



TEST REPORT

Report Number. : R13337971-E2

Applicant : Raspberry Pi (Trading) Ltd
Maurice Wilkes Building
Cowley Road
Cambridge
CB4 0DS
United Kingdom

Model : RPI-RM0 (CM4)

FCC ID : 2ABCB-RPIRM0

IC : 20953-RPIRM0

EUT Description : Bluetooth and WiFi radio module

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

Date Of Issue:
2020-10-26

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2020-09-17	Initial Issue	Niklas Haydon
V2	2020-10-26	Added conducted emissions (mains) data	Mike Antola

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Raspberry Pi (Trading) Ltd
Maurice Wilkes Building
Cowley Road
Cambridge
CB4 0DS
United Kingdom

EUT DESCRIPTION: Bluetooth and WiFi radio module

MODEL: RPI-RM0 (CM4)

SERIAL NUMBER: E1162398

DATE TESTED: 2020-08-04 to 2020-10-23

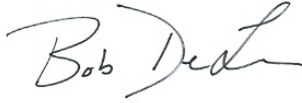
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Complies
ISED RSS-247 Issue 2	Complies
ISED RSS-GEN Issue 5	Complies

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 LLC By:



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Principal Engineer
Consumer Technology Division
UL LLC

Prepared By:



Niklas Haydon
Operations Leader
Consumer Technology Division
UL LLC

2. TEST RESULTS SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
ANSI C63.10 Section 11.6.		Duty Cycle	Not performed in this report.	Refer to UL VS LTD report UL-RPT-RP13337971-1416A.
ANSI C63.10 Section 6.9.3.	RSS-GEN 6.7	99% OBW		
15.247 (a) (2)	RSS-247 5.2 (a)	6dB BW		
15.247 (b) (3)	RSS-247 5.4 (d)	Output Power		
ANSI C63.10, Section 11.9.2.3.2.		Average power		
15.247 (e)	RSS-247 5.2 (b)	PSD		
15.247 (d)	RSS-247 5.5	Conducted Spurious Emissions	Compliant.	None.
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions		
15.207	RSS-Gen 8.8	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 15, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05, 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, North Carolina, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, North Carolina, 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	
☐ Chamber A RTP	☒ North Chamber
☒ Chamber C RTP	☒ 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	3.40 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 Bluetooth and WiFi radio module. The PMN and HVIN = Raspberry Pi RM0.

6.2. POWER SETTINGS USED FOR TESTING

The power settings are as follows:

Antenna 1

Frequency Band	Wi-Fi Channels	802.11b	802.11g	802.11n20	802.11n40
2400 to 2483.5 MHz	1	52	57	58	
	3				56
	6	52	57	58	56
	9				56
	10		57	58	
	11	51	42	38	

Antenna 2

Frequency Band	Wi-Fi Channels	802.11b	802.11g	802.11n20	802.11n40
2400 to 2483.5 MHz	1	52	57	58	
	3				56
	6	52	57	58	56
	9				56
	10		57	58	
	11	51	42	38	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna with a maximum gain of 3.5dBi or a external antenna with a maximum gain of 2dBi.

Internal antenna = antenna 1
External antenna = antenna 2

6.4. SOFTWARE AND FIRMWARE

The EUT hardware during testing was v1.0.
The EUT software during testing was v1.0.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz were performed with the EUT set to transmit at the channel with highest output power 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, high channels and inner channels where required.

The fundamental of the EUT was investigated with in three orthogonal orientations X,Y,Z for each antenna, it was determined that X orientation was worst-case orientation for antenna 1 and Z orientation for antenna Z; therefore, all final radiated testing was performed with both antennas in the X orientation for antenna 1 and Z orientation for antenna 2.

Worst-case data rates as declared by the client were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0

Duty cycle from UL-RPT-RP13337971-1416A:

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Voltage Averaging Duty Cycle Correction Factor (dB)
2.4GHz Band					
802.11n HT40	0.942	0.968	0.973	97.31%	0.24

Note: All other modes were found to have a duty cycle greater than 98%.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number
AC/DC Adapter	Raspberry Pi	KSA-15E-051300HK	3037350
Raspberry Pi Board	Raspberry Pi	Raspberry Pi 4 Model B	3157590

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	Mains	IEC	< 3M	Feeds AC/DC adapter
2	DC	1	DC plug	2-wire	< 3M	Powers EUT from AC/DC adapter

TEST SETUP

Test software exercised the radio card of the EUT.

SETUP DIAGRAM

Please refer to R13337971-EP2 for setup diagrams.

7. MEASUREMENT METHOD

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

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

AC Power Line Conducted Emissions: ANSI C63.10:2013 Sections 6.2

8. TEST AND MEASUREMENT EQUIPMENT

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

Radiated Disturbance Emissions Test Equipment (RTP – Chamber C)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
AT0062	HORN Antenna	ETS-Lindgren	3117	2020-01-30	2021-01-30
	Gain-Loss Chains				
C-SAC02	Gain-loss string: 1-18GHz	Various	Various	2020-03-03	2021-03-03
C-SAC02 Path 7	Gain-loss string 1-7GHz	Various	Various	2020-04-03	2021-04-03
	Receiver & Software				
SA0018	Spectrum Analyzer	Agilent	PXA (N9030A)	2020-03-02	2021-03-02
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
HI0085	Temp/Humid/Pressure Meter	EXTECH	SD700	2020-04-20	2021-04-30

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-28	2021-04-28
	Gain-Loss Chains				
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-06	2020-07-06
	Receiver & Software				
SA0025	Spectrum Analyzer	Agilent	N9030A	2020-03-17	2021-03-17
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 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22

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.)			
AT0059	Active Loop Antenna	EMCO	6502	2020-08-06	2021-08-06
	30-1000 MHz				
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2020-07-27	2021-07-27
	1-18 GHz				
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-27	2021-04-27
	18-40 GHz				
AT0076	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2019-11-07	2020-11-07
AT0077	Horn Antenna, 26-40GHz	ARA	MWH-2640/B	2019-11-07	2020-11-07
	Gain-Loss Chains				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2020-07-29	2021-07-29
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2020-07-29	2021-07-29
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-28	2021-07-28
N-SAC04	Gain-loss string: 18-40GHz	Various	Various	2020-07-31	2021-07-31
	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 200037610	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22
ATA174	10dB, DC-18GHz, 5W	Mini-Circuits	BW-N10W5	2020-02-19	2021-02-19

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.

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

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
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	2020-08-18	2021-08-18
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2020-08-18	2021-08-18
ATA222	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2020-03-26	2021-03-26
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)		
SOFTEMI	EMI Software	UL	Version 9.5 (2020-07-07)		
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2020-08-08	2021-08-08

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.

9. RADIATED TEST RESULTS

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 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. 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.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the low, middle, high channels and inner channels where required 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.

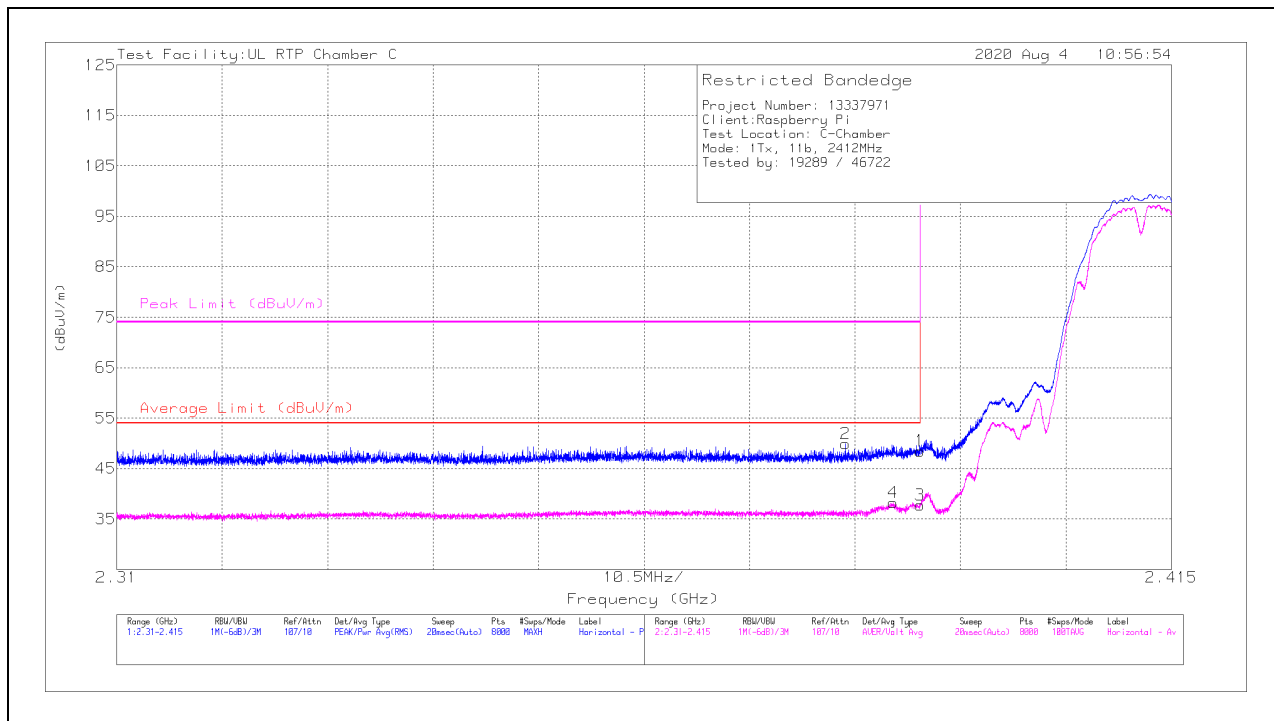
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	35.69	Pk	32.1	-19.3	48.49	-	-	74	-25.51	37	106	H
2	* ** 2.38253	37.28	Pk	32	-19.4	49.88	-	-	74	-24.12	37	106	H
3	* ** 2.39	24.98	ADV	32.1	-19.3	37.78	54	-16.22	-	-	37	106	H
4	* ** 2.38732	25.57	ADV	32	-19.3	38.27	54	-15.73	-	-	37	106	H

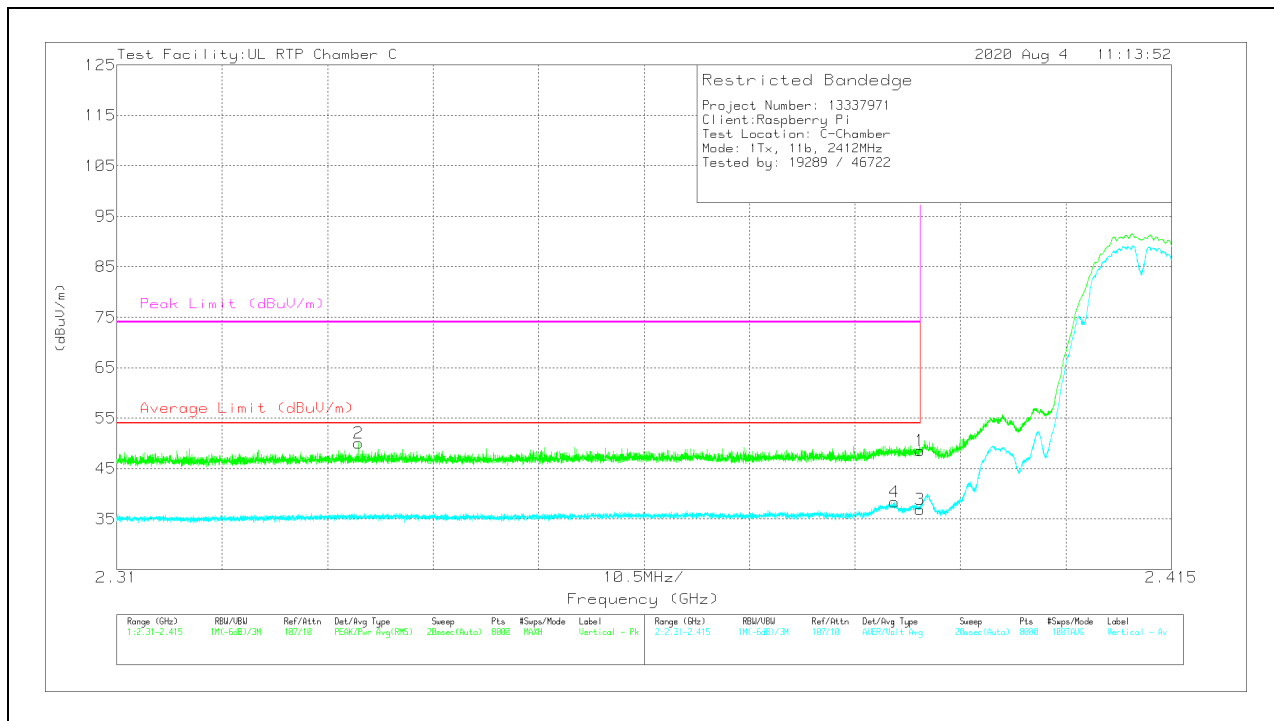
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV -Linear Voltage Average

VERTICAL RESULT

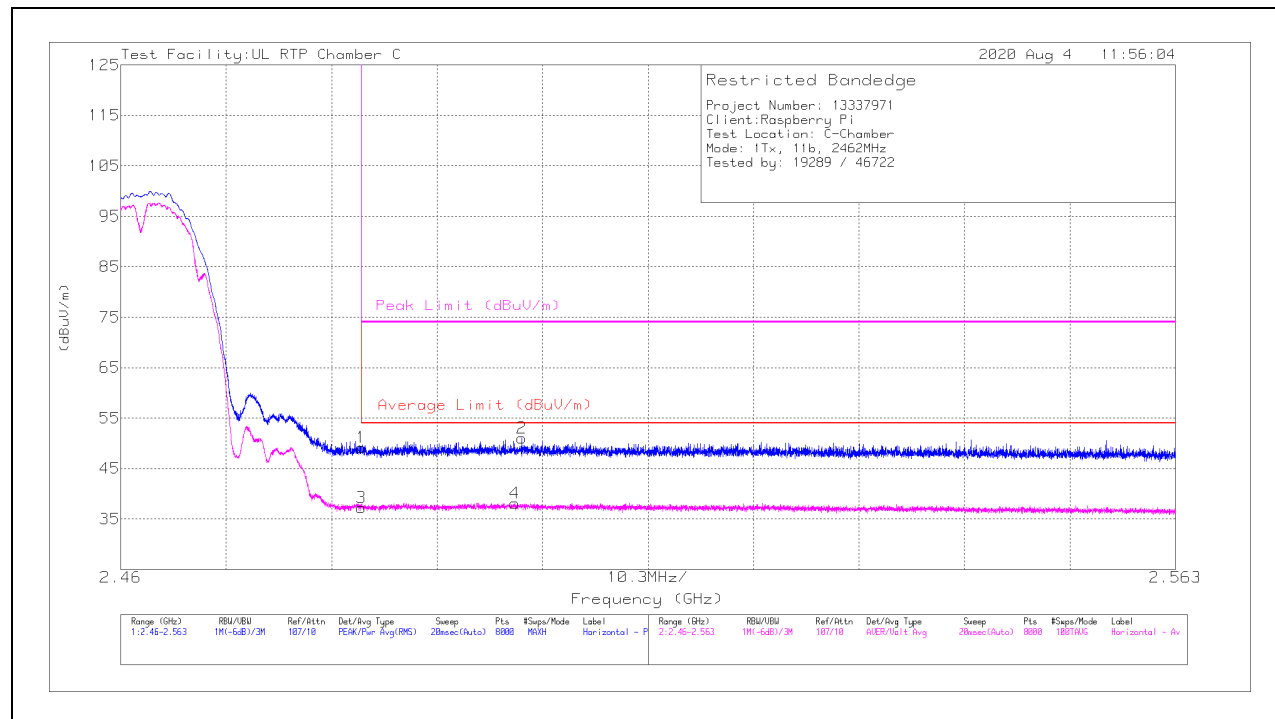


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	35.79	Pk	32.1	-19.3	48.59	-	-	74	-25.41	193	102	V
2	*** 2.33408	37.4	Pk	31.9	-19.3	50	-	-	74	-24	193	102	V
3	*** 2.39	24.1	ADV	32.1	-19.3	36.9	54	-17.1	-	-	193	102	V
4	*** 2.3874	25.63	ADV	32	-19.3	38.33	54	-15.67	-	-	193	102	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, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	35.73	Pk	32.6	-19.2	49.13	-	-	74	-24.87	139	257	H
2	*** 2.49917	37.31	Pk	32.7	-19	51.01	-	-	74	-22.99	139	257	H
3	*** 2.4835	23.81	ADV	32.6	-19.2	37.21	54	-16.79	-	-	139	257	H
4	*** 2.49852	24.48	ADV	32.7	-19	38.18	54	-15.82	-	-	139	257	H

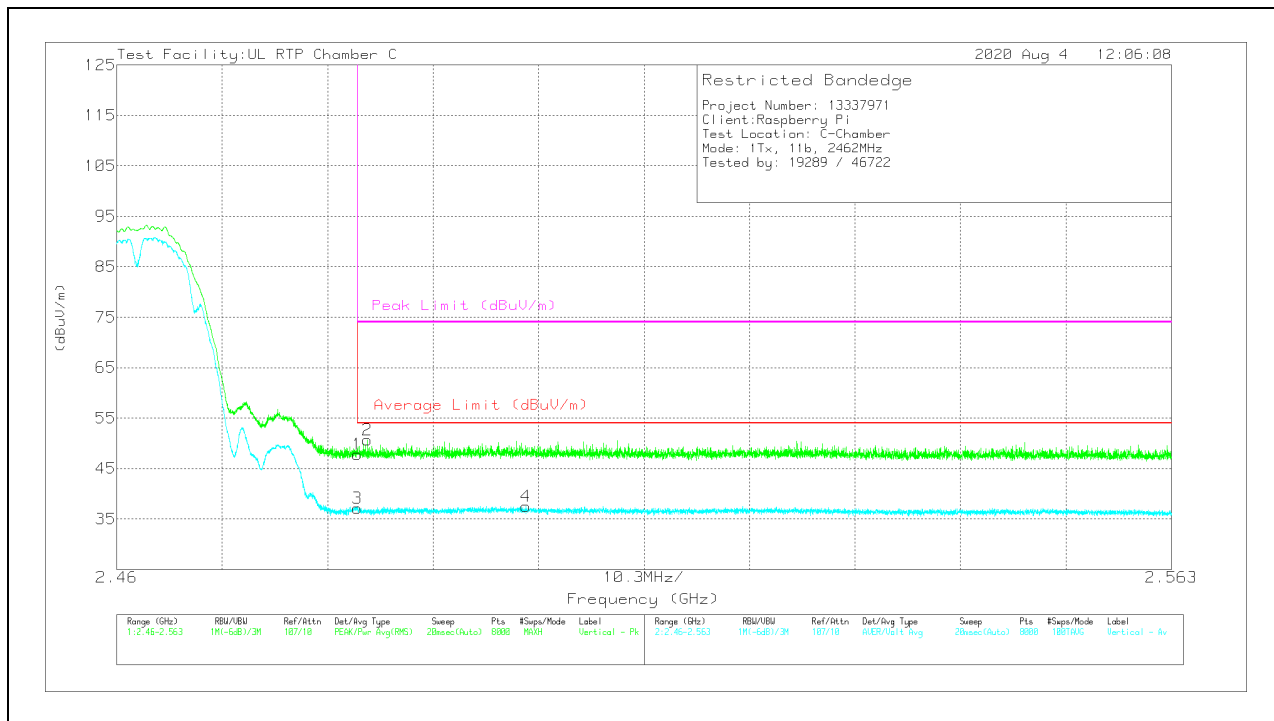
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	34.42	Pk	32.6	-19.2	47.82	-	-	74	-26.18	192	257	V
2	*** 2.48447	37.24	Pk	32.6	-19.2	50.64	-	-	74	-23.36	192	257	V
3	*** 2.4835	23.71	ADV	32.6	-19.2	37.11	54	-16.89	-	-	192	257	V
4	*** 2.49997	23.81	ADV	32.7	-19	37.51	54	-16.49	-	-	192	257	V

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

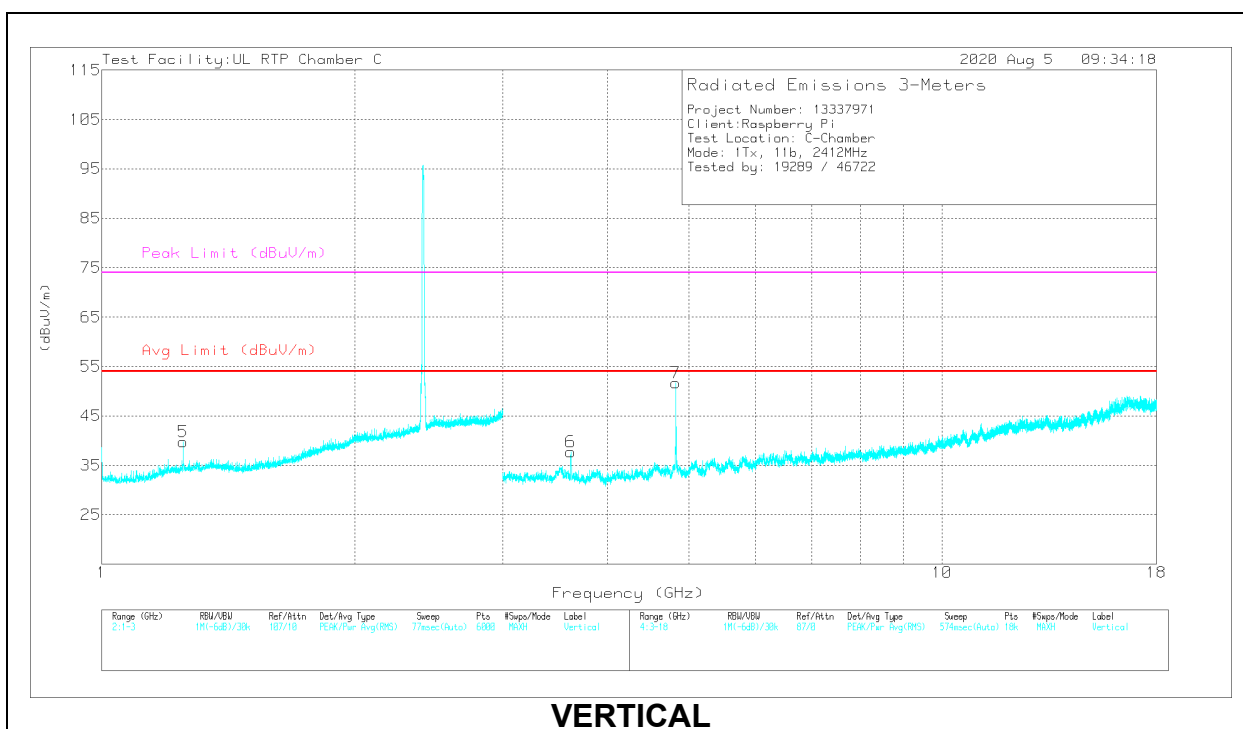
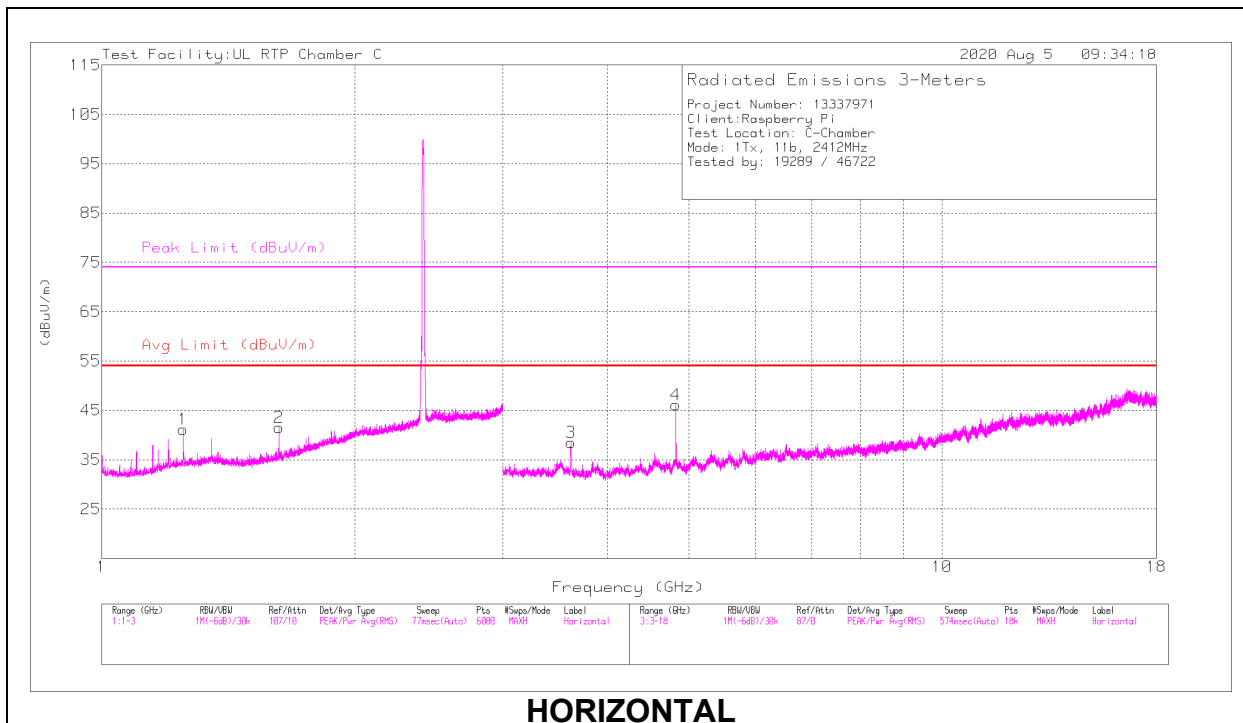
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24992	38.98	PK2	28.6	-21.5	46.08	-	-	74	-27.92	180	102	H
	* 1.24999	31.92	ADV	28.6	-21.5	39.02	54	-14.98	-	-	180	102	H
2	* ** 1.62491	39.62	PK2	28.5	-20.7	47.42	-	-	74	-26.58	216	224	H
	* ** 1.62499	31.48	ADV	28.5	-20.7	39.28	54	-14.72	-	-	216	224	H
5	* 1.25003	39.4	PK2	28.6	-21.5	46.5	-	-	74	-27.5	196	306	V
	* 1.24996	31.58	ADV	28.6	-21.5	38.68	54	-15.32	-	-	196	306	V
3	* ** 3.61924	60.92	PK2	33.1	-50	44.02	-	-	74	-29.98	100	317	H
	* ** 3.61967	52.03	ADV	33.1	-50	35.13	54	-18.87	-	-	100	317	H
4	* ** 4.82411	63.61	PK2	34.1	-49.6	48.11	-	-	74	-25.89	159	251	H
	* ** 4.82396	59.4	ADV	34.1	-49.6	43.9	54	-10.1	-	-	159	251	H
6	* ** 3.61699	60.7	PK2	33.1	-49.9	43.9	-	-	74	-30.1	284	253	V
	* ** 3.61623	51.28	ADV	33.1	-49.9	34.48	54	-19.52	-	-	284	253	V
7	* ** 4.82394	68.7	PK2	34.1	-49.6	53.2	-	-	74	-20.8	179	395	V
	* ** 4.82394	65.98	ADV	34.1	-49.6	50.48	54	-3.52	-	-	179	395	V

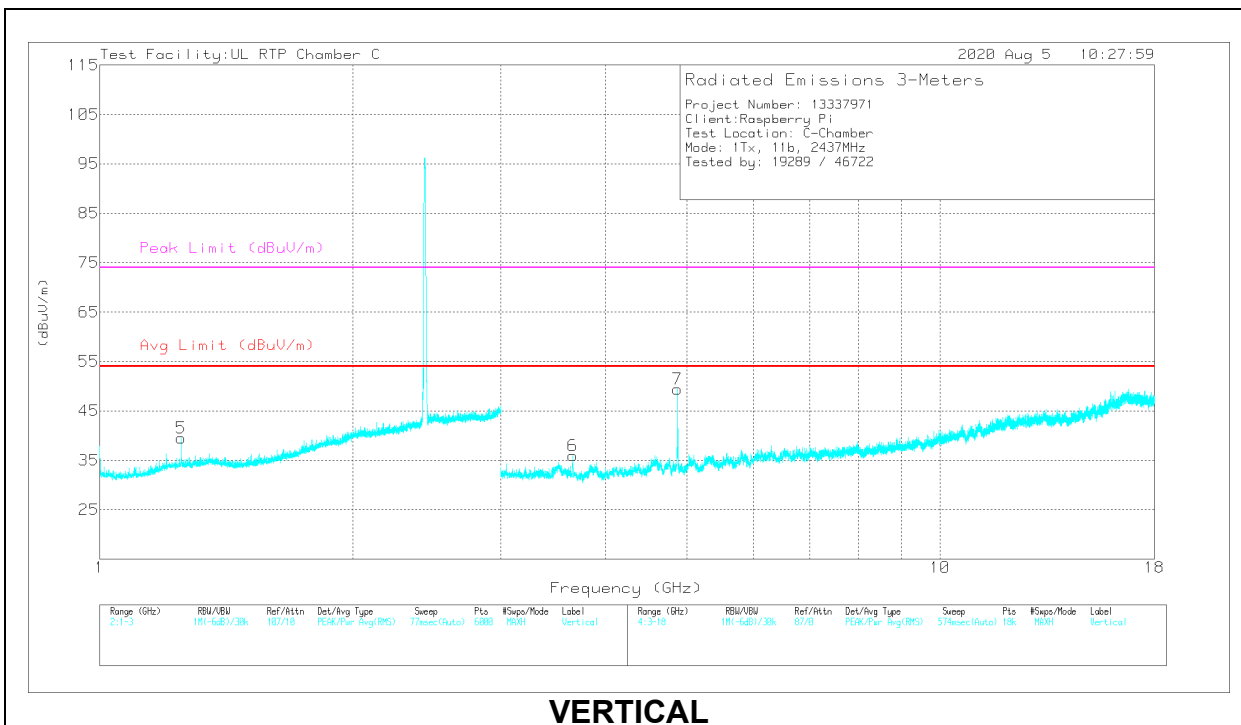
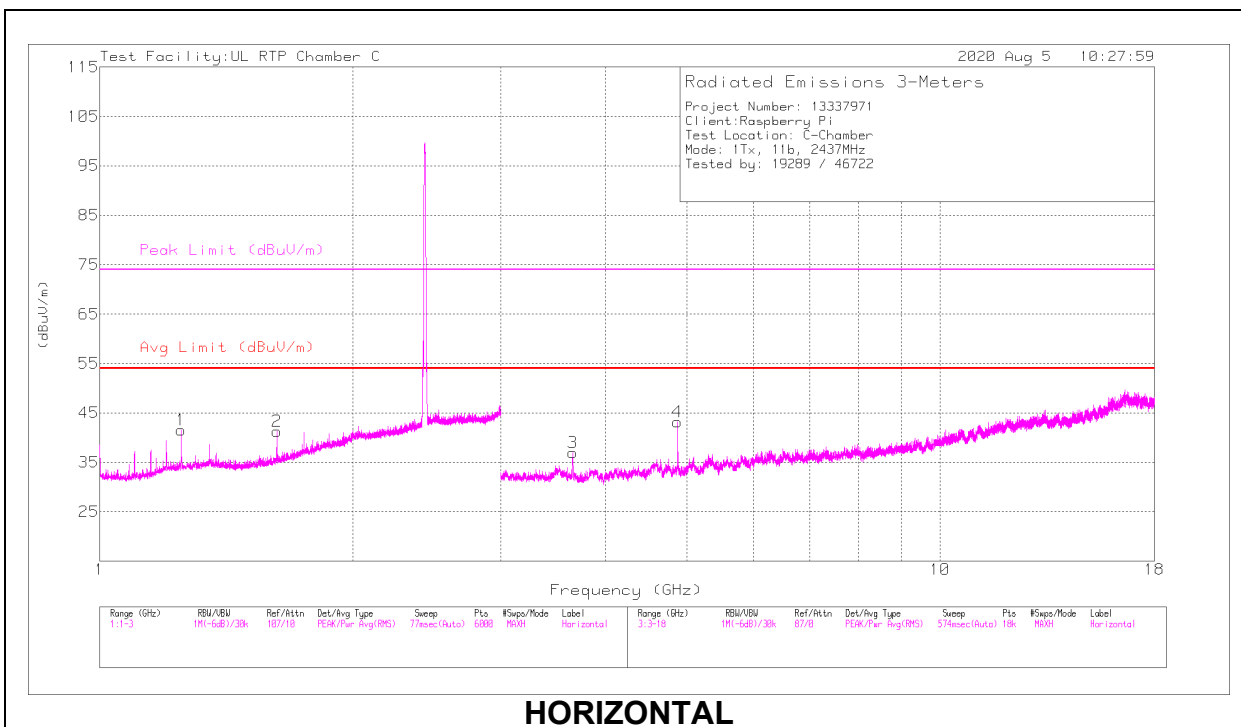
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24995	38.77	PK2	28.6	-21.5	45.87	-	-	74	-28.13	179	102	H
	* 1.25001	31.95	ADV	28.6	-21.5	39.05	54	-14.95	-	-	179	102	H
2	* ** 1.62504	39.51	PK2	28.5	-20.7	47.31	-	-	74	-26.69	216	104	H
	* ** 1.62497	30.57	ADV	28.5	-20.7	38.37	54	-15.63	-	-	216	104	H
5	* 1.24997	37.44	PK2	28.6	-21.5	44.54	-	-	74	-29.46	311	102	V
	* 1.25003	29.41	ADV	28.6	-21.5	36.51	54	-17.49	-	-	311	102	V
3	* ** 3.65452	57.73	PK2	33.1	-49.8	41.03	-	-	74	-32.97	91	102	H
	* ** 3.65468	46.91	ADV	33.1	-49.8	30.21	54	-23.79	-	-	91	102	H
4	* ** 4.87385	63.14	PK2	34	-48.9	48.24	-	-	74	-25.76	119	102	H
	* ** 4.87394	58.61	ADV	34	-48.9	43.71	54	-10.29	-	-	119	102	H
6	* ** 3.65687	58.29	PK2	33.1	-49.9	41.49	-	-	74	-32.51	188	102	V
	* ** 3.65676	48.05	ADV	33.1	-49.8	31.35	54	-22.65	-	-	188	102	V
7	* ** 4.87401	65.52	PK2	34	-48.9	50.62	-	-	74	-23.38	182	102	V
	* ** 4.87395	62.3	ADV	34	-48.9	47.4	54	-6.6	-	-	182	102	V

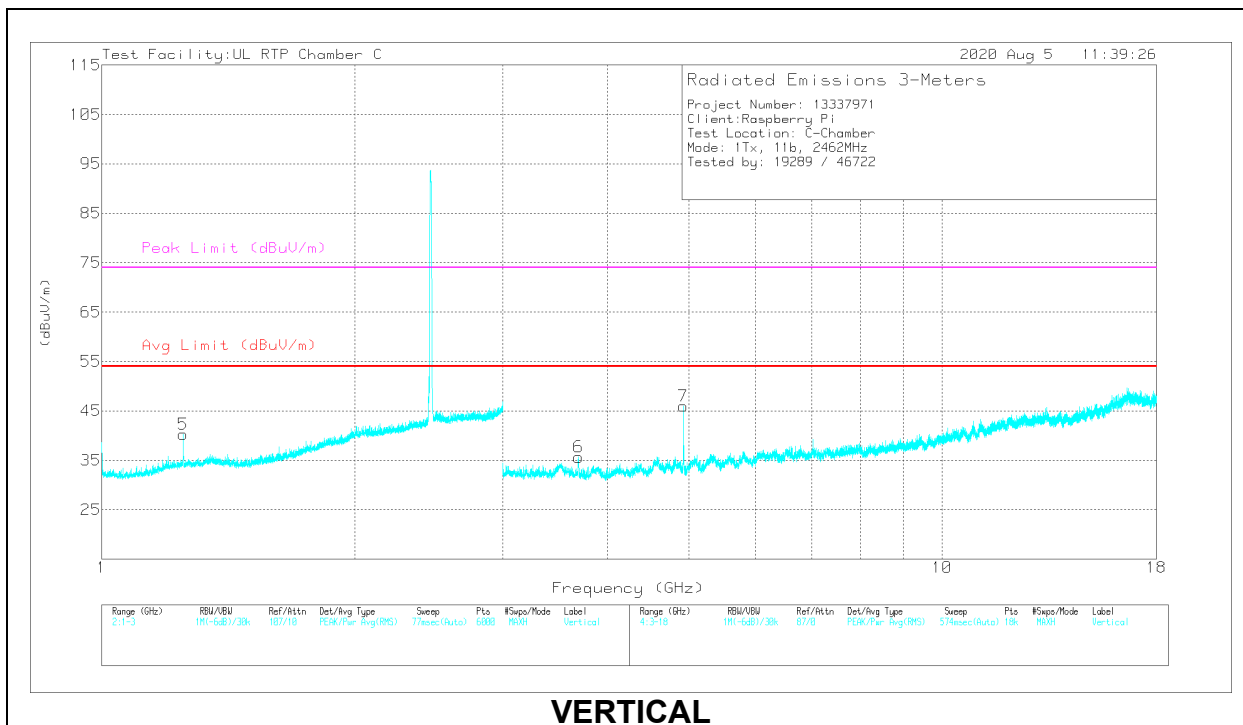
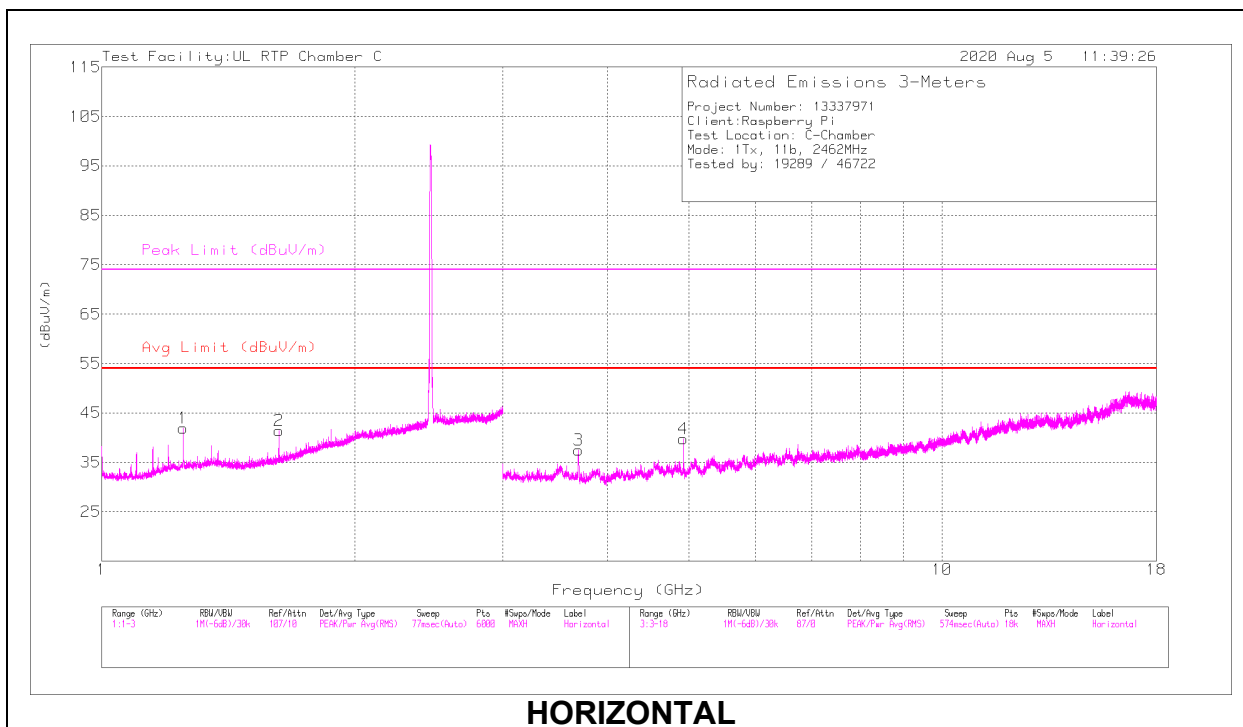
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24978	38.53	PK2	28.6	-21.5	45.63	-	-	74	-28.37	173	102	H
	* 1.24999	31.66	ADV	28.6	-21.5	38.76	54	-15.24	-	-	173	102	H
2	* ** 1.62533	39.12	PK2	28.5	-20.7	46.92	-	-	74	-27.08	215	104	H
	* ** 1.62496	30.52	ADV	28.5	-20.7	38.32	54	-15.68	-	-	215	104	H
5	* 1.24974	37.37	PK2	28.6	-21.5	44.47	-	-	74	-29.53	244	107	V
	* 1.25006	29.52	ADV	28.6	-21.5	36.62	54	-17.38	-	-	244	107	V
3	* ** 3.69159	58.12	PK2	33.2	-49.7	41.62	-	-	74	-32.38	81	102	H
	* ** 3.69223	48.13	ADV	33.2	-49.7	31.63	54	-22.37	-	-	81	102	H
4	* ** 4.92402	59.58	PK2	34	-48.9	44.68	-	-	74	-29.32	123	102	H
	* ** 4.92392	53.52	ADV	34	-48.9	38.62	54	-15.38	-	-	123	102	H
6	* ** 3.69398	58	PK2	33.2	-49.6	41.6	-	-	74	-32.4	186	102	V
	* ** 3.69373	47.92	ADV	33.2	-49.6	31.52	54	-22.48	-	-	186	102	V
7	* ** 4.92395	63.45	PK2	34	-48.9	48.55	-	-	74	-25.45	191	102	V
	* ** 4.92393	59.48	ADV	34	-48.9	44.58	54	-9.42	-	-	191	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

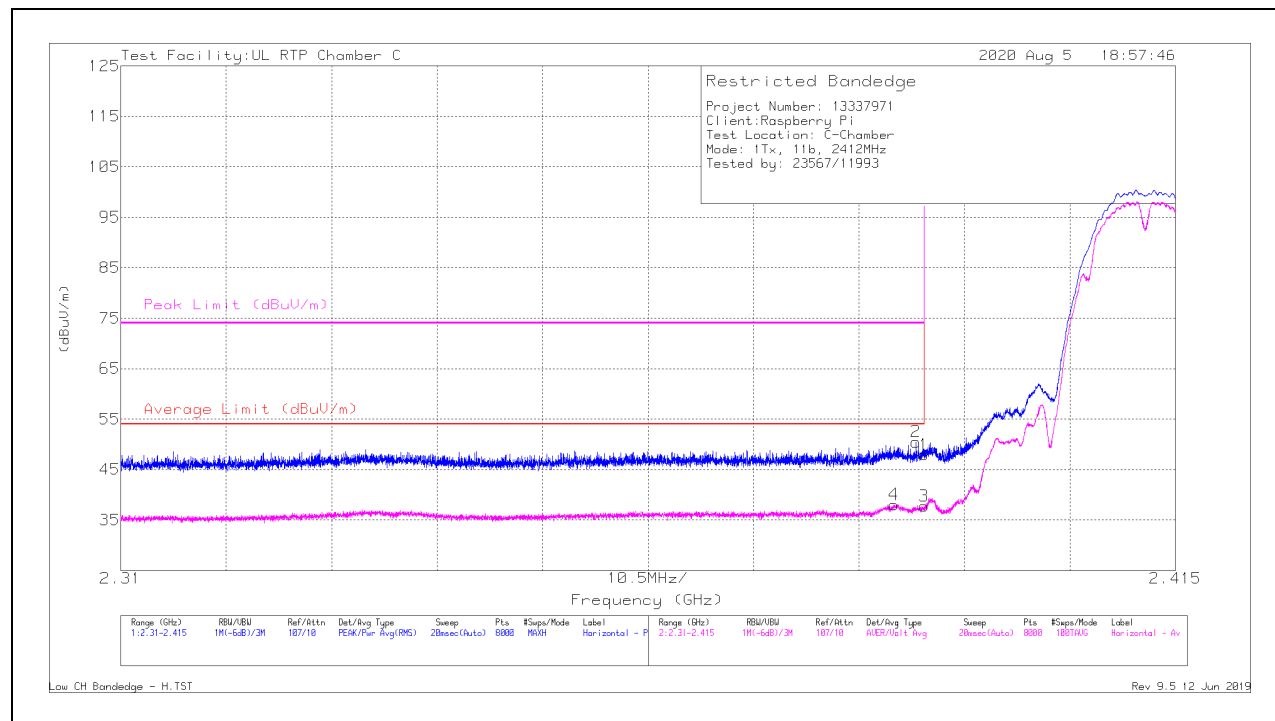
PK2 - Maximum Peak

ADV - Linear Voltage Average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	35.16	Pk	32.1	-19.3	47.96	-	-	74	-26.04	193	102	H
2	* ** 2.38917	37.78	Pk	32	-19.3	50.48	-	-	74	-23.52	193	102	H
3	* ** 2.39	24.9	ADV	32.1	-19.3	37.7	54	-16.3	-	-	193	102	H
4	* ** 2.38696	25.36	ADV	32	-19.3	38.06	54	-15.94	-	-	193	102	H

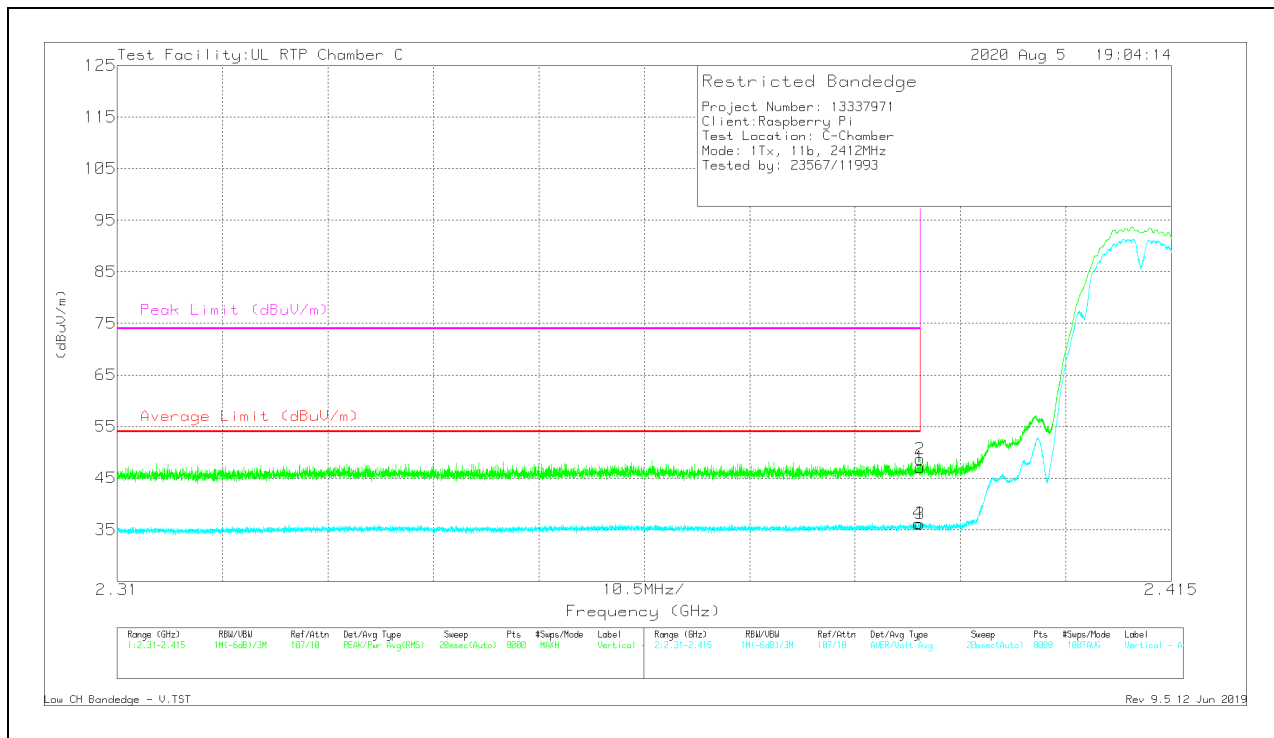
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	34.3	Pk	32.1	-19.3	47.1	-	-	74	-26.9	238	102	V
2	* ** 2.38996	35.9	Pk	32.1	-19.3	48.7	-	-	74	-25.3	238	102	V
3	* ** 2.39	23.32	ADV	32.1	-19.3	36.12	54	-17.88	-	-	238	102	V
4	* ** 2.38979	23.43	ADV	32.1	-19.3	36.23	54	-17.77	-	-	238	102	V

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

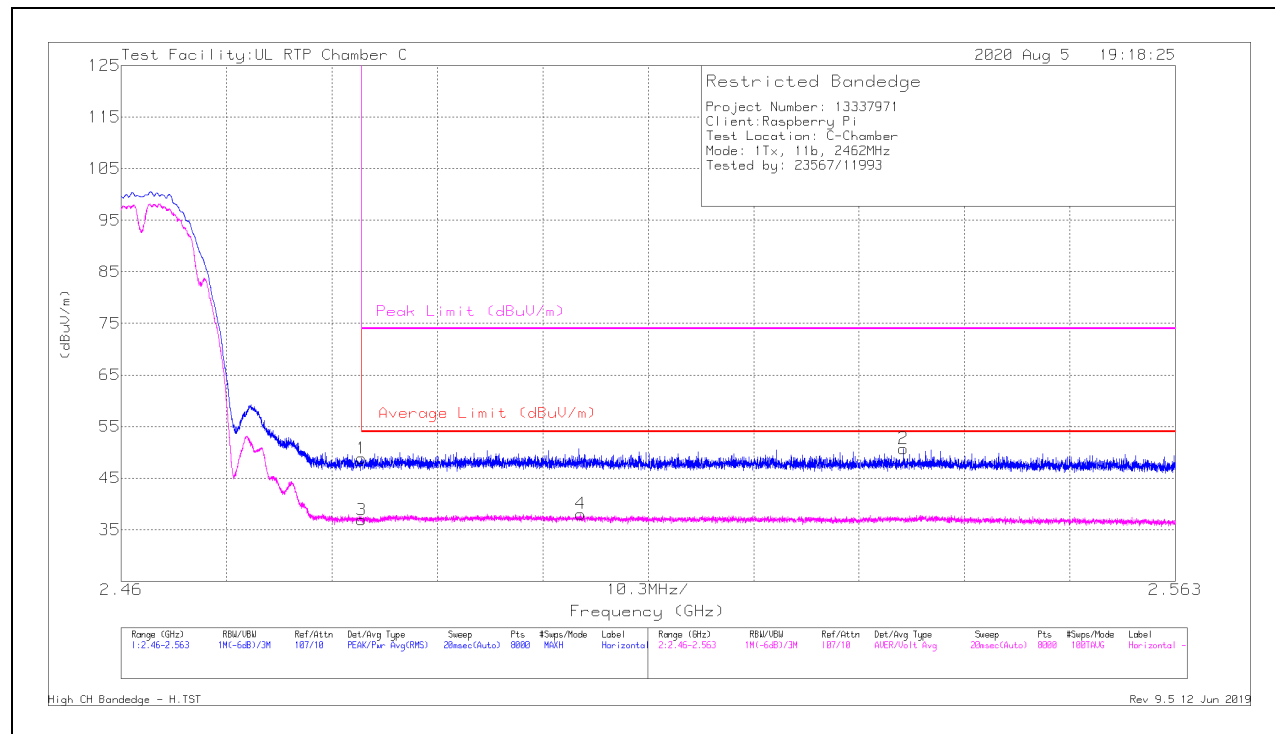
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	35.43	Pk	32.6	-19.2	48.83	-	-	74	-25.17	191	102	H
2	** 2.53641	37.23	Pk	32.6	-19.1	50.73	-	-	74	-23.27	191	102	H
3	* ** 2.4835	23.51	ADV	32.6	-19.2	36.91	54	-17.09	-	-	191	102	H
4	** 2.50488	24.37	ADV	32.7	-19	38.07	54	-15.93	-	-	191	102	H

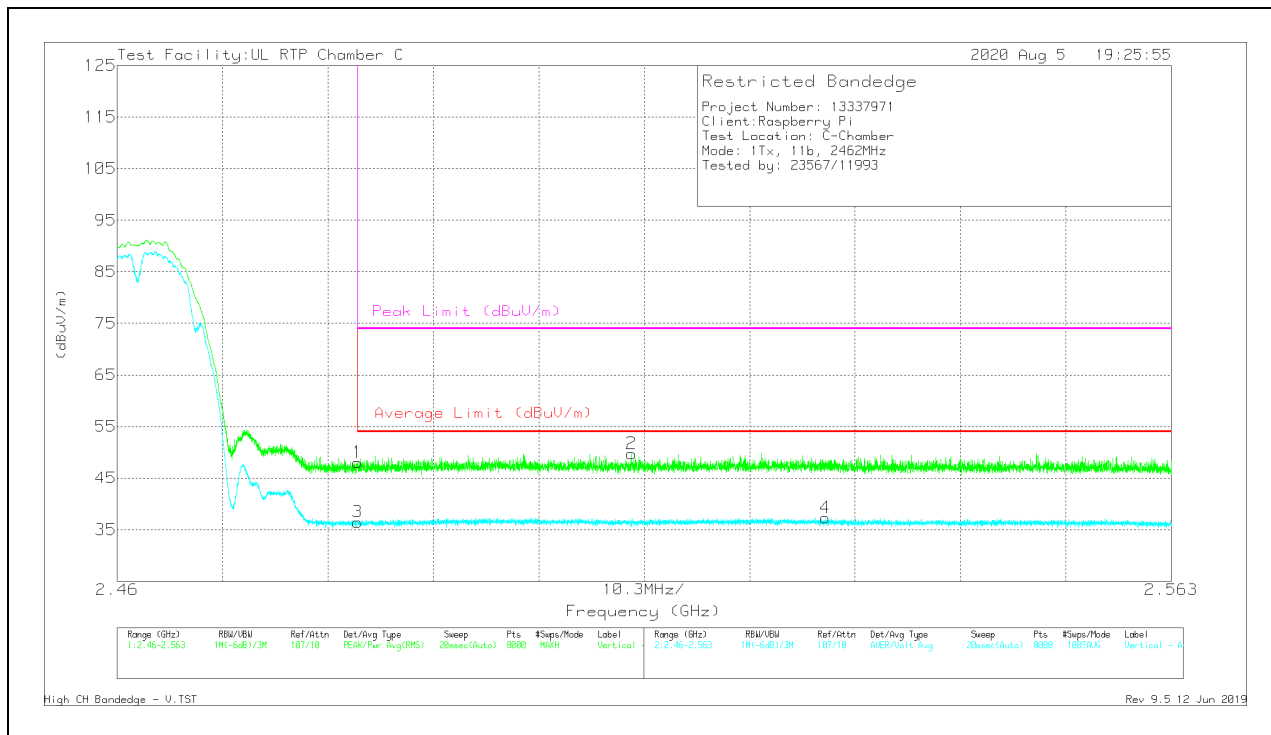
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	34.64	Pk	32.6	-19.2	48.04	-	-	74	-25.96	182	102	V
2	** 2.51026	36.15	Pk	32.7	-19.1	49.75	-	-	74	-24.25	182	102	V
3	* ** 2.4835	23.09	ADV	32.6	-19.2	36.49	54	-17.51	-	-	182	102	V
4	** 2.52919	23.61	ADV	32.6	-18.9	37.31	54	-16.69	-	-	182	102	V

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

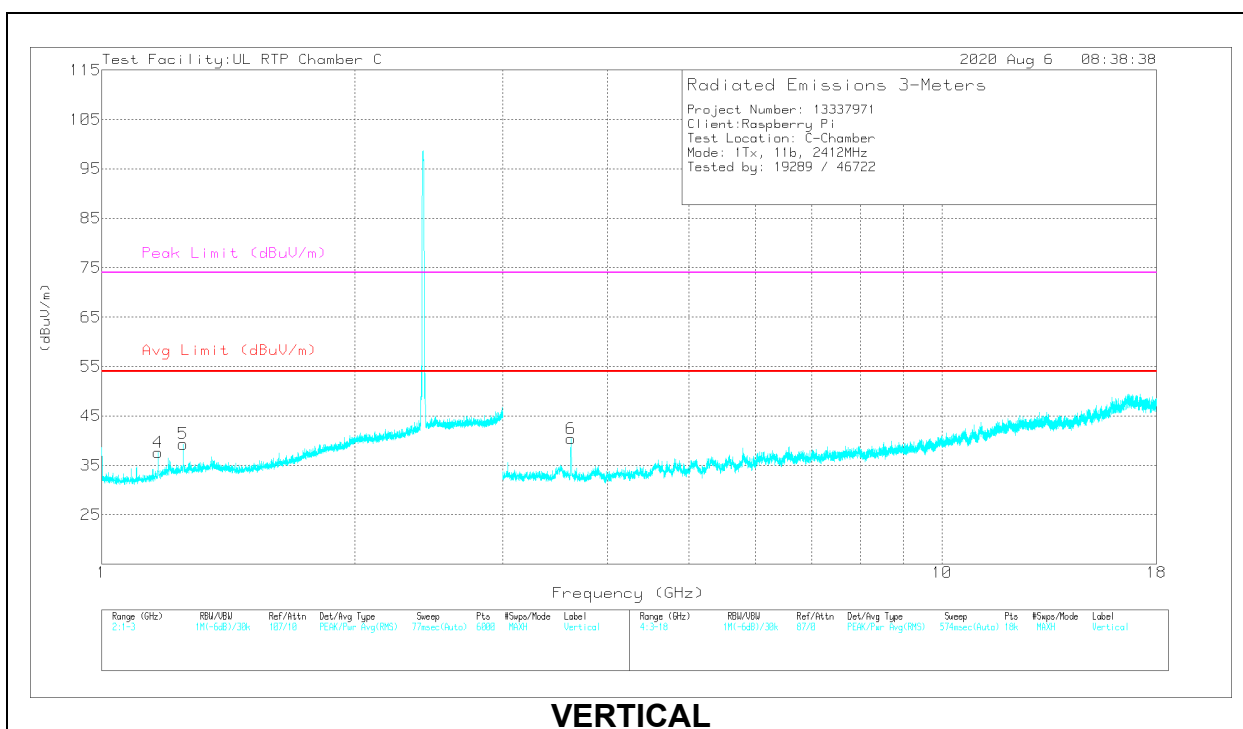
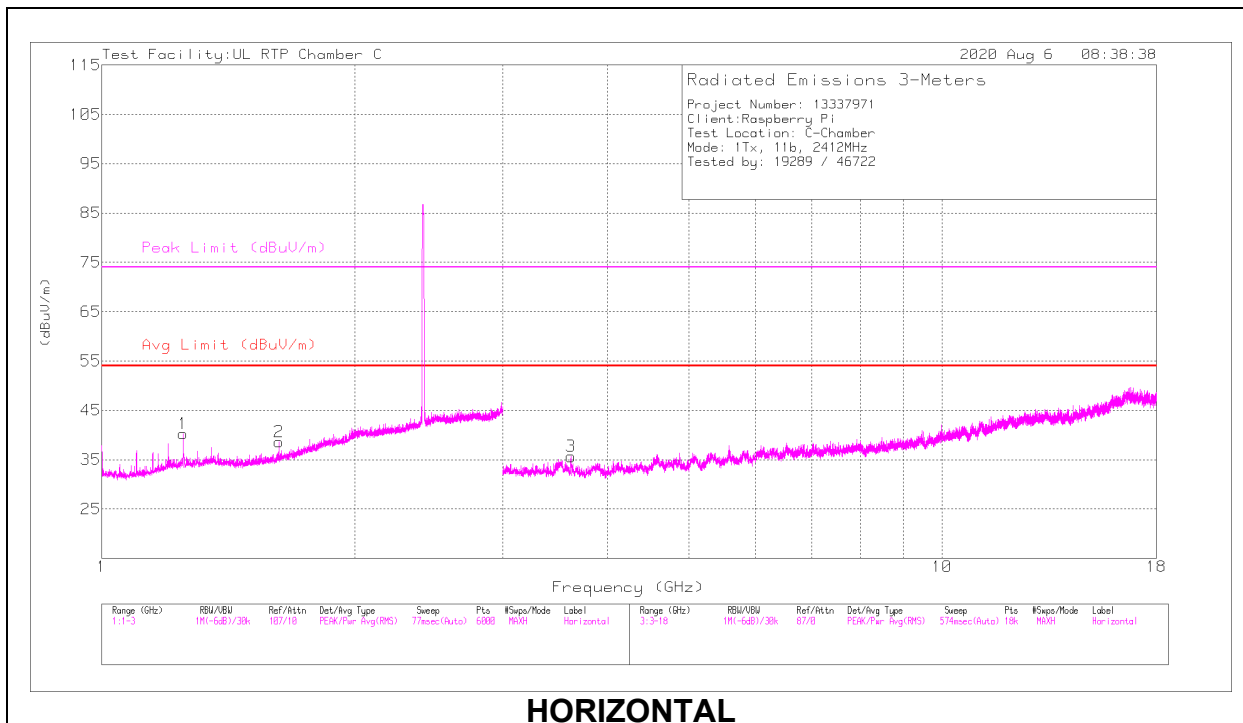
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24986	38.02	PK2	28.6	-21.5	45.12	-	-	74	-28.88	9	103	H
	* 1.25002	30.52	ADV	28.6	-21.5	37.62	54	-16.38	-	-	9	103	H
2	*** 1.62521	37.45	PK2	28.5	-20.7	45.25	-	-	74	-28.75	210	105	H
	*** 1.62502	27.42	ADV	28.5	-20.7	35.22	54	-18.78	-	-	210	105	H
4	*** 1.16695	37.13	PK2	27.7	-21.6	43.23	-	-	74	-30.77	335	193	V
	*** 1.16668	28.74	ADV	27.7	-21.6	34.84	54	-19.16	-	-	335	193	V
5	* 1.25009	37.56	PK2	28.6	-21.5	44.66	-	-	74	-29.34	353	205	V
	* 1.25003	28.61	ADV	28.6	-21.5	35.71	54	-18.29	-	-	353	205	V
3	*** 3.61895	58.55	PK2	33.1	-50	41.65	-	-	74	-32.35	3	102	H
	*** 3.61968	46.66	ADV	33.1	-50	29.76	54	-24.24	-	-	3	102	H
6	*** 3.61594	60.71	PK2	33.1	-49.9	43.91	-	-	74	-30.09	360	102	V
	*** 3.61623	52.04	ADV	33.1	-49.9	35.24	54	-18.76	-	-	360	102	V

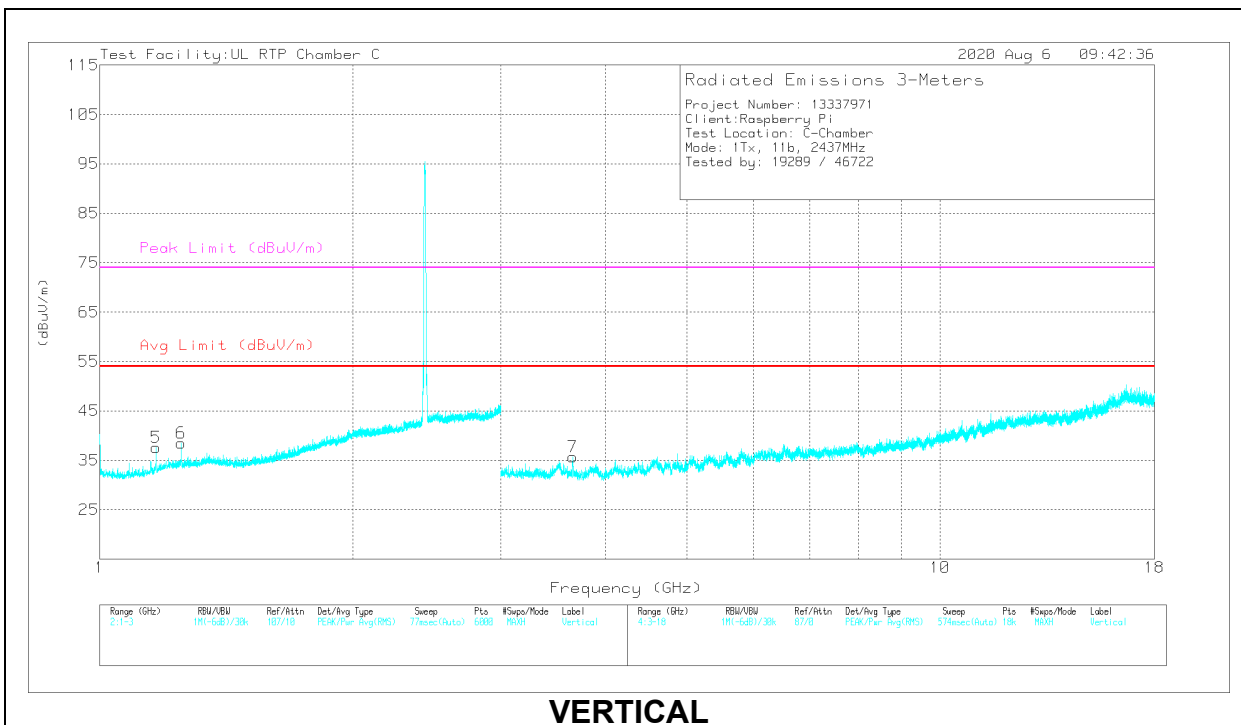
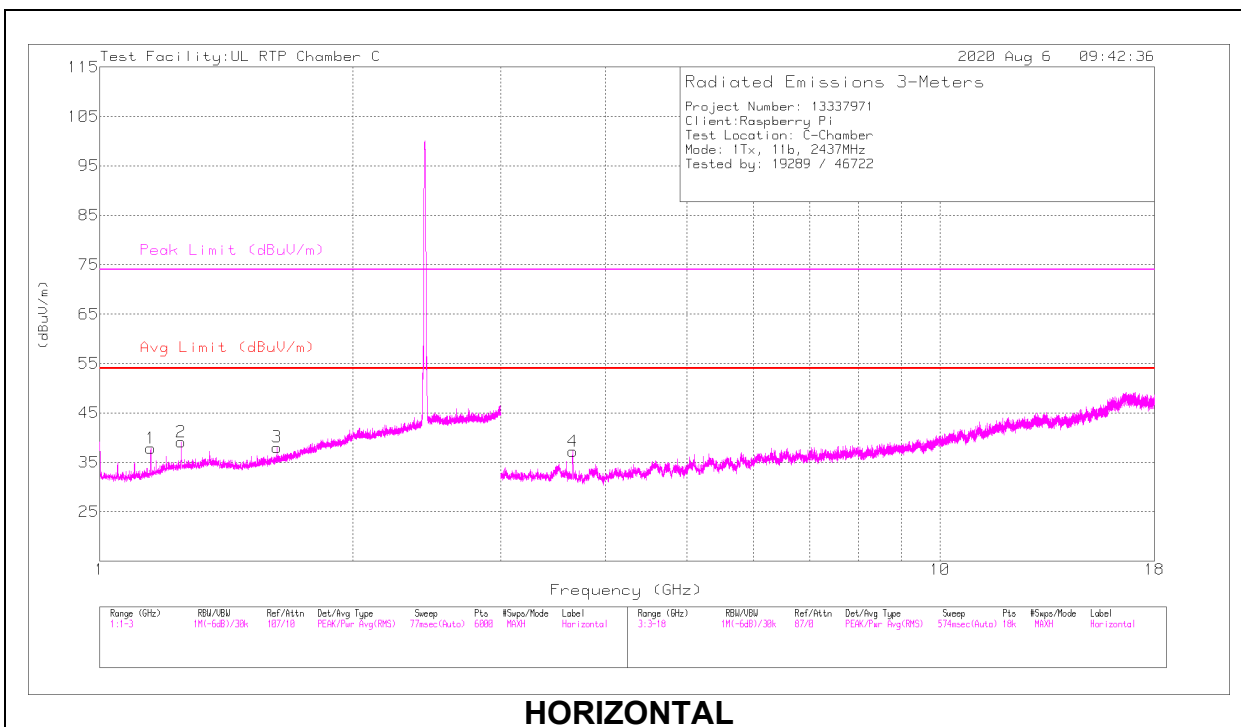
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.14998	37.64	PK2	27.4	-21.7	43.34	-	-	74	-30.66	181	107	H
	*** 1.15004	29.93	ADV	27.4	-21.7	35.63	54	-18.37	-	-	181	107	H
2	* 1.25003	37.14	PK2	28.6	-21.5	44.24	-	-	74	-29.76	13	102	H
	* 1.24998	28.65	ADV	28.6	-21.5	35.75	54	-18.25	-	-	13	102	H
3	*** 1.62527	37.67	PK2	28.5	-20.7	45.47	-	-	74	-28.53	61	102	H
	*** 1.62503	26.61	ADV	28.5	-20.7	34.41	54	-19.59	-	-	61	102	H
5	*** 1.16679	37.24	PK2	27.7	-21.6	43.34	-	-	74	-30.66	332	193	V
	*** 1.16671	28.92	ADV	27.7	-21.6	35.02	54	-18.98	-	-	332	193	V
6	* 1.25015	37.88	PK2	28.6	-21.5	44.98	-	-	74	-29.02	189	252	V
	* 1.25001	29.4	ADV	28.6	-21.5	36.5	54	-17.5	-	-	189	252	V
4	*** 3.65495	59.96	PK2	33.1	-49.8	43.26	-	-	74	-30.74	84	266	H
	*** 3.65467	50.68	ADV	33.1	-49.8	33.98	54	-20.02	-	-	84	266	H
7	*** 3.65604	59.29	PK2	33.1	-49.8	42.59	-	-	74	-31.41	355	395	V
	*** 3.65633	47.81	ADV	33.1	-49.8	31.11	54	-22.89	-	-	355	395	V

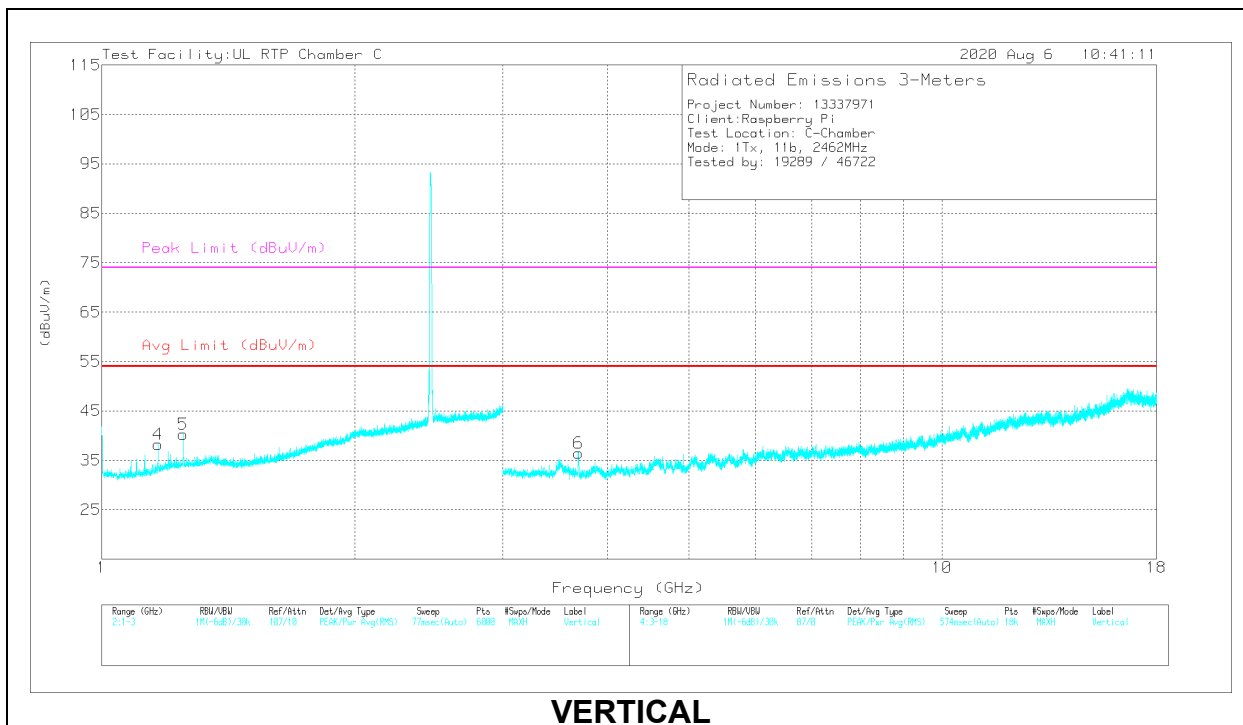
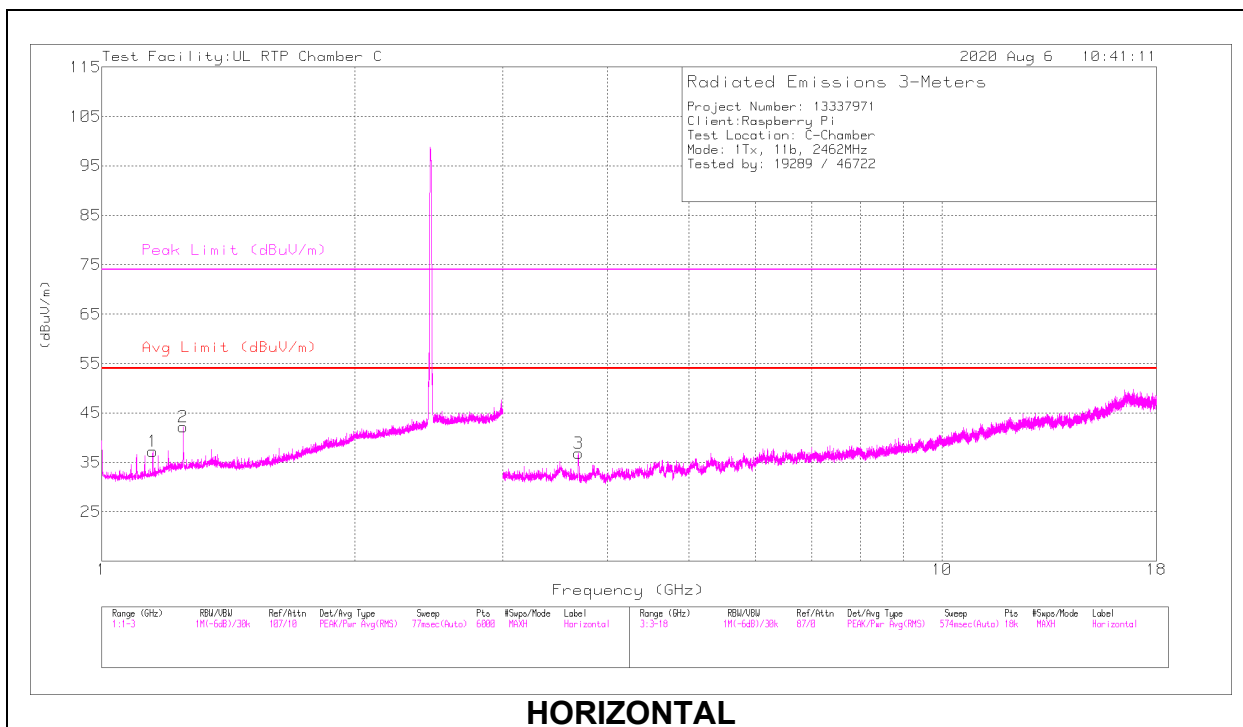
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.14976	36.84	PK2	27.4	-21.7	42.54	-	-	74	-31.46	184	102	H
	* ** 1.15004	26.8	ADV	27.4	-21.7	32.5	54	-21.5	-	-	184	102	H
2	* 1.25022	40.19	PK2	28.6	-21.5	47.29	-	-	74	-26.71	174	143	H
	* 1.25006	34.14	ADV	28.6	-21.5	41.24	54	-12.76	-	-	174	143	H
4	* ** 1.16692	37.55	PK2	27.7	-21.6	43.65	-	-	74	-30.35	266	213	V
	* ** 1.16669	29.37	ADV	27.7	-21.6	35.47	54	-18.53	-	-	266	213	V
5	* 1.2502	38.24	PK2	28.6	-21.5	45.34	-	-	74	-28.66	64	247	V
	* 1.25	28.38	ADV	28.6	-21.5	35.48	54	-18.52	-	-	64	247	V
3	* ** 3.69132	58.43	PK2	33.2	-49.7	41.93	-	-	74	-32.07	310	102	H
	* ** 3.69175	47.56	ADV	33.2	-49.7	31.06	54	-22.94	-	-	310	102	H
6	* ** 3.6918	57.87	PK2	33.2	-49.7	41.37	-	-	74	-32.63	210	102	V
	* ** 3.69208	46.32	ADV	33.2	-49.7	29.82	54	-24.18	-	-	210	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

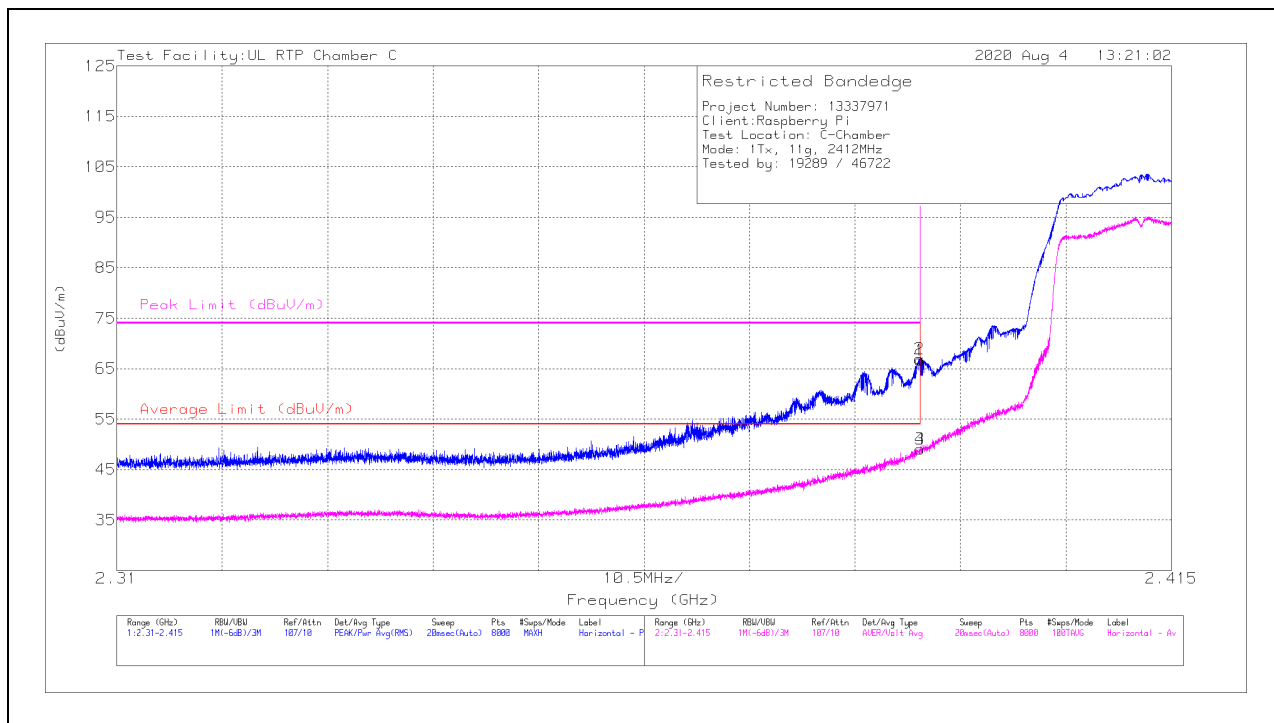
ADV - Linear Voltage Average

9.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	53.91	Pk	32.1	-19.3	66.71	-	-	74	-7.29	49	128	H
2	** * 2.38993	54.1	Pk	32.1	-19.3	66.9	-	-	74	-7.1	49	128	H
3	* ** 2.39	36.27	ADV	32.1	-19.3	49.07	54	-4.93	-	-	49	128	H
4	* ** 2.38998	36.21	ADV	32.1	-19.3	49.01	54	-4.99	-	-	49	128	H

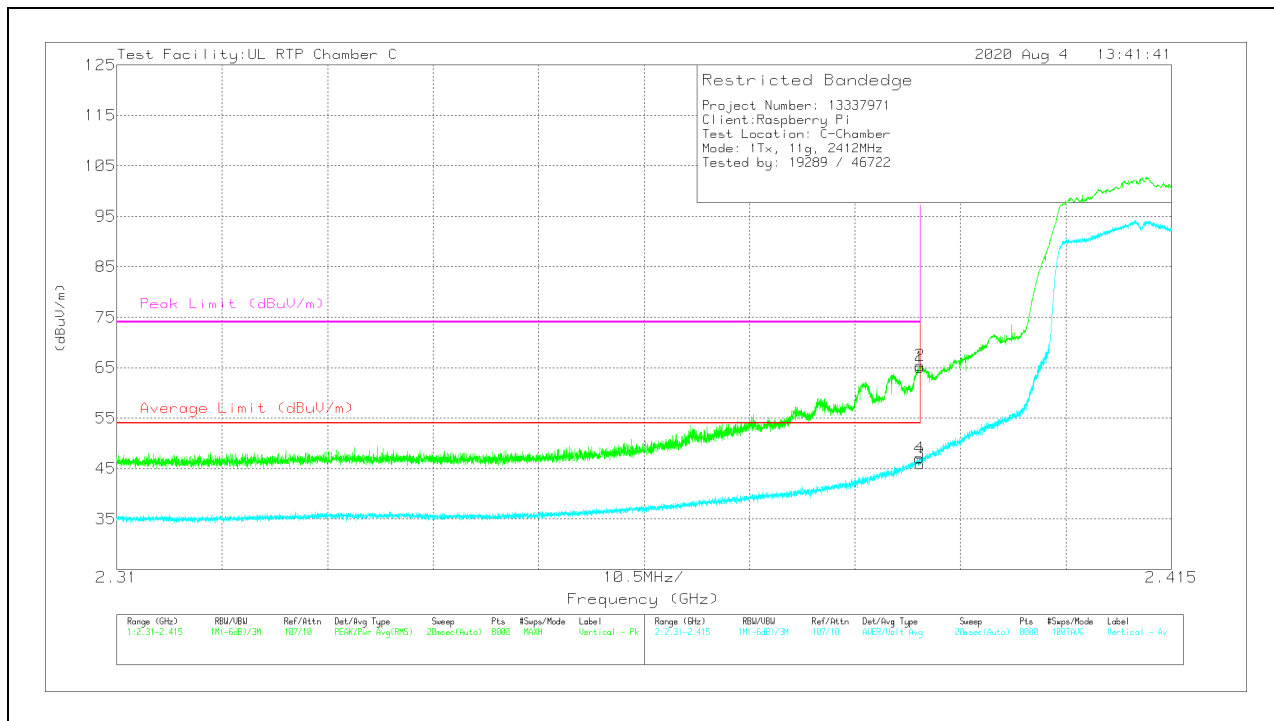
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

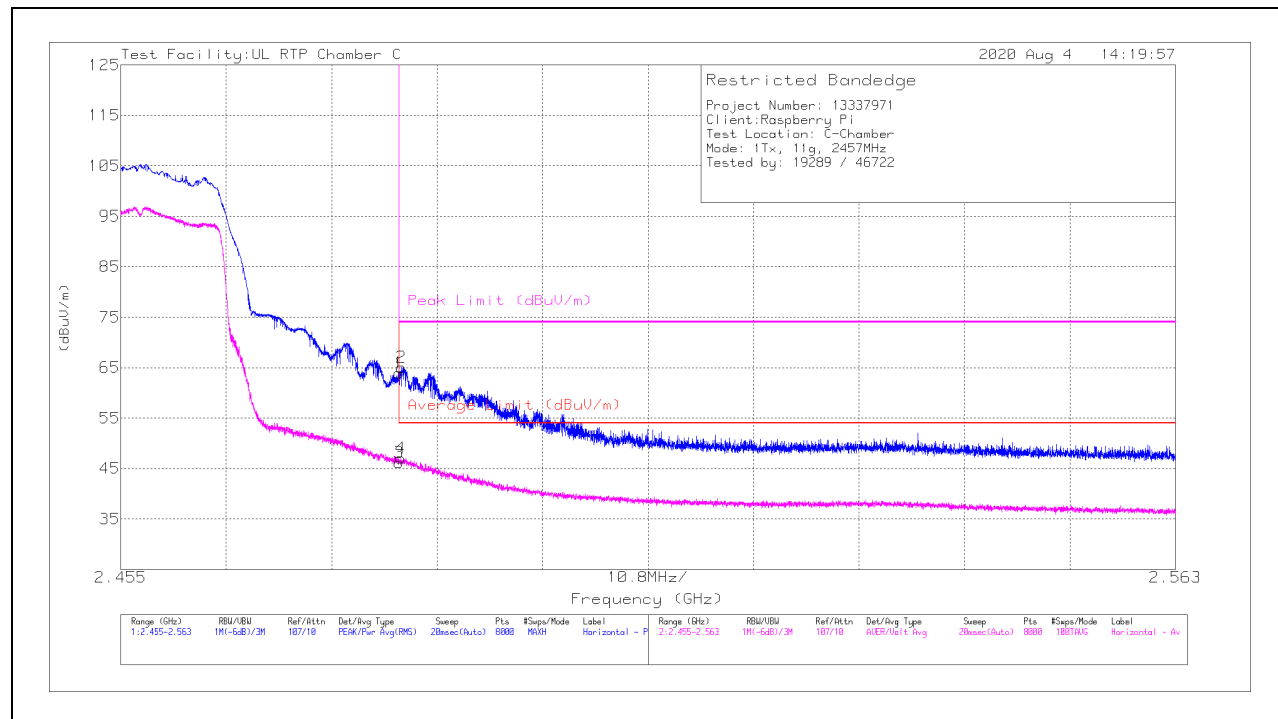


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.39	52.27	Pk	32.1	-19.3	65.07	-	-	74	-8.93	222	119	V
2	* ** 2.38996	52.67	Pk	32.1	-19.3	65.47	-	-	74	-8.53	222	119	V
3	* ** 2.39	33.21	ADV	32.1	-19.3	46.01	54	-7.99	-	-	222	119	V
4	* ** 2.38994	34.27	ADV	32.1	-19.3	47.07	54	-6.93	-	-	222	119	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, CH 10)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	50.52	Pk	32.6	-19.2	63.92	-	-	74	-10.08	126	122	H
2	*** 2.48373	51.65	Pk	32.6	-19.2	65.05	-	-	74	-8.95	126	122	H
3	*** 2.4835	32.77	ADV	32.6	-19.2	46.17	54	-7.83	-	-	126	122	H
4	*** 2.48365	33.63	ADV	32.6	-19.2	47.03	54	-6.97	-	-	126	122	H

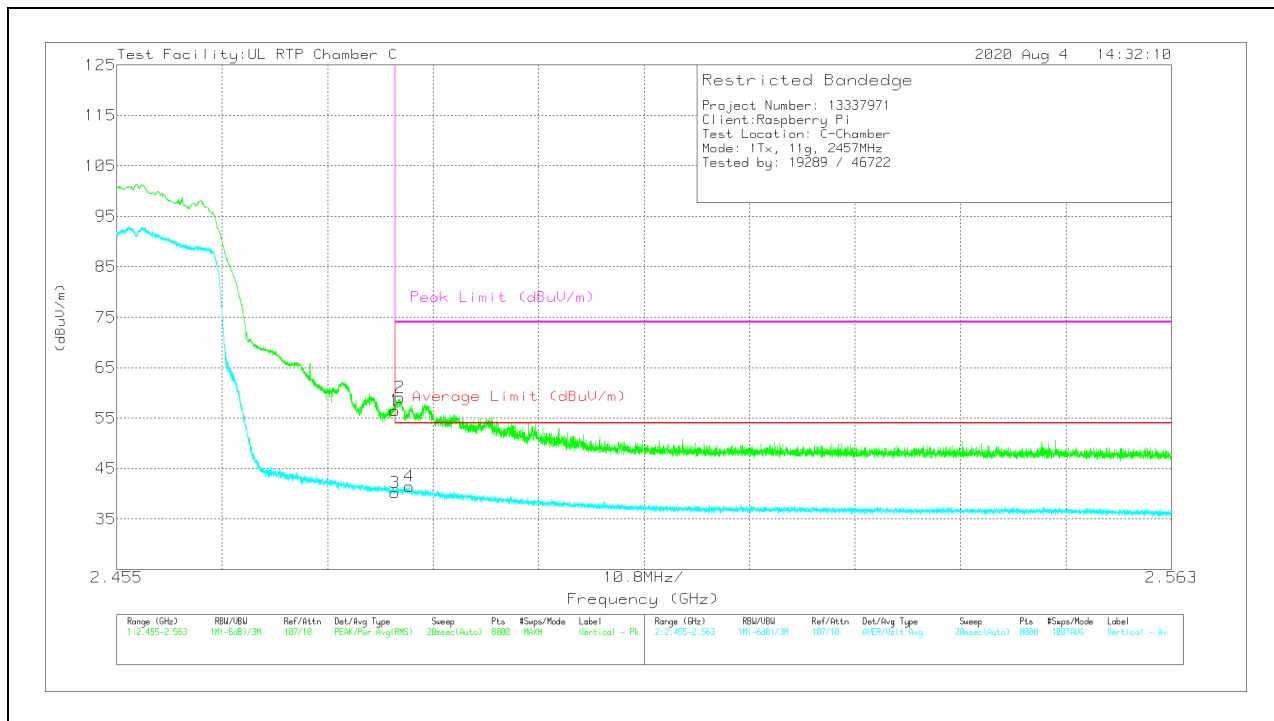
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	43.05	Pk	32.6	-19.2	56.45	-	-	74	-17.55	213	103	V
2	*** 2.48403	45.66	Pk	32.6	-19.2	59.06	-	-	74	-14.94	213	103	V
3	*** 2.4835	26.81	ADV	32.6	-19.2	40.21	54	-13.79	-	-	213	103	V
4	*** 2.48493	28.02	ADV	32.6	-19.2	41.42	54	-12.58	-	-	213	103	V

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

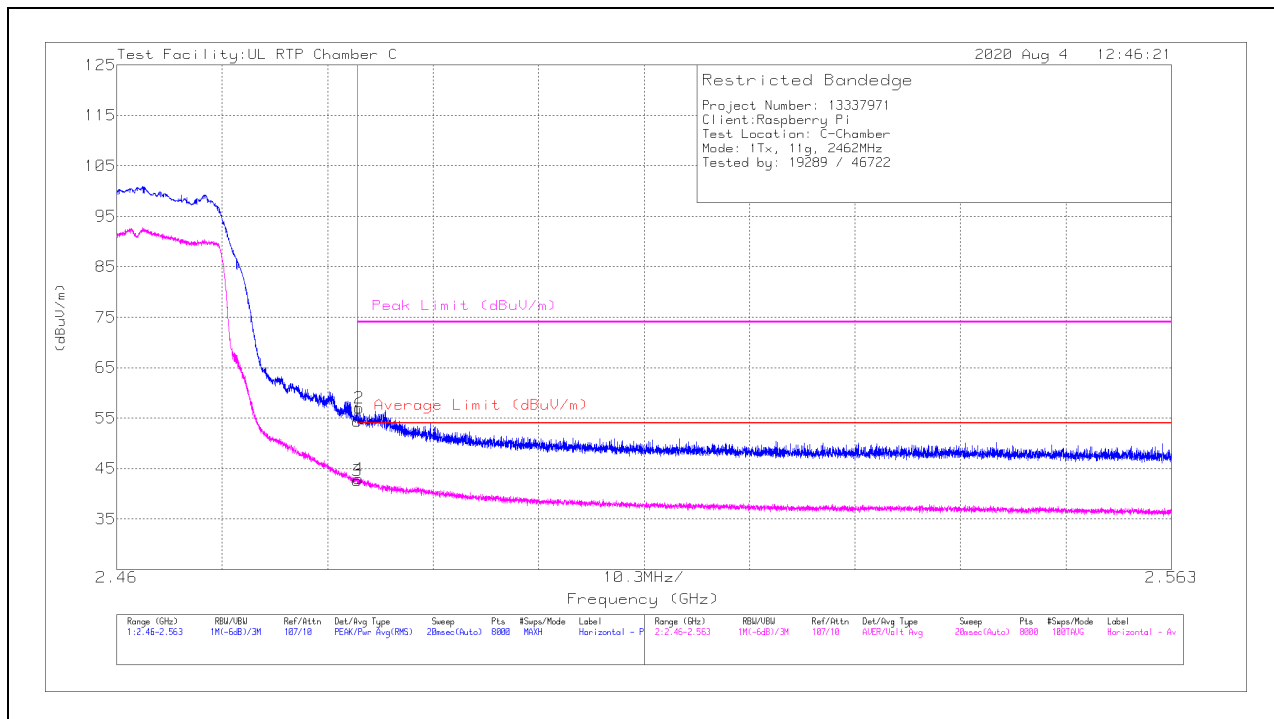
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	40.97	Pk	32.6	-19.2	54.37	-	-	74	-19.63	140	122	H
2	* ** 2.48369	43.59	Pk	32.6	-19.2	56.99	-	-	74	-17.01	140	122	H
3	* ** 2.4835	29.22	ADV	32.6	-19.2	42.62	54	-11.38	-	-	140	122	H
4	* ** 2.4836	29.58	ADV	32.6	-19.2	42.98	54	-11.02	-	-	140	122	H

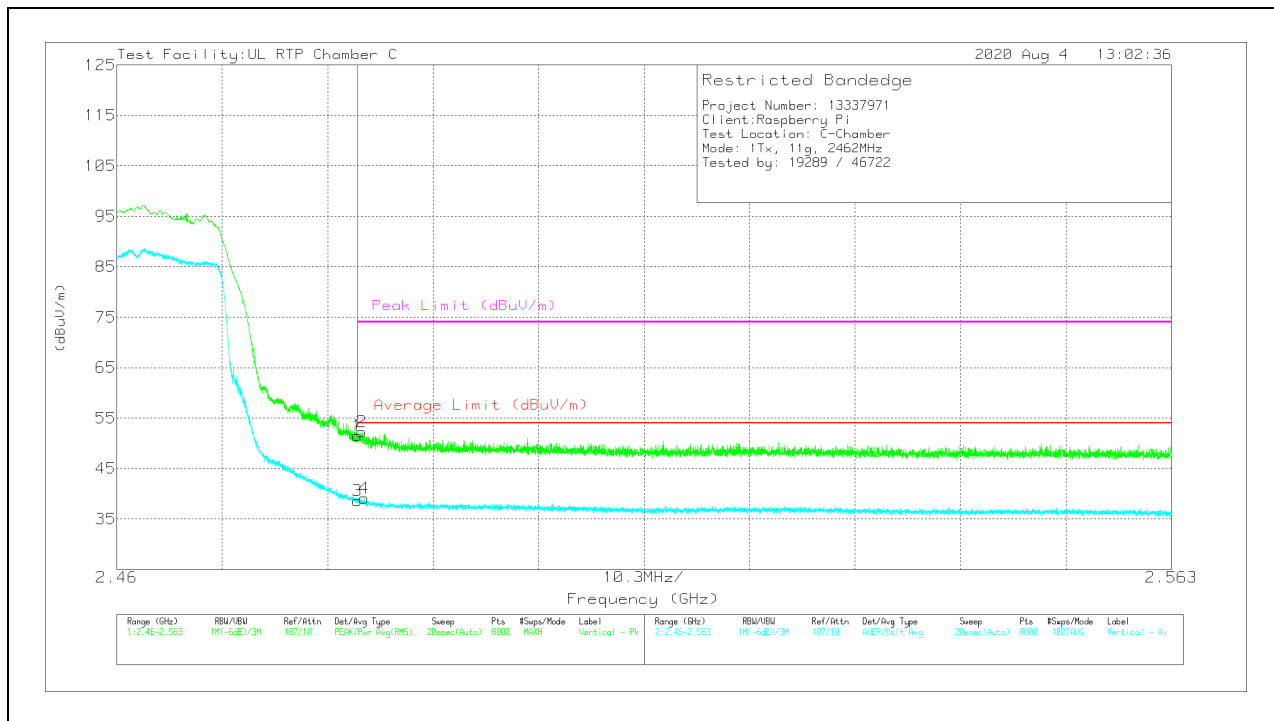
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	38.17	Pk	32.6	-19.2	51.57	-	-	74	-22.43	100	123	V
2	*** 2.48395	38.91	Pk	32.6	-19.2	52.31	-	-	74	-21.69	100	123	V
3	*** 2.4835	25.26	ADV	32.6	-19.2	38.66	54	-15.34	-	-	100	123	V
4	*** 2.48416	25.72	ADV	32.6	-19.2	39.12	54	-14.88	-	-	100	123	V

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

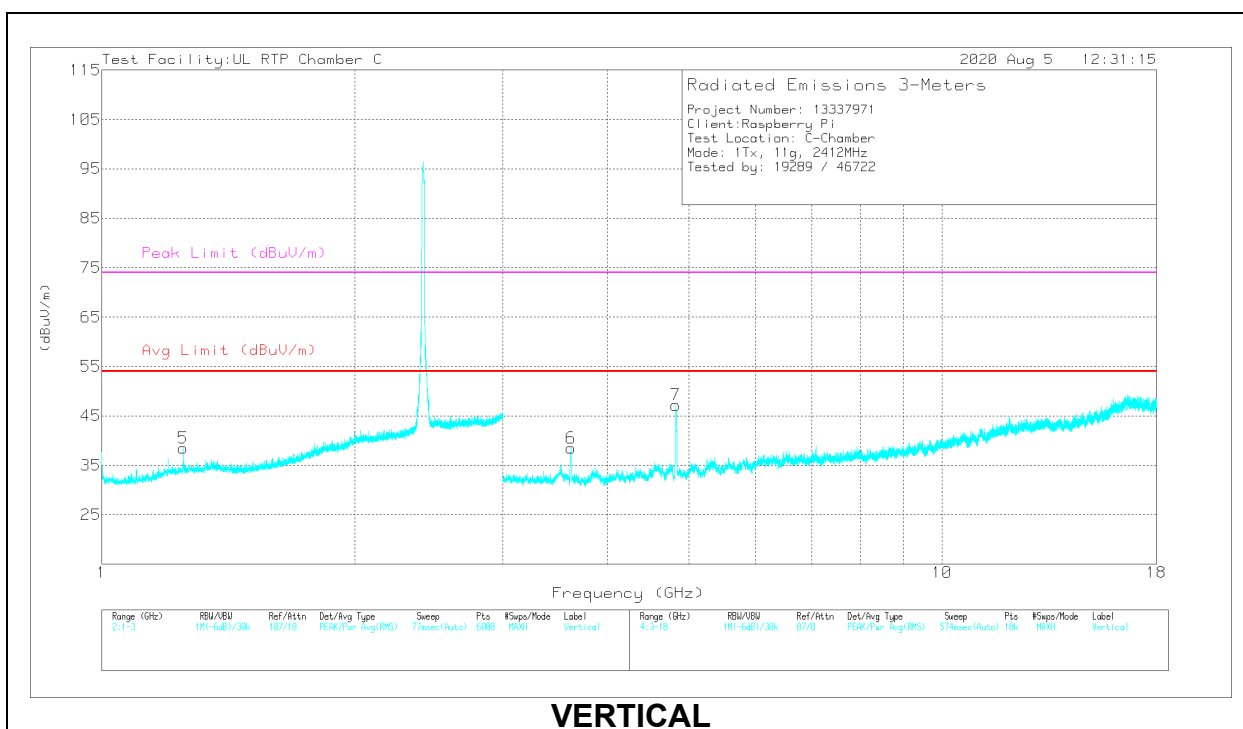
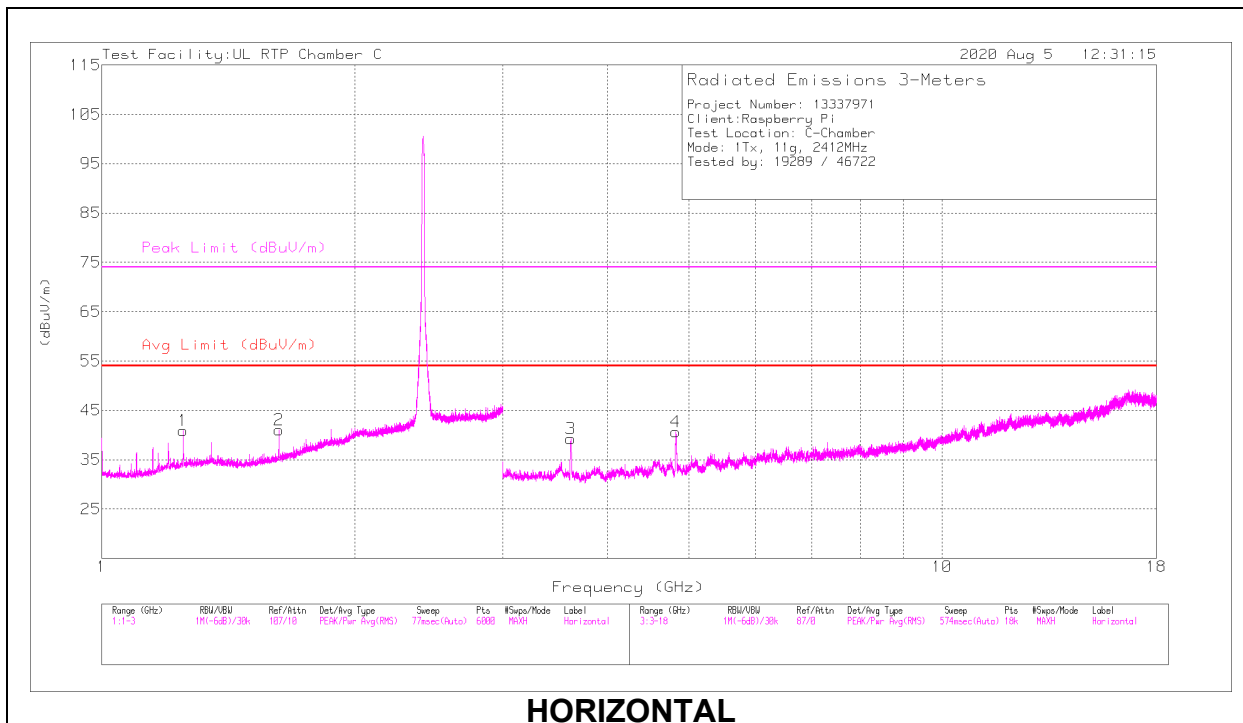
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24983	38.48	PK2	28.6	-21.5	45.58	-	-	74	-28.42	170	102	H
	* 1.25001	31.45	ADV	28.6	-21.5	38.55	54	-15.45	-	-	170	102	H
2	* ** 1.62514	38.51	PK2	28.5	-20.7	46.31	-	-	74	-27.69	217	102	H
	* ** 1.62503	30.11	ADV	28.5	-20.7	37.91	54	-16.09	-	-	217	102	H
5	* 1.24996	37.89	PK2	28.6	-21.5	44.99	-	-	74	-29.01	244	102	V
	* 1.25002	30.15	ADV	28.6	-21.5	37.25	54	-16.75	-	-	244	102	V
3	* ** 3.61706	62.42	PK2	33.1	-49.9	45.62	-	-	74	-28.38	79	102	H
	* ** 3.6158	51.33	ADV	33.1	-49.9	34.53	54	-19.47	-	-	79	102	H
4	* ** 4.82305	64.21	PK2	34.1	-49.6	48.71	-	-	74	-25.29	122	102	H
	* ** 4.82321	49.85	ADV	34.1	-49.6	34.35	54	-19.65	-	-	122	102	H
6	* ** 3.61861	62.56	PK2	33.1	-50	45.66	-	-	74	-28.34	184	102	V
	* ** 3.61851	51.49	ADV	33.1	-49.9	34.69	54	-19.31	-	-	184	102	V
7	* ** 4.82352	69.86	PK2	34.1	-49.6	54.36	-	-	74	-19.64	188	102	V
	* ** 4.82365	56.73	ADV	34.1	-49.6	41.23	54	-12.77	-	-	188	102	V

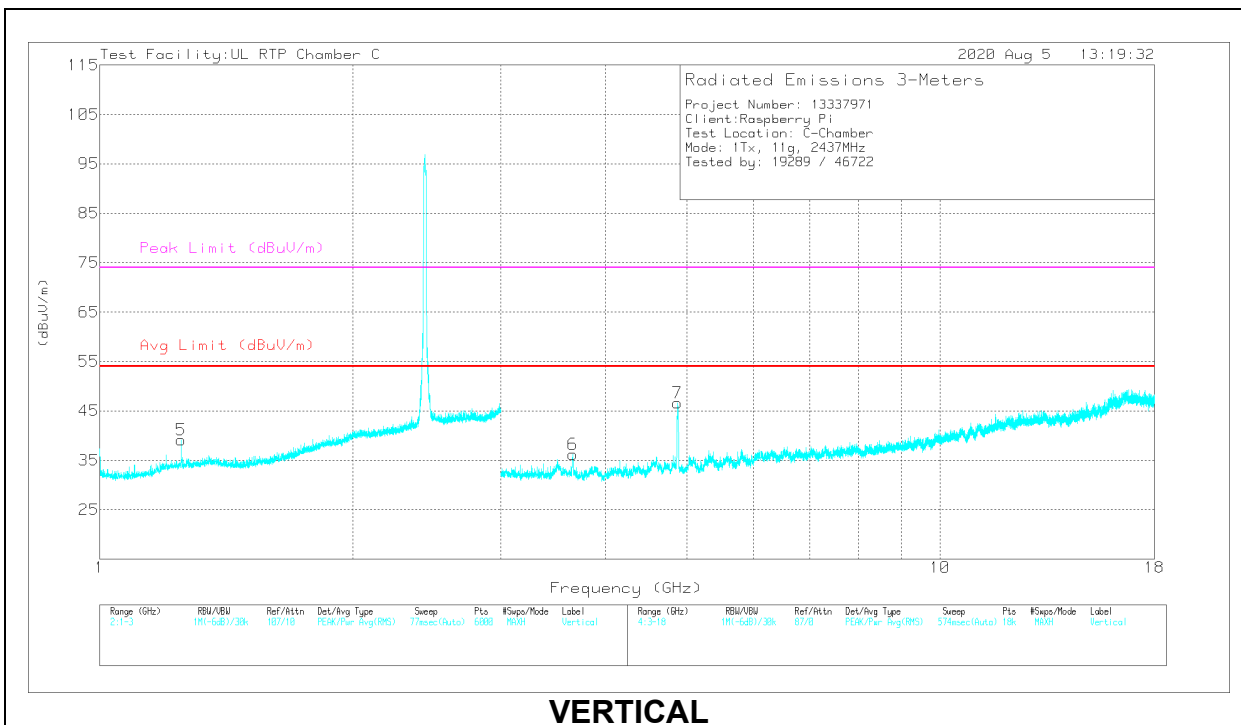
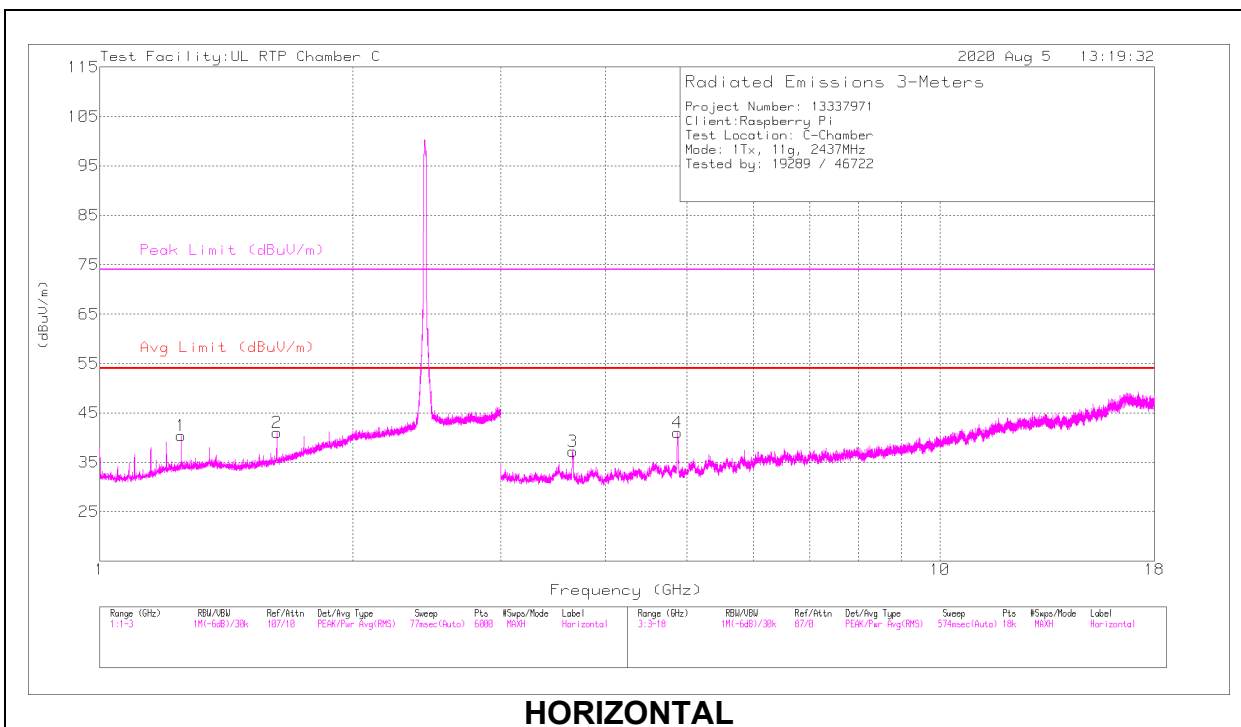
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24995	38.61	PK2	28.6	-21.5	45.71	-	-	74	-28.29	172	102	H
	* 1.25002	31.7	ADV	28.6	-21.5	38.8	54	-15.2	-	-	172	102	H
2	*** 1.6251	38.4	PK2	28.5	-20.7	46.2	-	-	74	-27.8	220	102	H
	*** 1.62502	29.71	ADV	28.5	-20.7	37.51	54	-16.49	-	-	220	102	H
5	* 1.25027	37.8	PK2	28.6	-21.5	44.9	-	-	74	-29.1	304	102	V
	* 1.24999	29.62	ADV	28.6	-21.5	36.72	54	-17.28	-	-	304	102	V
3	*** 3.65619	60.77	PK2	33.1	-49.8	44.07	-	-	74	-29.93	69	102	H
	*** 3.65603	49.13	ADV	33.1	-49.8	32.43	54	-21.57	-	-	69	102	H
4	*** 4.87427	63.57	PK2	34	-48.9	48.67	-	-	74	-25.33	121	102	H
	*** 4.8739	50.74	ADV	34	-48.9	35.84	54	-18.16	-	-	121	102	H
6	*** 3.65631	59.55	PK2	33.1	-49.8	42.85	-	-	74	-31.15	188	102	V
	*** 3.65601	47.77	ADV	33.1	-49.8	31.07	54	-22.93	-	-	188	102	V
7	*** 4.87083	67.31	PK2	34	-48.9	52.41	-	-	74	-21.59	174	102	V
	*** 4.87013	54.12	ADV	34	-48.8	39.32	54	-14.68	-	-	174	102	V

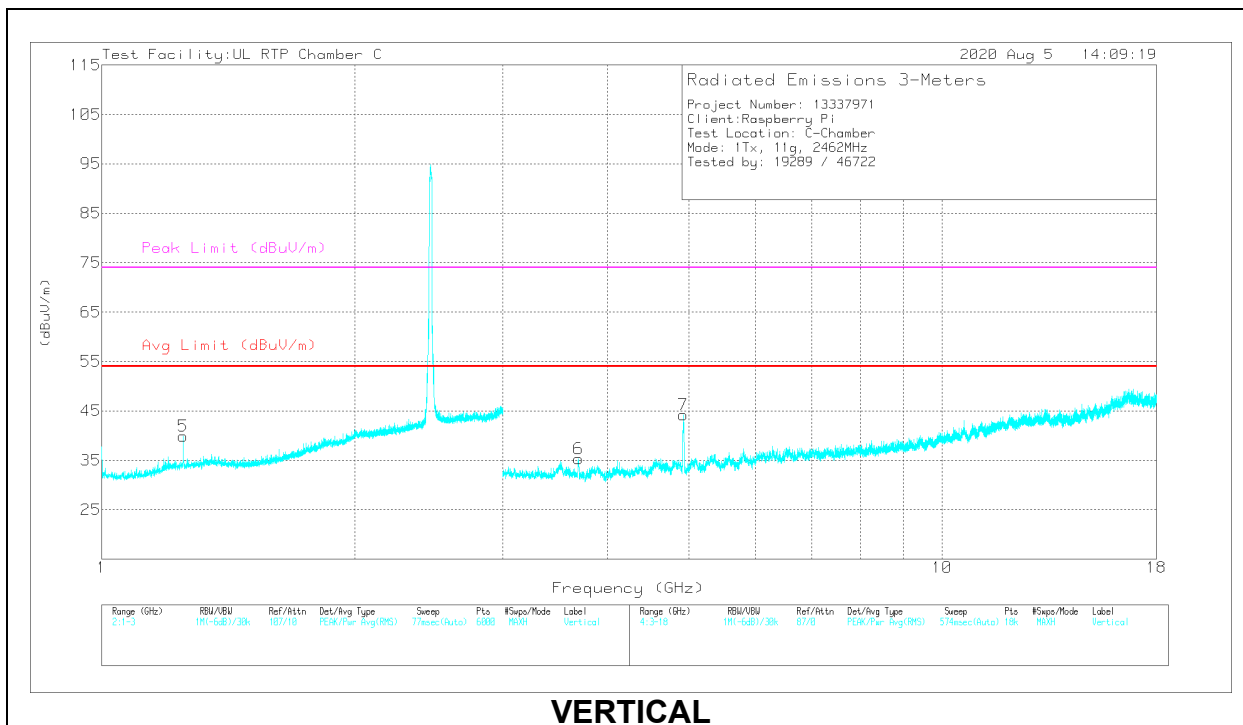
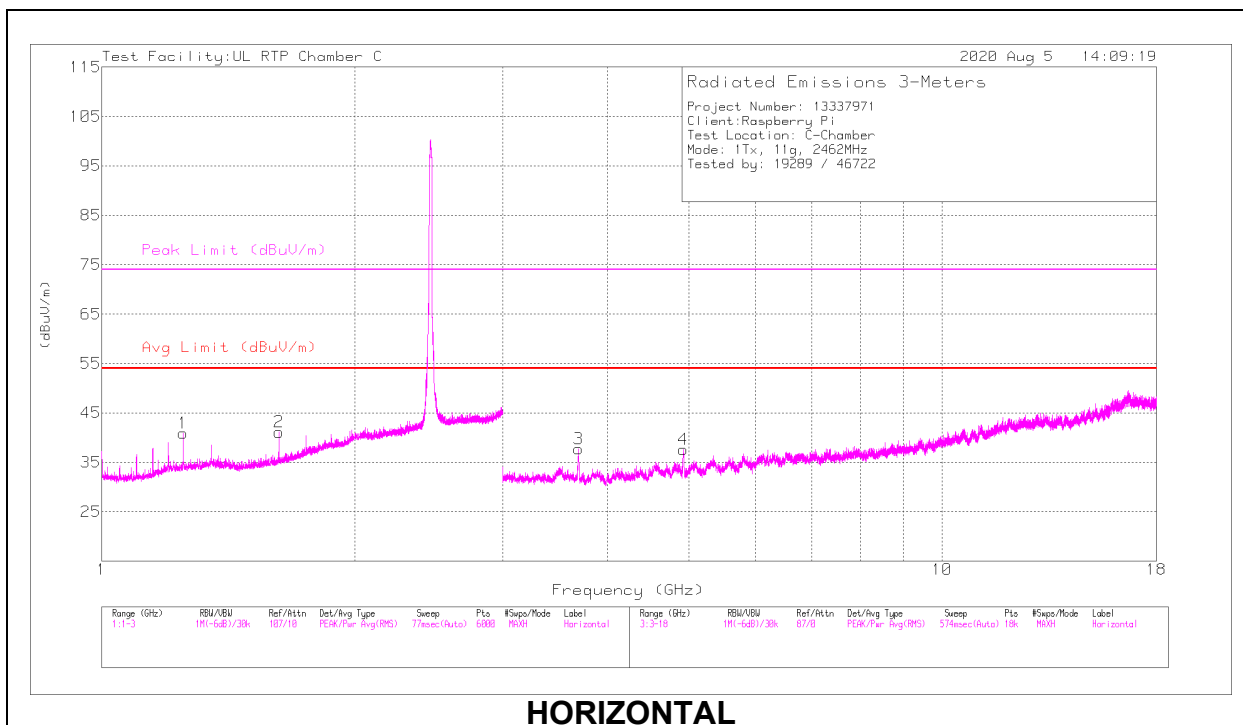
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24998	38.51	PK2	28.6	-21.5	45.61	-	-	74	-28.39	176	102	H
	* 1.25004	31.71	ADV	28.6	-21.5	38.81	54	-15.19	-	-	176	102	H
2	* ** 1.62511	38.55	PK2	28.5	-20.7	46.35	-	-	74	-27.65	221	102	H
	* ** 1.62503	29.68	ADV	28.5	-20.7	37.48	54	-16.52	-	-	221	102	H
5	* 1.24999	37.39	PK2	28.6	-21.5	44.49	-	-	74	-29.51	313	104	V
	* 1.25001	28.36	ADV	28.6	-21.5	35.46	54	-18.54	-	-	313	104	V
3	* ** 3.69376	60.55	PK2	33.2	-49.6	44.15	-	-	74	-29.85	82	102	H
	* ** 3.69353	47.83	ADV	33.2	-49.6	31.43	54	-22.57	-	-	82	102	H
4	* ** 4.9234	60.96	PK2	34	-48.9	46.06	-	-	74	-27.94	114	102	H
	* ** 4.92401	47.58	ADV	34	-48.9	32.68	54	-21.32	-	-	114	102	H
6	* ** 3.69341	59.48	PK2	33.2	-49.6	43.08	-	-	74	-30.92	89	102	V
	* ** 3.69302	47.47	ADV	33.2	-49.6	31.07	54	-22.93	-	-	89	102	V
7	* ** 4.92345	64.34	PK2	34	-48.9	49.44	-	-	74	-24.56	183	102	V
	* ** 4.92395	51.81	ADV	34	-48.9	36.91	54	-17.09	-	-	183	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

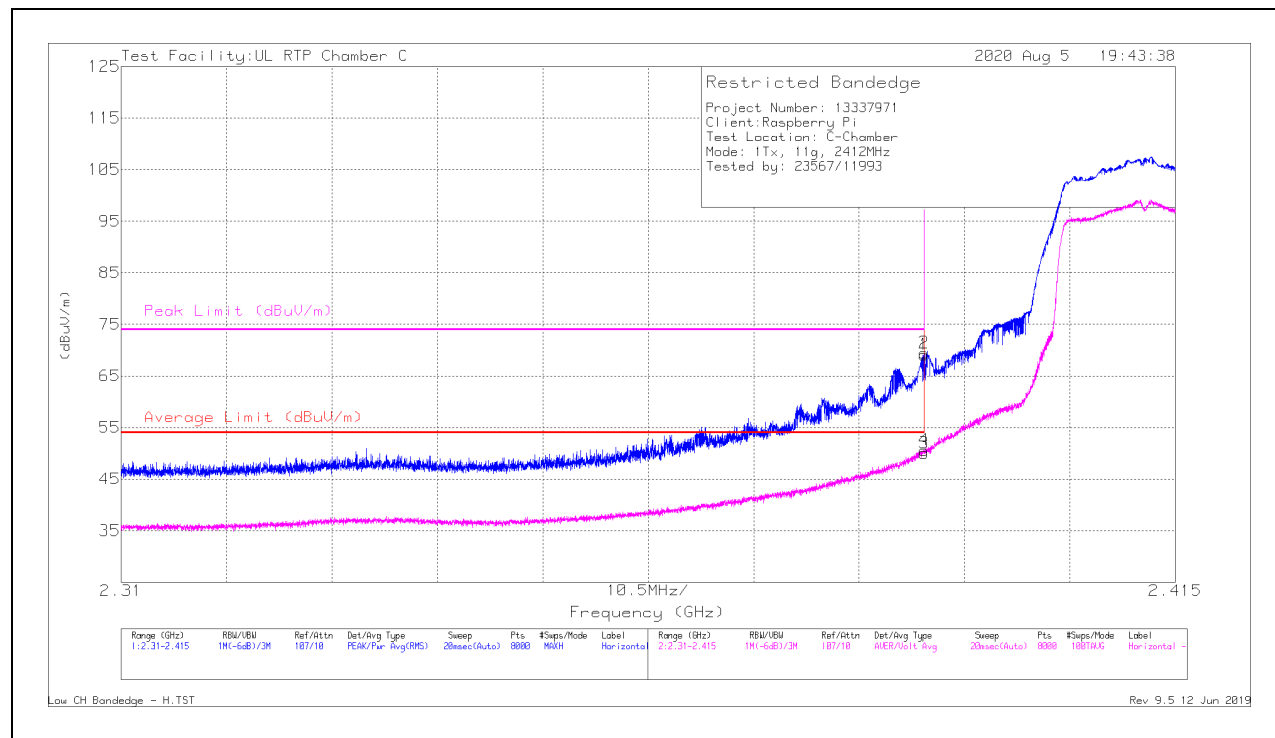
PK2 - Maximum Peak

ADV - Linear Voltage Average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	56.33	Pk	32.1	-19.3	69.13	-	-	74	-4.87	227	103	H
2	* ** 2.38997	56.66	Pk	32.1	-19.3	69.46	-	-	74	-4.54	227	103	H
3	* ** 2.39	37.24	ADV	32.1	-19.3	50.04	54	-3.96	-	-	227	103	H
4	* ** 2.38996	37.82	ADV	32.1	-19.3	50.62	54	-3.38	-	-	227	103	H

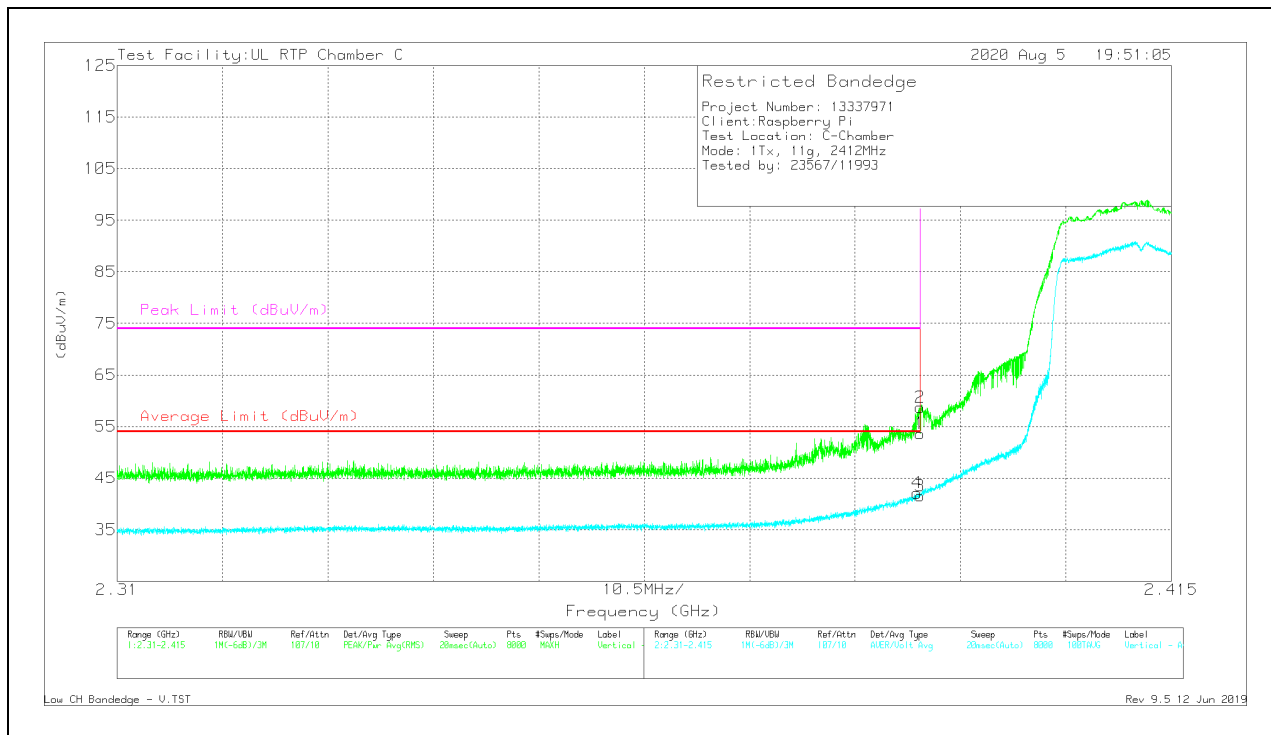
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	40.84	Pk	32.1	-19.3	53.64	-	-	74	-20.36	237	102	V
2	* ** 2.38997	45.91	Pk	32.1	-19.3	58.71	-	-	74	-15.29	237	102	V
3	* ** 2.39	28.73	ADV	32.1	-19.3	41.53	54	-12.47	-	-	237	102	V
4	* ** 2.38966	29.31	ADV	32.1	-19.3	42.11	54	-11.89	-	-	237	102	V

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

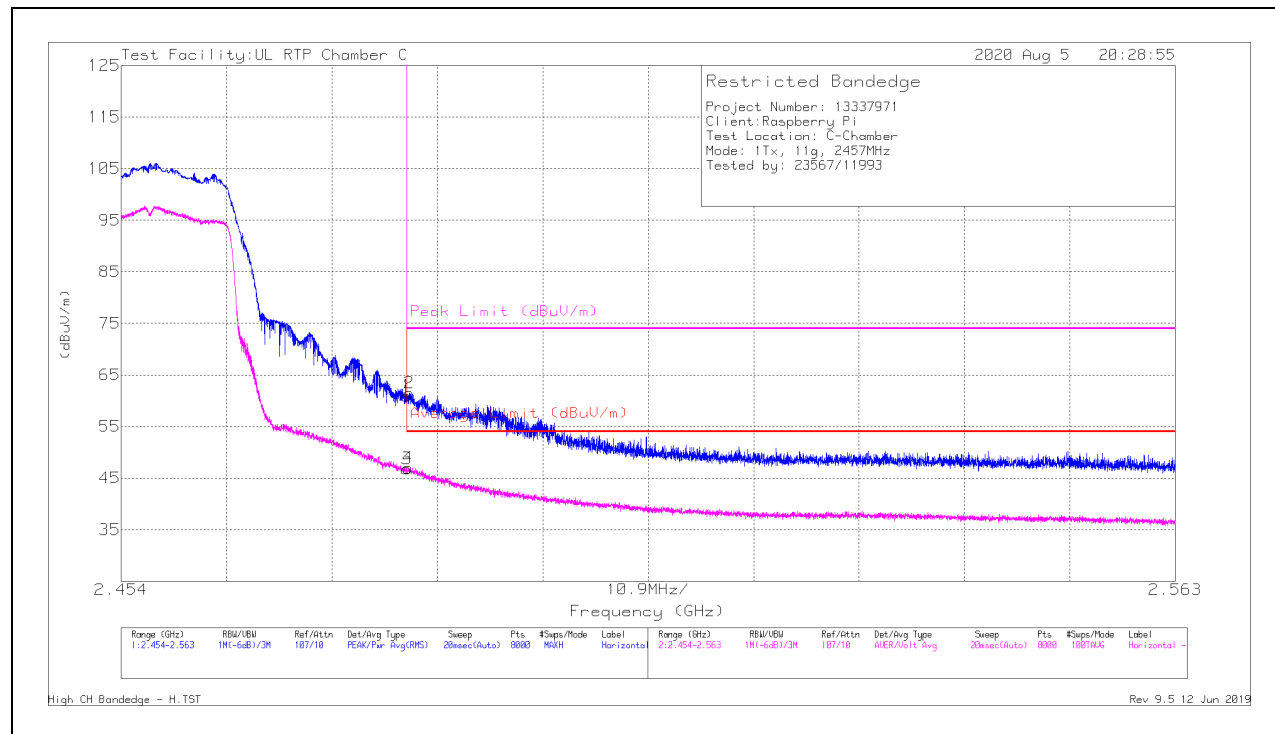
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	47.56	Pk	32.6	-19.2	60.96	-	-	74	-13.04	191	102	H
2	*** 2.4838	48.11	Pk	32.6	-19.2	61.51	-	-	74	-12.49	191	102	H
3	*** 2.4835	33.42	ADV	32.6	-19.2	46.82	54	-7.18	-	-	191	102	H
4	*** 2.48368	33.59	ADV	32.6	-19.2	46.99	54	-7.01	-	-	191	102	H

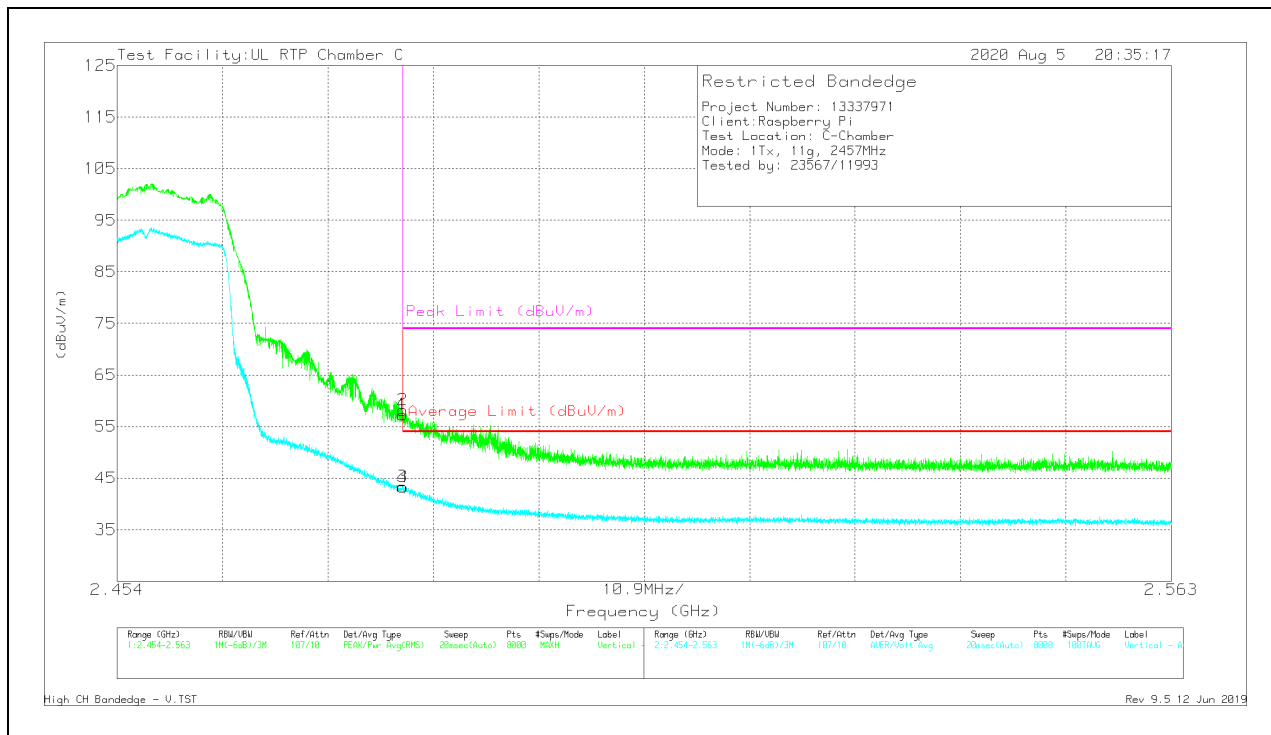
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	43.89	Pk	32.6	-19.2	57.29	-	-	74	-16.71	314	402	V
2	* ** 2.48354	44.79	Pk	32.6	-19.2	58.19	-	-	74	-15.81	314	402	V
3	* ** 2.4835	29.93	ADV	32.6	-19.2	43.33	54	-10.67	-	-	314	401	V
4	* ** 2.48356	29.83	ADV	32.6	-19.2	43.23	54	-10.77	-	-	314	401	V

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

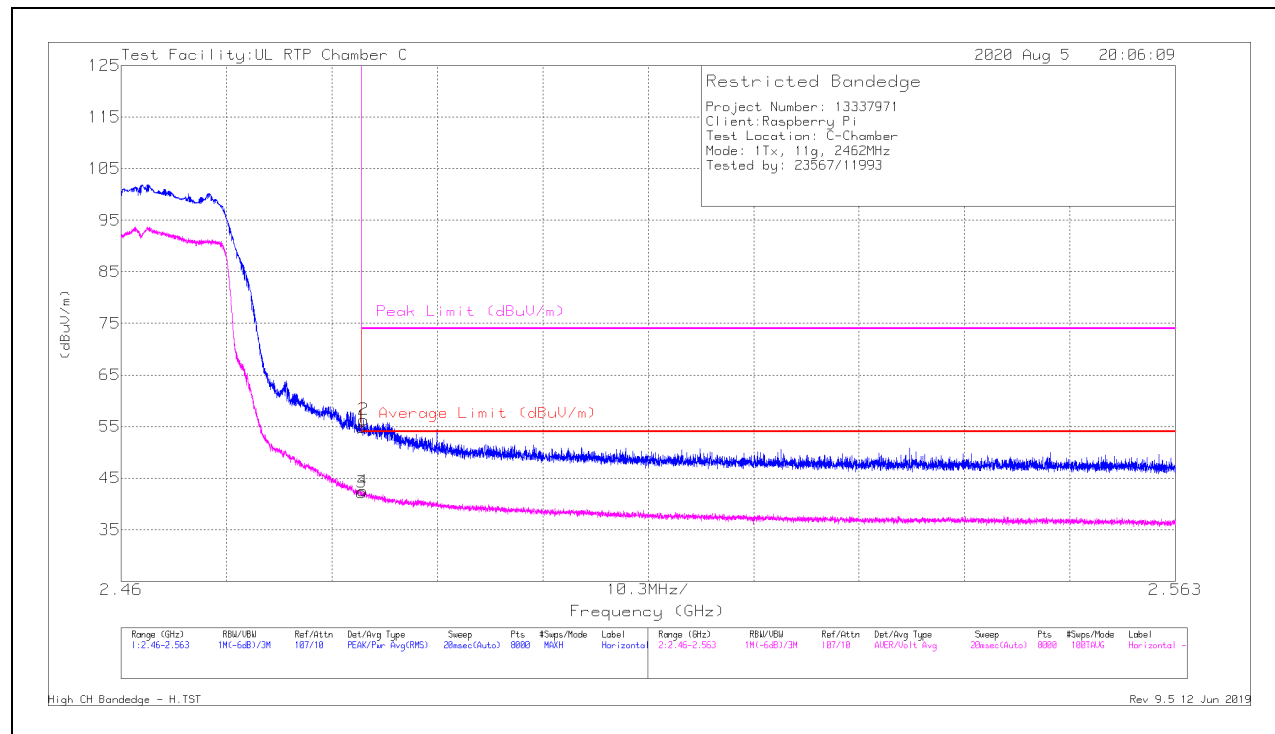
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	41.47	Pk	32.6	-19.2	54.87	-	-	74	-19.13	190	103	H
2	*** 2.48369	42.95	Pk	32.6	-19.2	56.35	-	-	74	-17.65	190	103	H
3	*** 2.4835	28.84	ADV	32.6	-19.2	42.24	54	-11.76	-	-	190	103	H
4	*** 2.48362	29.11	ADV	32.6	-19.2	42.51	54	-11.49	-	-	190	103	H

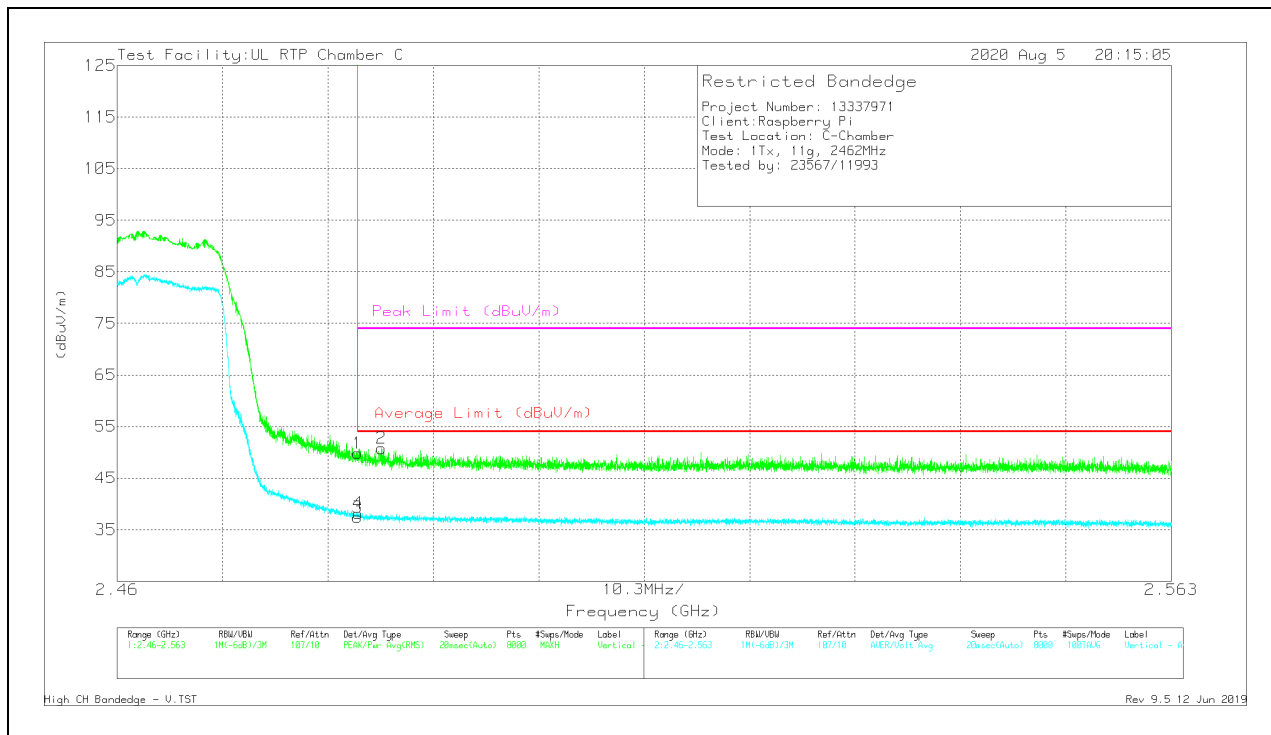
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	36.42	Pk	32.6	-19.2	49.82	-	-	74	-24.18	183	102	V
2	* ** 2.48582	37.37	Pk	32.6	-19.2	50.77	-	-	74	-23.23	183	102	V
3	* ** 2.4835	24	ADV	32.6	-19.2	37.4	54	-16.6	-	-	183	102	V
4	* ** 2.48353	24.76	ADV	32.6	-19.2	38.16	54	-15.84	-	-	183	102	V

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

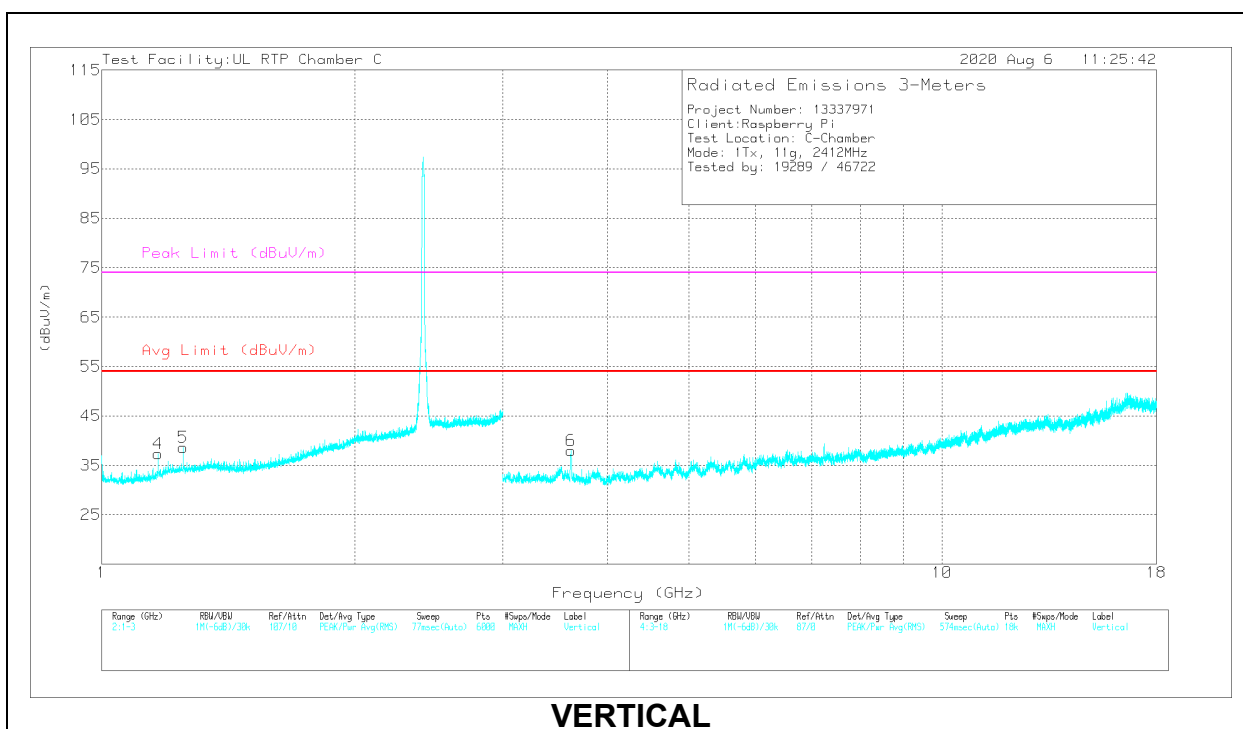
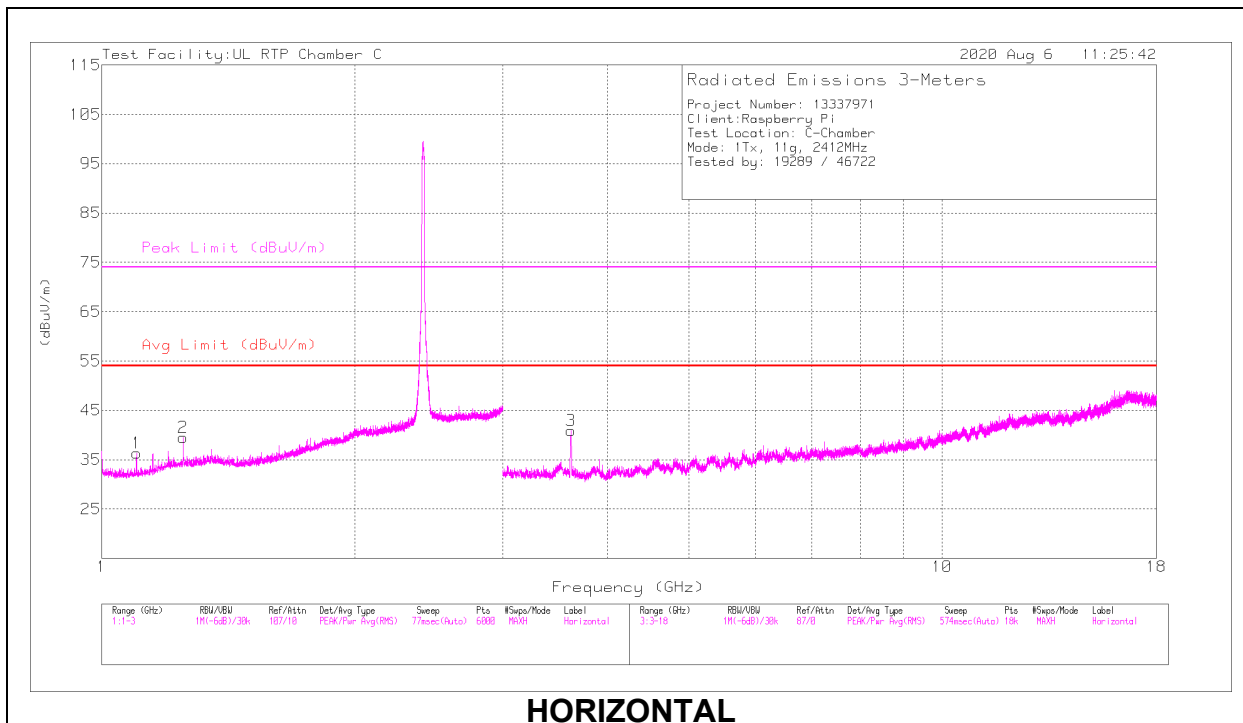
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.10029	36.65	PK2	27.3	-21.9	42.05	-	-	74	-31.95	165	102	H
	* ** 1.10002	27.24	ADV	27.3	-21.9	32.64	54	-21.36	-	-	165	102	H
2	* 1.25005	37.14	PK2	28.6	-21.5	44.24	-	-	74	-29.76	5	103	H
	* 1.25005	27.9	ADV	28.6	-21.5	35	54	-19	-	-	5	103	H
4	* ** 1.16657	36.53	PK2	27.7	-21.6	42.63	-	-	74	-31.37	340	260	V
	* ** 1.16666	26.11	ADV	27.7	-21.6	32.21	54	-21.79	-	-	340	260	V
5	* 1.25013	36.72	PK2	28.6	-21.5	43.82	-	-	74	-30.18	352	264	V
	* 1.25005	27.41	ADV	28.6	-21.5	34.51	54	-19.49	-	-	352	264	V
3	* ** 3.61905	63.5	PK2	33.1	-50	46.6	-	-	74	-27.4	85	284	H
	* ** 3.61841	52.53	ADV	33.1	-49.9	35.73	54	-18.27	-	-	85	284	H
6	* ** 3.61741	63.77	PK2	33.1	-49.9	46.97	-	-	74	-27.03	119	285	V
	* ** 3.61757	52.56	ADV	33.1	-49.9	35.76	54	-18.24	-	-	119	285	V

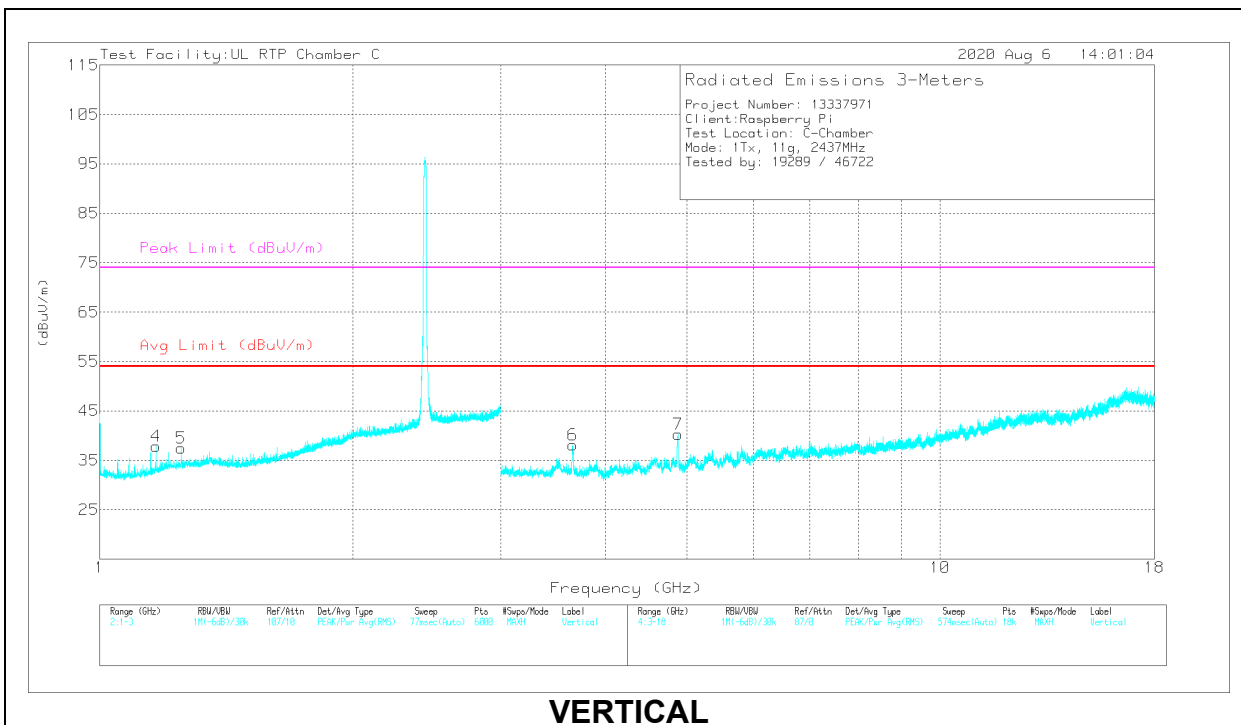
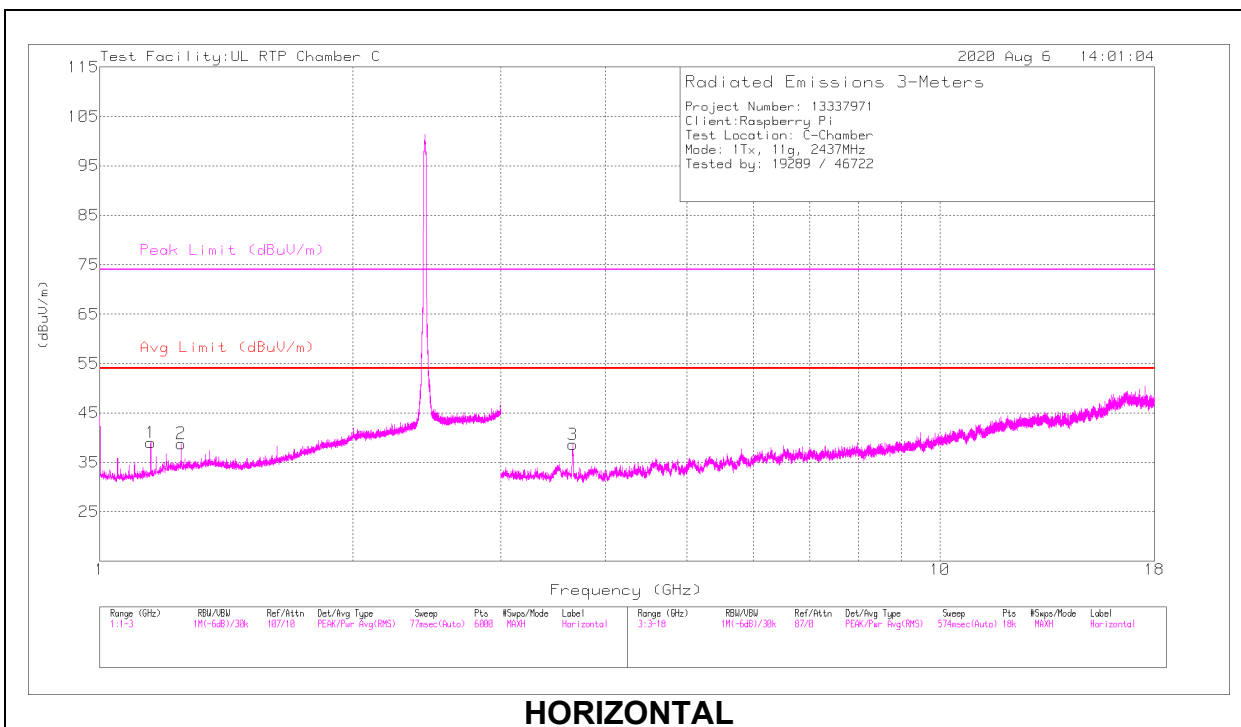
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.15001	38.41	PK2	27.4	-21.7	44.11	-	-	74	-29.89	180	202	H
	** 1.15	31.4	ADV	27.4	-21.7	37.1	54	-16.9	-	-	180	202	H
2	* 1.24995	37.7	PK2	28.6	-21.5	44.8	-	-	74	-29.2	4	279	H
	* 1.25005	28.96	ADV	28.6	-21.5	36.06	54	-17.94	-	-	4	279	H
4	*** 1.16658	37.97	PK2	27.7	-21.6	44.07	-	-	74	-29.93	273	257	V
	*** 1.16672	29.34	ADV	27.7	-21.6	35.44	54	-18.56	-	-	273	257	V
5	* 1.24978	36.57	PK2	28.6	-21.5	43.67	-	-	74	-30.33	191	227	V
	* 1.25008	26.92	ADV	28.6	-21.5	34.02	54	-19.98	-	-	191	227	V
3	*** 3.65642	62.81	PK2	33.1	-49.8	46.11	-	-	74	-27.89	86	102	H
	*** 3.6548	51.42	ADV	33.1	-49.8	34.72	54	-19.28	-	-	86	102	H
6	*** 3.65579	61.39	PK2	33.1	-49.8	44.69	-	-	74	-29.31	219	102	V
	*** 3.65592	49.93	ADV	33.1	-49.8	33.23	54	-20.77	-	-	219	102	V
7	*** 4.87404	62.94	PK2	34	-48.9	48.04	-	-	74	-25.96	212	257	V
	*** 4.87394	50.28	ADV	34	-48.9	35.38	54	-18.62	-	-	212	257	V

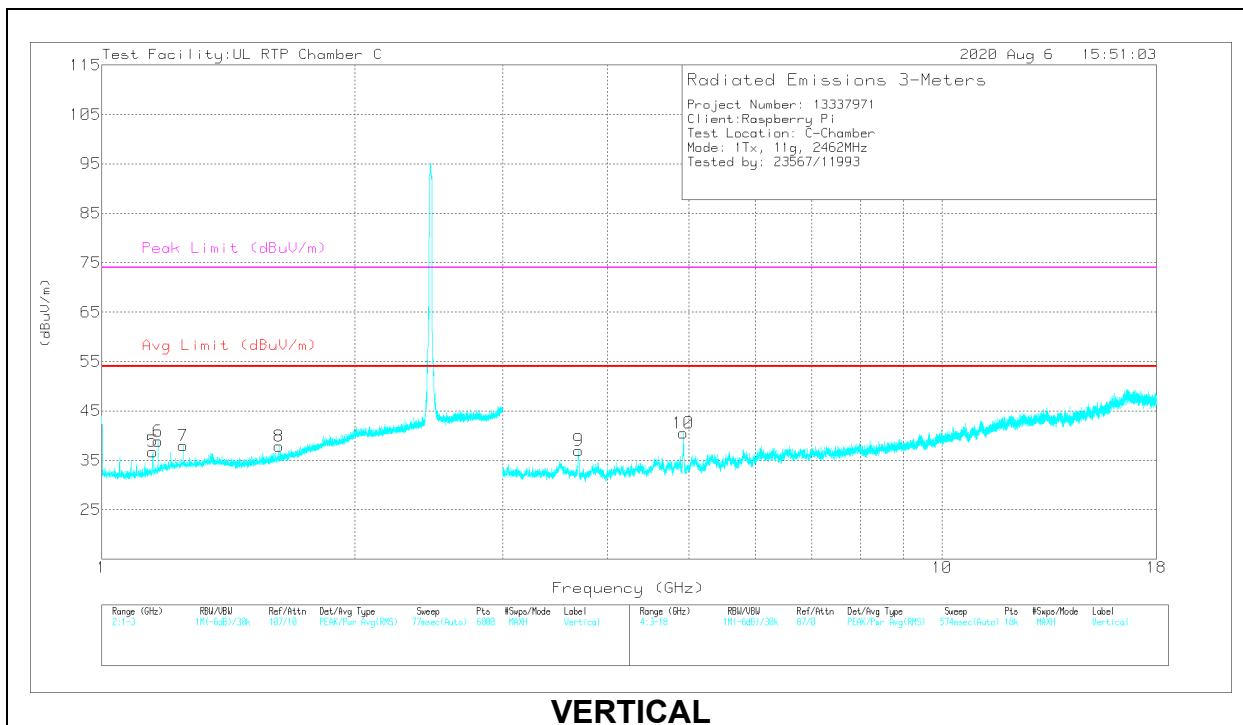
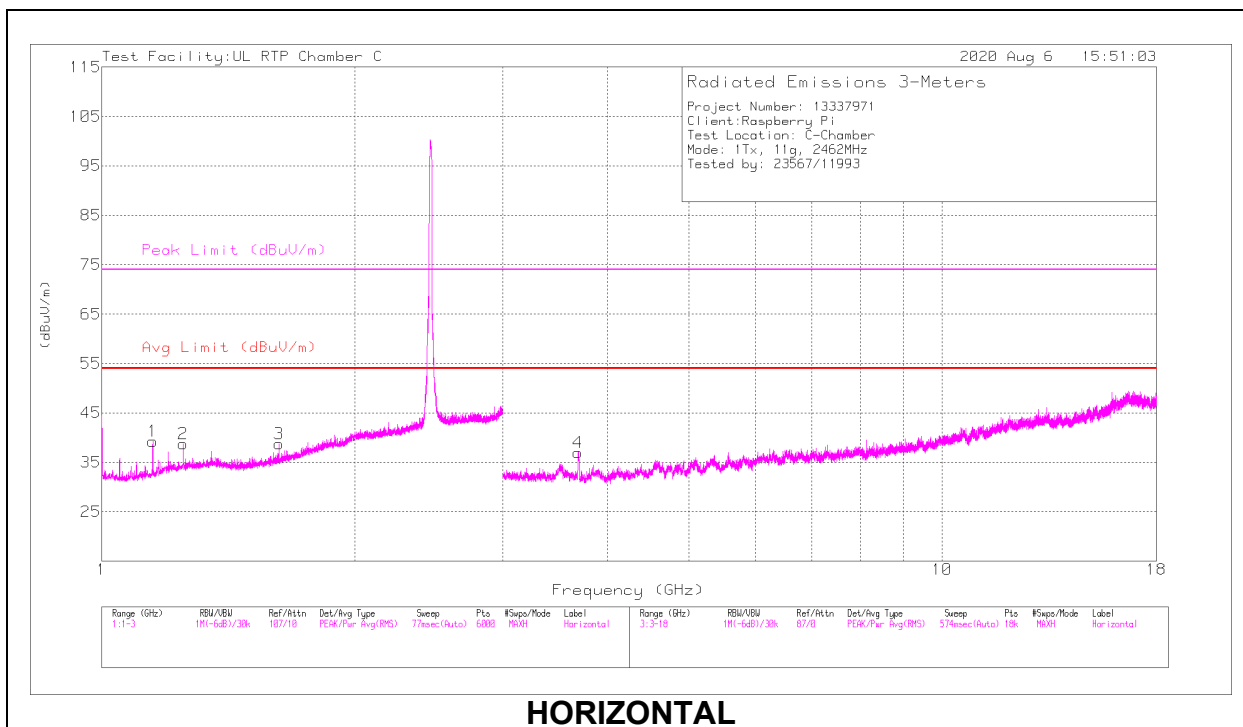
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.15022	38.06	PK2	27.4	-21.7	43.76	-	-	74	-30.24	168	197	H
	*** 1.15002	31.23	ADV	27.4	-21.7	36.93	54	-17.07	-	-	168	197	H
2	* 1.25005	37.41	PK2	28.6	-21.5	44.51	-	-	74	-29.49	15	221	H
	* 1.25005	28.85	ADV	28.6	-21.5	35.95	54	-18.05	-	-	15	221	H
3	*** 1.62488	36.87	PK2	28.5	-20.7	44.67	-	-	74	-29.33	45	129	H
	*** 1.62488	27.77	ADV	28.5	-20.7	35.57	54	-18.43	-	-	45	129	H
5	*** 1.1497	36.55	PK2	27.4	-21.7	42.25	-	-	74	-31.75	246	102	V
	*** 1.15005	28.12	ADV	27.4	-21.7	33.82	54	-20.18	-	-	246	102	V
6	*** 1.16675	37.42	PK2	27.7	-21.6	43.52	-	-	74	-30.48	251	243	V
	*** 1.1667	29.51	ADV	27.7	-21.6	35.61	54	-18.39	-	-	251	243	V
7	* 1.25014	36.74	PK2	28.6	-21.5	43.84	-	-	74	-30.16	246	106	V
	* 1.25004	27.45	ADV	28.6	-21.5	34.55	54	-19.45	-	-	246	106	V
8	*** 1.62488	35.15	PK2	28.5	-20.7	42.95	-	-	74	-31.05	121	287	V
	*** 1.62488	24.53	ADV	28.5	-20.7	32.33	54	-21.67	-	-	121	287	V
4	*** 3.69175	61.09	PK2	33.2	-49.7	44.59	-	-	74	-29.41	89	102	H
	*** 3.69091	49.63	ADV	33.2	-49.7	33.13	54	-20.87	-	-	89	102	H
9	*** 3.69227	60.51	PK2	33.2	-49.7	44.01	-	-	74	-29.99	356	124	V
	*** 3.69271	49.44	ADV	33.2	-49.7	32.94	54	-21.06	-	-	356	124	V
10	*** 4.92392	59.71	PK2	34	-48.9	44.81	-	-	74	-29.19	227	102	V
	*** 4.92383	47.15	ADV	34	-48.9	32.25	54	-21.75	-	-	227	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

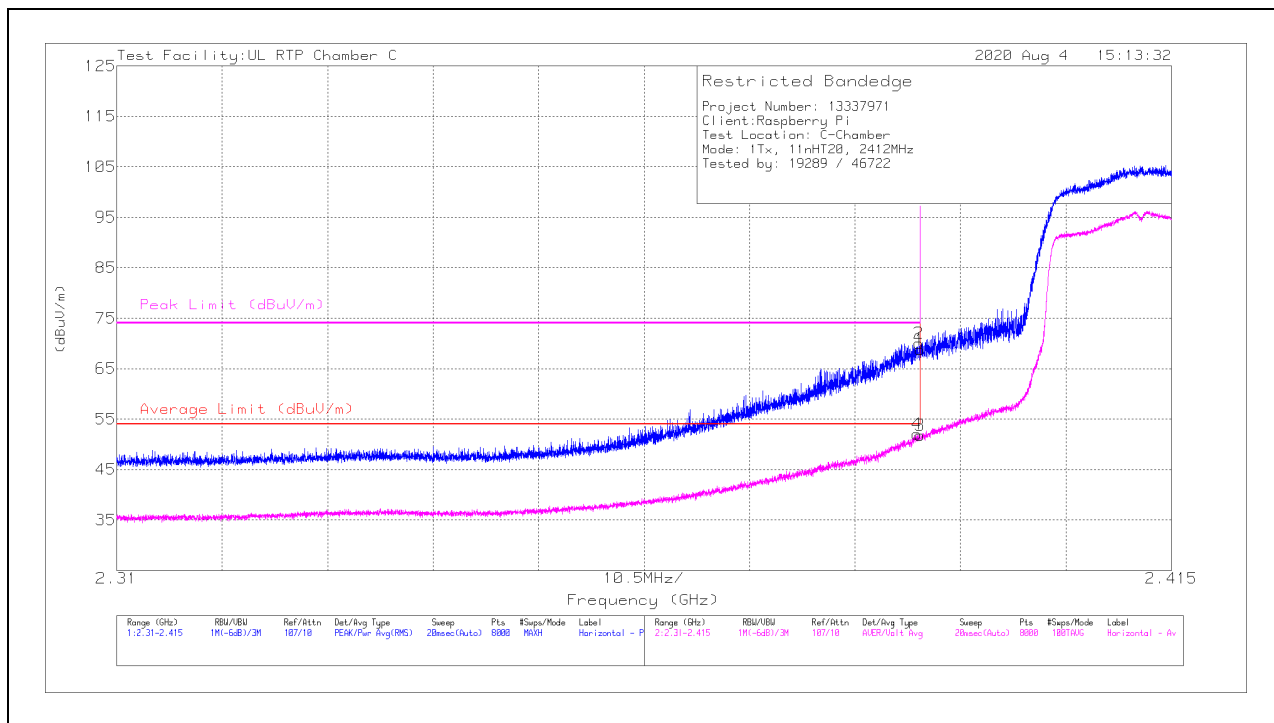
ADV - Linear Voltage Average

9.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fitr/Pad (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	56.02	Pk	32.1	-19.3	68.82	-	-	74	-5.18	132	144	H
2	* ** 2.38987	57.2	Pk	32.1	-19.3	70	-	-	74	-4	132	144	H
3	* ** 2.39	38.98	ADV	32.1	-19.3	51.78	54	-2.22	-	-	132	144	H
4	* ** 2.38966	39.26	ADV	32.1	-19.3	52.06	54	-1.94	-	-	132	144	H

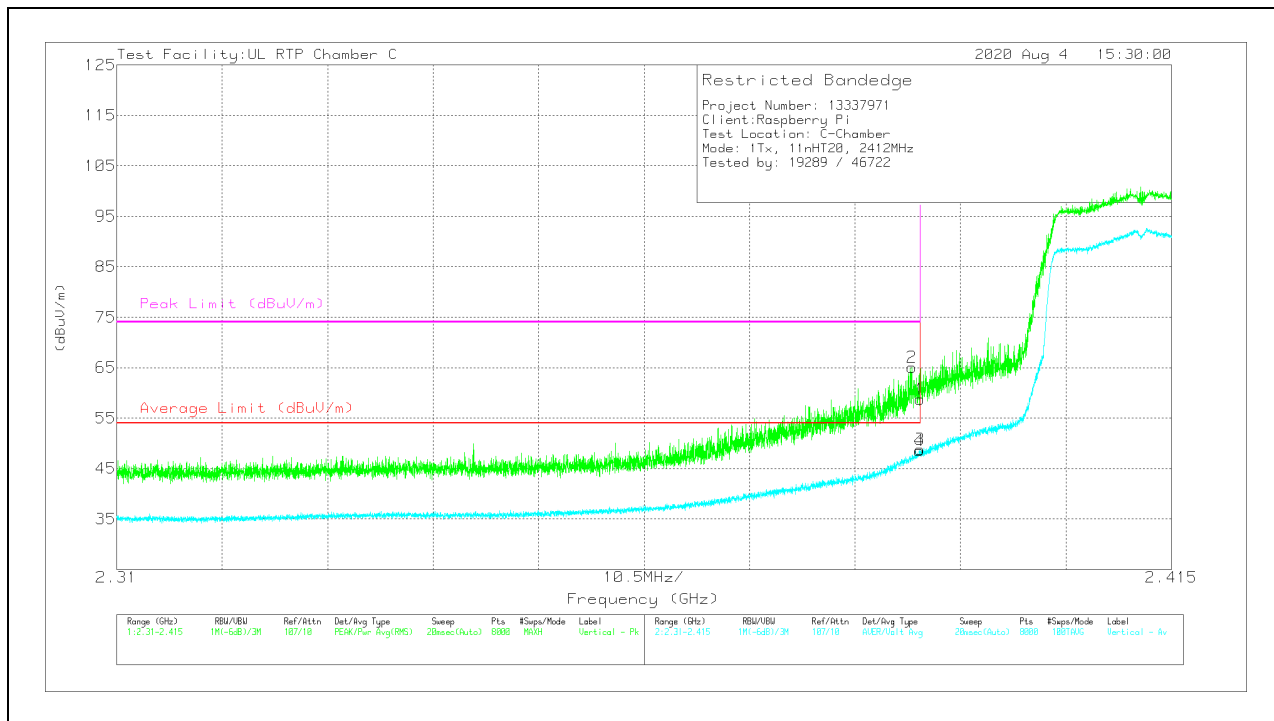
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	45.89	Pk	32.1	-19.3	58.69	-	-	74	-15.31	224	123	V
2	* ** 2.38914	52.37	Pk	32	-19.3	65.07	-	-	74	-8.93	224	123	V
3	* ** 2.39	35.96	ADV	32.1	-19.3	48.76	54	-5.24	-	-	224	123	V
4	* ** 2.38993	35.78	ADV	32.1	-19.3	48.58	54	-5.42	-	-	224	123	V

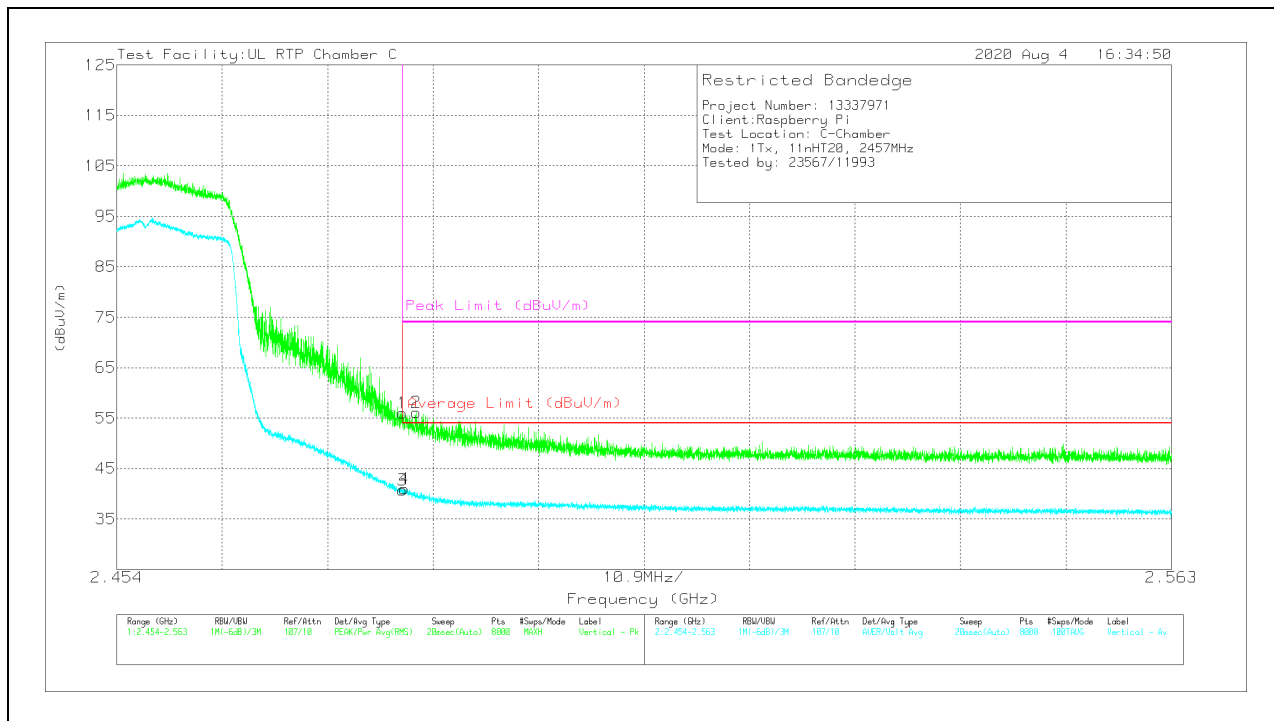
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	42.56	Pk	32.6	-19.2	55.96	-	-	74	-18.04	336	292	V
2	*** 2.48496	42.67	Pk	32.6	-19.2	56.07	-	-	74	-17.93	336	292	V
3	*** 2.4835	27.34	ADV	32.6	-19.2	40.74	54	-13.26	-	-	336	292	V
4	*** 2.48373	27.63	ADV	32.6	-19.2	41.03	54	-12.97	-	-	336	292	V

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

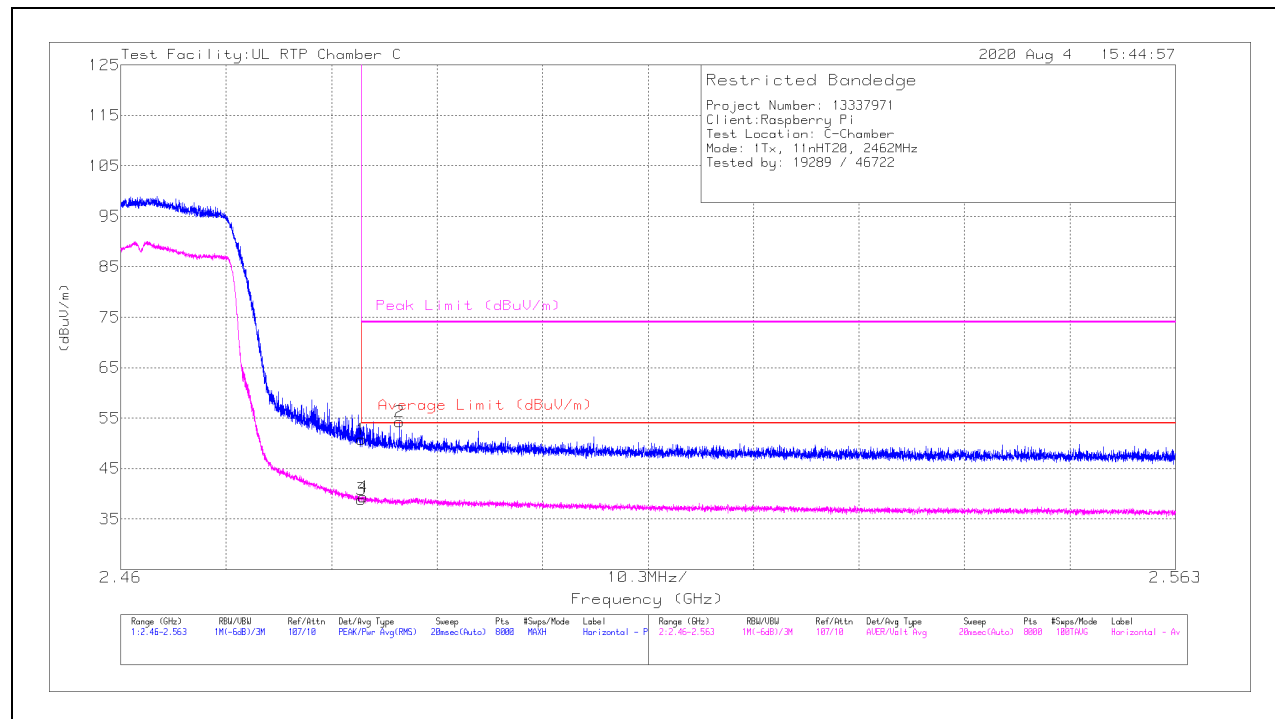
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	37.43	Pk	32.6	-19.2	50.83	-	-	74	-23.17	112	215	H
2	*** 2.48724	40.89	Pk	32.6	-19.2	54.29	-	-	74	-19.71	112	215	H
3	*** 2.4835	25.53	ADV	32.6	-19.2	38.93	54	-15.07	-	-	112	215	H
4	*** 2.48371	26.02	ADV	32.6	-19.2	39.42	54	-14.58	-	-	112	215	H

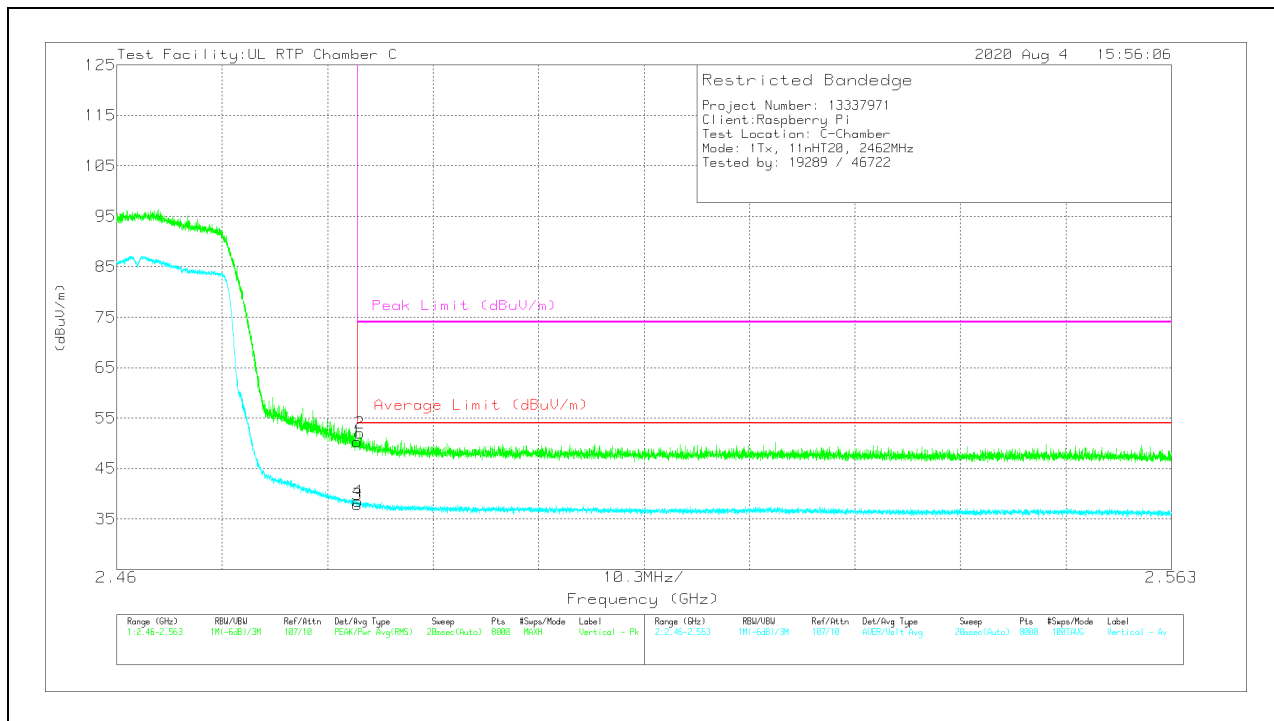
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	36.88	Pk	32.6	-19.2	50.28	-	-	74	-23.72	180	208	V
2	*** 2.48373	38.61	Pk	32.6	-19.2	52.01	-	-	74	-21.99	180	208	V
3	*** 2.4835	24.5	ADV	32.6	-19.2	37.9	54	-16.1	-	-	180	208	V
4	*** 2.48354	25.07	ADV	32.6	-19.2	38.47	54	-15.53	-	-	180	208	V

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

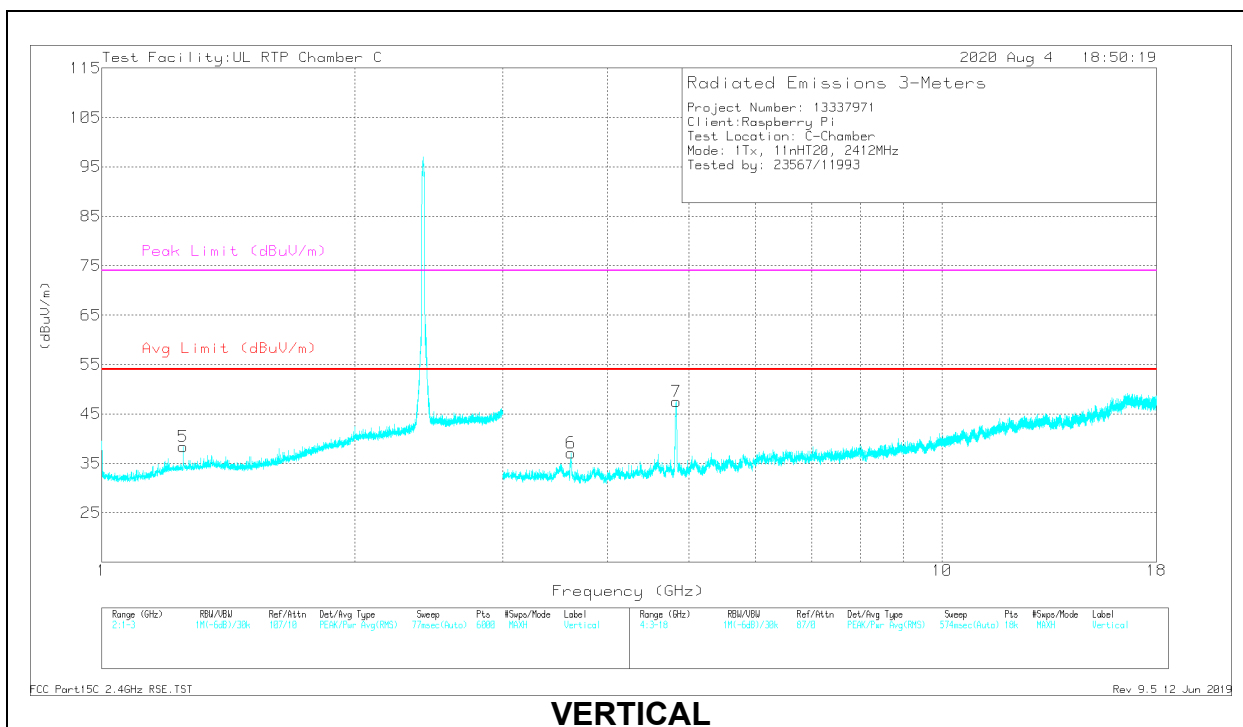
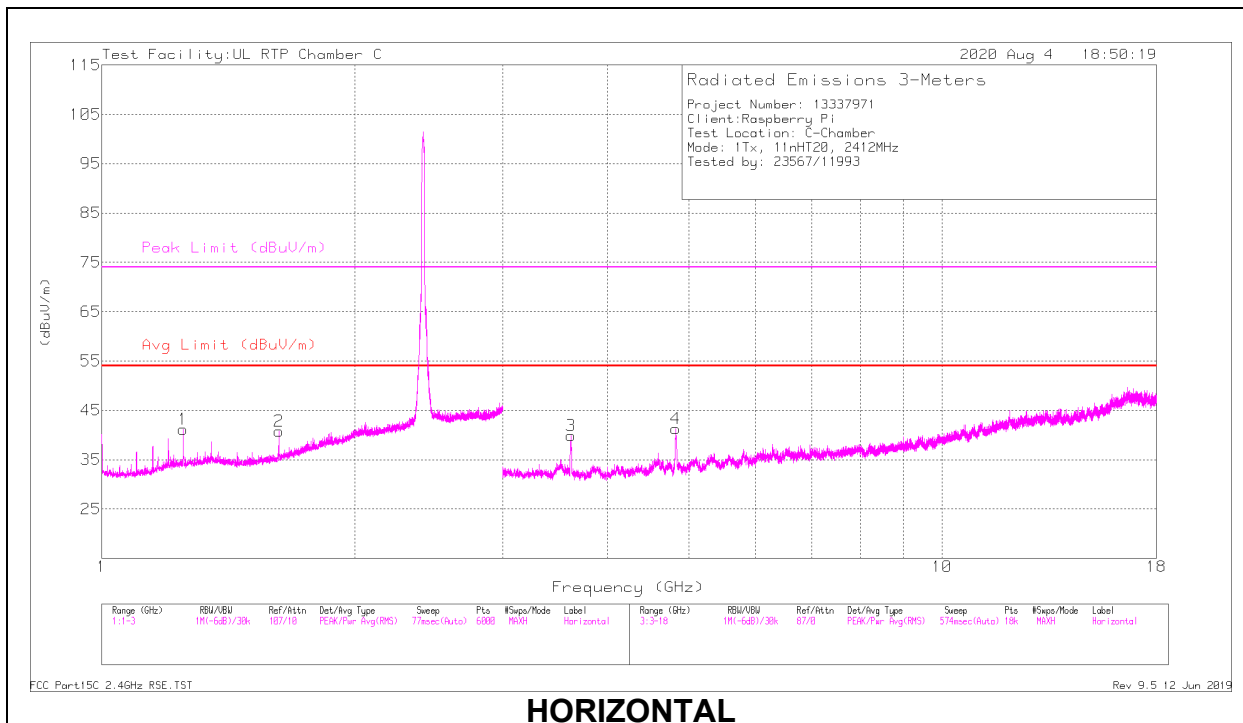
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24985	38.66	PK2	28.6	-21.5	45.76	-	-	74	-28.24	178	257	H
	* 1.25001	31.93	ADV	28.6	-21.5	39.03	54	-14.97	-	-	178	257	H
2	*** 1.62525	38.28	PK2	28.5	-20.7	46.08	-	-	74	-27.92	213	230	H
	*** 1.62488	31.07	ADV	28.5	-20.7	38.87	54	-15.13	-	-	213	230	H
5	* 1.24968	36.72	PK2	28.6	-21.5	43.82	-	-	74	-30.18	243	102	V
	* 1.25007	28.33	ADV	28.6	-21.5	35.43	54	-18.57	-	-	243	102	V
3	*** 3.61855	61.95	PK2	33.1	-50	45.05	-	-	74	-28.95	86	102	H
	*** 3.61849	50.4	ADV	33.1	-49.9	33.6	54	-20.4	-	-	86	102	H
4	*** 4.82162	65.52	PK2	34.1	-49.5	50.12	-	-	74	-23.88	121	102	H
	*** 4.82065	51.16	ADV	34.1	-49.5	35.76	54	-18.24	-	-	121	102	H
6	*** 3.6177	60.76	PK2	33.1	-49.9	43.96	-	-	74	-30.04	85	102	V
	*** 3.61747	49.16	ADV	33.1	-49.9	32.36	54	-21.64	-	-	85	102	V
7	*** 4.82685	71	PK2	34.1	-49.6	55.5	-	-	74	-18.5	188	102	V
	*** 4.82621	56.46	ADV	34.1	-49.7	40.86	54	-13.14	-	-	188	102	V

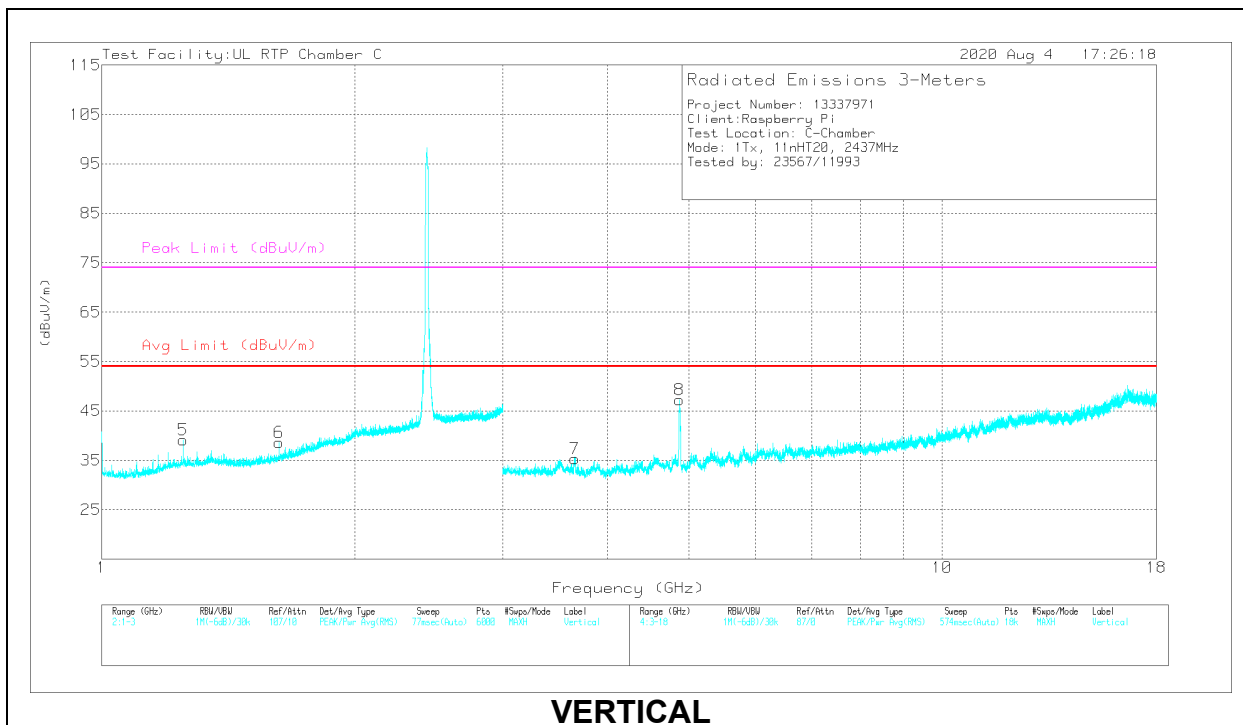
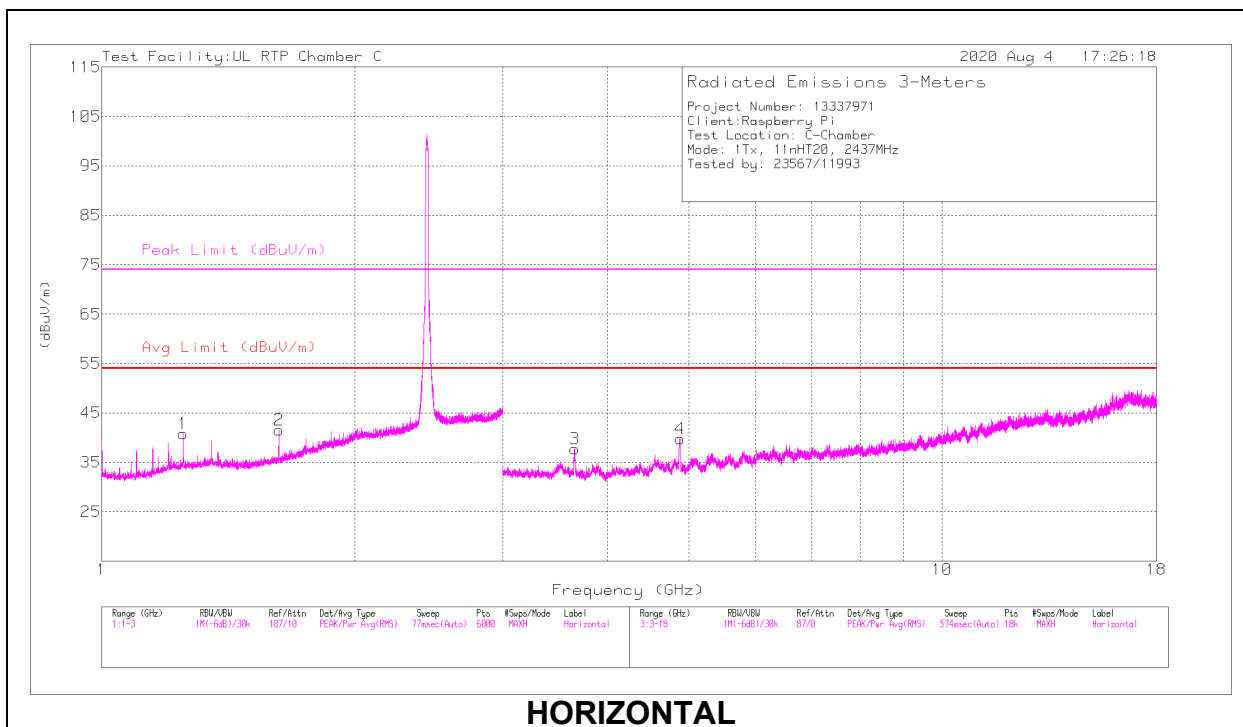
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25023	38.54	PK2	28.6	-21.5	45.64	-	-	74	-28.36	168	165	H
	* 1.25	32.21	ADV	28.6	-21.5	39.31	54	-14.69	-	-	168	165	H
2	*** 1.62525	39.3	PK2	28.5	-20.7	47.1	-	-	74	-26.9	212	226	H
	*** 1.62488	30.99	ADV	28.5	-20.7	38.79	54	-15.21	-	-	212	226	H
5	* 1.25008	36.63	PK2	28.6	-21.5	43.73	-	-	74	-30.27	250	105	V
	* 1.25001	28.84	ADV	28.6	-21.5	35.94	54	-18.06	-	-	250	105	V
6	*** 1.62525	35.71	PK2	28.5	-20.7	43.51	-	-	74	-30.49	163	102	V
	*** 1.62488	25.52	ADV	28.5	-20.7	33.32	54	-20.68	-	-	163	102	V
3	*** 3.6547	60.52	PK2	33.1	-49.8	43.82	-	-	74	-30.18	75	103	H
	*** 3.65598	48.73	ADV	33.1	-49.8	32.03	54	-21.97	-	-	75	103	H
4	*** 4.87574	63.79	PK2	34	-48.9	48.89	-	-	74	-25.11	113	102	H
	*** 4.87494	49.67	ADV	34	-48.9	34.77	54	-19.23	-	-	113	102	H
7	*** 3.65575	60.58	PK2	33.1	-49.8	43.88	-	-	74	-30.12	101	162	V
	*** 3.65551	48.5	ADV	33.1	-49.8	31.8	54	-22.2	-	-	101	162	V
8	*** 4.87418	70.42	PK2	34	-48.9	55.52	-	-	74	-18.48	207	249	V
	*** 4.87377	56.13	ADV	34	-48.9	41.23	54	-12.77	-	-	207	249	V

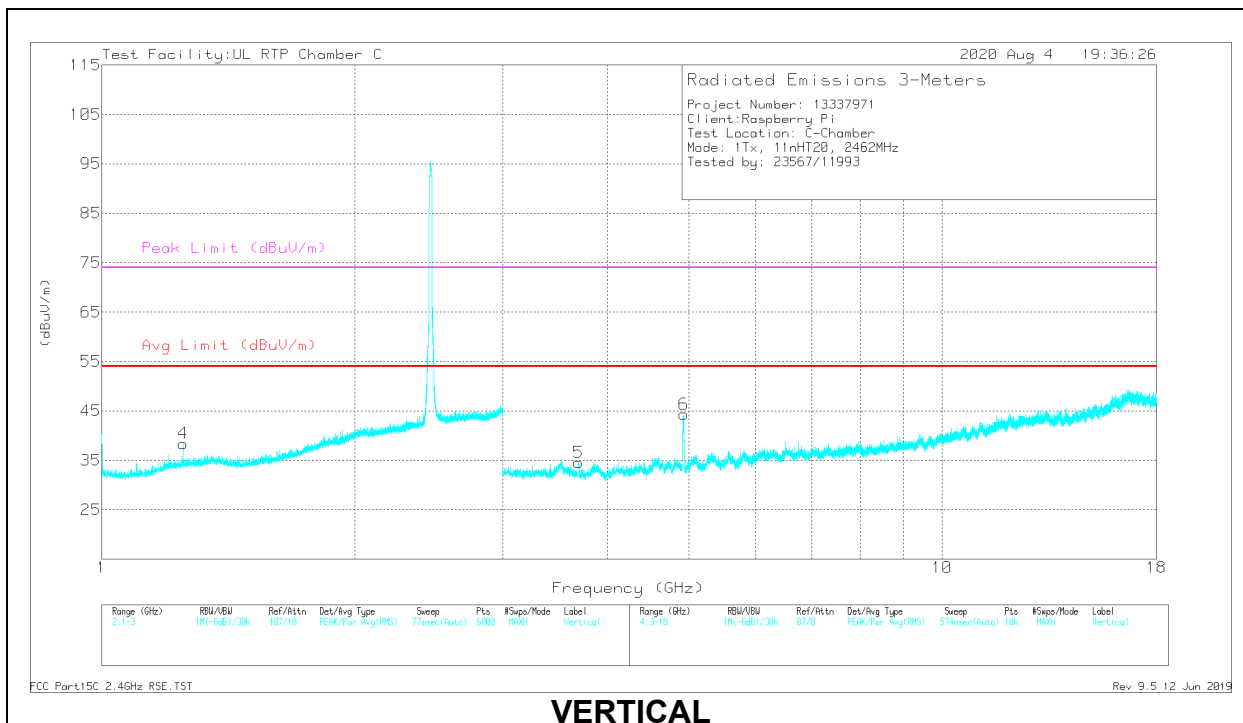
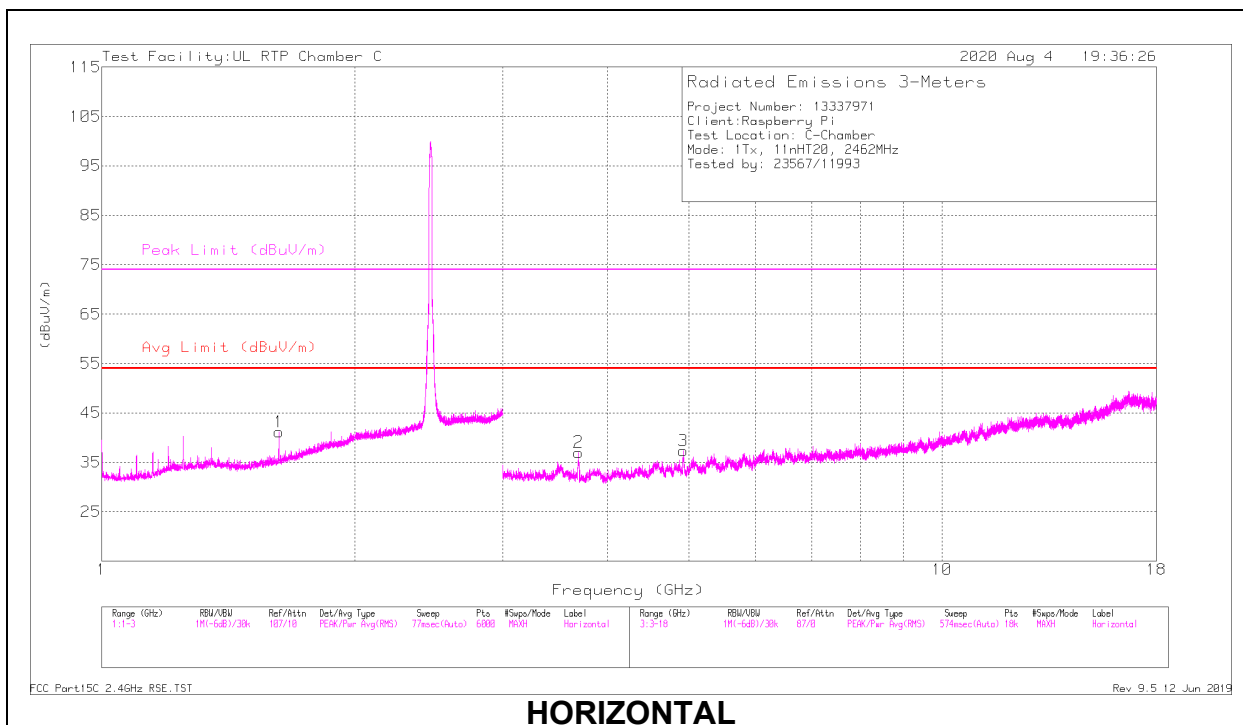
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.6245	37.91	PK2	28.4	-20.7	45.61	-	-	74	-28.39	213	108	H
	* ** 1.62488	30.11	ADV	28.5	-20.7	37.91	54	-16.09	-	-	213	108	H
4	* 1.24988	37.1	PK2	28.6	-21.5	44.2	-	-	74	-29.8	245	102	V
	* 1.25002	27.83	ADV	28.6	-21.5	34.93	54	-19.07	-	-	245	102	V
2	* ** 3.6946	61.65	PK2	33.2	-49.6	45.25	-	-	74	-28.75	82	321	H
	* ** 3.69348	49.81	ADV	33.2	-49.6	33.41	54	-20.59	-	-	82	321	H
3	* ** 4.92263	60.36	PK2	34	-48.9	45.46	-	-	74	-28.54	127	102	H
	* ** 4.9227	46.2	ADV	34	-48.9	31.3	54	-22.7	-	-	127	102	H
5	* ** 3.69599	58.41	PK2	33.2	-49.6	42.01	-	-	74	-31.99	286	265	V
	* ** 3.69483	45.6	ADV	33.2	-49.6	29.2	54	-24.8	-	-	286	265	V
6	* ** 4.92555	66.33	PK2	34	-48.9	51.43	-	-	74	-22.57	190	102	V
	* ** 4.92496	51.39	ADV	34	-48.9	36.49	54	-17.51	-	-	190	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

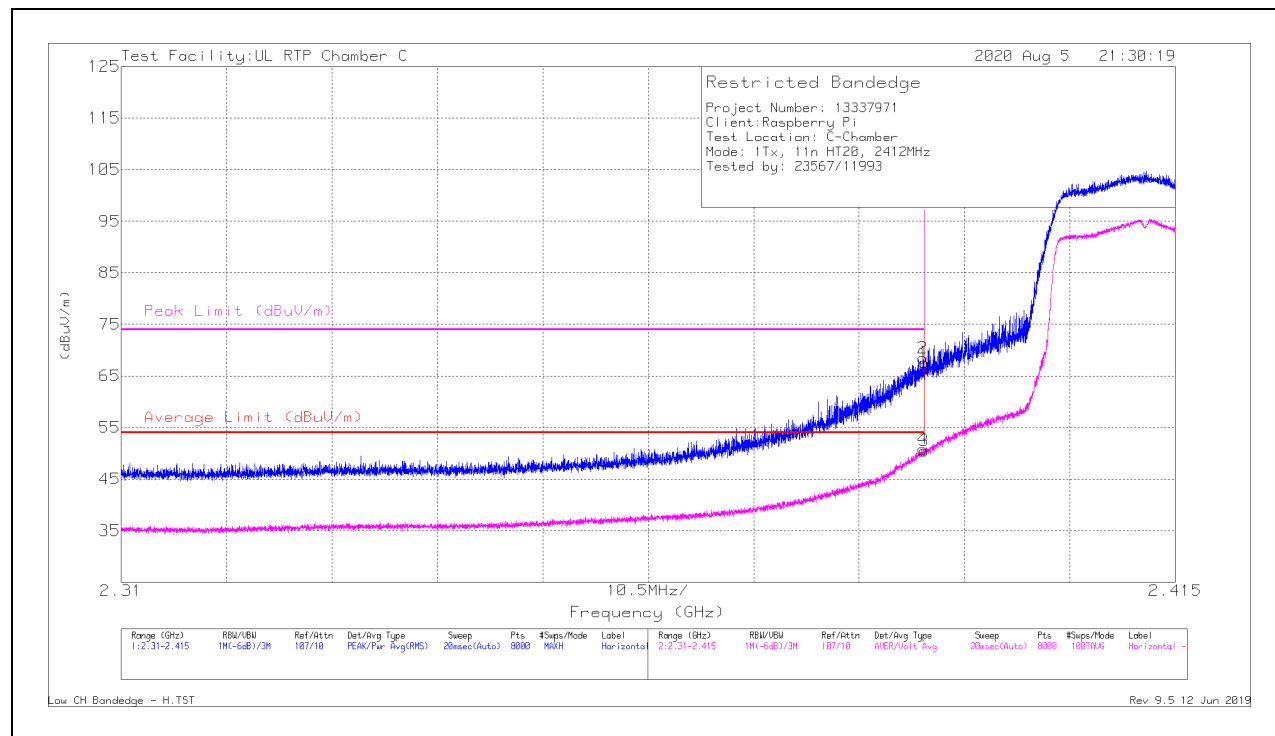
PK2 - Maximum Peak

ADV - Linear Voltage Average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	54.81	Pk	32.1	-19.3	67.61	-	-	74	-6.39	149	353	H
2	* ** 2.38985	55.66	Pk	32.1	-19.3	68.46	-	-	74	-5.54	149	353	H
3	* ** 2.39	37.7	ADV	32.1	-19.3	50.5	54	-3.5	-	-	149	353	H
4	* ** 2.38987	37.96	ADV	32.1	-19.3	50.76	54	-3.24	-	-	149	353	H

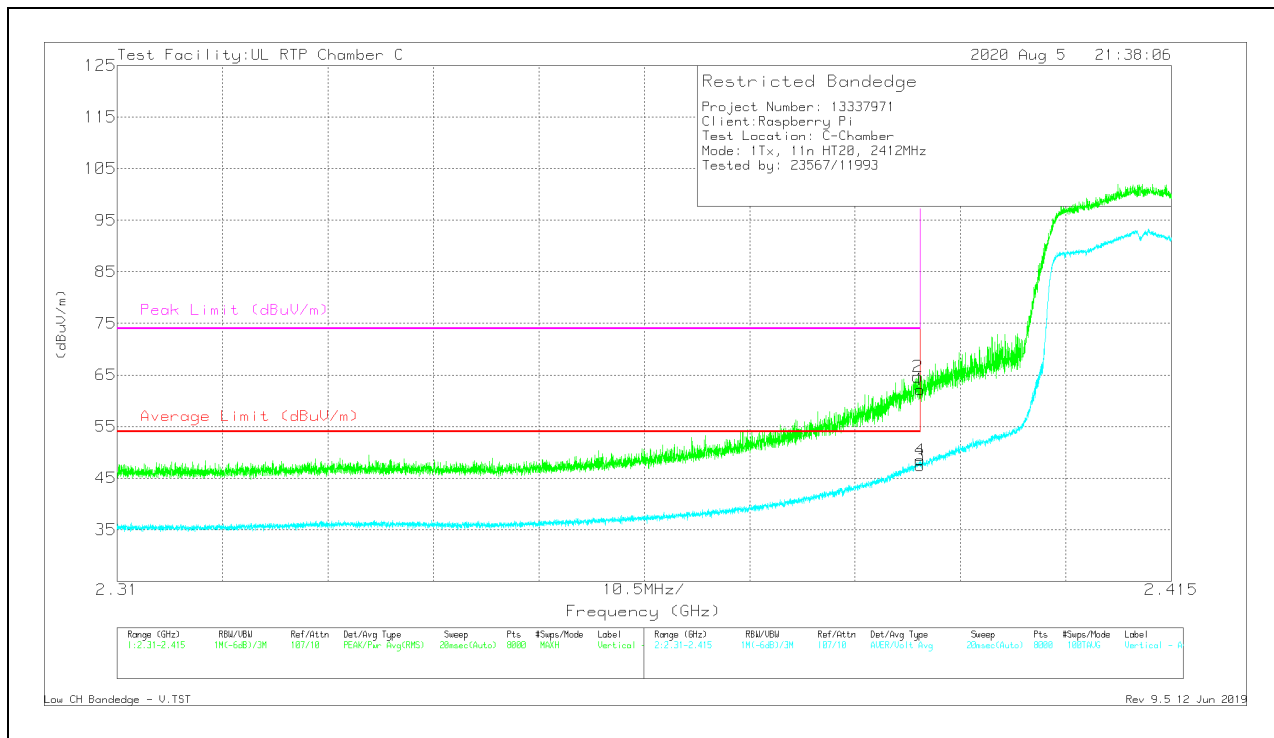
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	49.36	Pk	32.1	-19.3	62.16	-	-	74	-11.84	262	284	V
2	* ** 2.38976	51.85	Pk	32.1	-19.3	64.65	-	-	74	-9.35	262	284	V
3	* ** 2.39	34.62	ADV	32.1	-19.3	47.42	54	-6.58	-	-	262	284	V
4	* ** 2.38997	35.66	ADV	32.1	-19.3	48.46	54	-5.54	-	-	262	284	V

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

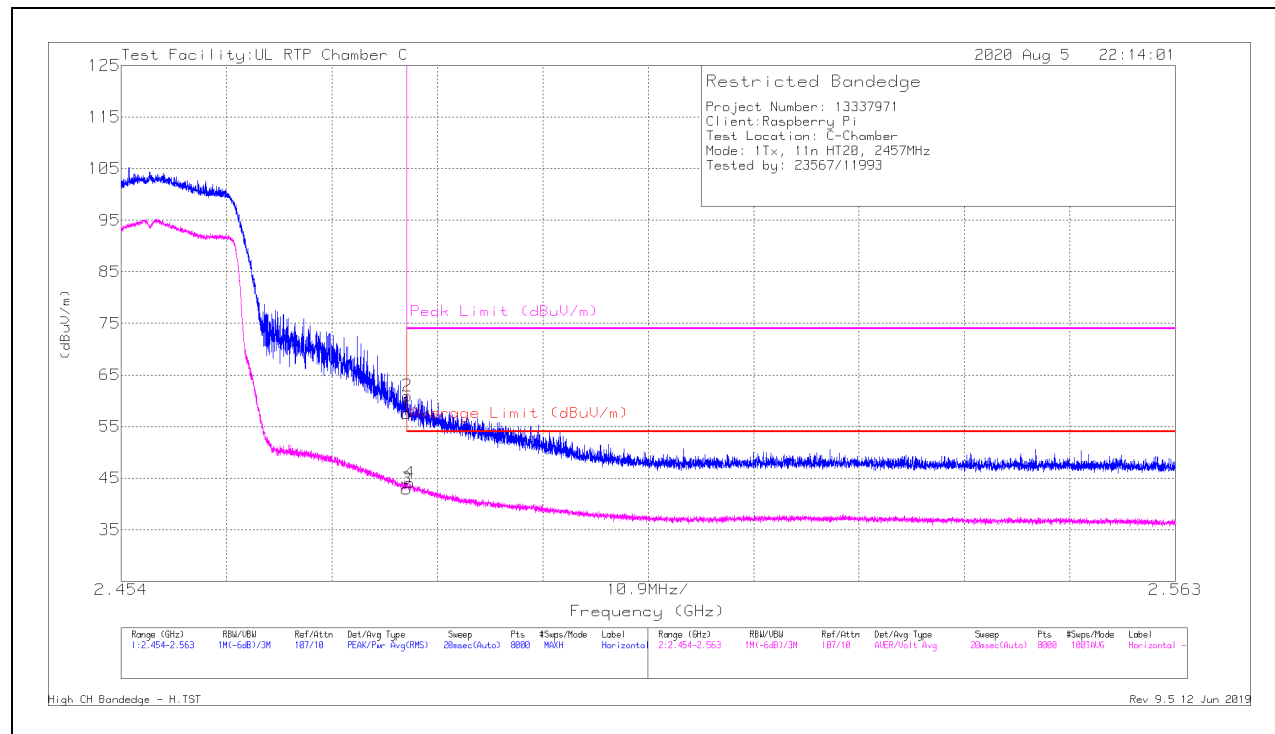
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	44.18	Pk	32.6	-19.2	57.58	-	-	74	-16.42	113	395	H
2	*** 2.48361	47.54	Pk	32.6	-19.2	60.94	-	-	74	-13.06	113	395	H
3	*** 2.4835	29.54	ADV	32.6	-19.2	42.94	54	-11.06	-	-	113	395	H
4	*** 2.48384	30.71	ADV	32.6	-19.2	44.11	54	-9.89	-	-	113	395	H

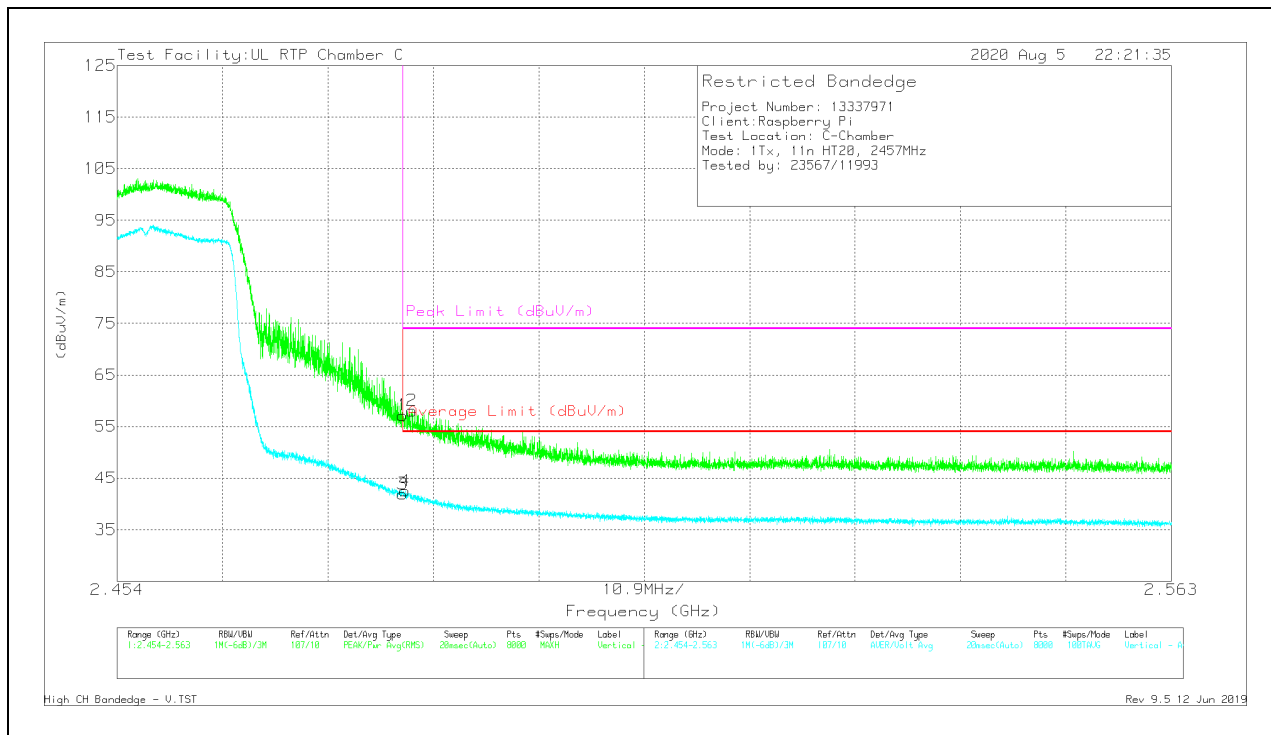
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	43.8	Pk	32.6	-19.2	57.2	-	-	74	-16.8	112	393	V
2	* ** 2.4847	44.67	Pk	32.6	-19.2	58.07	-	-	74	-15.93	112	393	V
3	* ** 2.4835	28.53	ADV	32.6	-19.2	41.93	54	-12.07	-	-	112	393	V
4	* ** 2.48376	29.1	ADV	32.6	-19.2	42.5	54	-11.5	-	-	112	393	V

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

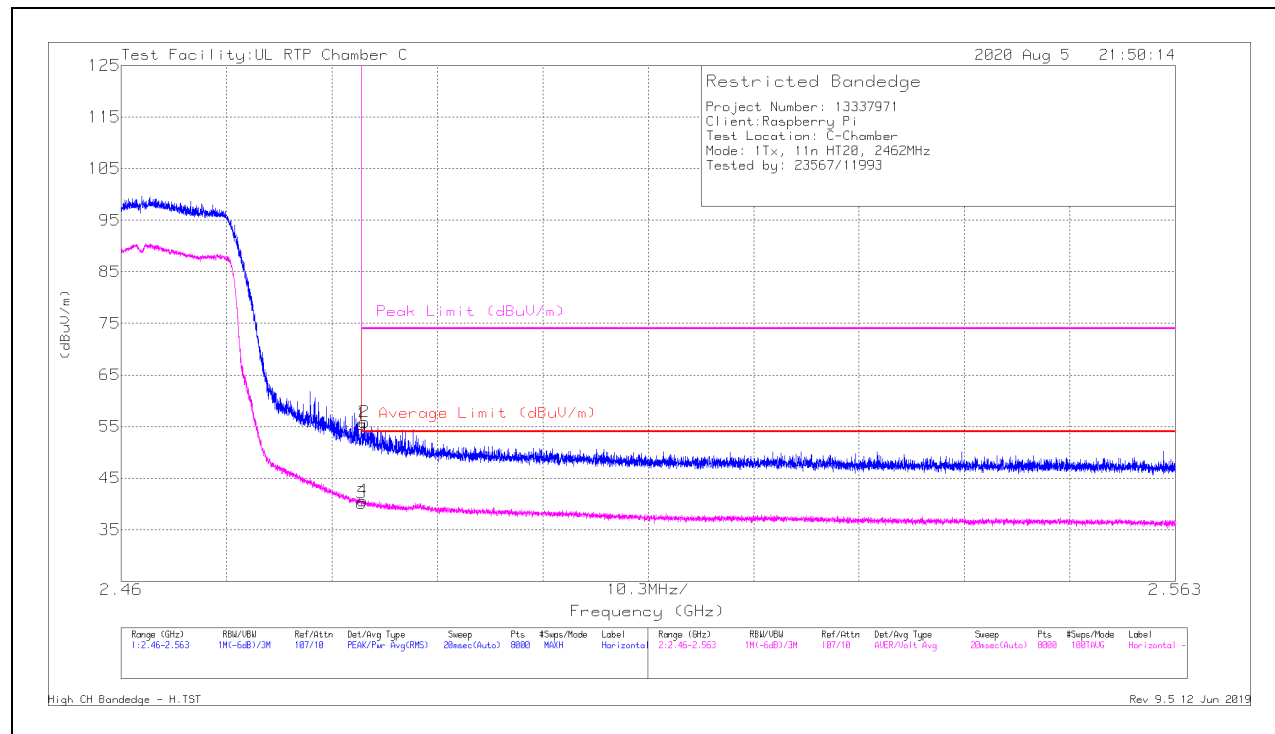
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	42.06	Pk	32.6	-19.2	55.46	-	-	74	-18.54	200	225	H
2	*** 2.48376	42.48	Pk	32.6	-19.2	55.88	-	-	74	-18.12	200	225	H
3	*** 2.4835	26.76	ADV	32.6	-19.2	40.16	54	-13.84	-	-	200	225	H
4	*** 2.4836	27.23	ADV	32.6	-19.2	40.63	54	-13.37	-	-	200	225	H

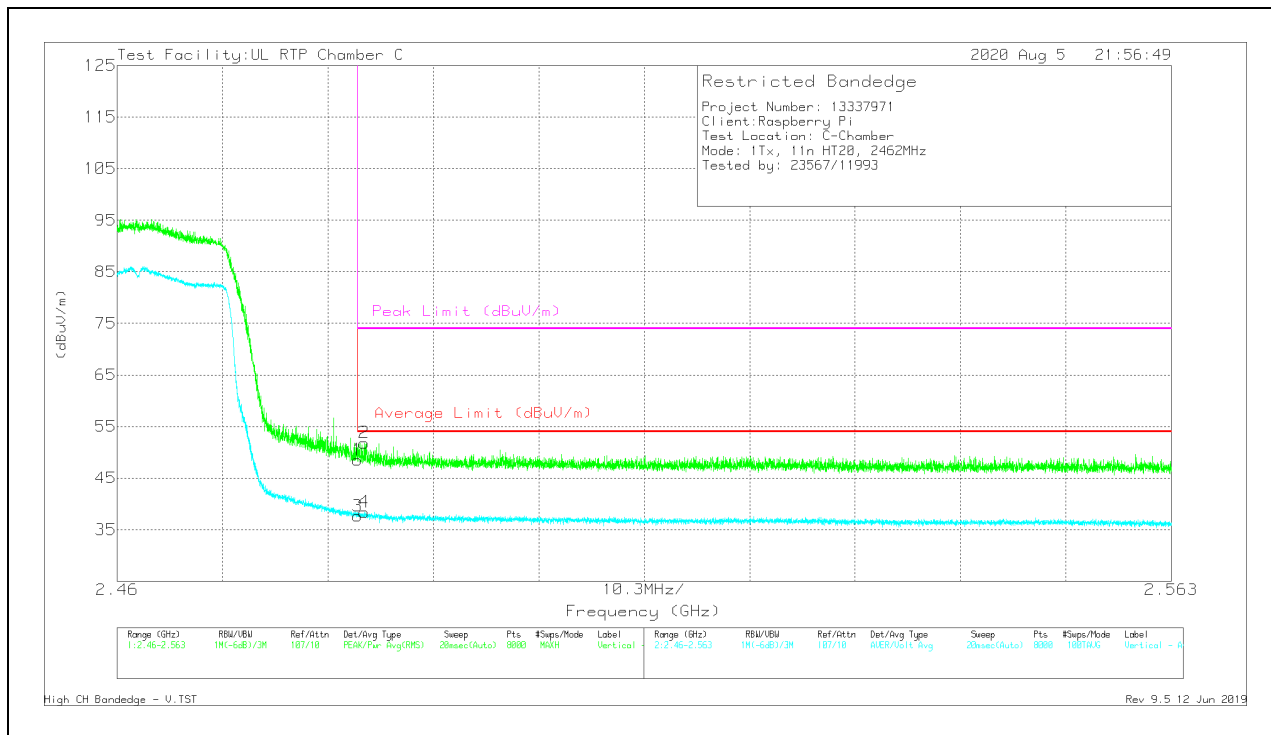
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (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	35.14	Pk	32.6	-19.2	48.54	-	-	74	-25.46	308	396	V
2	* ** 2.48413	38.44	Pk	32.6	-19.2	51.84	-	-	74	-22.16	308	396	V
3	* ** 2.4835	24.24	ADV	32.6	-19.2	37.64	54	-16.36	-	-	308	396	V
4	* ** 2.48413	25.02	ADV	32.6	-19.2	38.42	54	-15.58	-	-	308	396	V

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

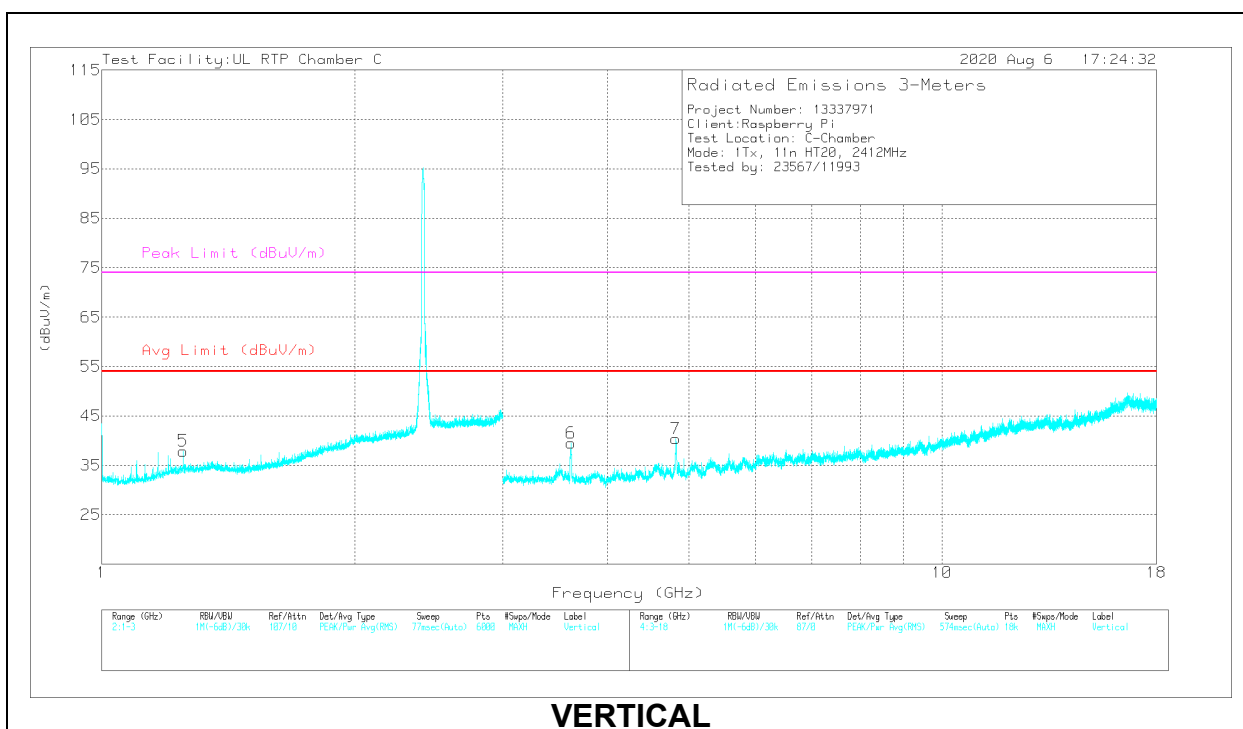
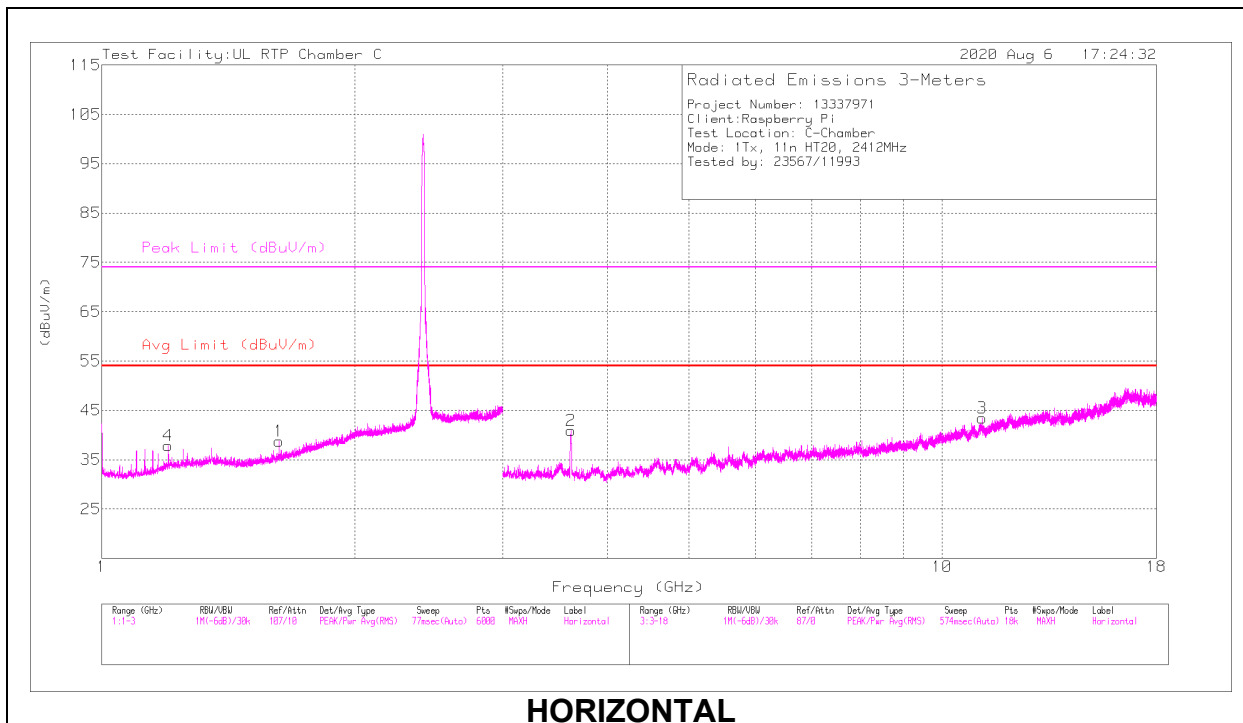
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.62488	36.27	PK2	28.5	-20.7	44.07	-	-	74	-29.93	217	171	H
	*** 1.62488	27.29	ADV	28.5	-20.7	35.09	54	-18.91	-	-	217	171	H
4	*** 1.19997	37.05	PK2	28.1	-21.5	43.65	-	-	74	-30.35	177	102	H
	*** 1.19996	28.52	ADV	28.1	-21.5	35.12	54	-18.88	-	-	177	102	H
5	* 1.25023	37.02	PK2	28.6	-21.5	44.12	-	-	74	-29.88	182	247	V
	* 1.25	28.7	ADV	28.6	-21.5	35.8	54	-18.2	-	-	182	247	V
2	*** 3.61696	61.92	PK2	33.1	-49.9	45.12	-	-	74	-28.88	81	102	H
	*** 3.6173	51.13	ADV	33.1	-49.9	34.33	54	-19.67	-	-	81	102	H
3	*** 11.16459	52.89	PK2	37.9	-41.9	48.89	-	-	74	-25.11	93	150	H
	*** 11.16331	40.09	ADV	37.9	-41.9	36.09	54	-17.91	-	-	93	150	H
6	*** 3.61823	63.47	PK2	33.1	-49.9	46.67	-	-	74	-27.33	356	254	V
	*** 3.6185	51.66	ADV	33.1	-49.9	34.86	54	-19.14	-	-	356	254	V
7	*** 4.8242	62.66	PK2	34.1	-49.6	47.16	-	-	74	-26.84	222	102	V
	*** 4.82392	48.95	ADV	34.1	-49.6	33.45	54	-20.55	-	-	222	102	V

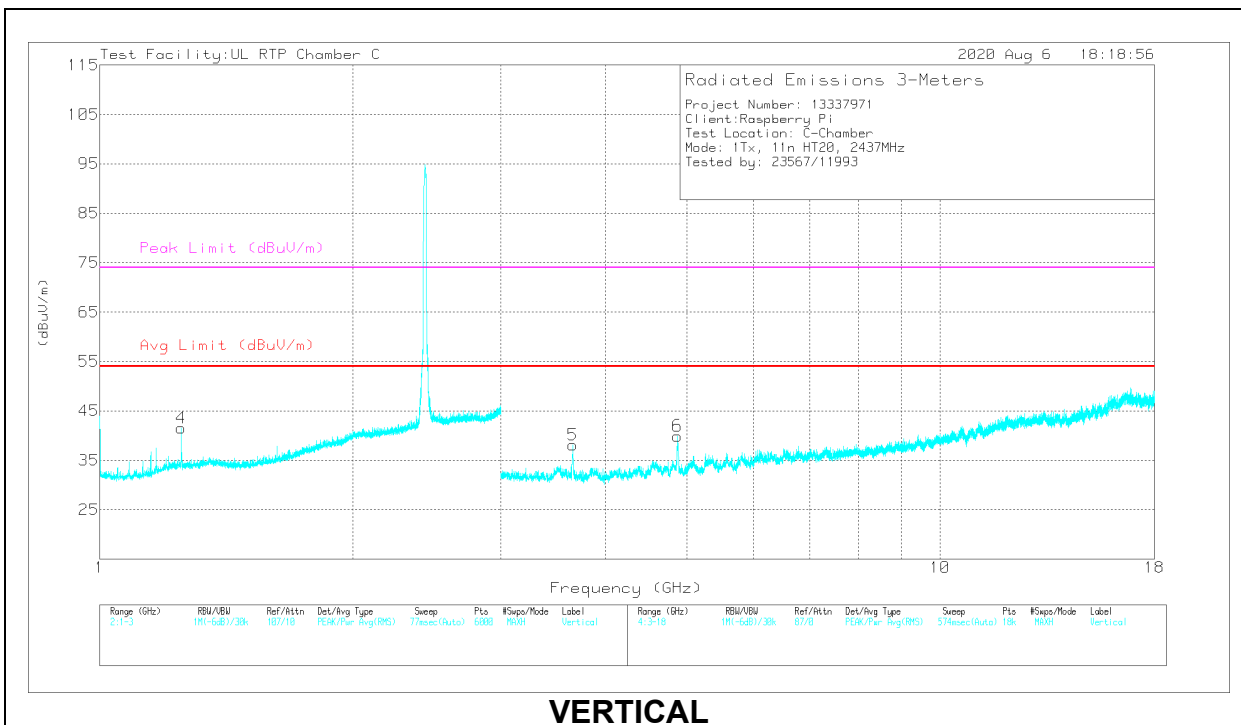
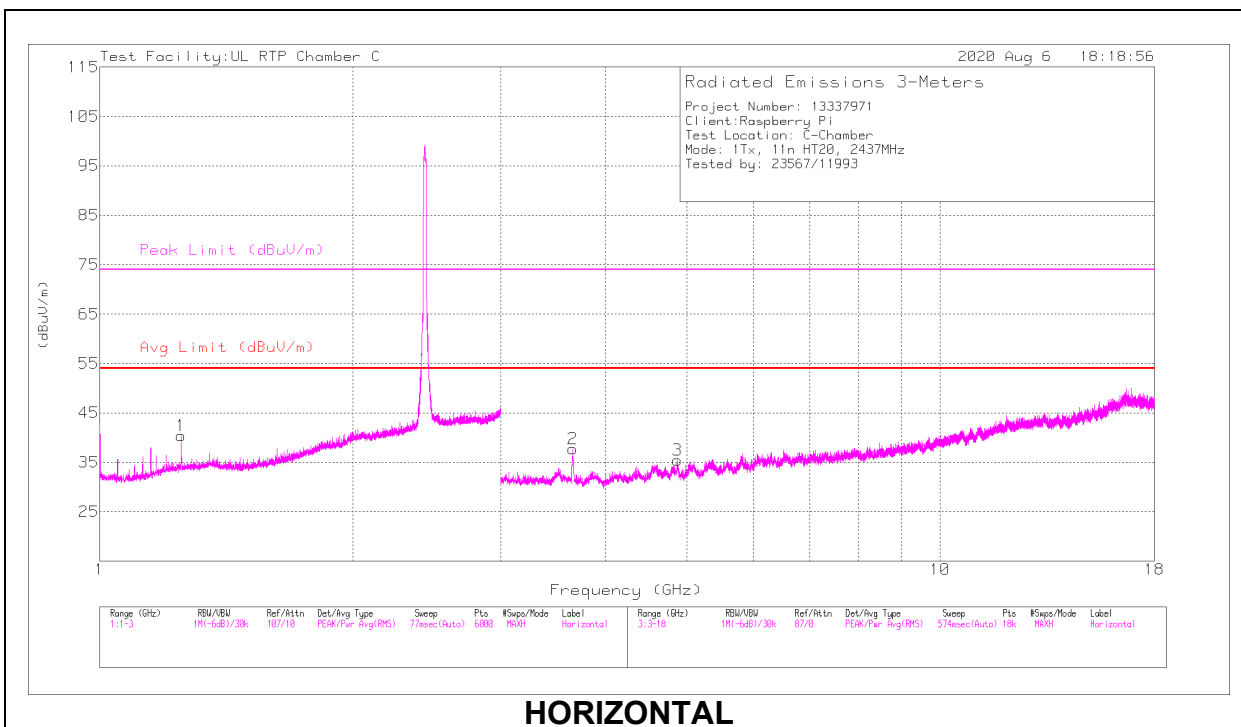
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25024	39.73	PK2	28.6	-21.5	46.83	-	-	74	-27.17	163	139	H
	* 1.25	33.55	ADV	28.6	-21.5	40.65	54	-13.35	-	-	163	139	H
4	* 1.24987	38.8	PK2	28.6	-21.5	45.9	-	-	74	-28.1	245	103	V
	* 1.25006	32.53	ADV	28.6	-21.5	39.63	54	-14.37	-	-	245	103	V
2	*** 3.65495	60.72	PK2	33.1	-49.8	44.02	-	-	74	-29.98	84	102	H
	*** 3.65493	49.41	ADV	33.1	-49.8	32.71	54	-21.29	-	-	84	102	H
3	*** 4.86855	56.57	PK2	34	-48.8	41.77	-	-	74	-32.23	353	102	H
	*** 4.86898	43.52	ADV	34	-48.8	28.72	54	-25.28	-	-	353	102	H
5	*** 3.6572	62.4	PK2	33.1	-49.9	45.6	-	-	74	-28.4	352	254	V
	*** 3.65592	50.64	ADV	33.1	-49.8	33.94	54	-20.06	-	-	352	254	V
6	*** 4.874	64.37	PK2	34	-48.9	49.47	-	-	74	-24.53	201	302	V
	*** 4.87388	51.08	ADV	34	-48.9	36.18	54	-17.82	-	-	201	302	V

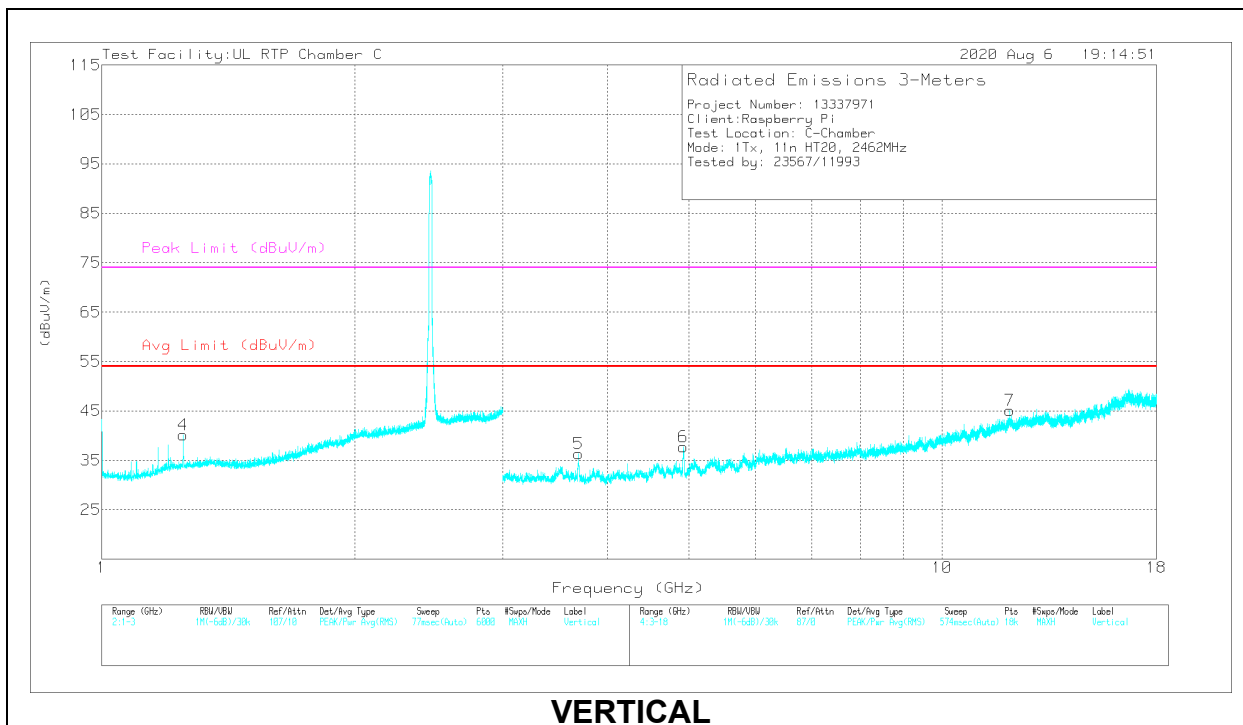
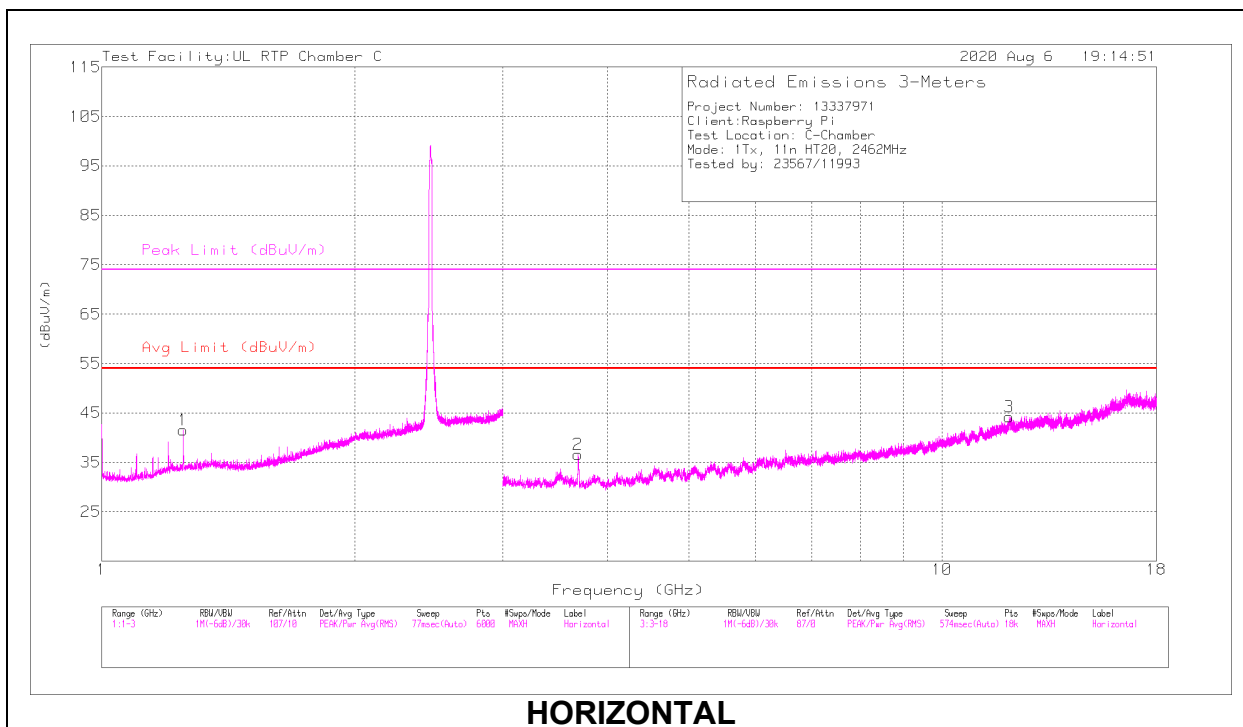
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25009	39.18	PK2	28.6	-21.5	46.28	-	-	74	-27.72	185	254	H
	* 1.25003	33.43	ADV	28.6	-21.5	40.53	54	-13.47	-	-	185	254	H
4	* 1.25017	38.32	PK2	28.6	-21.5	45.42	-	-	74	-28.58	63	249	V
	* 1.25003	30.66	ADV	28.6	-21.5	37.76	54	-16.24	-	-	63	249	V
2	*** 3.69178	59.61	PK2	33.2	-49.7	43.11	-	-	74	-30.89	86	102	H
	*** 3.69215	48.23	ADV	33.2	-49.7	31.73	54	-22.27	-	-	86	102	H
3	*** 12.02382	51.6	PK2	38.8	-40	50.4	-	-	74	-23.6	2	249	H
	*** 12.02381	38.28	ADV	38.8	-40	37.08	54	-16.92	-	-	2	249	H
5	*** 3.6932	58.31	PK2	33.2	-49.6	41.91	-	-	74	-32.09	217	102	V
	*** 3.69357	46.48	ADV	33.2	-49.6	30.08	54	-23.92	-	-	217	102	V
6	*** 4.92267	60.95	PK2	34	-48.9	46.05	-	-	74	-27.95	176	103	V
	*** 4.92284	46.71	ADV	34	-48.9	31.81	54	-22.19	-	-	176	103	V
7	*** 12.05145	50.89	PK2	38.8	-39.4	50.29	-	-	74	-23.71	78	155	V
	*** 12.04974	37.93	ADV	38.8	-39.4	37.33	54	-16.67	-	-	78	155	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

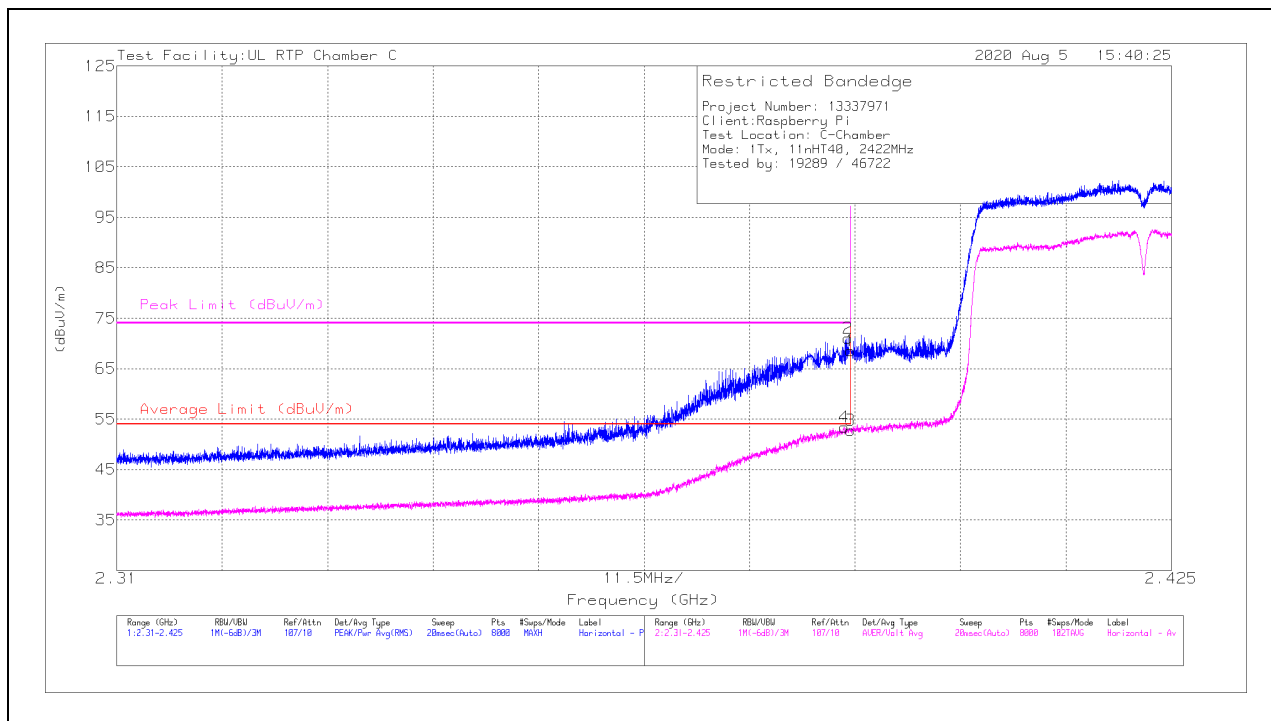
ADV - Linear Voltage Average

9.1.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 3)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* ** 2.38999	55.72	Pk	32.1	-19.3	0	68.52	-	-	74	-5.48	135	103	H
2	* ** 2.38974	58.22	Pk	32.1	-19.3	0	71.02	-	-	74	-2.98	135	103	H
3	* ** 2.38999	39.77	ADV	32.1	-19.3	.24	52.81	54	-1.19	-	-	135	103	H
4	* ** 2.3893	40.46	ADV	32	-19.3	.24	53.4	54	-.6	-	-	135	103	H

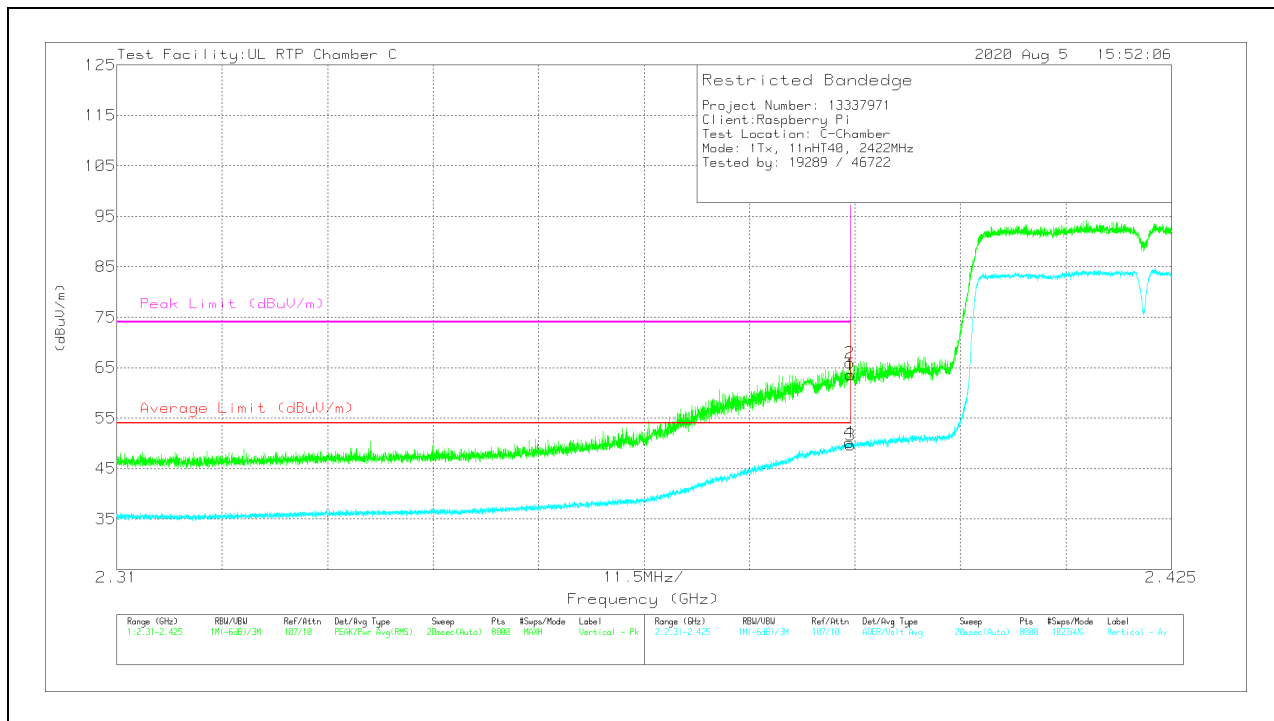
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

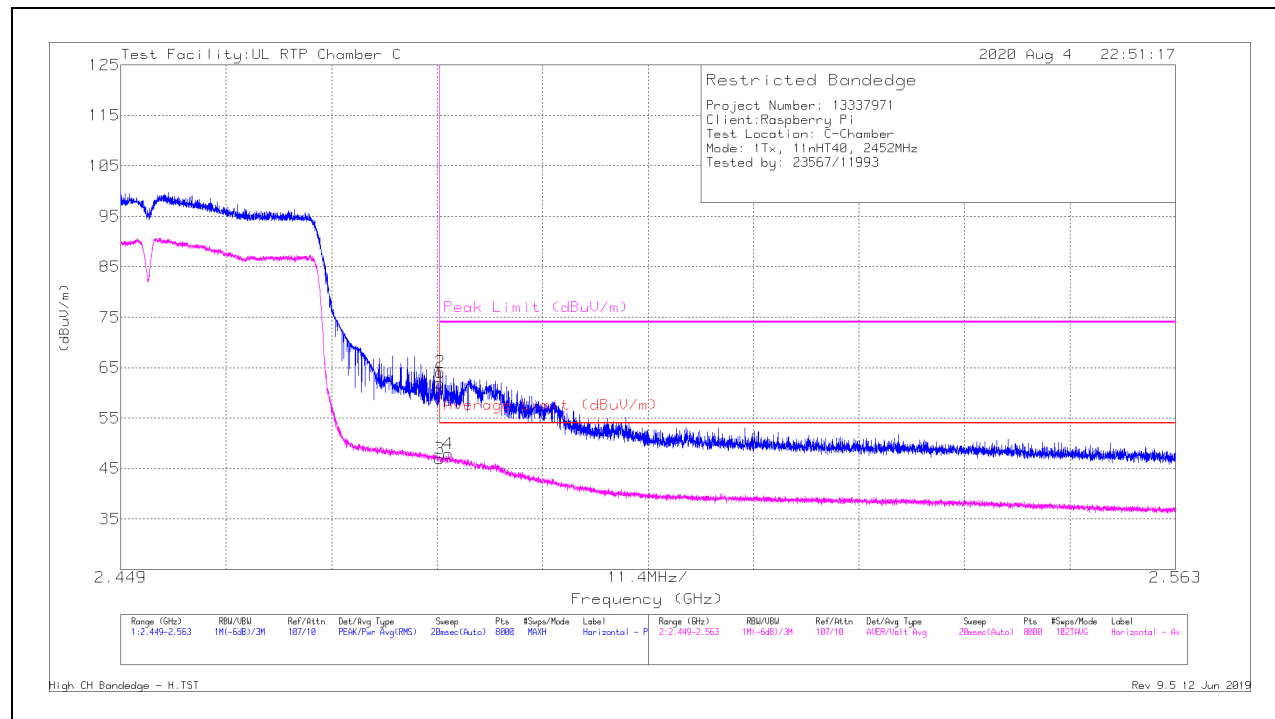


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38999	50.72	Pk	32.1	-19.3	0	63.52	-	-	74	-10.48	209	102	V
2	*** 2.38997	53.18	Pk	32.1	-19.3	0	65.98	-	-	74	-8.02	209	102	V
3	*** 2.38999	36.59	ADV	32.1	-19.3	.24	49.63	54	-4.37	-	-	209	102	V
4	*** 2.38989	37.16	ADV	32.1	-19.3	.24	50.2	54	-3.8	-	-	209	102	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, CH 9)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	48.59	Pk	32.6	-19.2	0	61.99	-	-	74	-12.01	129	123	H
2	*** 2.48355	50.73	Pk	32.6	-19.2	0	64.13	-	-	74	-9.87	129	123	H
3	*** 2.4835	33.34	ADV	32.6	-19.2	.24	46.98	54	-7.02	-	-	129	123	H
4	*** 2.4844	34.28	ADV	32.6	-19.2	.24	47.92	54	-6.08	-	-	129	123	H

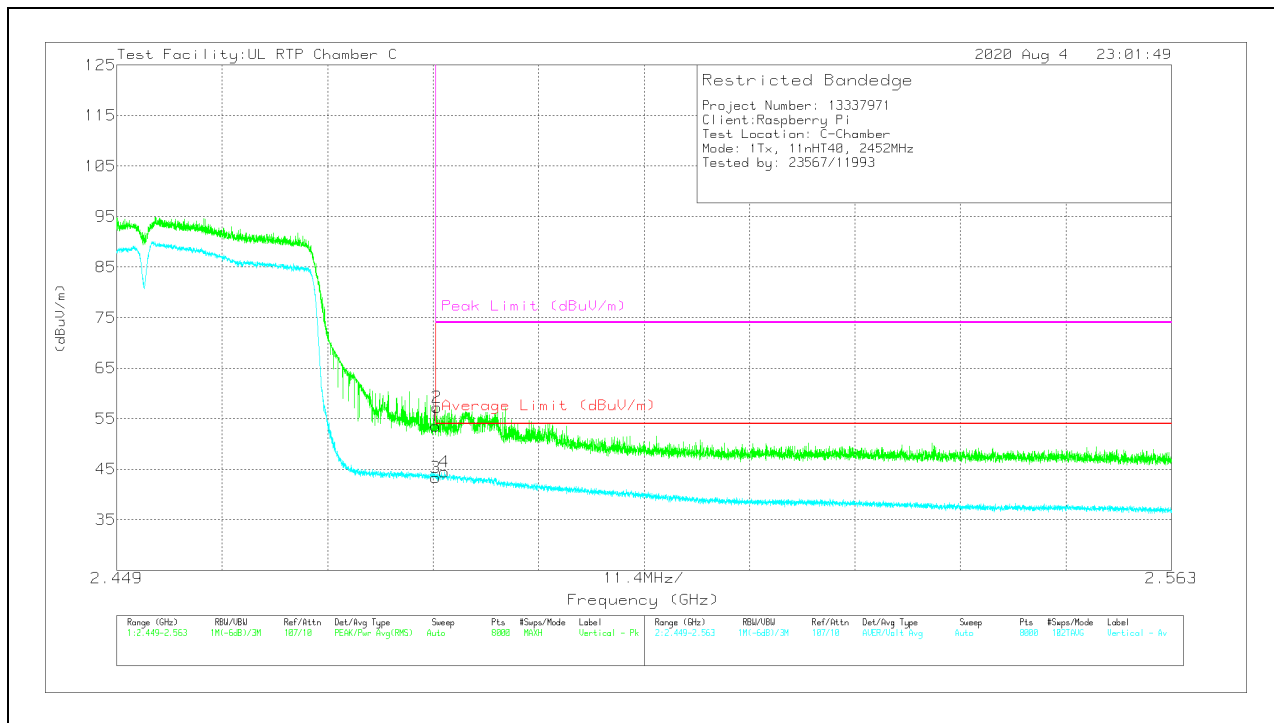
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	40.07	Pk	32.6	-19.2	0	53.47	-	-	74	-20.53	104	144	V
2	*** 2.4836	43.85	Pk	32.6	-19.2	0	57.25	-	-	74	-16.75	104	144	V
3	*** 2.4835	29.75	ADV	32.6	-19.2	.24	43.39	54	-10.61	-	-	104	144	H
4	*** 2.48442	30.77	ADV	32.6	-19.2	.24	44.41	54	-9.59	-	-	104	144	H

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

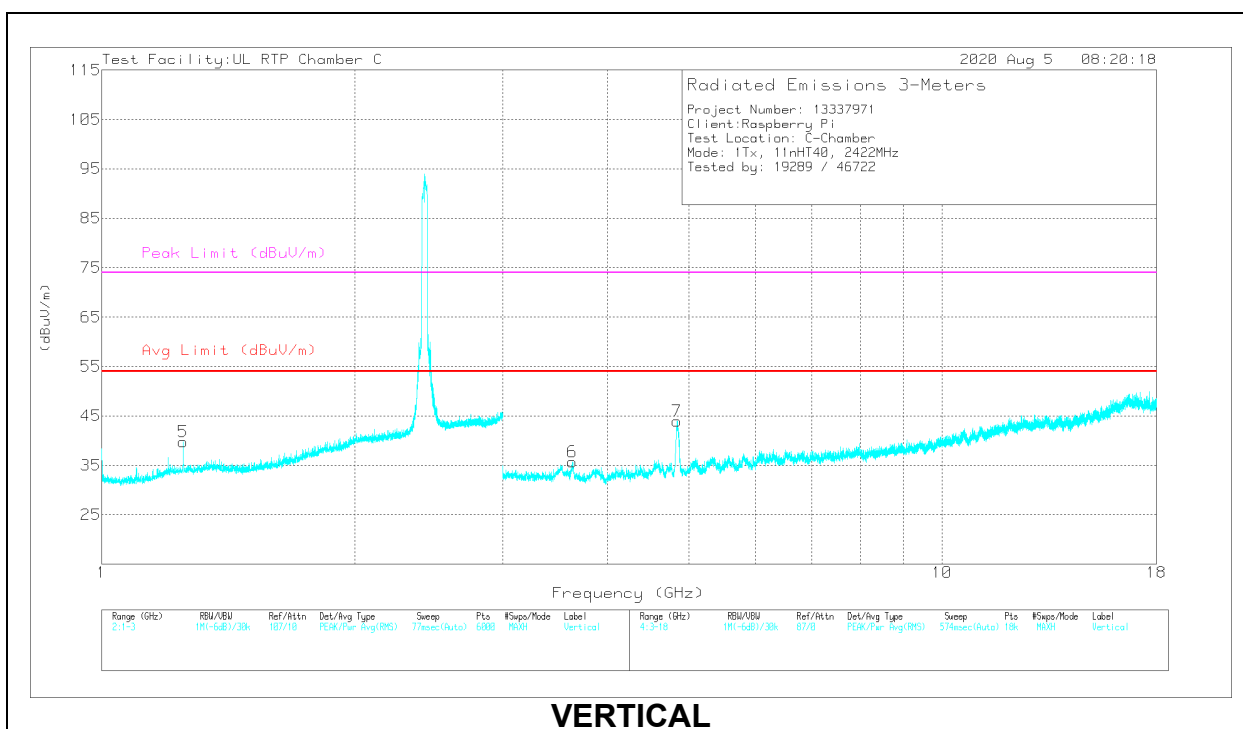
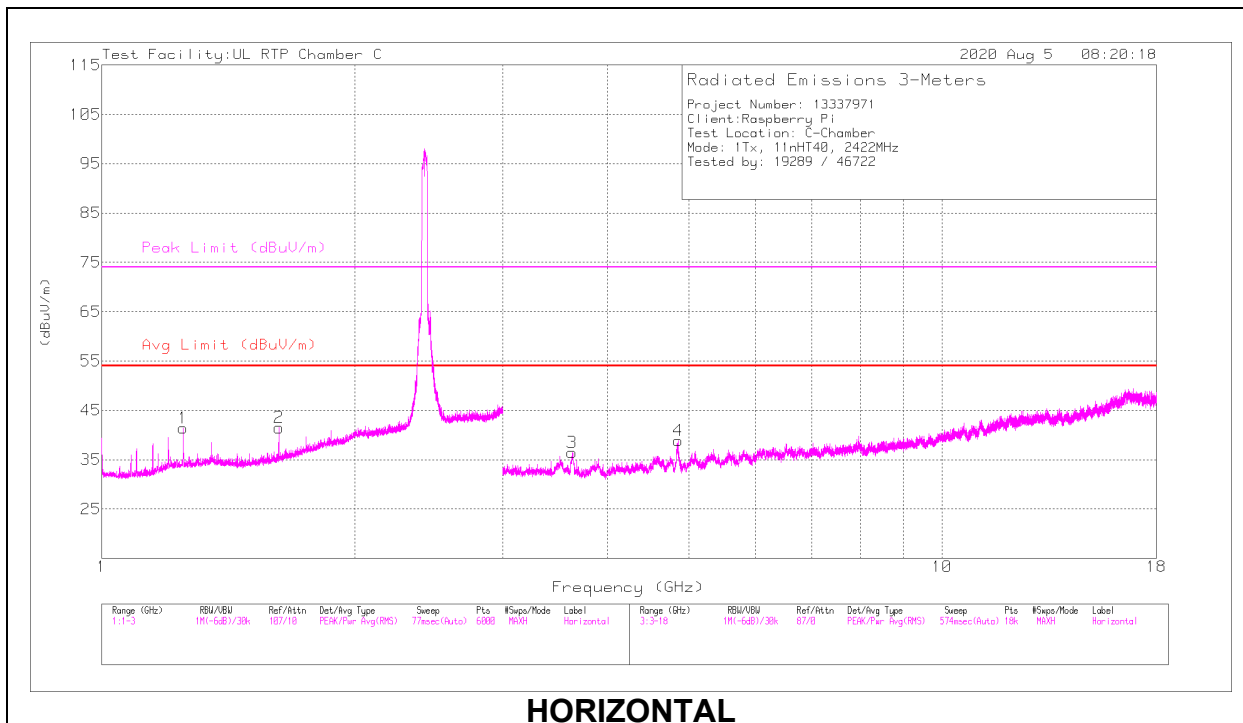
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 3 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* 1.24985	39.15	PK2	28.6	-21.5	0	46.25	-	-	74	-27.75	178	104	H
	* 1.25003	31.95	ADV	28.6	-21.5	.24	39.29	54	-14.71	-	-	178	104	H
2	* ** 1.62478	38.83	PK2	28.5	-20.7	0	46.63	-	-	74	-27.37	219	111	H
	* ** 1.62502	29.84	ADV	28.5	-20.7	.24	37.88	54	-16.12	-	-	219	111	H
5	* 1.24996	37.95	PK2	28.6	-21.5	0	45.05	-	-	74	-28.95	245	105	V
	* 1.25	30.53	ADV	28.6	-21.5	.24	37.87	54	-16.13	-	-	245	105	V
3	* ** 3.62761	58.35	PK2	33.1	-50.1	0	41.35	-	-	74	-32.65	78	102	H
	* ** 3.63017	46.72	ADV	33.1	-50	.24	30.06	54	-23.94	-	-	78	102	H
4	* ** 4.84191	62.34	PK2	34	-49.2	0	47.14	-	-	74	-26.86	111	102	H
	* ** 4.84277	48.35	ADV	34	-49.2	.24	33.39	54	-20.61	-	-	111	102	H
6	* ** 3.62977	58.88	PK2	33.1	-50	0	41.98	-	-	74	-32.02	186	102	V
	* ** 3.62966	46.95	ADV	33.1	-50	.24	30.29	54	-23.71	-	-	186	102	V
7	* ** 4.84185	66.35	PK2	34	-49.2	0	51.15	-	-	74	-22.85	183	102	V
	* ** 4.84374	52.7	ADV	34	-49.2	.24	37.74	54	-16.26	-	-	183	102	V

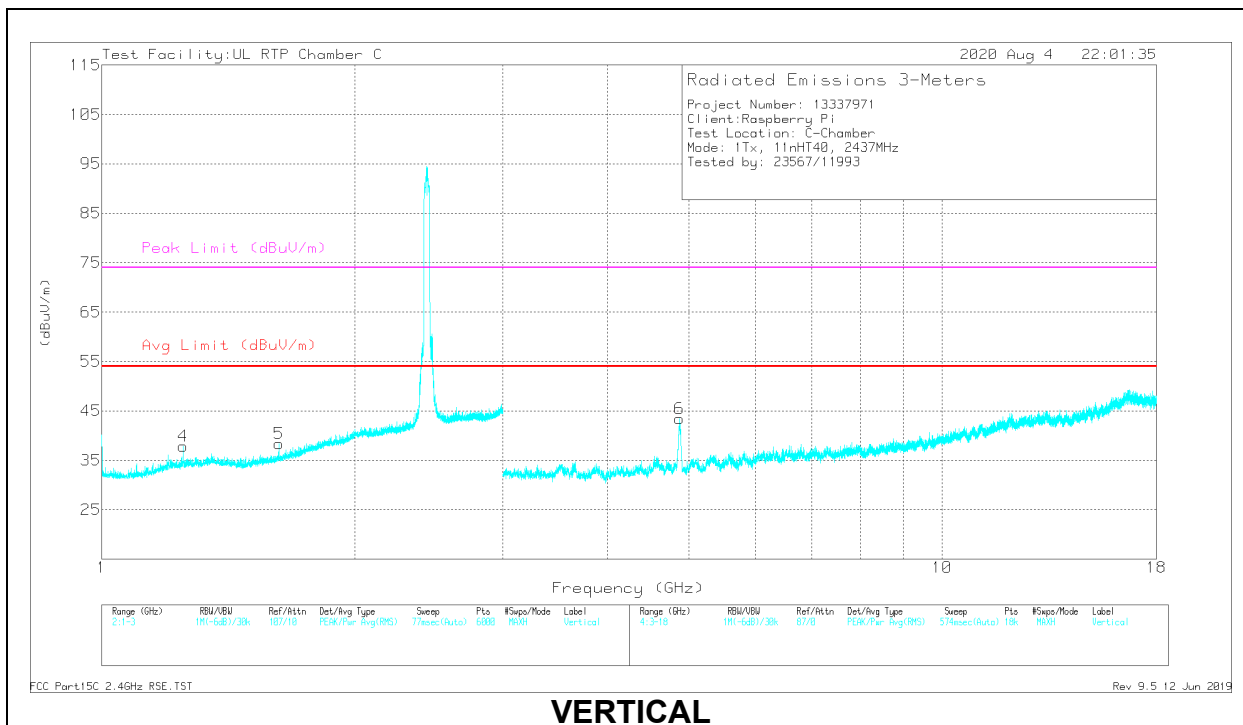
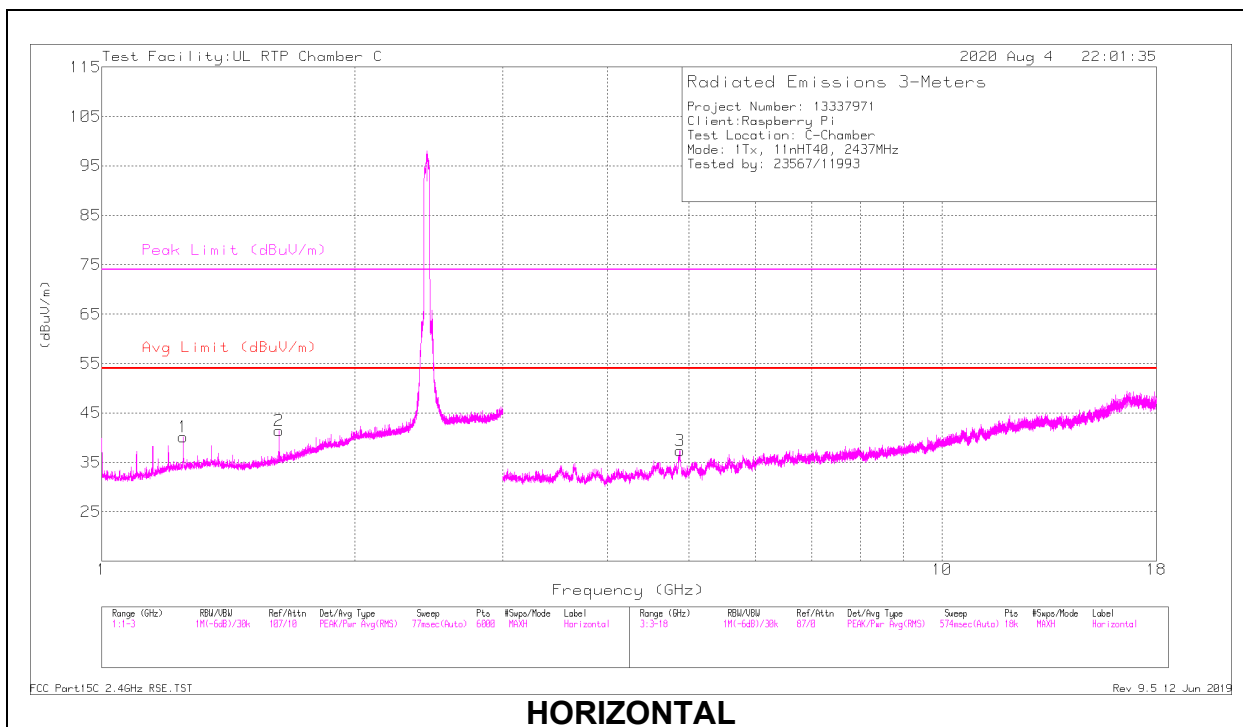
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* 1.2498	37.69	PK2	28.6	-21.5	0	44.79	-	-	74	-29.21	177	102	H
	* 1.25	30.44	ADV	28.6	-21.5	.24	37.78	54	-16.22	-	-	177	102	H
2	*** 1.62488	38.43	PK2	28.5	-20.7	0	46.23	-	-	74	-27.77	218	223	H
	*** 1.62488	31.28	ADV	28.5	-20.7	.24	39.32	54	-14.68	-	-	218	223	H
4	* 1.25013	37.08	PK2	28.6	-21.5	0	44.18	-	-	74	-29.82	249	102	V
	* 1.25	28.29	ADV	28.6	-21.5	.24	35.63	54	-18.37	-	-	249	102	V
5	*** 1.62563	35.2	PK2	28.5	-20.7	0	43	-	-	74	-31	157	102	V
	*** 1.62488	25.27	ADV	28.5	-20.7	.24	33.31	54	-20.69	-	-	157	102	V
3	*** 4.87521	60.8	PK2	34	-48.9	0	45.9	-	-	74	-28.1	112	102	H
	*** 4.87425	46.92	ADV	34	-48.9	.24	32.26	54	-21.74	-	-	112	102	H
6	*** 4.873	65.46	PK2	34	-48.9	0	50.56	-	-	74	-23.44	188	159	V
	*** 4.87369	52.05	ADV	34	-48.9	.24	37.39	54	-16.61	-	-	188	159	V

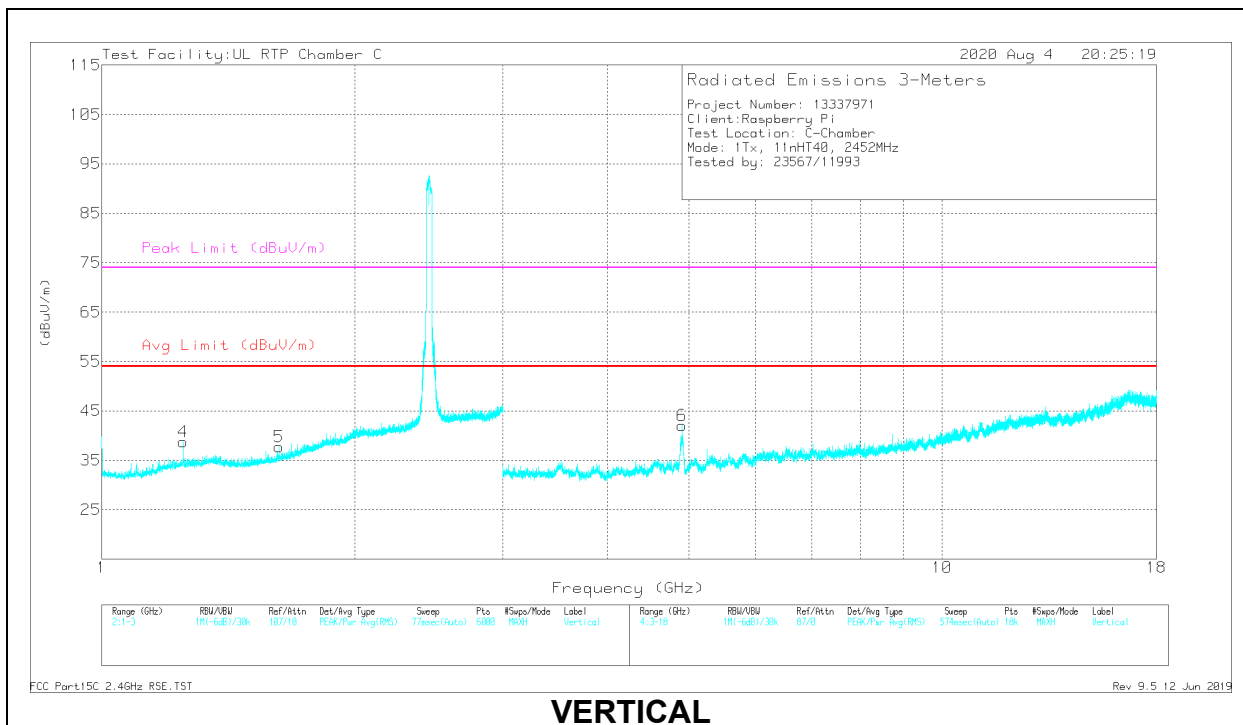
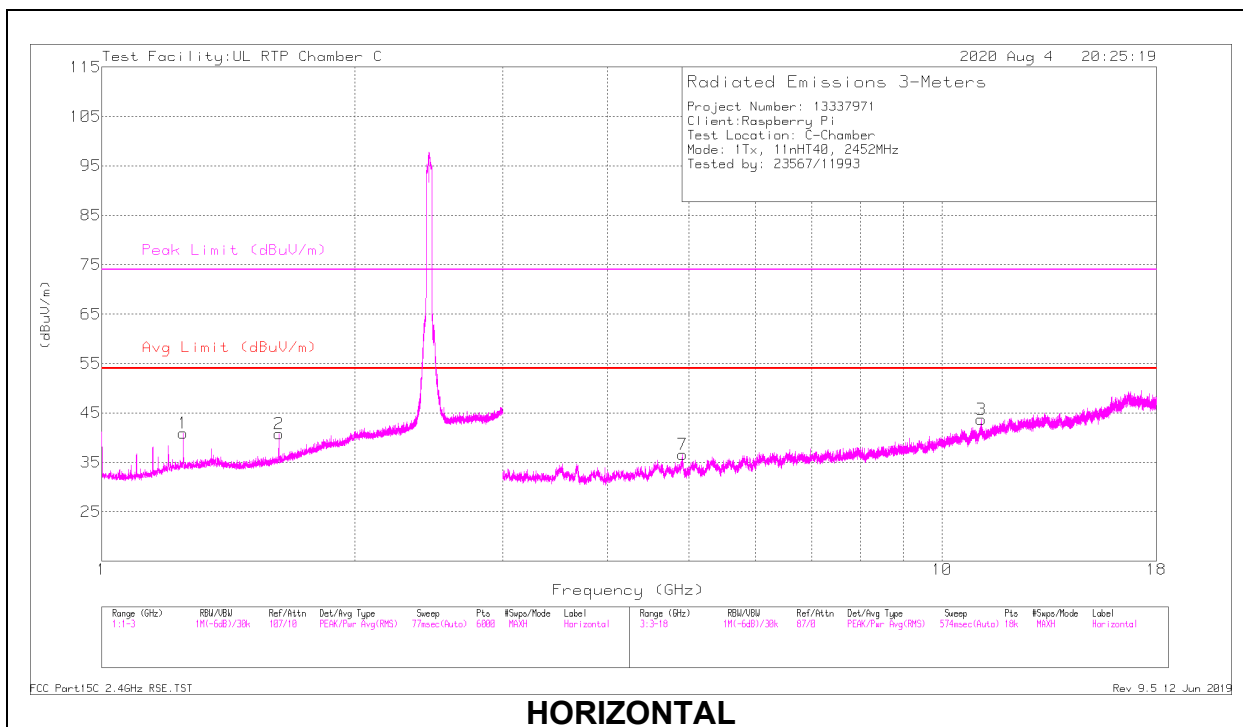
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 9 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fitr/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	* 1.25003	38.27	PK2	28.6	-21.5	0	45.37	-	-	74	-28.63	172	103	H
	* 1.24999	30.62	ADV	28.6	-21.5	.24	37.96	54	-16.04	-	-	172	103	H
2	*** 1.62563	37.35	PK2	28.5	-20.7	0	45.15	-	-	74	-28.85	213	102	H
	*** 1.62488	29.68	ADV	28.5	-20.7	.24	37.72	54	-16.28	-	-	213	102	H
4	* 1.24975	36.82	PK2	28.6	-21.5	0	43.92	-	-	74	-30.08	243	102	V
	* 1.25003	27.69	ADV	28.6	-21.5	.24	35.03	54	-18.97	-	-	243	102	V
5	*** 1.62713	35.07	PK2	28.5	-20.7	0	42.87	-	-	74	-31.13	170	102	V
	*** 1.62488	24.59	ADV	28.5	-20.7	.24	32.63	54	-21.37	-	-	170	102	V
3	*** 11.13781	53.43	PK2	37.8	-41.4	0	49.83	-	-	74	-24.17	76	158	H
	*** 11.13721	40.54	ADV	37.8	-41.4	.24	37.18	54	-16.82	-	-	76	158	H
7	*** 4.91284	58.9	PK2	34	-48.9	0	44	-	-	74	-30	120	102	H
	*** 4.91248	45.72	ADV	34	-48.9	.24	31.06	54	-22.94	-	-	120	102	H
6	*** 4.90525	65.42	PK2	34	-49	0	50.42	-	-	74	-23.58	187	261	V
	*** 4.90418	51.96	ADV	34	-49.1	.24	37.1	54	-16.9	-	-	187	261	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

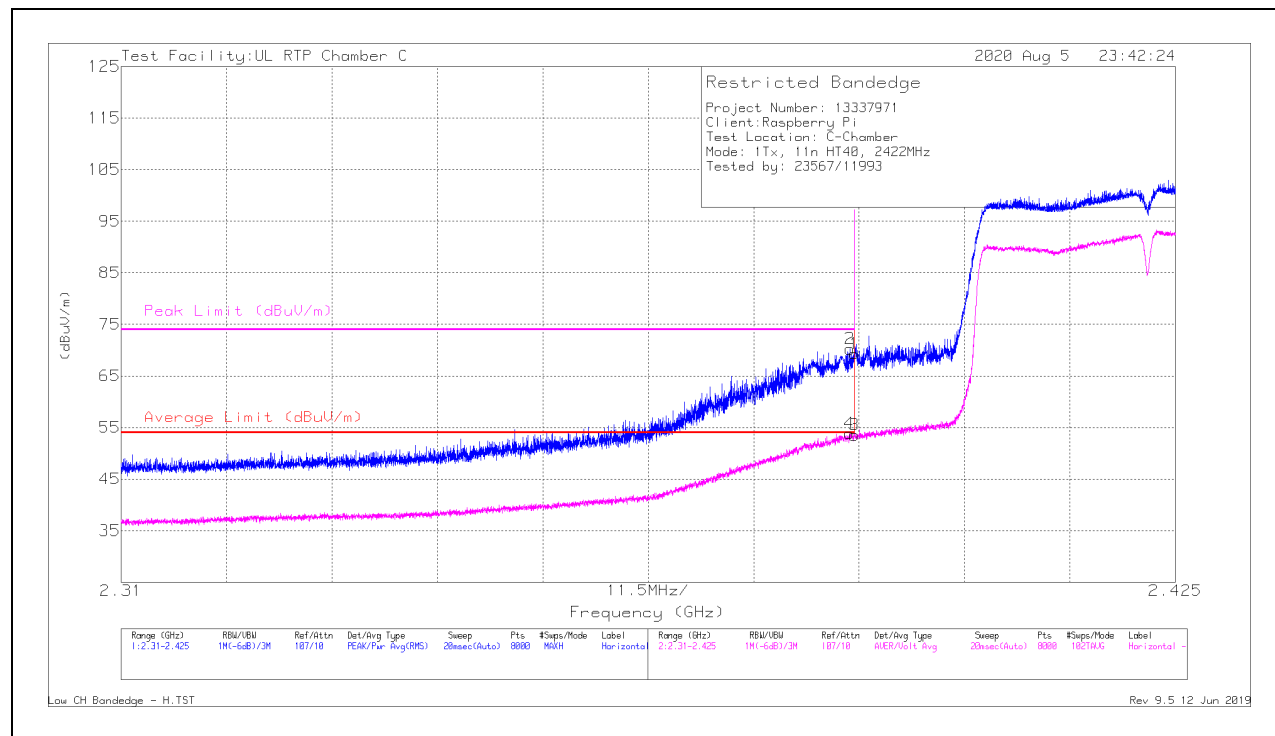
PK2 - Maximum Peak

ADV - Linear Voltage Average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 3)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* ** 2.38999	56.49	Pk	32.1	-19.3	0	69.29	-	-	74	-4.71	226	115	H
2	* ** 2.38953	57.55	Pk	32	-19.3	0	70.25	-	-	74	-3.75	226	115	H
3	* ** 2.38999	40.52	ADV	32.1	-19.3	.24	53.56	54	-.44	-	-	226	115	H
4	* ** 2.38943	40.89	ADV	32	-19.3	.24	53.83	54	-.17	-	-	226	115	H

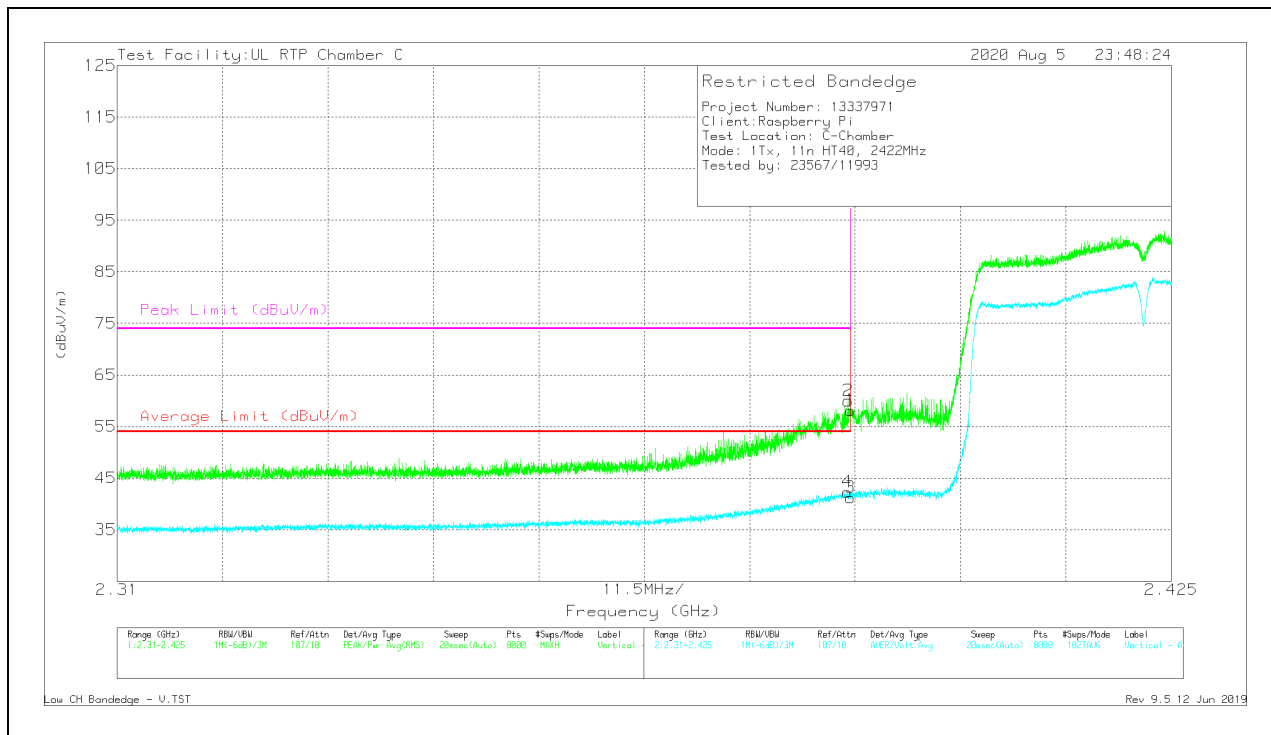
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	*** 2.38999	45.36	Pk	32.1	-19.3	0	58.16	-	-	74	-15.84	229	129	V
2	*** 2.38975	47.21	Pk	32.1	-19.3	0	60.01	-	-	74	-13.99	229	129	V
3	*** 2.38999	28.2	ADV	32.1	-19.3	.24	41.24	54	-12.76	-	-	229	129	V
4	*** 2.38966	29.28	ADV	32.1	-19.3	.24	42.32	54	-11.68	-	-	229	129	V

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

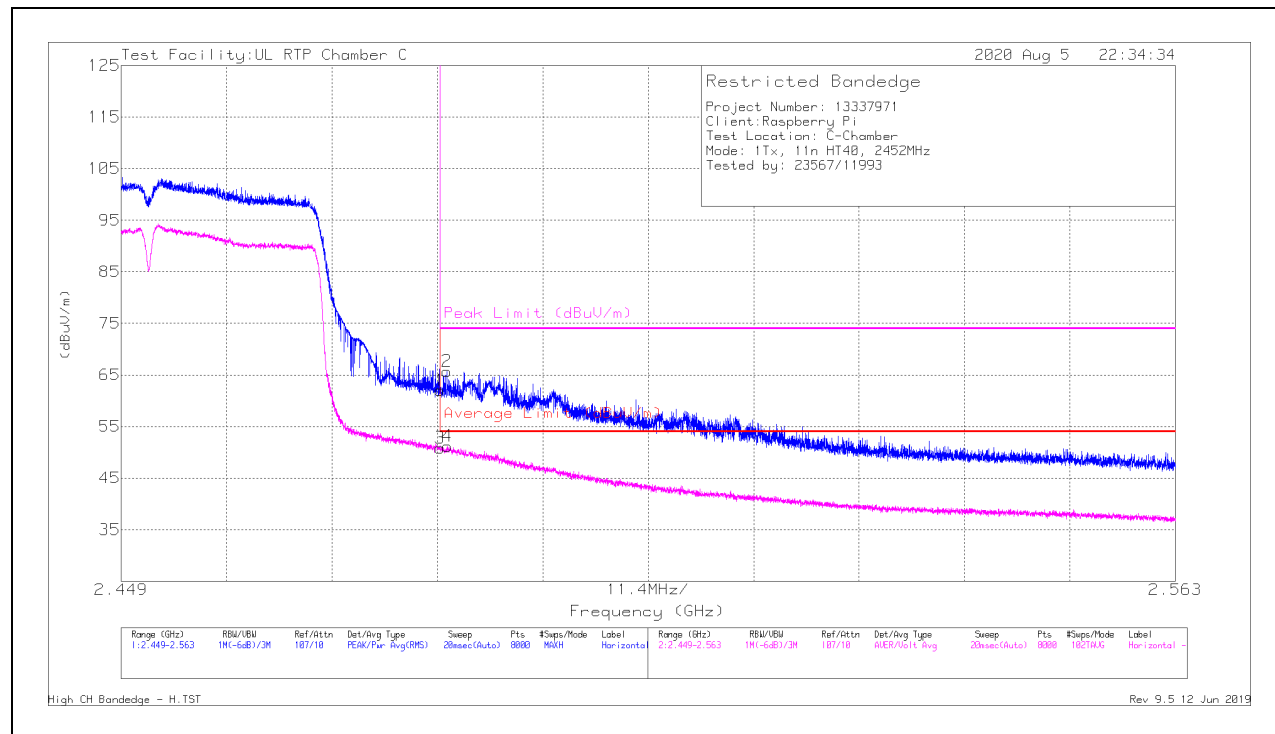
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, CH 9)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	48.59	Pk	32.6	-19.2	0	61.99	-	-	74	-12.01	225	110	H
2	* ** 2.48422	52.3	Pk	32.6	-19.2	0	65.7	-	-	74	-8.3	225	110	H
3	* ** 2.4835	37.18	ADV	32.6	-19.2	.24	50.82	54	-3.18	-	-	225	110	H
4	* ** 2.48427	37.54	ADV	32.6	-19.2	.24	51.18	54	-2.82	-	-	225	110	H

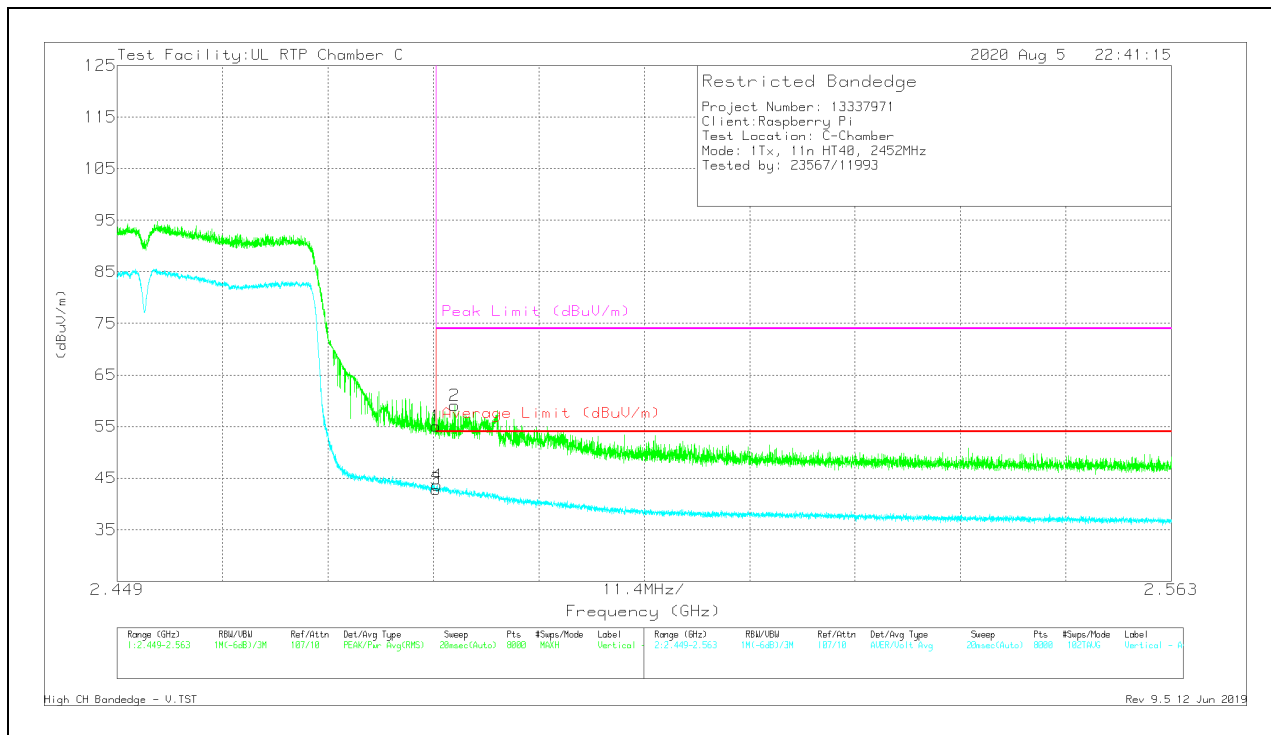
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Ftr/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	41.65	Pk	32.6	-19.2	0	55.05	-	-	74	-18.95	224	111	V
2	* ** 2.48549	45.66	Pk	32.6	-19.2	0	59.06	-	-	74	-14.94	224	111	V
3	* ** 2.4835	29.18	ADV	32.6	-19.2	.24	42.82	54	-11.18	-	-	224	111	V
4	* ** 2.48359	29.96	ADV	32.6	-19.2	.24	43.6	54	-10.4	-	-	224	111	V

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

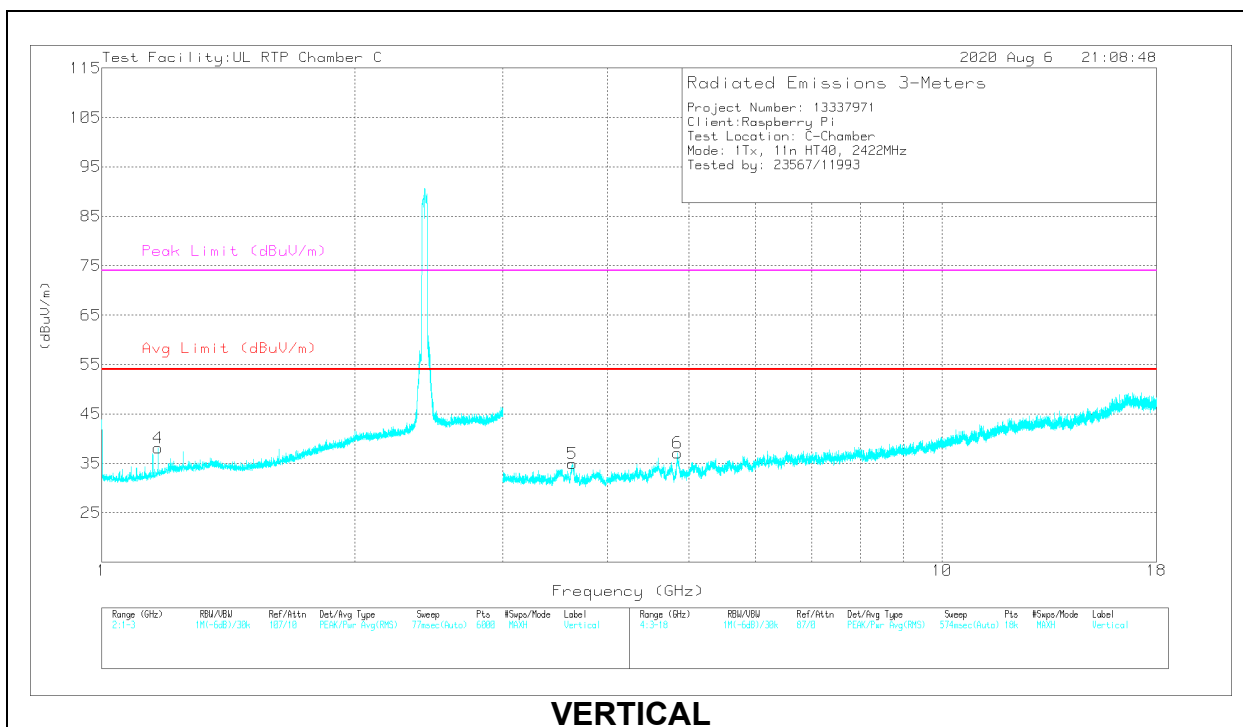
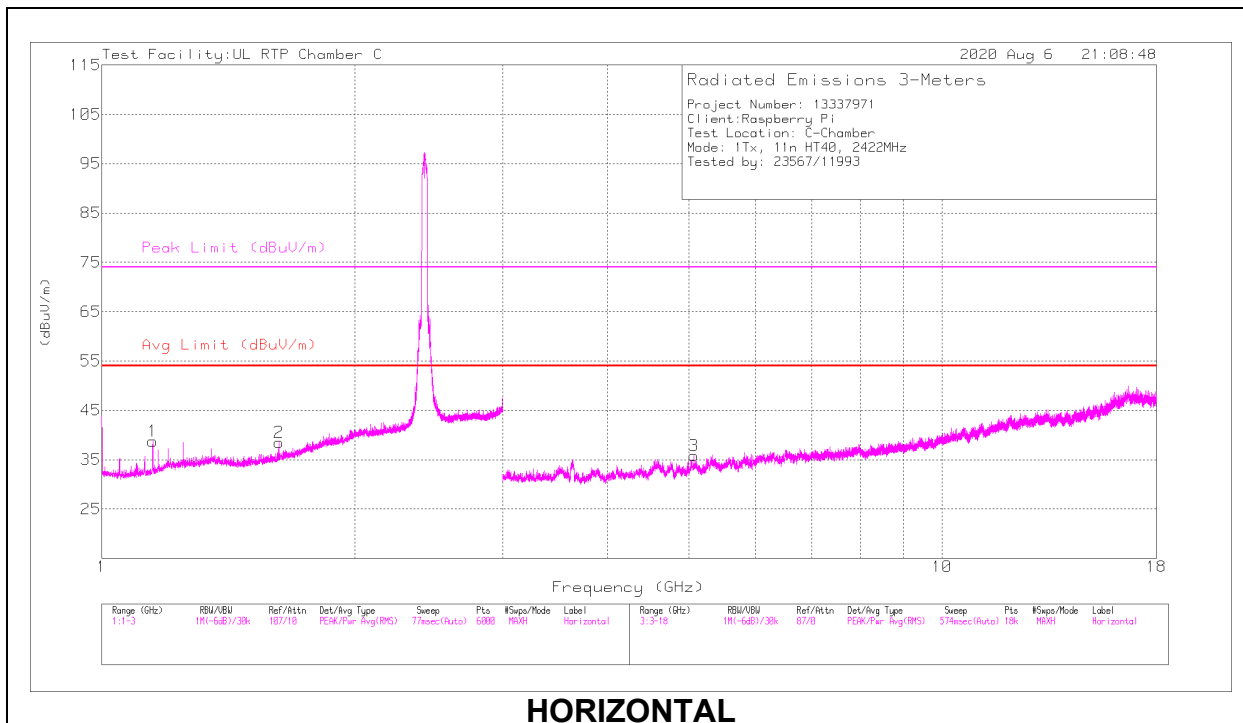
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 3 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* ** 1.15009	38.02	PK2	27.4	-21.7	0	43.72	-	-	74	-30.28	177	199	H
	* ** 1.14998	30.97	ADV	27.4	-21.7	.24	36.91	54	-17.09	-	-	177	199	H
2	* ** 1.62488	36.38	PK2	28.5	-20.7	0	44.18	-	-	74	-29.82	209	112	H
	* ** 1.62488	26.24	ADV	28.5	-20.7	.24	34.28	54	-19.72	-	-	209	112	H
4	* ** 1.16666	37.74	PK2	27.7	-21.6	0	43.84	-	-	74	-30.16	257	231	V
	* ** 1.16672	29.55	ADV	27.7	-21.6	.24	35.89	54	-18.11	-	-	257	231	V
3	* ** 5.07016	55.34	PK2	34.1	-48.4	0	41.04	-	-	74	-32.96	319	102	H
	* ** 5.06907	41.64	ADV	34.1	-48.3	.24	27.68	54	-26.32	-	-	319	102	H
5	* ** 3.6344	61.12	PK2	33.1	-49.9	0	44.32	-	-	74	-29.68	346	264	V
	* ** 3.63405	49.86	ADV	33.1	-49.9	.24	33.3	54	-20.7	-	-	346	264	V
6	* ** 4.84221	59.19	PK2	34	-49.2	0	43.99	-	-	74	-30.01	175	102	V
	* ** 4.84376	45.14	ADV	34	-49.2	.24	30.18	54	-23.82	-	-	175	102	V

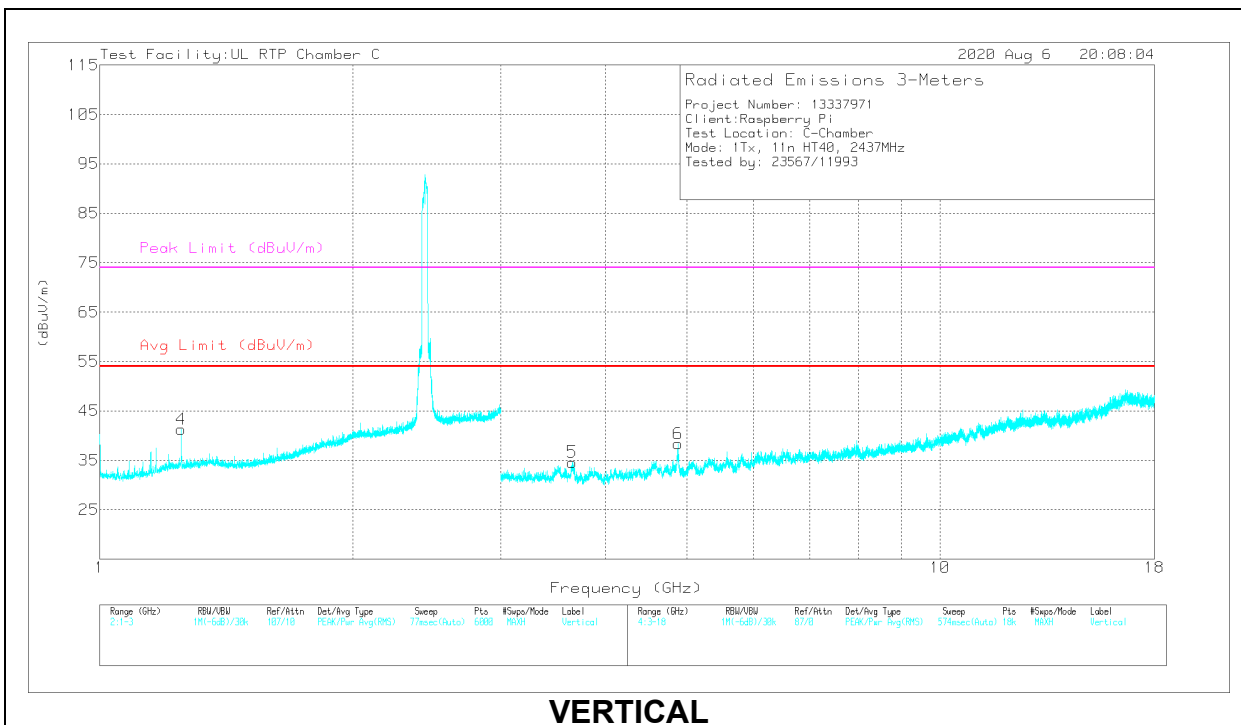
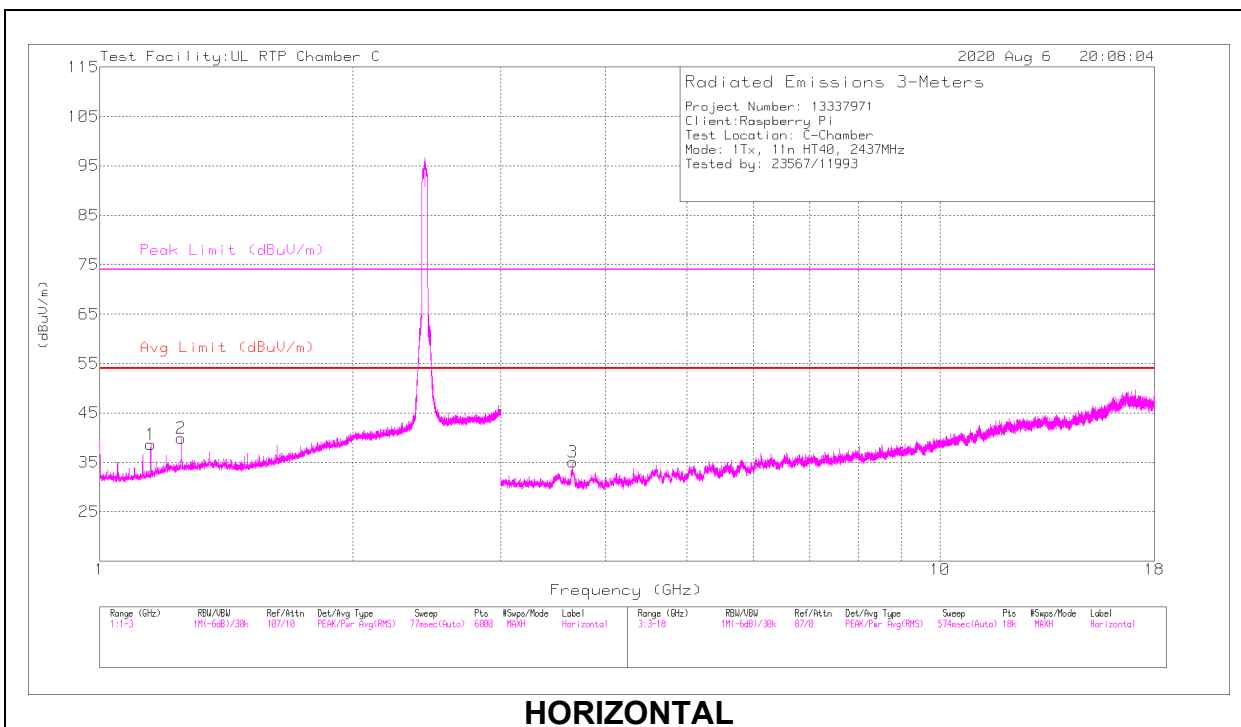
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (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	* ** 1.14997	37.92	PK2	27.4	-21.7	0	43.62	-	-	74	-30.38	177	201	H
	* ** 1.15003	30.72	ADV	27.4	-21.7	.24	36.66	54	-17.34	-	-	177	201	H
2	* 1.24997	38.41	PK2	28.6	-21.5	0	45.51	-	-	74	-28.49	319	163	H
	* 1.24999	31.08	ADV	28.6	-21.5	.24	38.42	54	-15.58	-	-	319	163	H
4	* 1.25037	38.97	PK2	28.6	-21.5	0	46.07	-	-	74	-27.93	239	102	V
	* 1.25009	32.37	ADV	28.6	-21.5	.24	39.71	54	-14.29	-	-	239	102	V
3	* ** 3.65416	58.02	PK2	33.1	-49.8	0	41.32	-	-	74	-32.68	81	102	H
	* ** 3.65447	46.31	ADV	33.1	-49.8	.24	29.85	54	-24.15	-	-	81	102	H
5	* ** 3.65006	56.26	PK2	33.1	-49.9	0	39.46	-	-	74	-34.54	356	102	V
	* ** 3.64911	43.5	ADV	33.1	-49.8	.24	27.04	54	-26.96	-	-	356	102	V
6	* ** 4.87438	58.24	PK2	34	-48.9	0	43.34	-	-	74	-30.66	175	102	V
	* ** 4.87417	45.47	ADV	34	-48.9	.24	30.81	54	-23.19	-	-	175	102	V

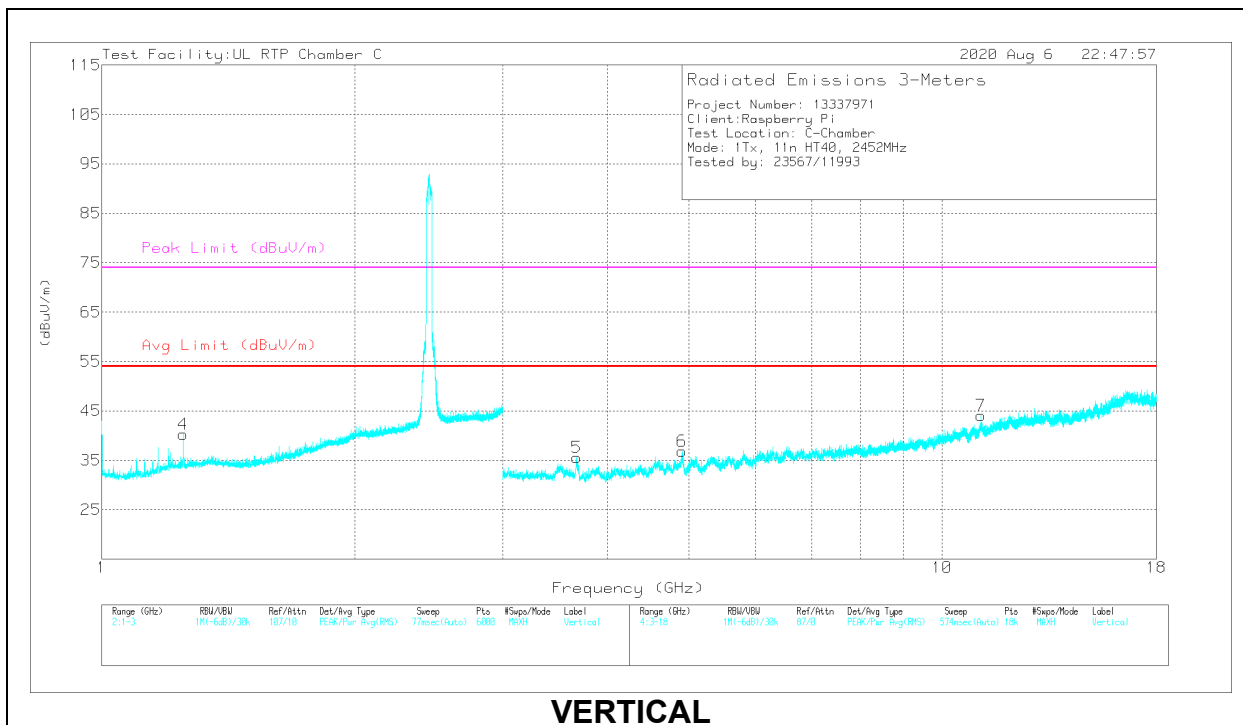
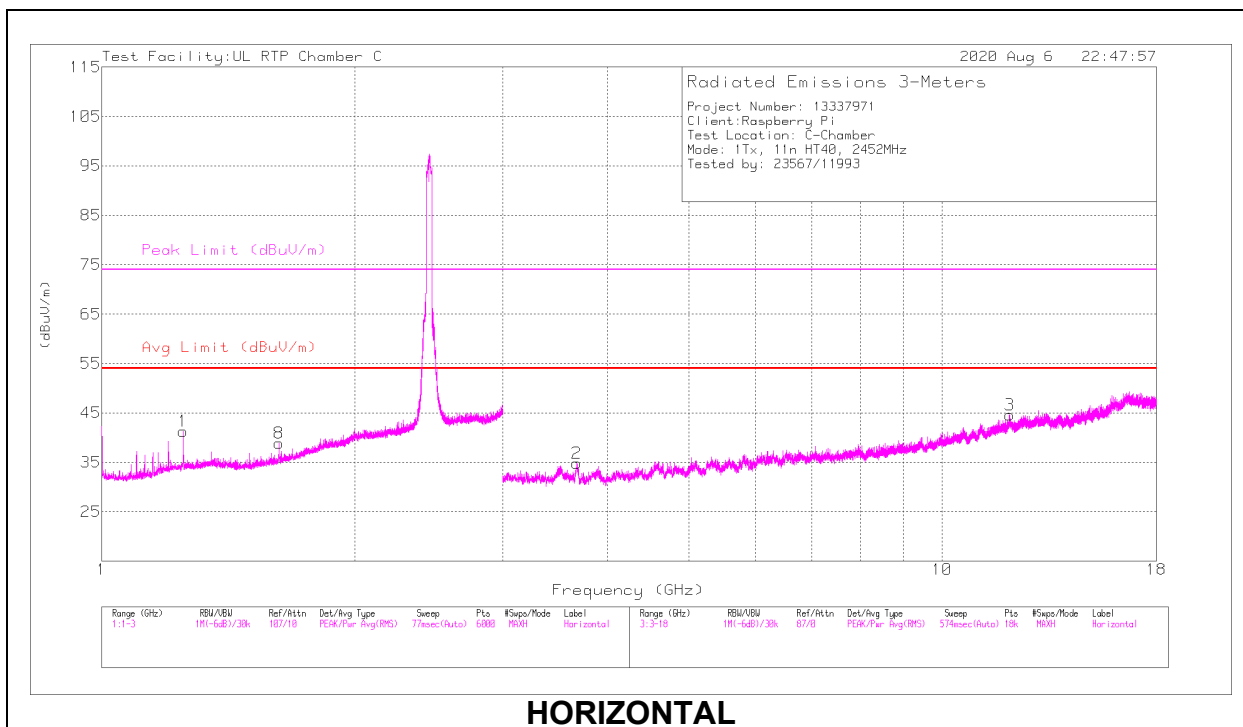
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL, CH 9 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fitr/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	* 1.24997	37.92	PK2	28.6	-21.5	0	45.02	-	-	74	-28.98	16	103	H
	* 1.24999	30.68	ADV	28.6	-21.5	.24	38.02	54	-15.98	-	-	16	103	H
8	*** 1.62488	36.32	PK2	28.5	-20.7	0	44.12	-	-	74	-29.88	213	135	H
	*** 1.62488	27.16	ADV	28.5	-20.7	.24	35.2	54	-18.8	-	-	213	135	H
4	* 1.25025	38.1	PK2	28.6	-21.5	0	45.2	-	-	74	-28.8	187	195	V
	* 1.25004	30.04	ADV	28.6	-21.5	.24	37.38	54	-16.62	-	-	187	195	V
2	*** 3.67621	58.34	PK2	33.2	-49.6	0	41.94	-	-	74	-32.06	76	102	H
	*** 3.67688	46.16	ADV	33.2	-49.6	.24	30	54	-24	-	-	76	102	H
3	*** 12.04273	51.9	PK2	38.8	-39.4	0	51.3	-	-	74	-22.7	156	202	H
	*** 12.04397	38.2	ADV	38.8	-39.4	.24	37.84	54	-16.16	-	-	156	202	H
5	*** 3.67676	59.2	PK2	33.2	-49.6	0	42.8	-	-	74	-31.2	354	103	V
	*** 3.67678	46.63	ADV	33.2	-49.6	.24	30.47	54	-23.53	-	-	354	103	V
6	*** 4.90494	58.88	PK2	34	-49	0	43.88	-	-	74	-30.12	224	102	V
	*** 4.9042	45.74	ADV	34	-49.1	.24	30.88	54	-23.12	-	-	224	102	V
7	*** 11.13308	52.83	PK2	37.8	-41.4	0	49.23	-	-	74	-24.77	308	231	V
	*** 11.13275	39.91	ADV	37.8	-41.4	.24	36.55	54	-17.45	-	-	308	231	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

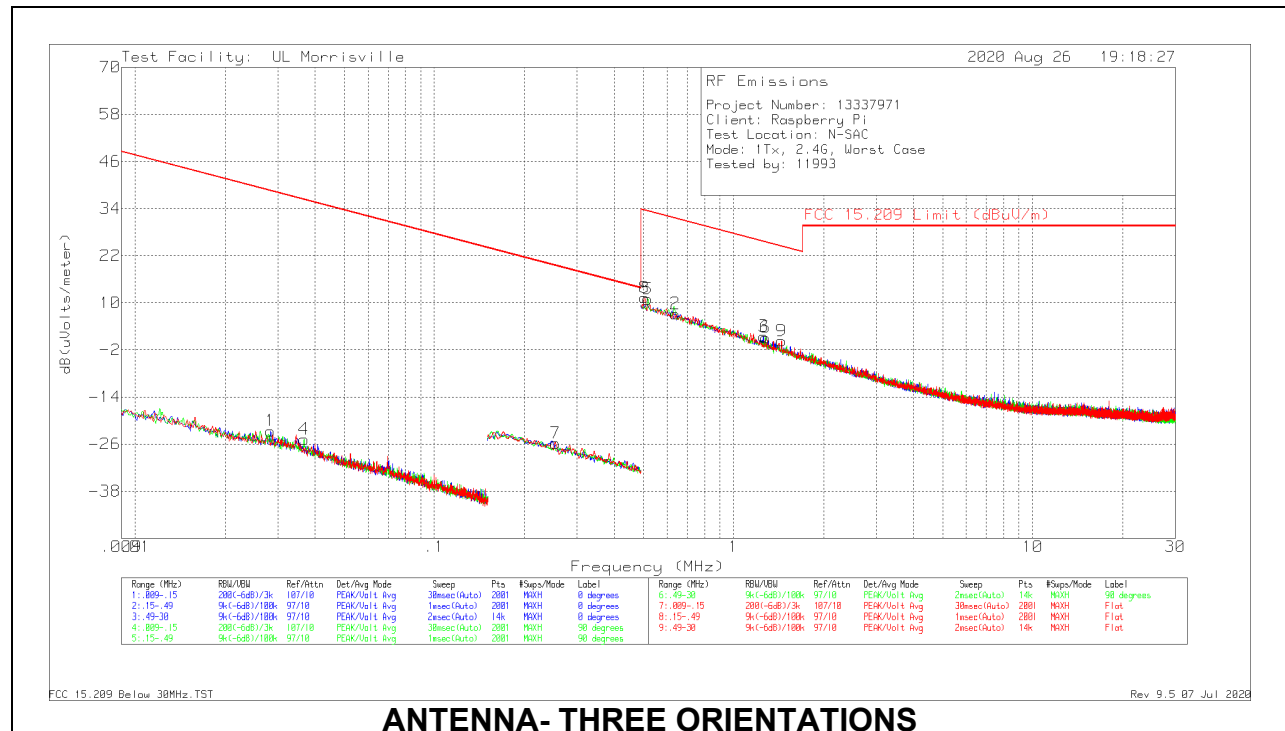
ADV - Linear Voltage Average

9.2. WORST CASE BELOW 30MHZ

Note: 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 $40 \cdot \log(\text{test distance} / \text{specification distance})$.

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 151.02 kHz resulted in a level of -22.44 dBuV/m, which is equivalent to $-22.44 - 51.5 = -73.94$ dBuA/m, which has the same margin, -46.46 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 1

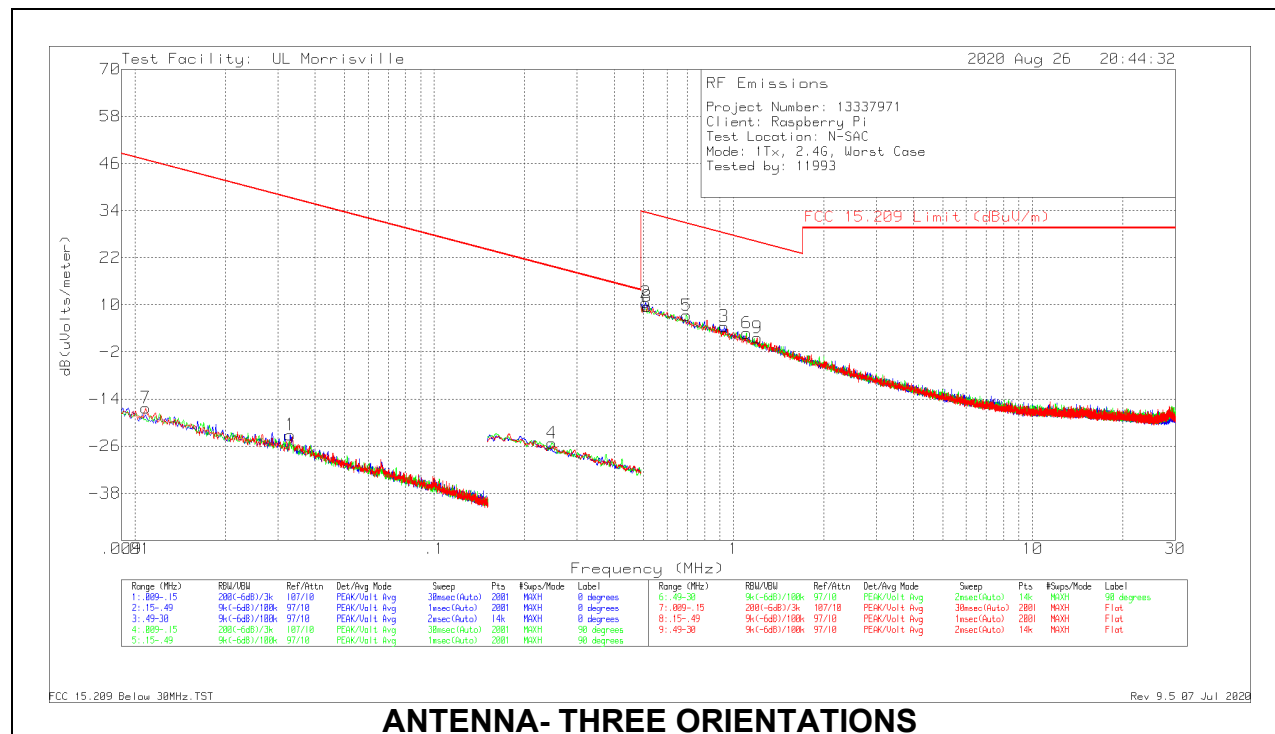


Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0059 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.02838	43.78	Pk	13.5	.1	-80	-22.62	38.54	-61.16	0-360	On
2	.63967	36.63	Pk	10.4	.2	-40	7.23	31.48	-24.25	0-360	On
3	1.25942	30.68	Pk	10.6	.2	-40	1.48	25.6	-24.12	0-360	On
4	.03669	42.56	Pk	12.6	.1	-80	-24.74	36.31	-61.05	0-360	Off
5	.5174	40.34	Pk	10.4	.2	-40	10.94	33.33	-22.39	0-360	Off
6	1.27839	30.38	Pk	10.6	.2	-40	1.18	25.47	-24.29	0-360	Off
7	.25472	43.89	Pk	10.2	.1	-80	-25.81	19.48	-45.29	0-360	Flat
8	.50476	40.7	Pk	10.4	.2	-40	11.3	33.54	-22.24	0-360	Flat
9	1.44703	29.45	Pk	10.6	.2	-40	.25	24.39	-24.14	0-360	Flat

Pk - Peak detector

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION) – Antenna 2



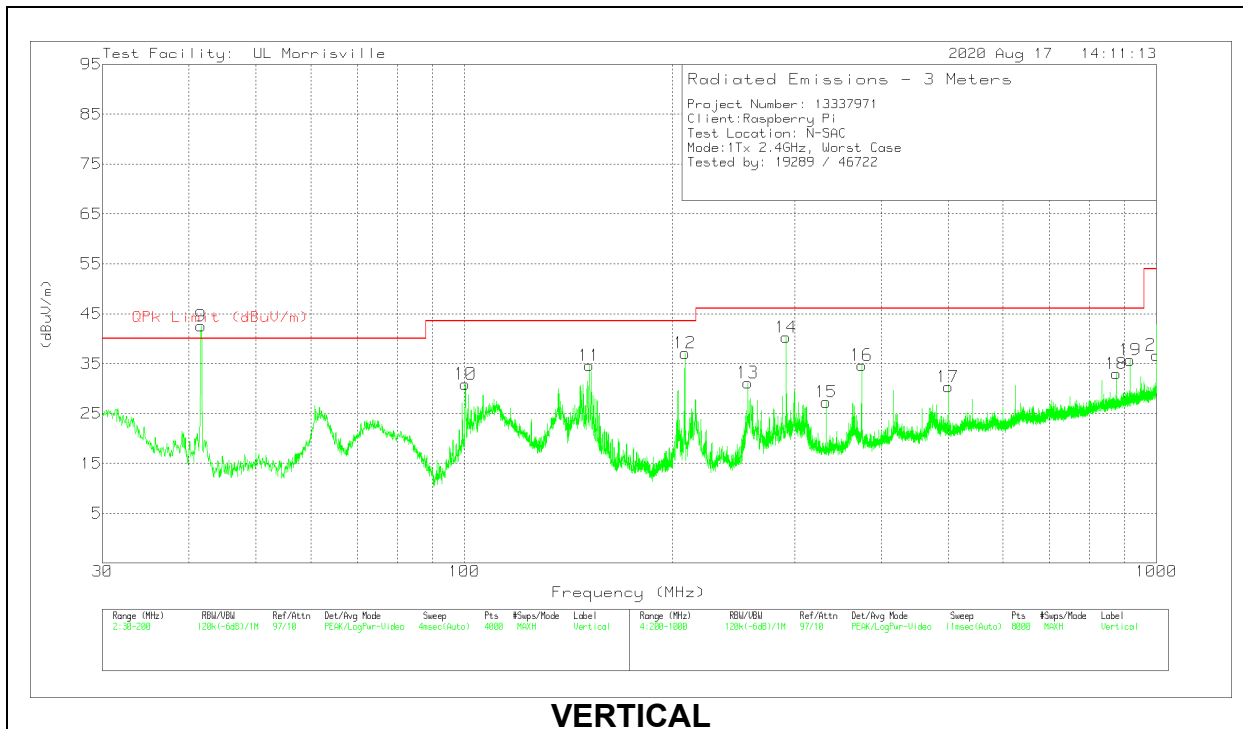
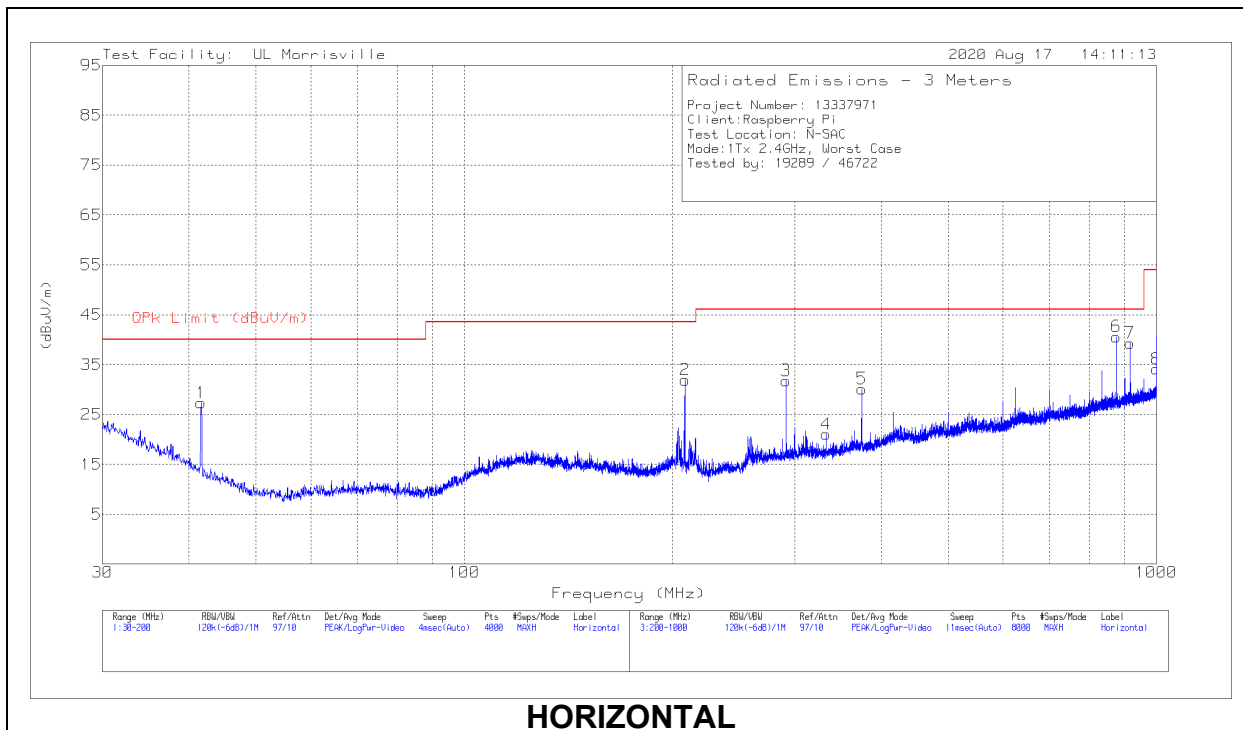
Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0059 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	AntennaFace
1	.033	43.77	Pk	13	.1	-80	-23.13	37.23	-60.36	0-360	On
2	.50897	39.98	Pk	10.4	.2	-40	10.58	33.47	-22.89	0-360	On
3	.93268	33.8	Pk	10.5	.2	-40	4.5	28.21	-23.71	0-360	On
4	.24673	44.39	Pk	10.3	.1	-80	-25.21	19.76	-44.97	0-360	Off
5	.69658	36.83	Pk	10.3	.2	-40	7.33	30.74	-23.41	0-360	Off
6	1.10554	31.99	Pk	10.6	.2	-40	2.79	26.73	-23.94	0-360	Off
7	.01085	45.14	Pk	18.5	.1	-80	-16.26	46.9	-63.16	0-360	Flat
8	.5153	39.01	Pk	10.4	.2	-40	9.61	33.36	-23.75	0-360	Flat
9	1.2004	30.83	Pk	10.6	.2	-40	1.63	26.02	-24.39	0-360	Flat

Pk - Peak detector

9.3. WORST CASE BELOW 1 GHZ

Antenna 1



Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* ** 333.3173	29.37	Pk	20.1	-28.4	21.07	46.02	-24.95	0-360	101	H
6	** 875.0216	34.27	Qp	28.2	-25.1	37.37	46.02	-8.65	192	196	H
8	* ** 999.7039	27.99	Pk	29.6	-23.5	34.09	53.97	-19.88	0-360	101	H
13	* ** 256.8074	42.16	Pk	17.9	-28.9	31.16	46.02	-14.86	0-360	102	V
15	* ** 333.3173	35.6	Pk	20.1	-28.4	27.3	46.02	-18.72	0-360	199	V
17	** 500.039	33.74	Pk	23.8	-27.2	30.34	46.02	-15.68	0-360	102	V
18	** 875.0878	29.87	Pk	28.2	-25.1	32.97	46.02	-13.05	0-360	199	V
20	* ** 999.7039	30.6	Pk	29.6	-23.5	36.7	53.97	-17.27	0-360	102	V
1	41.648	40.27	Pk	18.4	-31.3	27.37	-	-	0-360	199	H
9	41.6729	54.32	Qp	18.4	-31.3	41.42	-	-	143	101	V
10	100.3557	44.92	Pk	16.4	-30.4	30.92	-	-	0-360	101	V
11	151.4964	45.91	Pk	18.6	-29.9	34.61	-	-	0-360	101	V
2	208.3011	44.74	Pk	16.5	-29.3	31.94	-	-	0-360	101	H
12	208.3011	49.89	Pk	16.5	-29.3	37.09	-	-	0-360	102	V
3	291.6119	41.08	Pk	19.4	-28.7	31.78	-	-	0-360	101	H
14	291.6704	45.84	Qp	19.4	-28.7	36.54	-	-	200	183	V
5	375.0228	37.16	Pk	21.1	-28.1	30.16	-	-	0-360	101	H
16	375.0228	41.67	Pk	21.1	-28.1	34.67	-	-	0-360	102	V
7	916.6932	35.23	Pk	28.7	-24.6	39.33	-	-	0-360	101	H
19	916.7932	31.61	Pk	28.7	-24.6	35.71	-	-	0-360	199	V

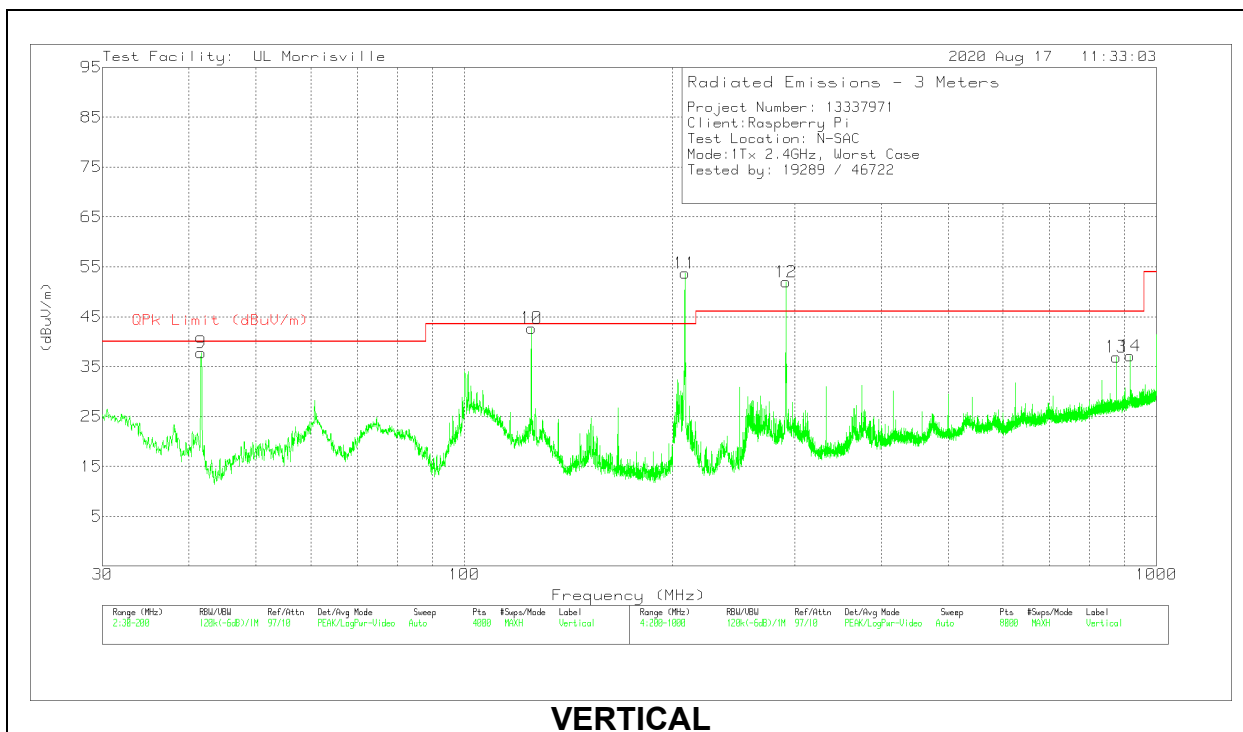
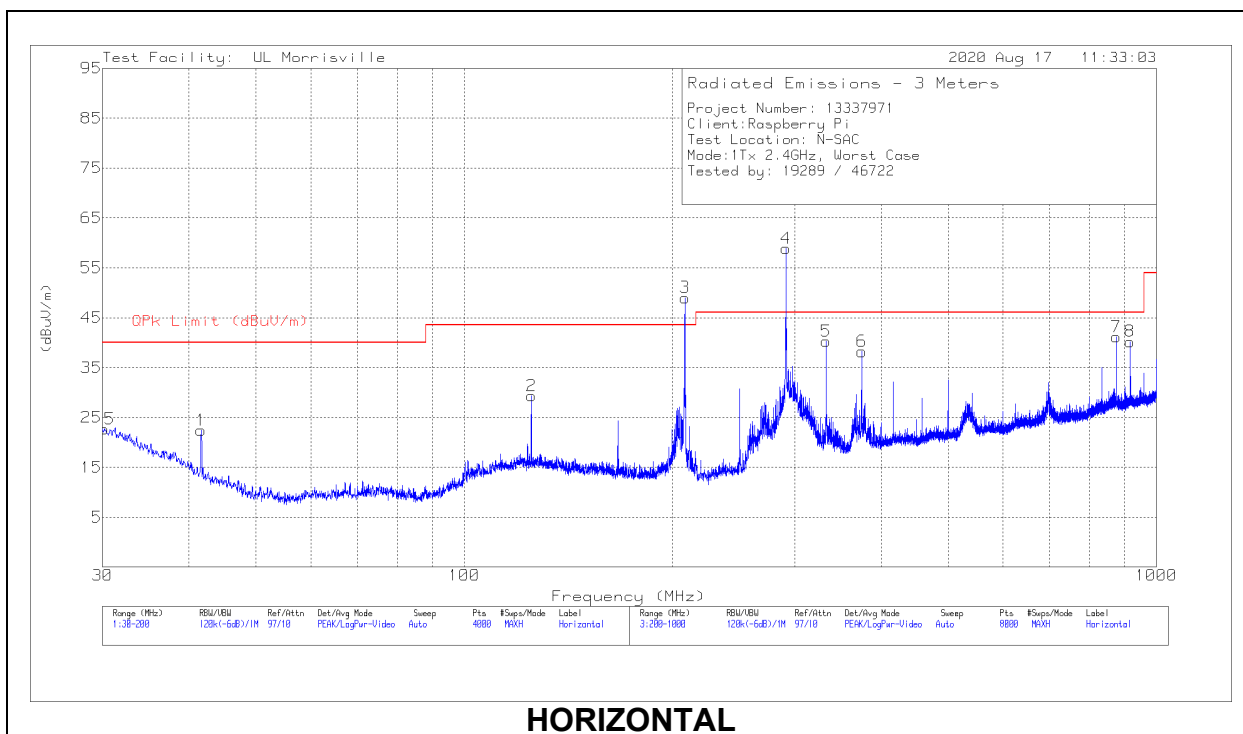
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

Antenna 2



Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* ** 125.0121	39.47	Pk	20	-30.1	29.37	43.52	-14.15	0-360	200	H
10	* ** 125.003	51.1	Qp	20	-30.1	41	43.52	-2.52	221	104	V
5	* ** 333.3451	48.06	Qp	20.1	-28.4	39.76	46.02	-6.26	210	100	H
7	** 875.024	33.36	Qp	28.2	-25.1	36.46	46.02	-9.56	20	181	H
13	** 875.0878	33.85	Pk	28.2	-25.1	36.95	46.02	-9.07	0-360	199	V
15	30.17	27.41	Pk	26.7	-31.4	22.71	-	-	0-360	300	H
1	41.648	35.34	Pk	18.4	-31.3	22.44	-	-	0-360	200	H
9	41.6662	47.99	Qp	18.4	-31.3	35.09	-	-	72	101	V
3	208.3361	61.78	Qp	16.5	-29.3	48.98	-	-	9	116	H
11	208.3342	66.28	Qp	16.5	-29.3	53.48	-	-	268	215	V
4	291.6733	68.13	Qp	19.4	-28.7	58.83	-	-	222	105	H
12	291.6728	62.06	Qp	19.4	-28.7	52.76	-	-	280	157	V
6	375.0228	45.23	Pk	21.1	-28.1	38.23	-	-	0-360	99	H
8	916.6781	35.95	Qp	28.7	-24.6	40.05	-	-	185	162	H
14	916.7932	33.01	Pk	28.7	-24.6	37.11	-	-	0-360	99	V

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

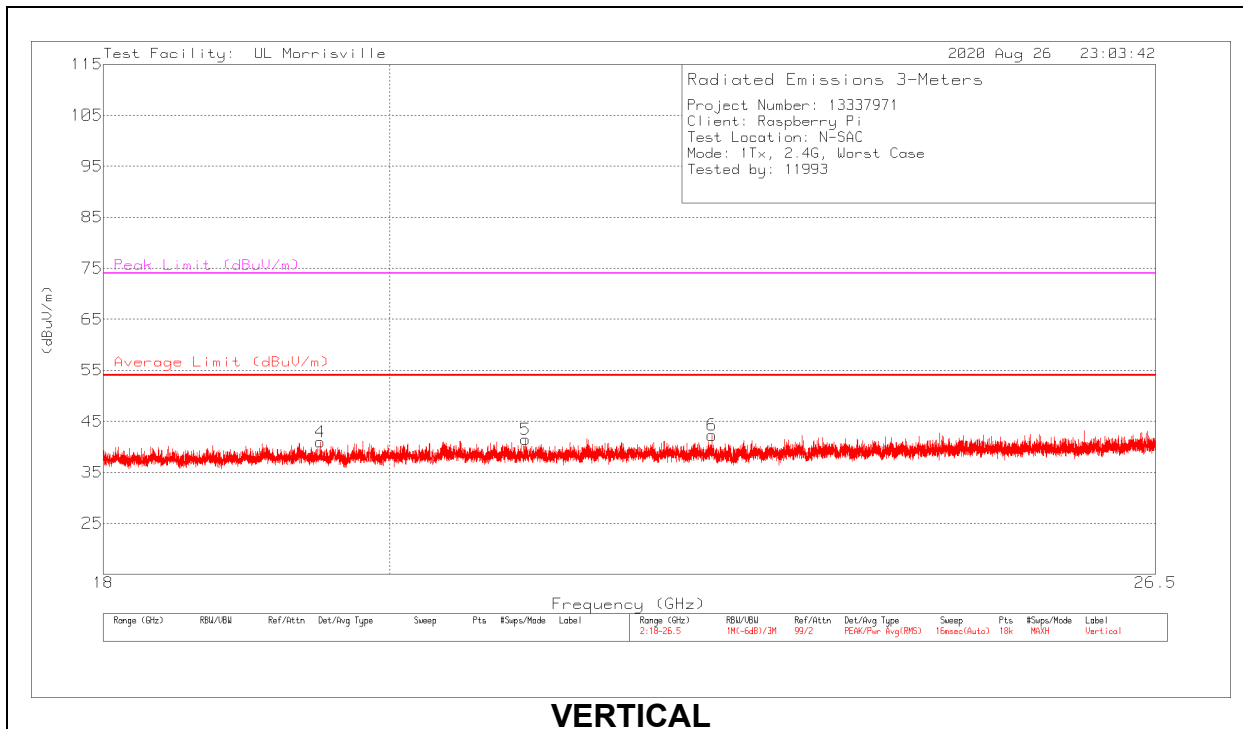
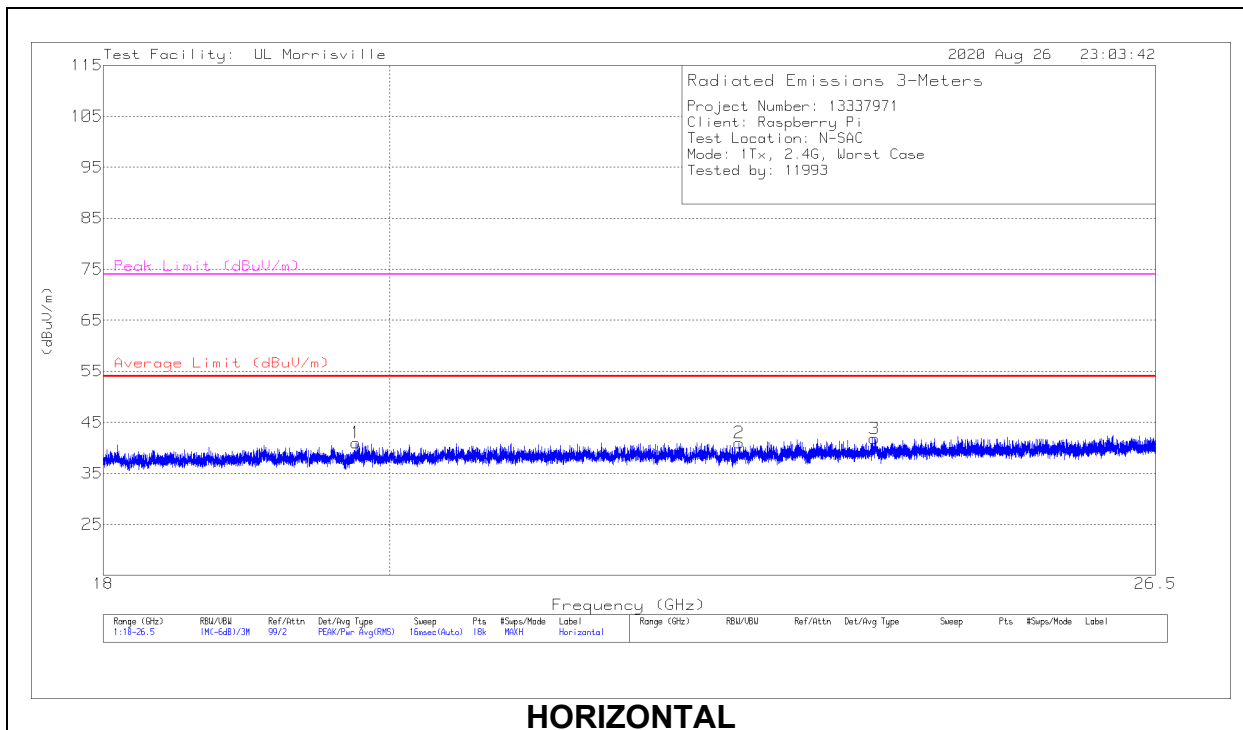
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

9.4. WORST CASE 18-26 GHZ

Antenna 1



18 – 26GHz DATA

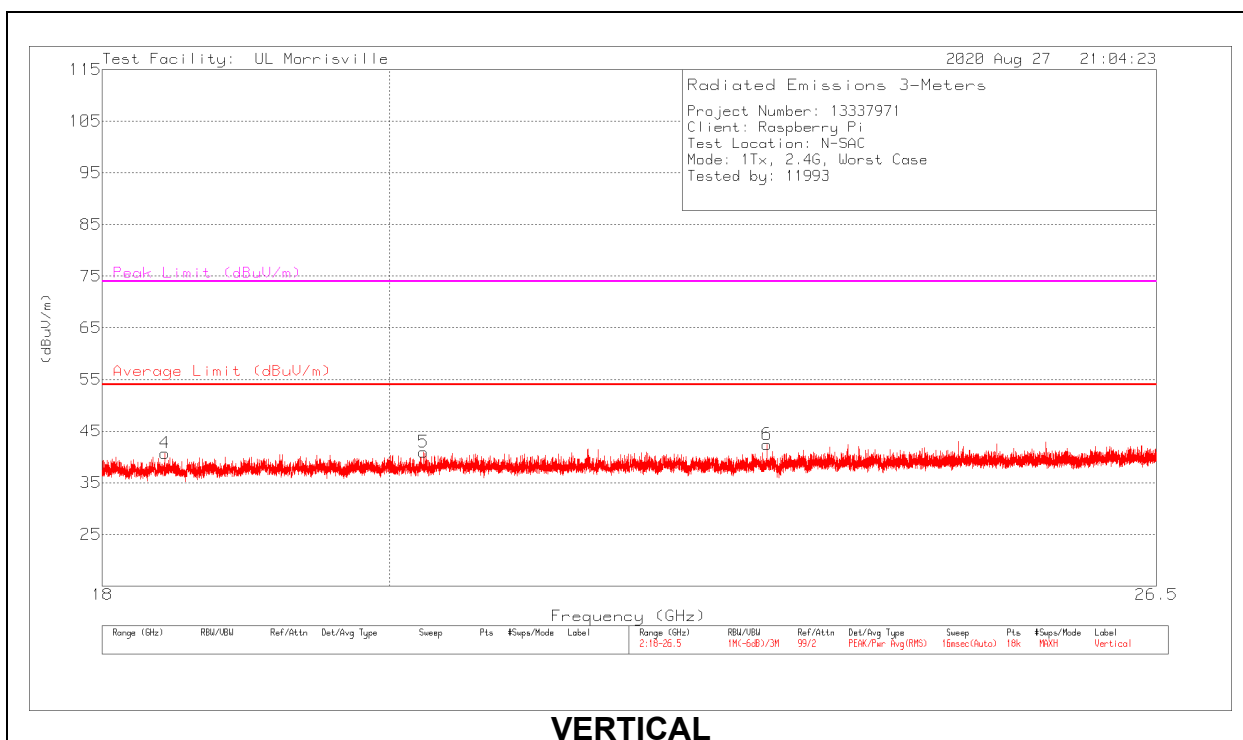
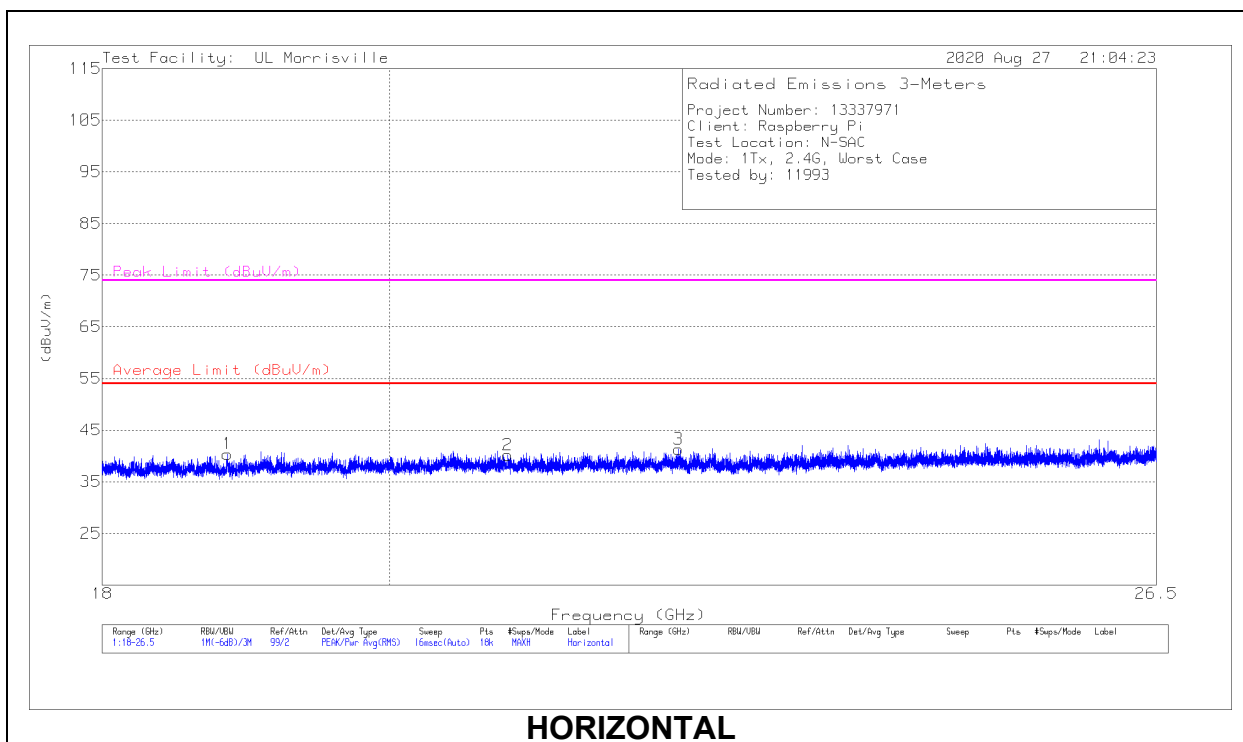
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0076 AF (dB/m)	Amp/CBL (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 19.7511	49	Pk	32.8	-40.8	41	54	-13	74	-33	0-360	200	H
2	* ** 22.73901	48.29	Pk	33.6	-40.9	40.99	54	-13.01	74	-33.01	0-360	300	H
3	* ** 23.89743	48.32	Pk	34.1	-40.6	41.82	54	-12.18	74	-32.18	0-360	101	H
4	* ** 19.49561	49.04	Pk	32.7	-40.8	40.94	54	-13.06	74	-33.06	0-360	251	V
5	* ** 21.02192	48.82	Pk	33.3	-40.7	41.42	54	-12.58	74	-32.58	0-360	101	V
6	* ** 22.51375	49.66	Pk	33.6	-41	42.26	54	-11.74	74	-31.74	0-360	300	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Antenna 2



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	* ** 18.84627	48.18	Pk	32.6	-40.4	40.38	54	-13.62	74	-33.62	0-360	299	H
2	* ** 20.88827	47.86	Pk	33.2	-40.9	40.16	54	-13.84	74	-33.84	0-360	101	H
3	* ** 22.23937	48.71	Pk	33.6	-41	41.31	54	-12.69	74	-32.69	0-360	249	H
4	* ** 18.41841	48.64	Pk	32.5	-40.4	40.74	54	-13.26	74	-33.26	0-360	150	V
5	* ** 20.25121	48.86	Pk	33	-40.9	40.96	54	-13.04	74	-33.04	0-360	200	V
6	* ** 22.9723	49.42	Pk	33.8	-40.8	42.42	54	-11.58	74	-31.58	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. 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.

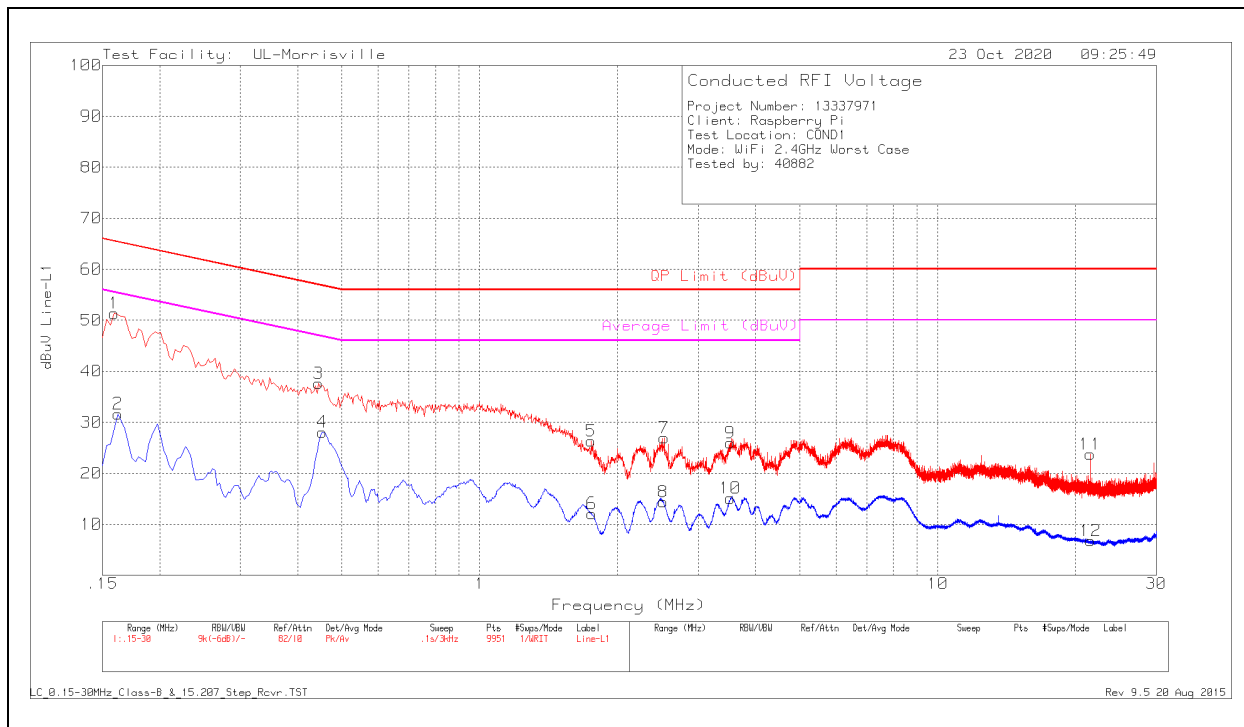
TEST PROCEDURE

ANSI C63.10

RESULTS

10.1. ANTENNA 1

LINE 1 RESULTS

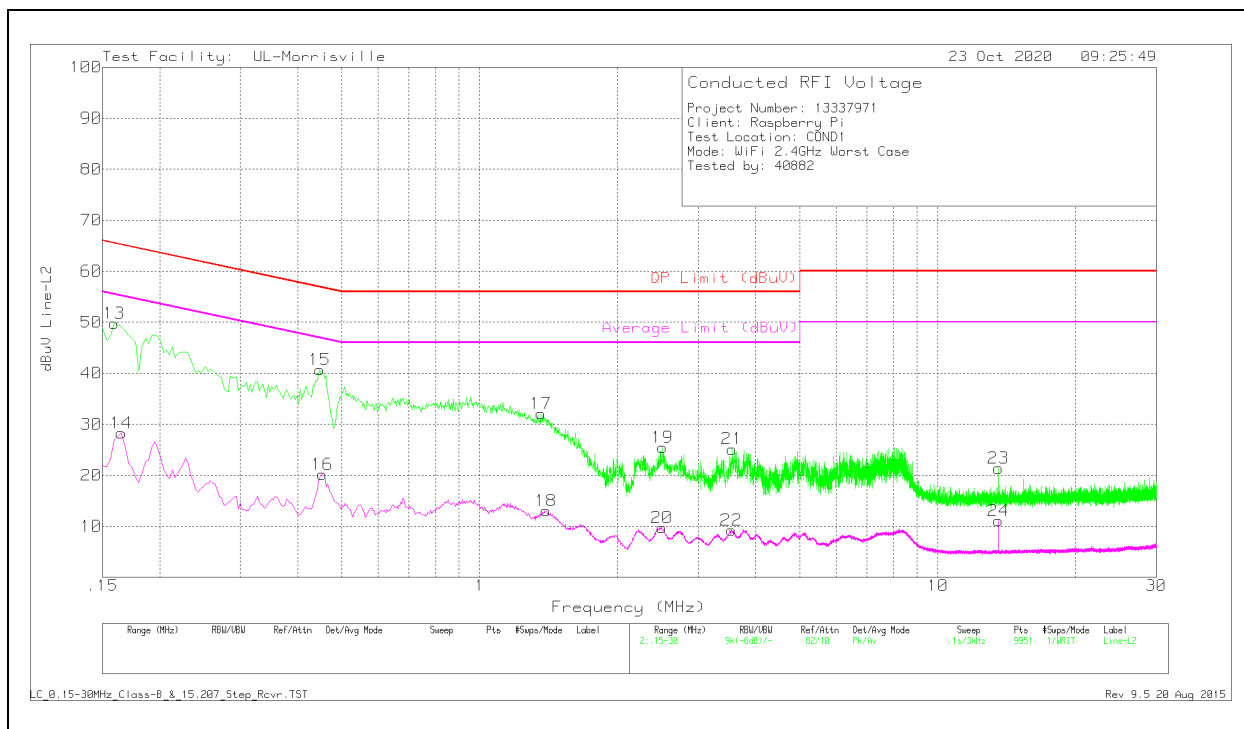


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.159	41.45	Pk	.2	9.7	51.35	65.52	-14.17	-	-
2	.162	21.76	Av	.2	9.7	31.66	-	-	55.36	-23.7
3	.444	27.85	Pk	.1	9.7	37.65	56.99	-19.34	-	-
4	.453	18.18	Av	.1	9.8	28.08	-	-	46.82	-18.74
5	1.752	16.51	Pk	0	9.8	26.31	56	-29.69	-	-
6	1.755	2.3	Av	0	9.8	12.1	-	-	46	-33.9
7	2.526	17.17	Pk	0	9.8	26.97	56	-29.03	-	-
8	2.517	4.6	Av	0	9.8	14.4	-	-	46	-31.6
9	3.525	16.18	Pk	0	9.8	25.98	56	-30.02	-	-
10	3.522	5.29	Av	0	9.8	15.09	-	-	46	-30.91
11	21.519	13.46	Pk	.2	10.1	23.76	60	-36.24	-	-
12	21.546	-3.49	Av	.2	10.1	6.81	-	-	50	-43.19

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

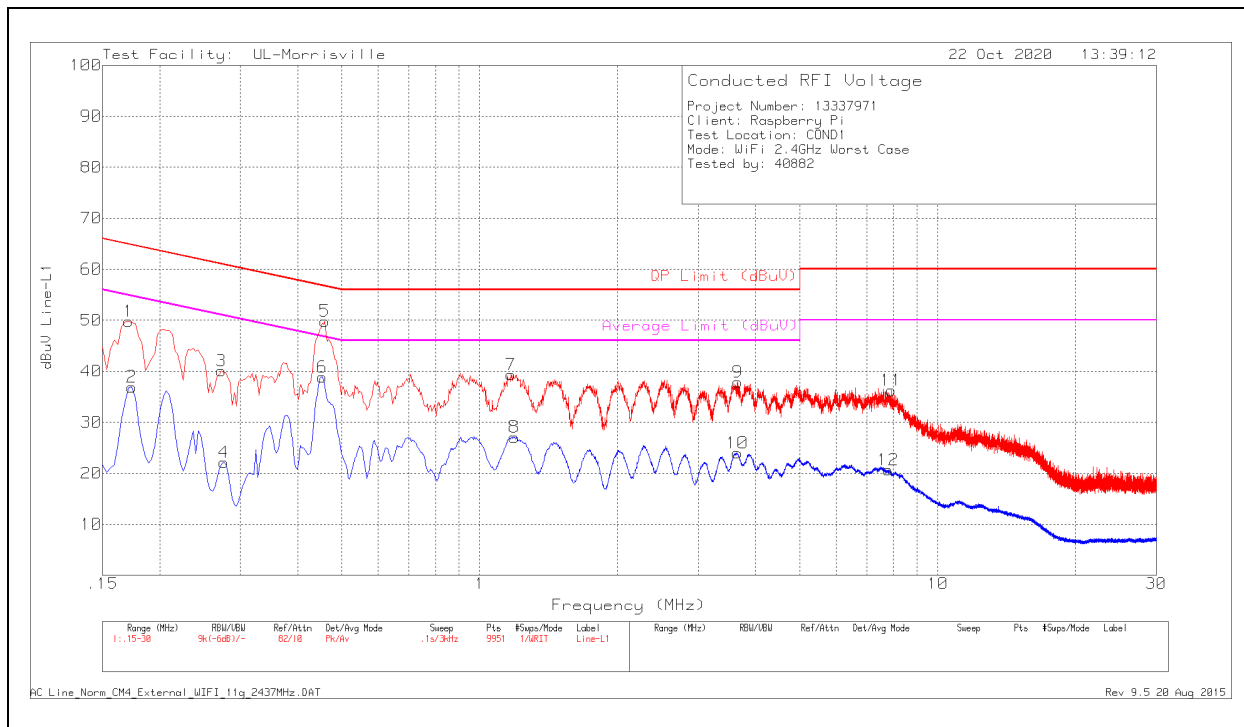
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.159	39.91	Pk	.2	9.7	49.81	65.52	-15.71	-	-
14	.165	18.4	Av	.2	9.7	28.3	-	-	55.21	-26.91
15	.447	30.92	Pk	.1	9.7	40.72	56.93	-16.21	-	-
16	.453	10.29	Av	.1	9.8	20.19	-	-	46.82	-26.63
17	1.359	22.28	Pk	0	9.8	32.08	56	-23.92	-	-
18	1.395	3.25	Av	0	9.8	13.05	-	-	46	-32.95
19	2.508	15.65	Pk	0	9.8	25.45	56	-30.55	-	-
20	2.499	-.06	Av	0	9.8	9.74	-	-	46	-36.26
21	3.555	15.36	Pk	0	9.8	25.16	56	-30.84	-	-
22	3.54	-.53	Av	0	9.8	9.27	-	-	46	-36.73
23	13.56	11.26	Pk	.1	10	21.36	60	-38.64	-	-
24	13.56	.95	Av	.1	10	11.05	-	-	50	-38.95

Pk - Peak detector

Av - Average detection

10.2. ANTENNA 2

LINE 1 RESULTS

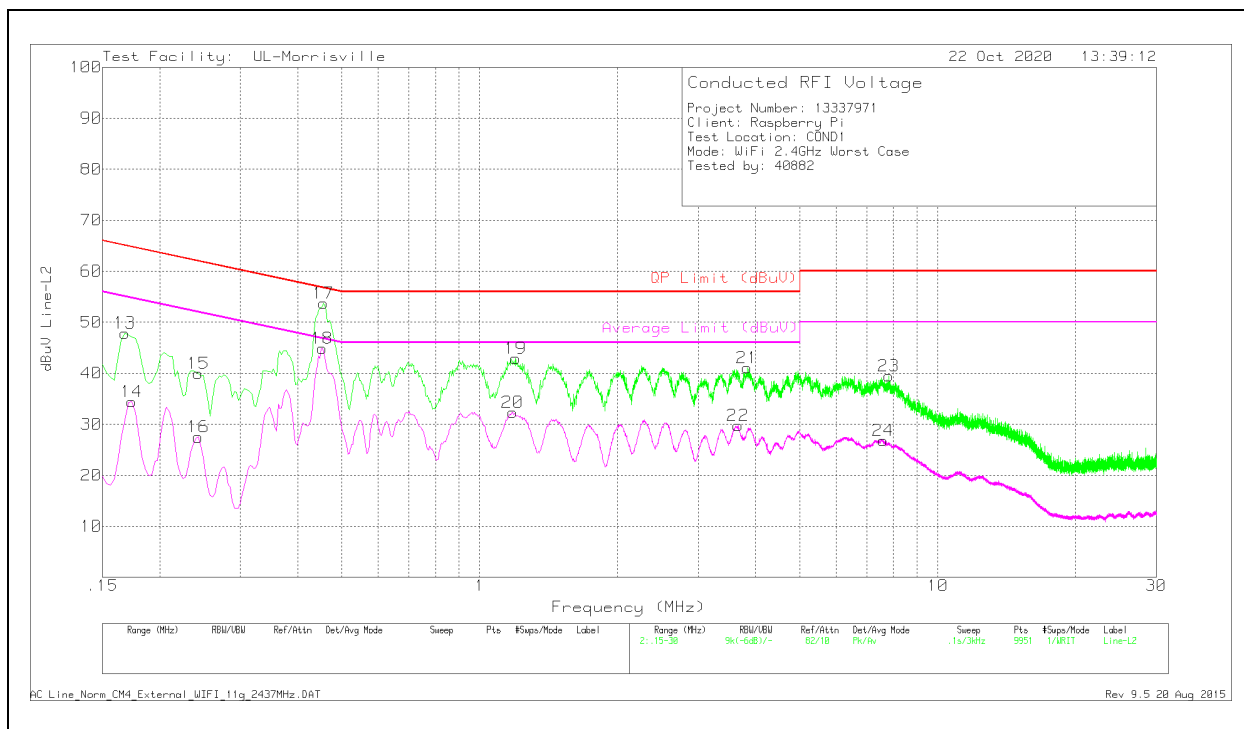


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.171	39.87	Pk	.2	9.7	49.77	64.91	-15.14	-	-
2	.174	27.03	Av	.2	9.7	36.93	-	-	54.77	-17.84
3	.273	30.29	Pk	.1	9.7	40.09	61.03	-20.94	-	-
4	.276	12.37	Av	.1	9.7	22.17	-	-	50.94	-28.77
5	.459	39.95	Pk	.1	9.8	49.85	56.71	-6.86	-	-
6	.453	28.98	Av	.1	9.8	38.88	-	-	46.82	-7.94
7	1.17	29.55	Pk	0	9.8	39.35	56	-16.65	-	-
8	1.1895	17.31	Av	0	9.8	27.11	-	-	46	-18.89
9	3.66	27.98	Pk	0	9.9	37.88	56	-18.12	-	-
10	3.651	14.12	Av	0	9.9	24.02	-	-	46	-21.98
11	7.923	26.14	Pk	.1	10	36.24	60	-23.76	-	-
12	7.794	10.56	Av	.1	10	20.66	-	-	50	-29.34

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
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	.168	37.99	Pk	.2	9.7	47.89	65.06	-17.17	-	-
14	.174	24.52	Av	.2	9.7	34.42	-	-	54.77	-20.35
15	.243	30.15	Pk	.1	9.7	39.95	61.99	-22.04	-	-
16	.243	17.71	Av	.1	9.7	27.51	-	-	51.99	-24.48
17	.46018	39.97	Qp	.1	9.8	49.87	56.69	-6.82	-	-
18	.46044	32.99	Ca	.1	9.8	42.89	-	-	46.68	-3.79
19	1.197	33.11	Pk	0	9.8	42.91	56	-13.09	-	-
20	1.179	22.55	Av	0	9.8	32.35	-	-	46	-13.65
21	3.834	31.19	Pk	0	9.9	41.09	56	-14.91	-	-
22	3.663	19.84	Av	0	9.9	29.74	-	-	46	-16.26
23	7.809	29.37	Pk	.1	10	39.47	60	-20.53	-	-
24	7.59	16.81	Av	.1	9.9	26.81	-	-	50	-23.19

Pk - Peak detector
Av - Average detection
Qp - Quasi-peak detection
Ca - CISPR average detection

11. SETUP PHOTOS

Please refer to R13337971-EP2 for setup photos.

END OF TEST REPORT