	18	-29.9	31.08	43.52	-12.44	0-360	101	V
3	** 492.638	33.15	Pk	23.7	-27.7	29.15	46.02	-16.87	0-360	200	H
4	** 959.9988	31.62	Pk	29	-24.9	35.72	46.02	-10.3	0-360	101	H
16	** 493.2381	35.04	Pk	23.7	-27.7	31.04	46.02	-14.98	0-360	101	V
17	** 959.9988	34.24	Pk	29	-24.9	38.34	46.02	-7.68	0-360	101	V
6	40.3727	48.56	Pk	19.8	-31.4	36.96	-	-	0-360	101	V
7	47.6421	54.45	Pk	15.1	-31.3	38.25	-	-	0-360	101	V
8	59.035	56.55	Pk	13.6	-31.1	39.05	-	-	0-360	101	V
9	62.3934	56.52	Pk	13.9	-31	39.42	-	-	0-360	101	V
11	72.0009	51.49	Pk	14.5	-30.9	35.09	-	-	0-360	101	V
12	82.5861	54.95	Pk	13.6	-30.8	37.75	-	-	0-360	101	V
13	91.8535	53.75	Pk	14.4	-30.6	37.55	-	-	0-360	101	V
14	102.8639	49.9	Pk	17.2	-30.5	36.6	-	-	0-360	101	V

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

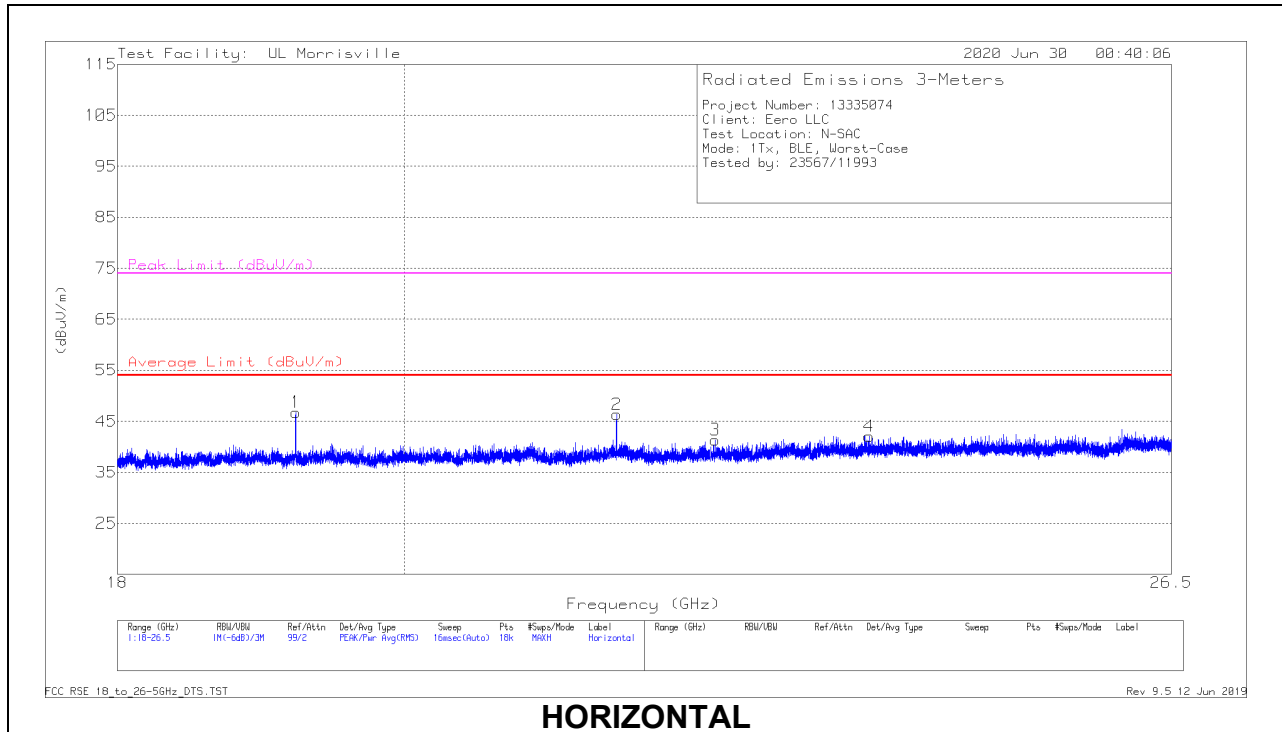
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

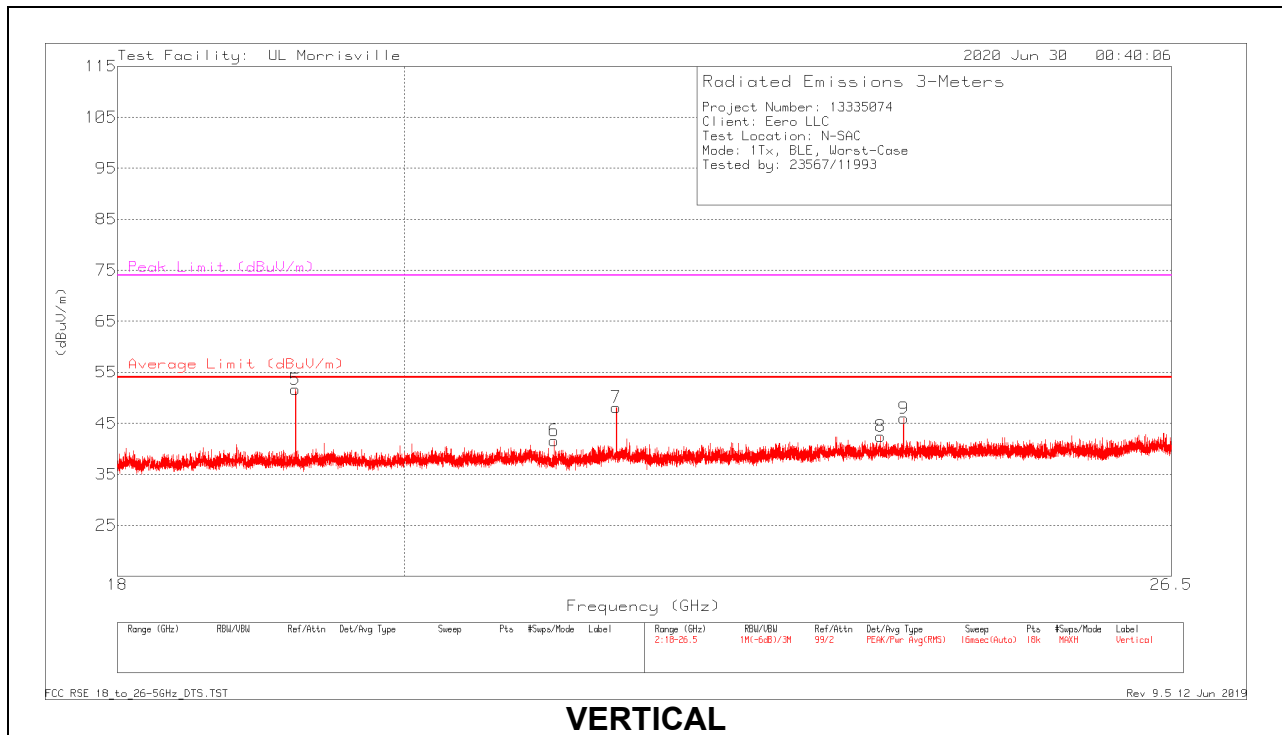
Qp - Quasi-Peak detector

10.5. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0076 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 19.21793	53.48	Pk	32.6	-39.3	46.78	54	-7.22	74	-27.22	0-360	198	H
3	* ** 22.41552	47.06	Pk	33.5	-39.2	41.36	54	-12.64	74	-32.64	0-360	148	H
4	* ** 23.71703	46.77	Pk	34	-38.7	42.07	54	-11.93	74	-31.93	0-360	102	H
5	* ** 19.21386	59.4	PK2	32.6	-39.3	52.7	-	-	74	-21.3	204	235	V
	* ** 19.21407	50.66	ADV	32.6	-39.3	43.96	54	-10.04	-	-	204	235	V
6	* ** 21.12723	47.82	Pk	33	-39.2	41.62	54	-12.38	74	-32.38	0-360	252	V
8	* ** 23.81715	47.07	Pk	34	-38.6	42.47	54	-11.53	74	-31.53	0-360	152	V
7	21.61553	53.93	Pk	33.3	-39.1	48.13	-	-	-	-	0-360	252	V
2	21.61978	52.14	Pk	33.3	-39.1	46.34	-	-	-	-	0-360	298	H
9	24.02258	50.59	Pk	34	-38.6	45.99	-	-	-	-	0-360	298	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

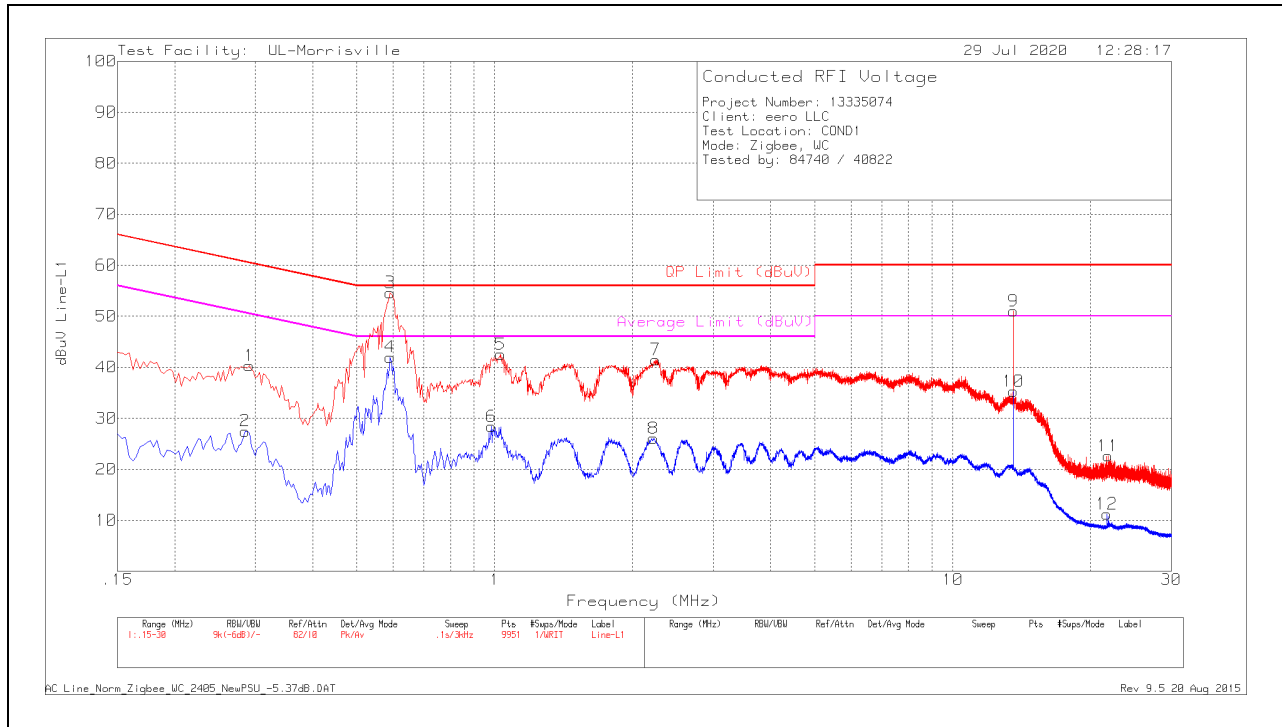
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

RESULTS

11.1.1. AC Power Line Host

LINE 1 RESULTS

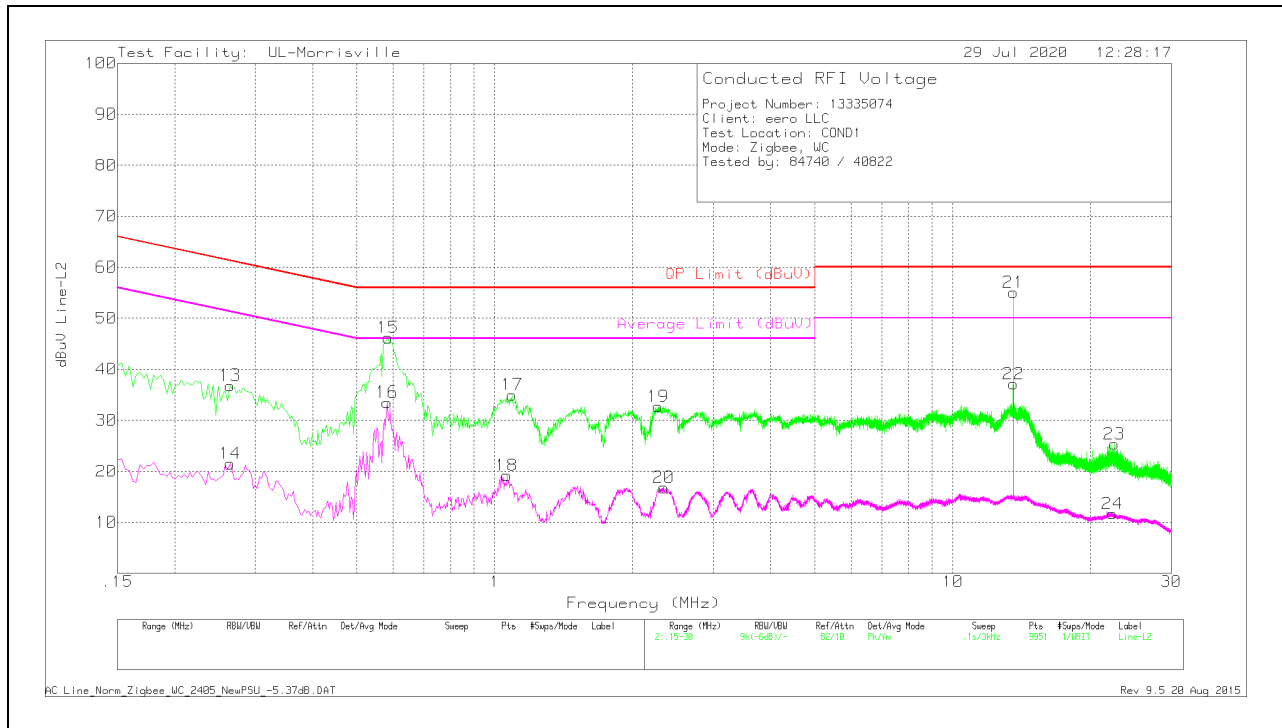


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.291	30.5	Pk	.1	9.7	40.3	60.5	-20.2	-	-
2	.285	17.69	Av	.1	9.7	27.49	-	-	50.67	-23.18
3	.58703	40.73	Qp	.1	9.8	50.63	56	-5.37	-	-
4	.58615	29.7	Ca	.1	9.8	39.6	-	-	46	-6.4
5	1.029	32.75	Pk	0	9.8	42.55	56	-13.45	-	-
6	.984	18.59	Av	0	9.8	28.39	-	-	46	-17.61
7	2.247	31.7	Pk	0	9.8	41.5	56	-14.5	-	-
8	2.22	16.24	Av	0	9.8	26.04	-	-	46	-19.96
9	13.56	40.9	Pk	.1	10	51	60	-9	-	-
10	13.56	25.2	Av	.1	10	35.3	-	-	50	-14.7
11	21.807	12.32	Pk	.2	10.1	22.62	60	-37.38	-	-
12	21.666	.94	Av	.2	10.1	11.24	-	-	50	-38.76

Pk - Peak detector
 Av - Average detection
 Qp - Quasi-Peak detector

NOTE: Markers 9 and 10, 13.56MHz is an external NFC signal unrelated to the EUT.

LINE 2 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.264	27.02	Pk	.1	9.7	36.82	61.3	-24.48	-	-
14	.264	11.68	Av	.1	9.7	21.48	-	-	51.3	-29.82
15	.585	36.39	Pk	0	9.8	46.19	56	-9.81	-	-
16	.582	23.7	Av	0	9.8	33.5	-	-	46	-12.5
17	1.092	25.19	Pk	0	9.8	34.99	56	-21.01	-	-
18	1.062	9.38	Av	0	9.8	19.18	-	-	46	-26.82
19	2.271	22.94	Pk	0	9.8	32.74	56	-23.26	-	-
20	2.337	7.01	Av	0	9.8	16.81	-	-	46	-29.19
21	13.561	37.18	Qp	.1	10	47.28	60	-12.72	-	-
22	13.56	27.02	Av	.1	10	37.12	-	-	50	-12.88
23	22.503	15.07	Pk	.2	10.1	25.37	60	-34.63	-	-
24	22.305	1.4	Av	.2	10.1	11.7	-	-	50	-38.3

Pk - Peak detector
 Av - Average detection
 Qp - Quasi-Peak detector

NOTE: Markers 21 and 22, 13.56MHz is an external NFC signal unrelated to the EUT.

12. SETUP PHOTOS

Please refer to R13335074-EP1 for setup photos.

END OF TEST REPORT