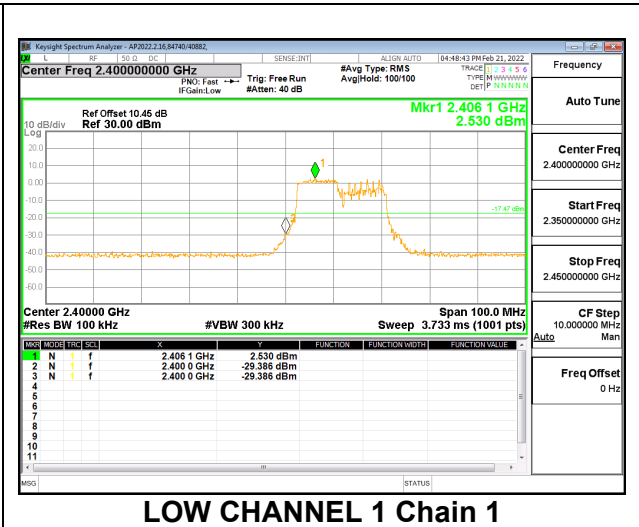
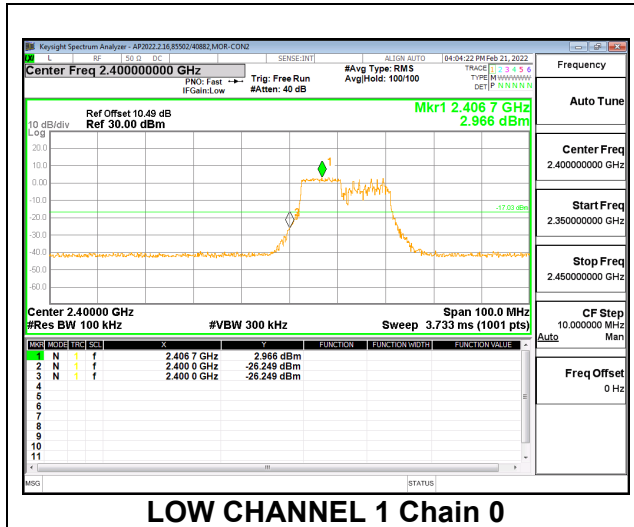
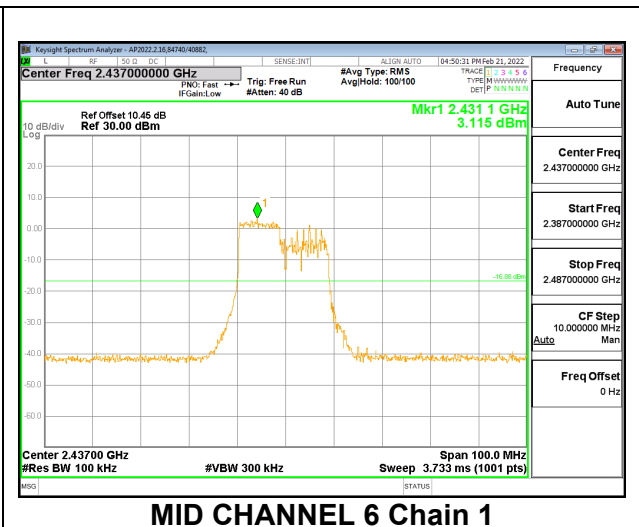
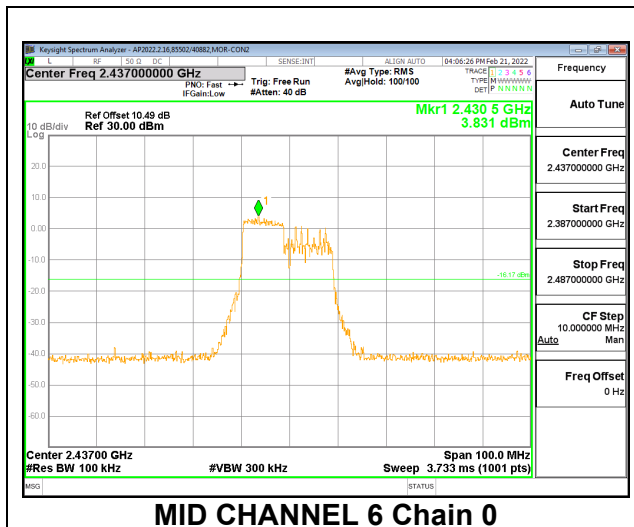


LOW CHANNEL 1

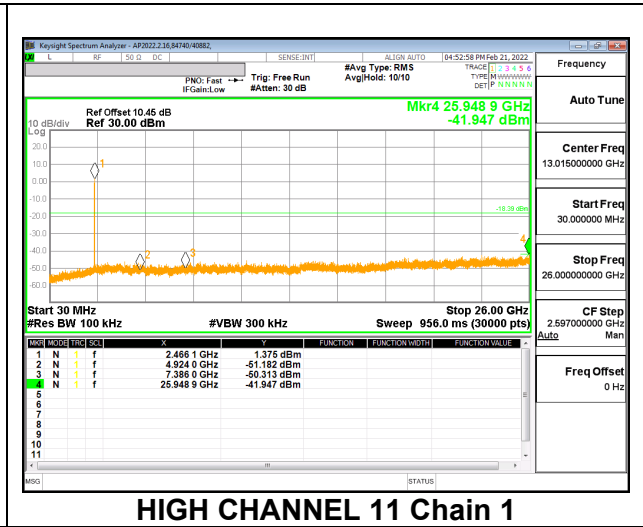
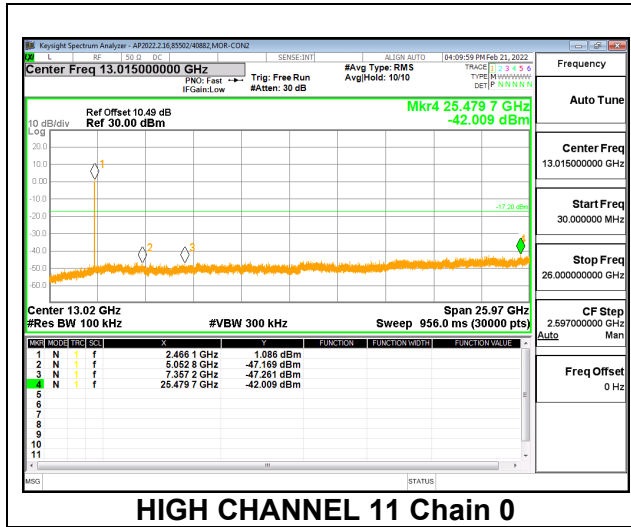


MID CHANNEL 6

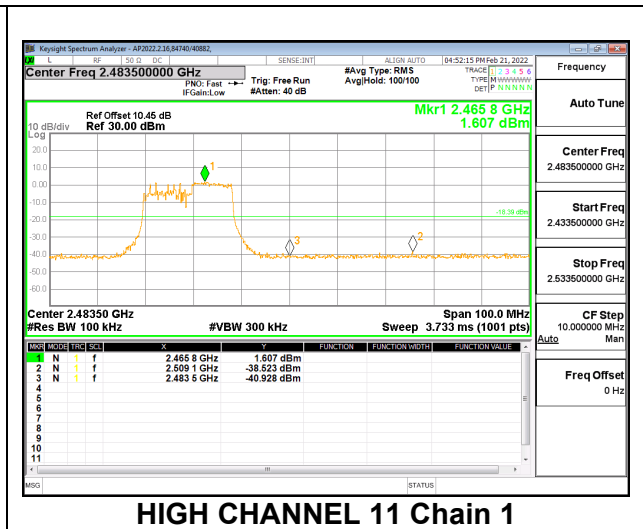
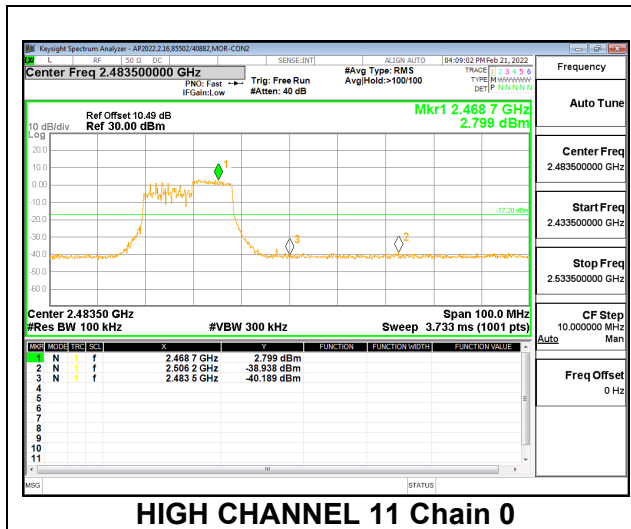


2TX Chain 0 + Chain 1 CDD OFDMA MODE: 106-Tones, RU Index 54

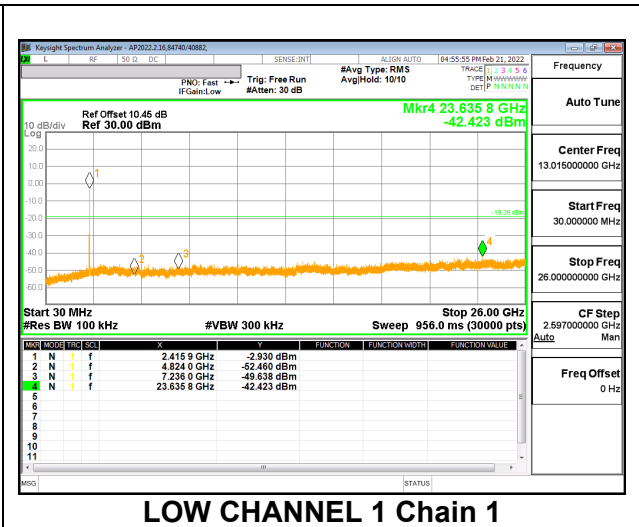
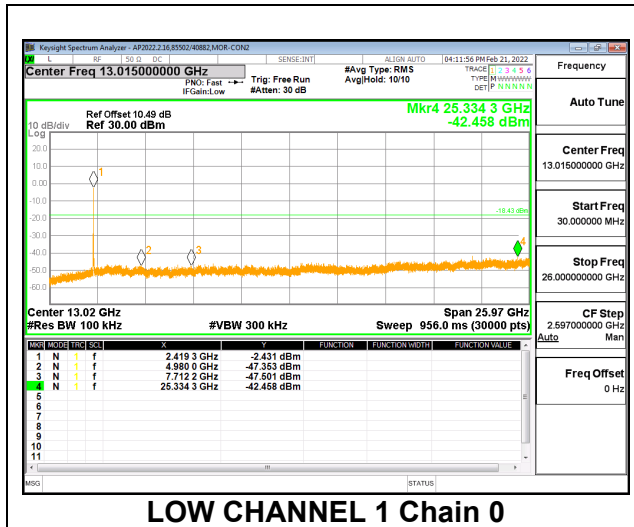
HIGH CHANNEL 11



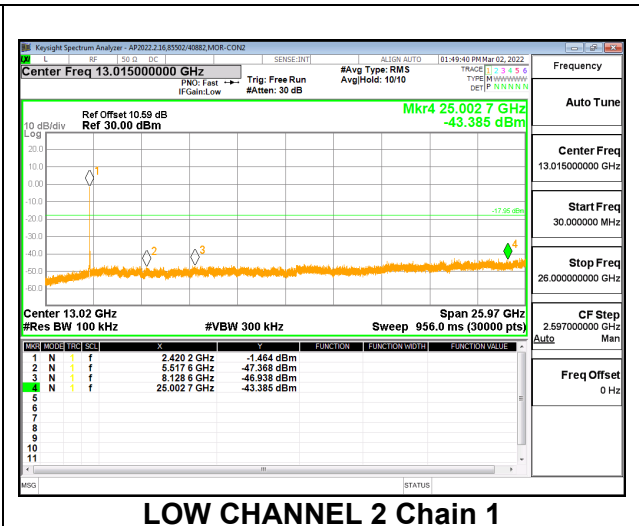
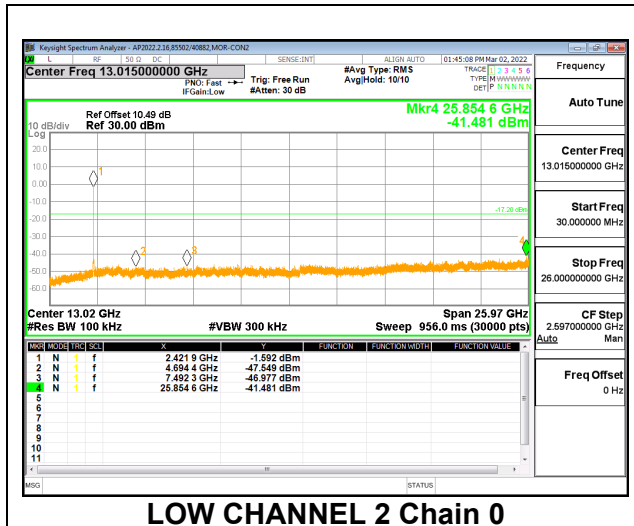
HIGH CHANNEL 11



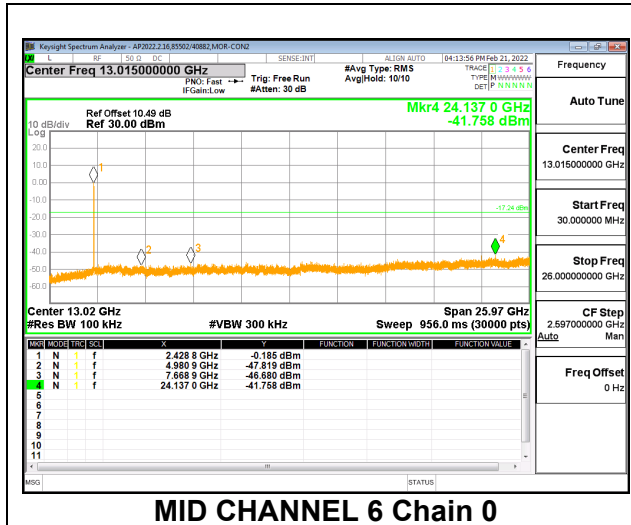
2TX Chain 0 + Chain 1 CDD OFDMA MODE: 242-Tones, RU Index 61
LOW CHANNEL 1



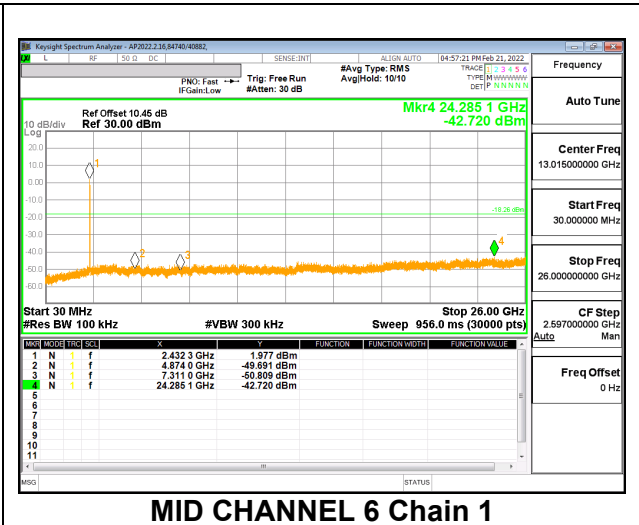
LOW CHANNEL 2



MID CHANNEL 6

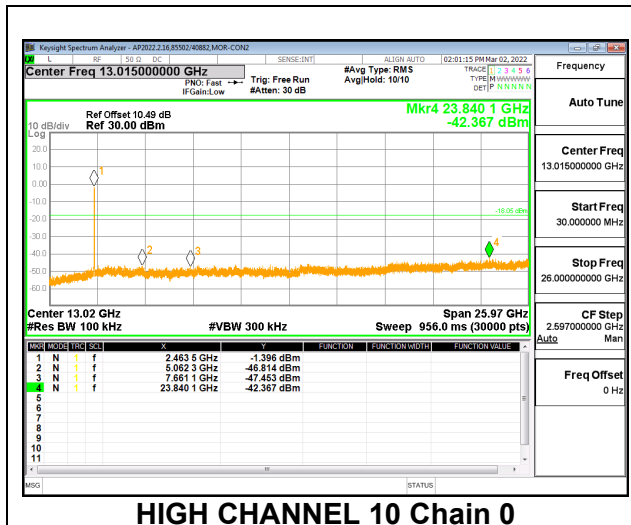


MID CHANNEL 6 Chain 0

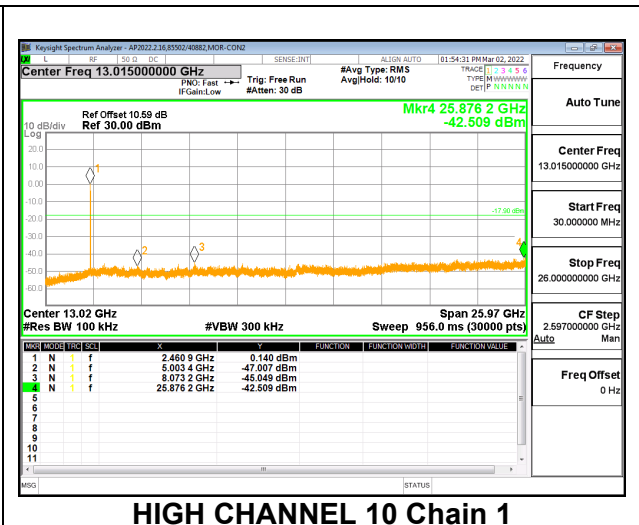


MID CHANNEL 6 Chain 1

HIGH CHANNEL 10

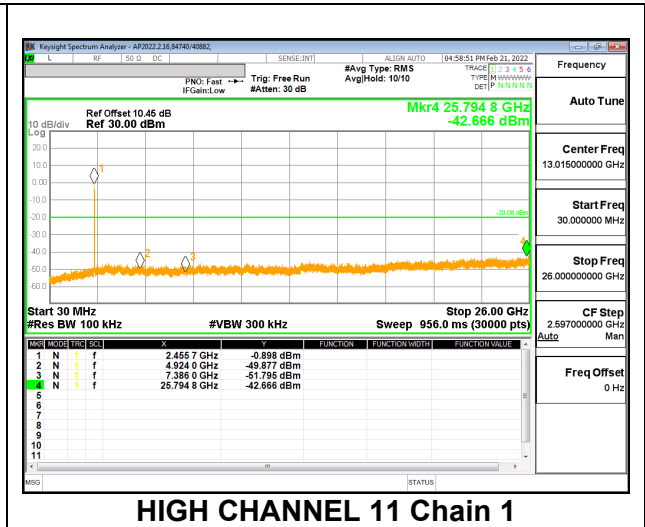
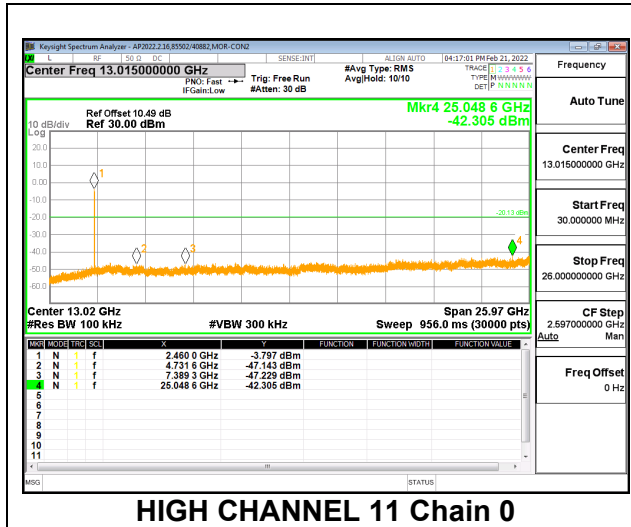


HIGH CHANNEL 10 Chain 0

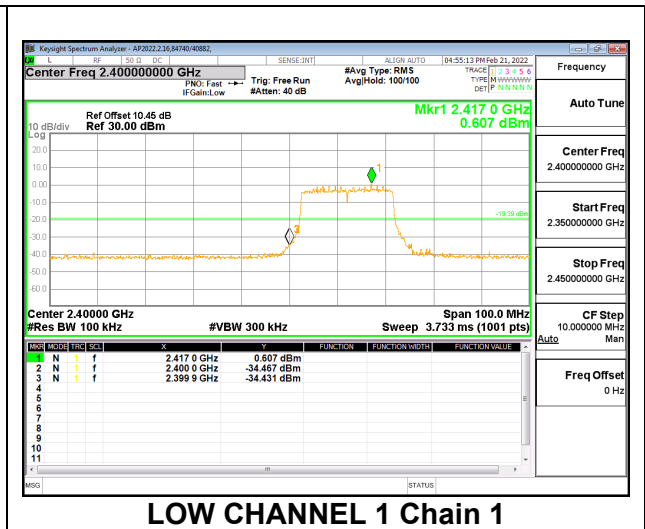
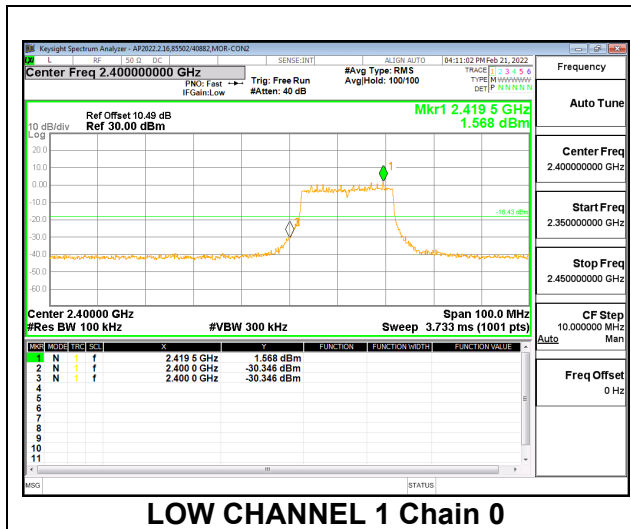


HIGH CHANNEL 10 Chain 1

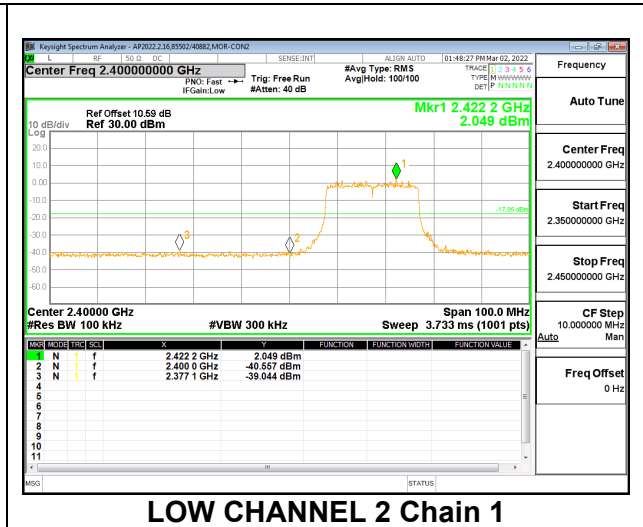
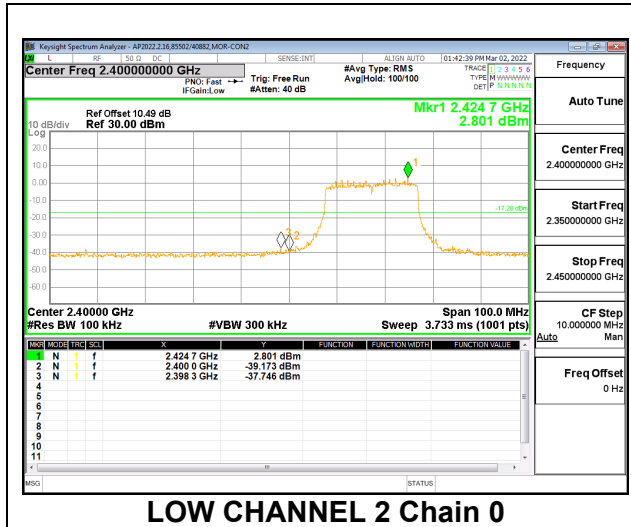
HIGH CHANNEL 11



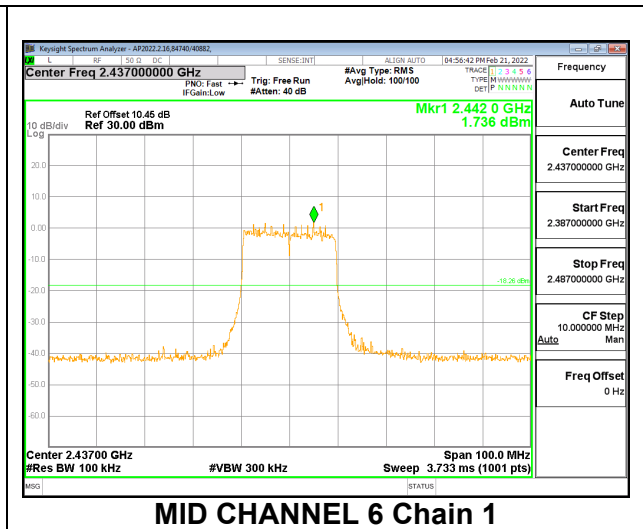
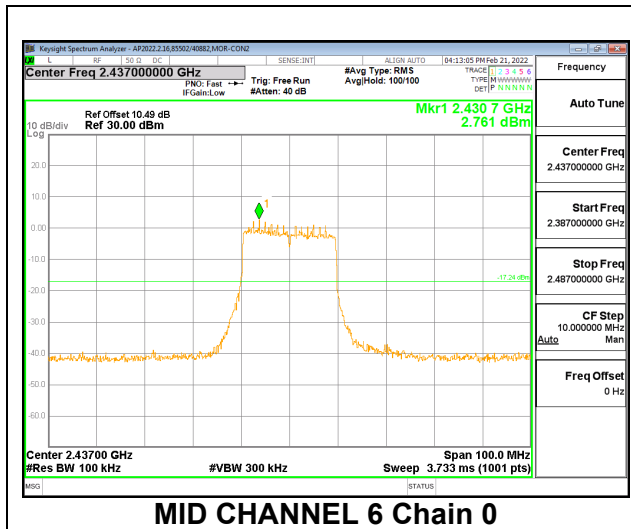
LOW CHANNEL 1



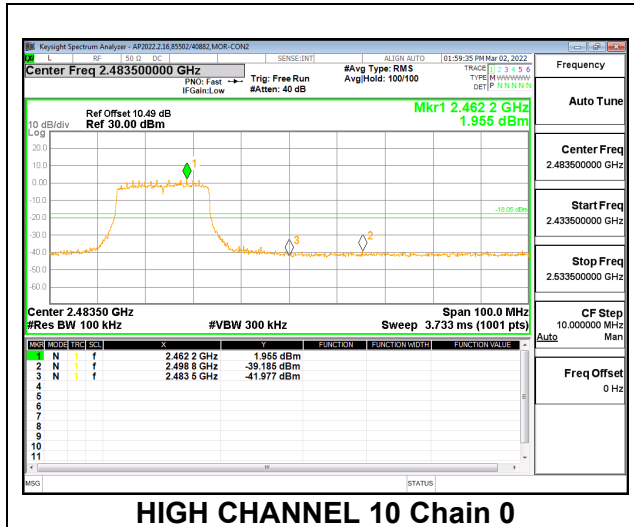
LOW CHANNEL 2



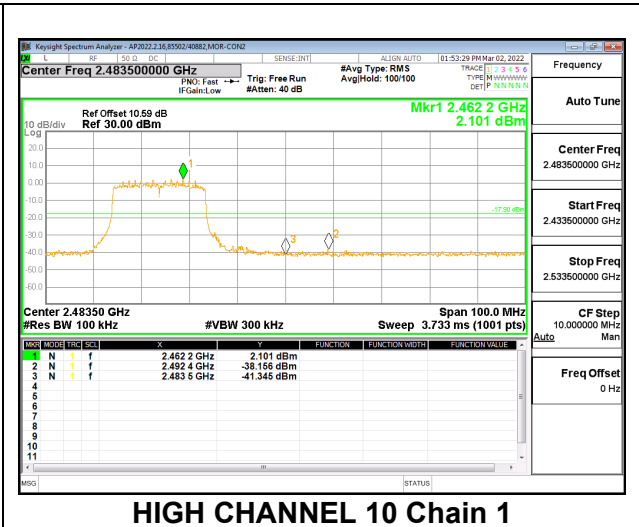
MID CHANNEL 6



HIGH CHANNEL 10

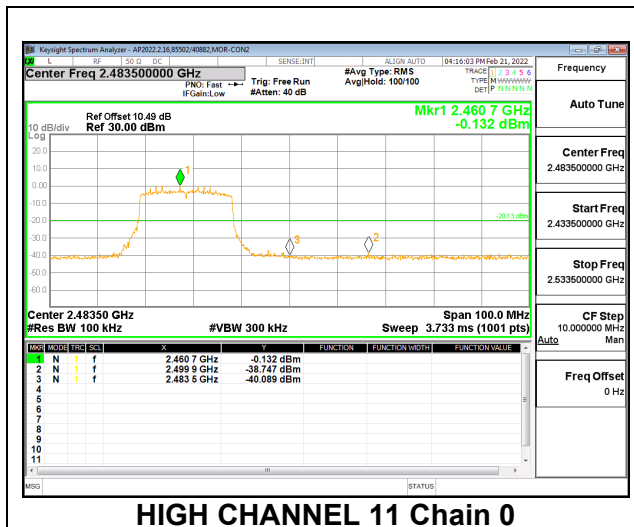


HIGH CHANNEL 10 Chain 0

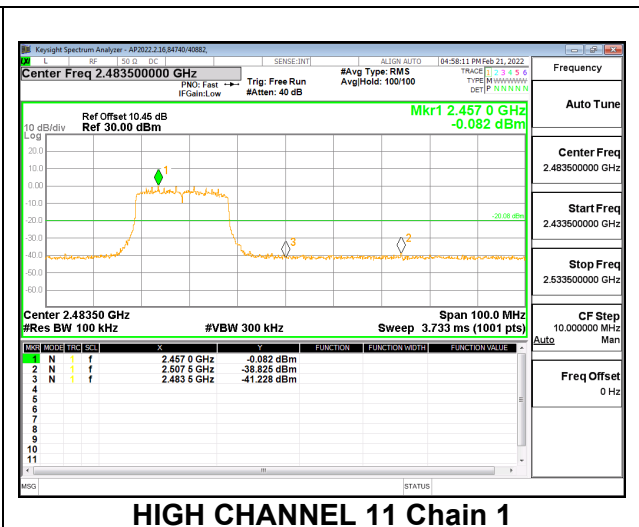


HIGH CHANNEL 10 Chain 1

HIGH CHANNEL 11



HIGH CHANNEL 11 Chain 0



HIGH CHANNEL 11 Chain 1

9.5. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The cable assembly insertion loss of 10.61 dB (including 10.47 dB pad and 0.14 dB cable) for Chain 0 and 11.13dB (including 10.99 dB pad and 0.14 dB cable) for Chain 1 was entered as an offset in the power meter.

DIRECTIONAL ANTENNA GAIN

2 TX

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	Chain 0 Gain (dBi)	Chain 1 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.4	-2.30	-8.60	-4.40	-1.88

RESULT

9.5.1. 802.11ax HE20 MODE 2TX

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Low 1	2412	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	18.94	19.70	22.35	30.00	-7.65

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Mid 6	2437	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	18.26	18.98	21.65	30.00	-8.35

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
High 11	2462	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 11	2462	19.48	18.41	21.99	30.00	-8.01

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Low 1	2412	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.08	21.82	24.48	30.00	-5.52

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Mid 6	2437	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	19.93	20.39	23.18	30.00	-6.82

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
High 11	2462	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 11	2462	20.43	19.10	22.83	30.00	-7.17

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Low 1	2412	-4.40	30.00	30.00
Mid 6	2437	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	23.62	24.14	26.90	30.00	-3.10
Mid 6	2437	23.11	23.04	26.09	30.00	-3.91

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
High 11	2462	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 11	2462	21.53	21.13	24.34	30.00	-5.66

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84740/40882
Test Date:	2022-02-14

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	Max Power (dBm)
Low 1	2412	-4.40	30.00	30.00
Low 2	2417	-4.40	30.00	30.00
Mid 6	2437	-4.40	30.00	30.00
High 10	2457	-4.40	30.00	30.00
High 11	2462	-4.40	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.01	21.95	24.52	30.00	-5.48
Low 2	2417	24.12	22.93	26.58	30.00	-3.42
Mid 6	2437	23.05	23.10	26.09	30.00	-3.91
High 10	2457	23.15	22.39	25.80	30.00	-4.20
High 11	2472	21.02	20.38	23.72	30.00	-6.28

9.6. AVERAGE POWER

LIMITS

None; for reporting purposes only

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss was entered as an offset in the power meter to allow for a gated average reading of power

RESULTS

9.6.1. 802.11ax HE20 MODE 2TX

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 1	2412	8.95	7.82	11.43

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Mid 6	2412	8.54	8.28	11.42

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
High 11	2462	8.29	7.77	11.05

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 1	2412	11.38	10.51	13.98

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Mid 6	2437	10.50	10.71	13.62

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
High	2462	11.18	10.49	13.86

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 1	2412	13.12	12.93	16.04
Mid 6	2437	13.64	13.26	16.46

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
High 11	2462	12.73	12.25	15.51

2TX Chain 0 + Chain 1 CDD OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84740/40882
Test Date:	2022-02-14

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low 1	2412	12.47	12.09	15.29
Low 2	2417	14.05	13.71	16.89
Mid 6	2437	13.50	13.30	16.41
High 10	2457	13.75	13.52	16.65
High 11	2462	11.50	11.38	14.45

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

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 1 GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

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

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

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for linear voltage average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 30MHz, below 1GHz and above 18GHz emissions, the modulation and 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).

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

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

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

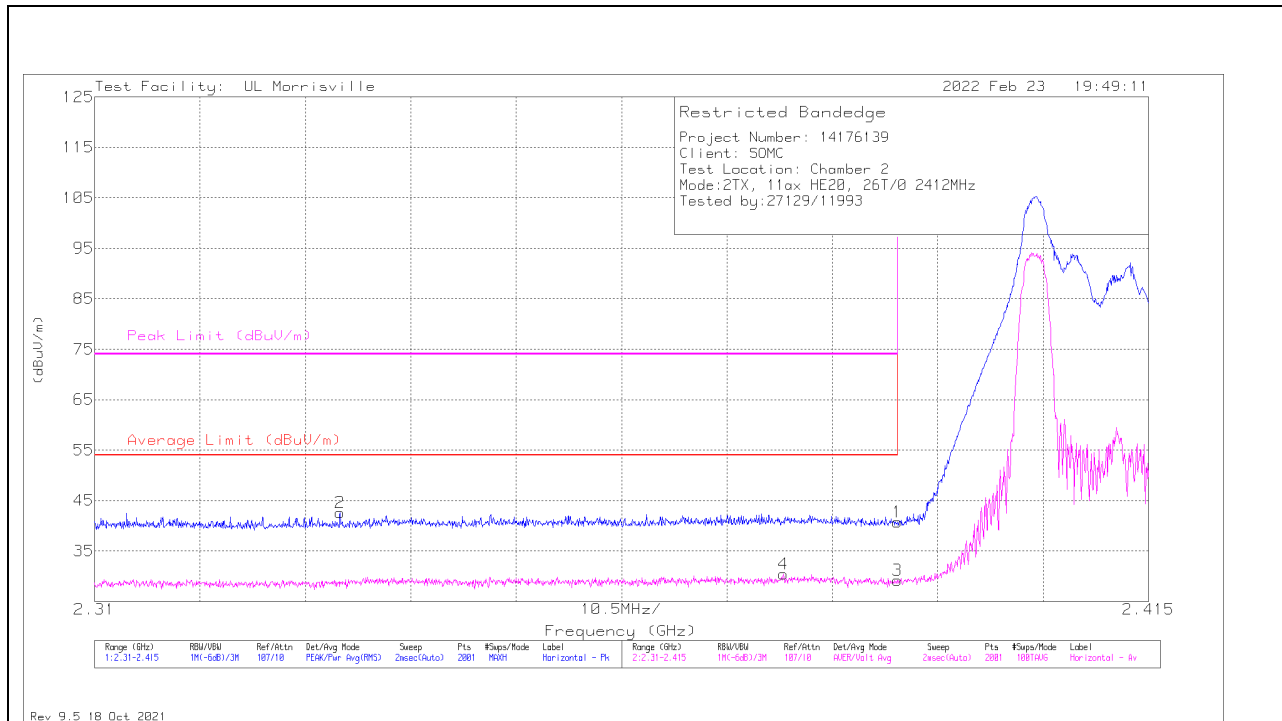
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 2.4GHz BAND

2TX Chain 0 + Chain 1 OFDMA MODE: 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.38996	32.96	Pk	31.9	-24.1	40.76	-	-	74	-33.24	97	272	H
2	*** 2.33447	34.97	Pk	31.7	-24.1	42.57	-	-	74	-31.43	97	272	H
3	*** 2.38996	21.4	ADV	31.9	-24.1	29.2	54	-24.8	-	-	97	272	H
4	*** 2.37862	22.12	ADV	32.5	-24.2	30.42	54	-23.58	-	-	97	272	H

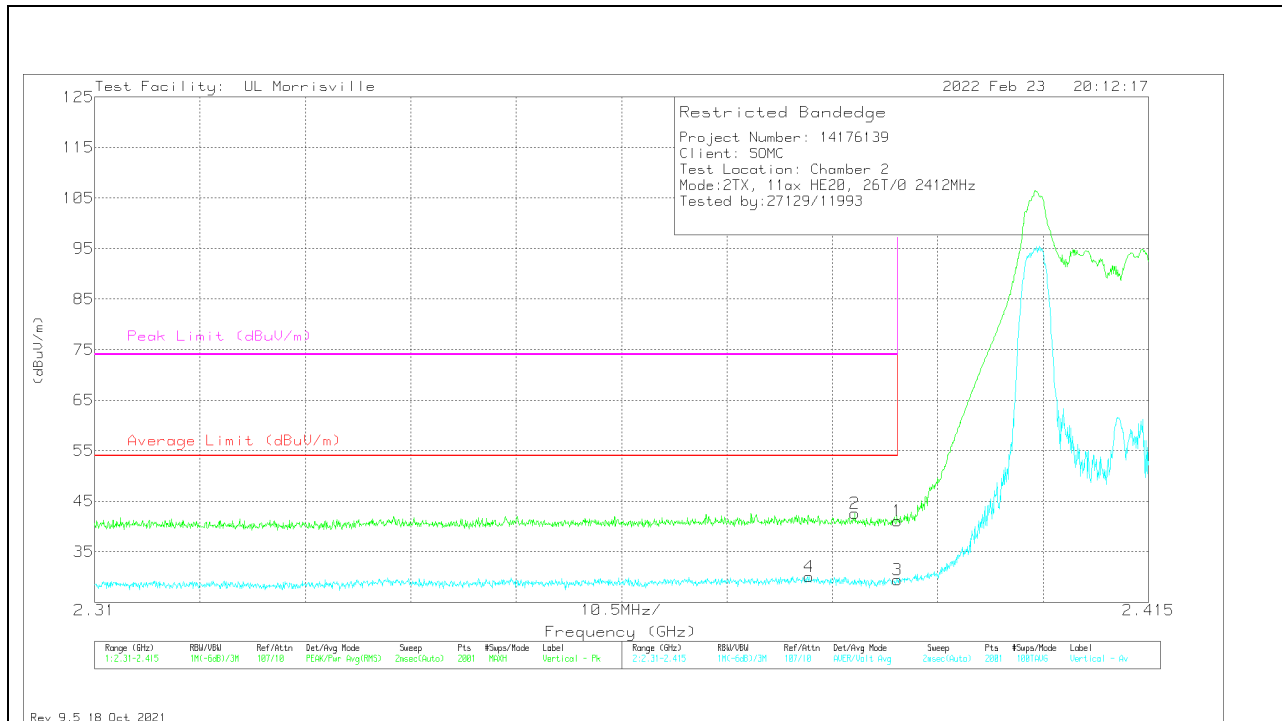
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	* ** 2.38996	33.32	Pk	31.9	-24.1	41.12	-	-	74	-32.88	79	350	V
2	* ** 2.38576	34.61	Pk	32.1	-24.1	42.61	-	-	74	-31.39	79	350	V
3	* ** 2.38996	21.62	ADV	31.9	-24.1	29.42	54	-24.58	-	-	79	350	V
4	* ** 2.38119	21.76	ADV	32.4	-24.1	30.06	54	-23.94	-	-	79	350	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

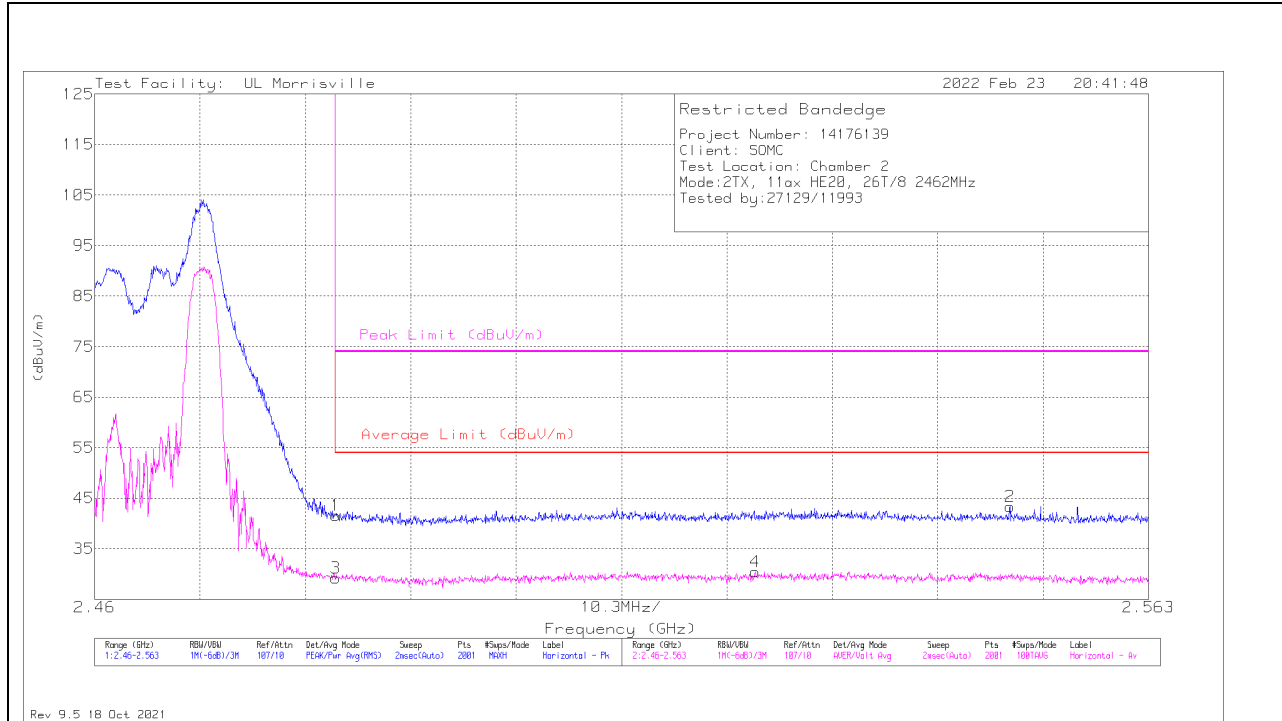
Pk - Peak detector

ADV - Linear Voltage Average

2TX Chain 0 + Chain 1 OFDMA MODE: 26-Tones, RU Index 8

BANDEDGE (HIGH CHANNEL 11)

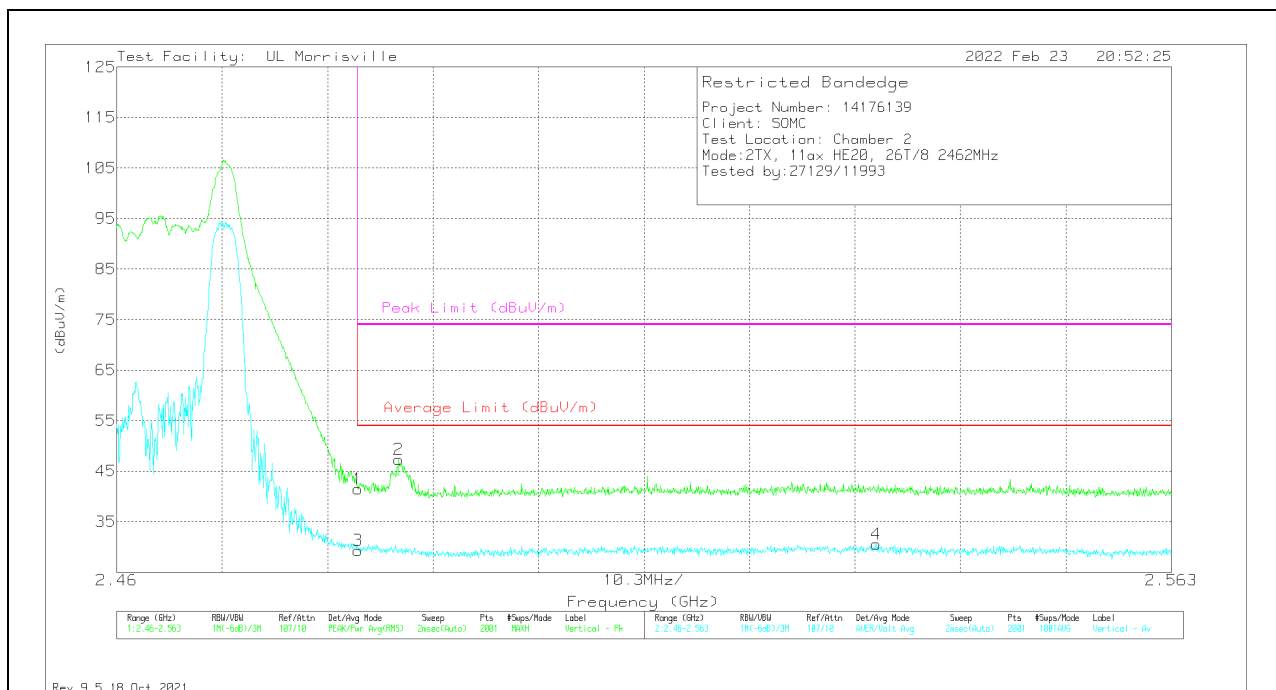
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	* ** 2.48354	33.67	Pk	32.5	-24.6	41.57	-	-	74	-32.43	64	257	H
2	** 2.54946	35.8	Pk	32.5	-25	43.3	-	-	74	-30.7	64	257	H
3	* ** 2.48354	21.34	ADV	32.5	-24.6	29.24	54	-24.76	-	-	64	257	H
4	** 2.52458	22.35	ADV	32.8	-24.7	30.45	54	-23.55	-	-	64	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	AT0072 (dB/m)	Amp/Cbl/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	* ** 2.48354	33.56	Pk	32.5	-24.6	41.46	-	-	74	-32.54	131	172	V
2	* ** 2.48755	39.77	Pk	32.5	-25	47.27	-	-	74	-26.73	131	172	V
3	* ** 2.48354	21.39	ADV	32.5	-24.6	29.29	54	-24.71	-	-	131	172	V
4	** 2.53416	22.45	ADV	32.9	-24.8	30.55	54	-23.45	-	-	131	172	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

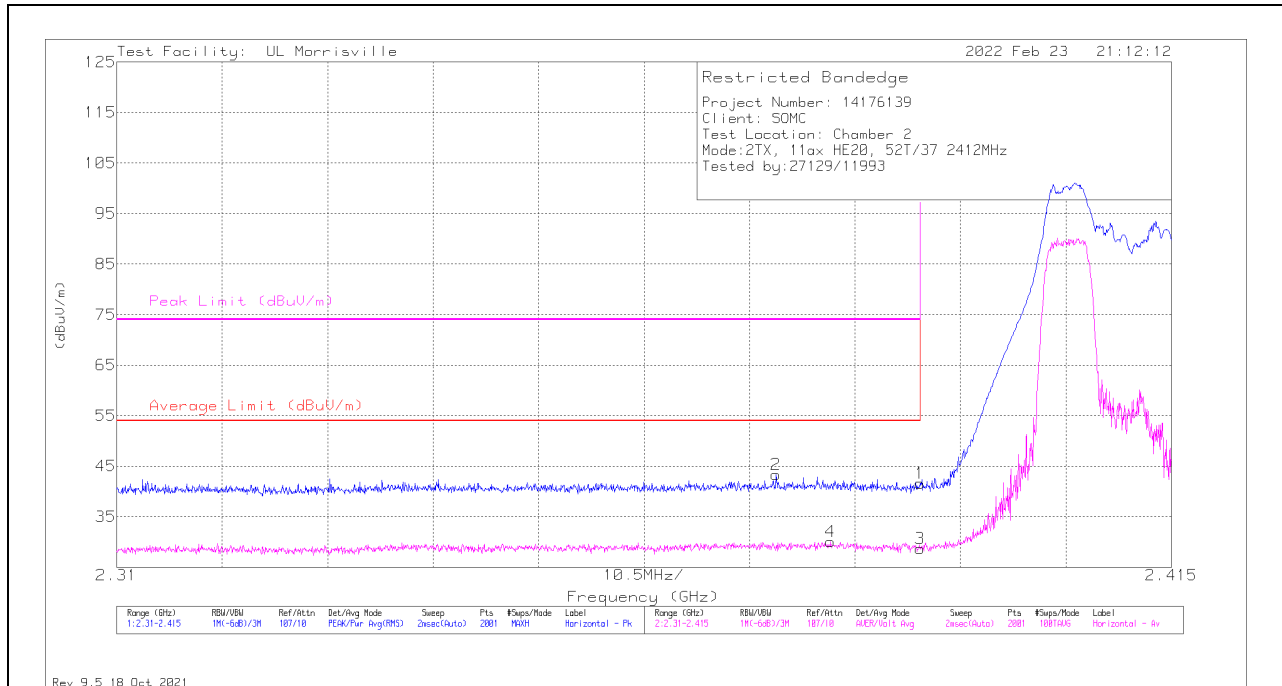
Pk - Peak detector

ADV - Linear Voltage Average

2TX Chain 0 + Chain 1 OFDMA MODE: 52-Tones, RU Index 37

BANDEDGE (LOW CHANNEL 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.38996	33.82	Pk	31.9	-24.1	41.62	-	-	74	-32.38	23	144	H
2	*** 2.37563	35.16	Pk	32.4	-24.2	43.36	-	-	74	-30.64	23	144	H
3	*** 2.38996	20.91	ADV	31.9	-24.1	28.71	54	-25.29	-	-	23	143	H
4	*** 2.38109	21.74	ADV	32.4	-24.1	30.04	54	-23.96	-	-	23	143	H

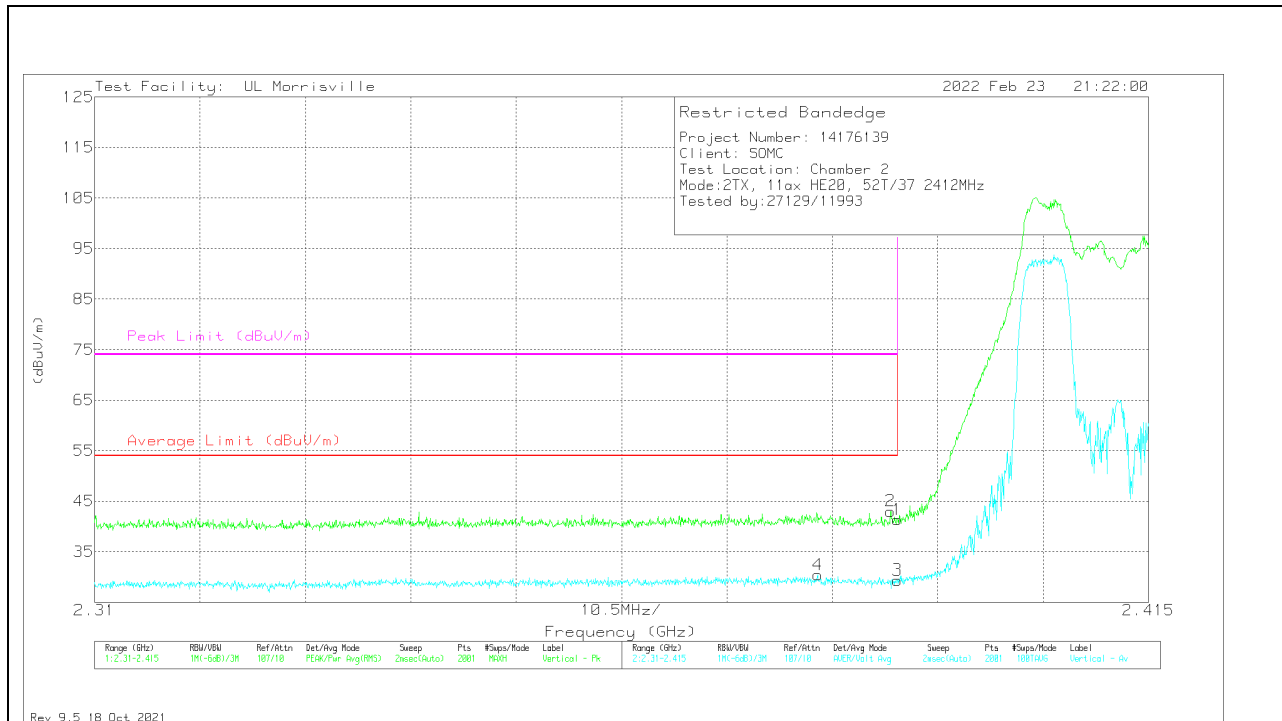
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

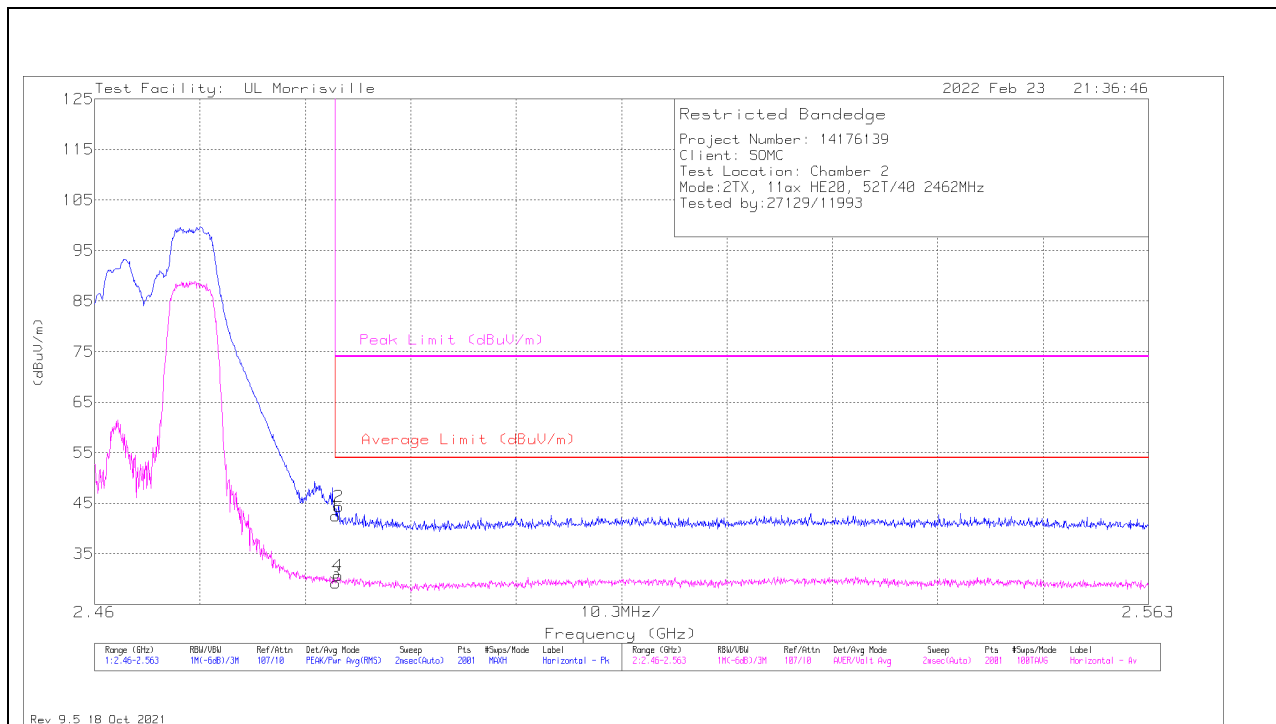


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.55	Pk	31.9	-24.1	41.35	-	-	74	-32.65	141	203	V
2	*** 2.38928	35.23	Pk	31.9	-24.1	43.03	-	-	74	-30.97	141	203	V
3	*** 2.38996	21.57	ADV	31.9	-24.1	29.37	54	-24.63	-	-	141	203	V
4	*** 2.38203	22.15	ADV	32.4	-24.1	30.45	54	-23.55	-	-	141	203	V

2TX Chain 0 + Chain 1 OFDMA MODE: 52-Tones, RU Index 40

BANDEDGE (HIGH CHANNEL 11)

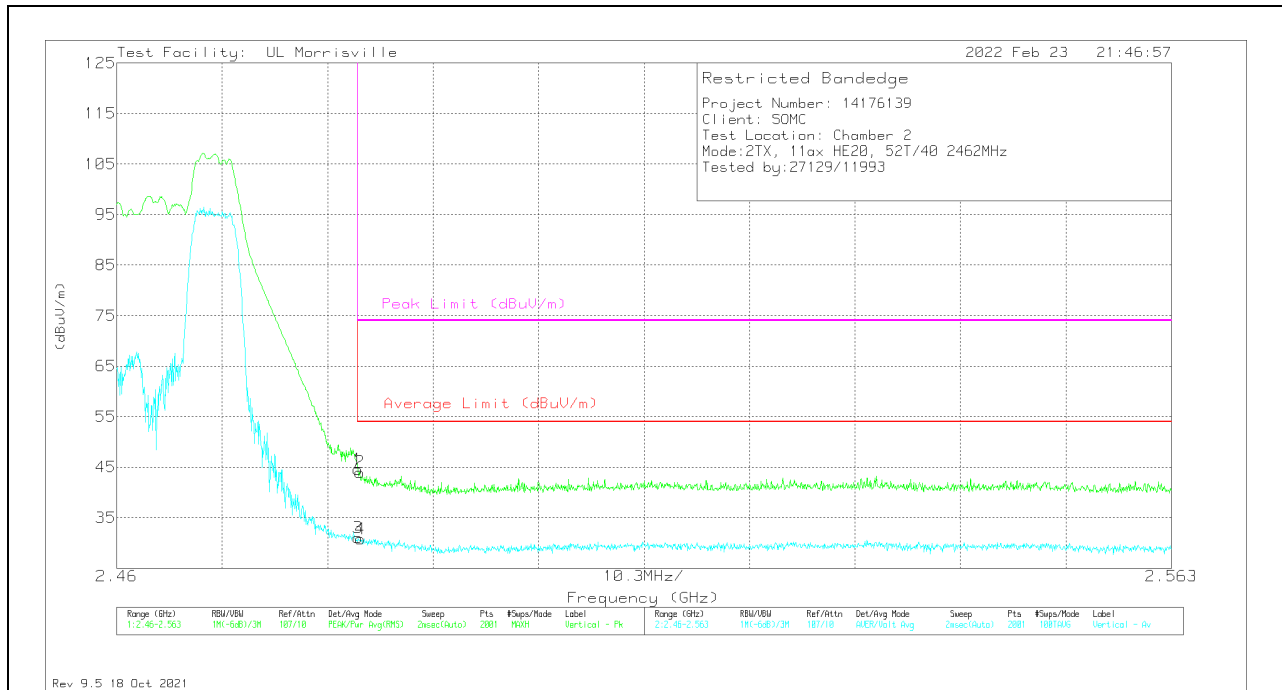
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	* ** 2.48354	34.62	Pk	32.5	-24.6	42.52	-	-	74	-31.48	109	255	H
2	* ** 2.48384	36.44	Pk	32.5	-24.6	44.34	-	-	74	-29.66	109	255	H
3	* ** 2.48354	21.32	ADV	32.5	-24.6	29.22	54	-24.78	-	-	109	255	H
4	* ** 2.48379	22.76	ADV	32.5	-24.6	30.66	54	-23.34	-	-	109	255	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



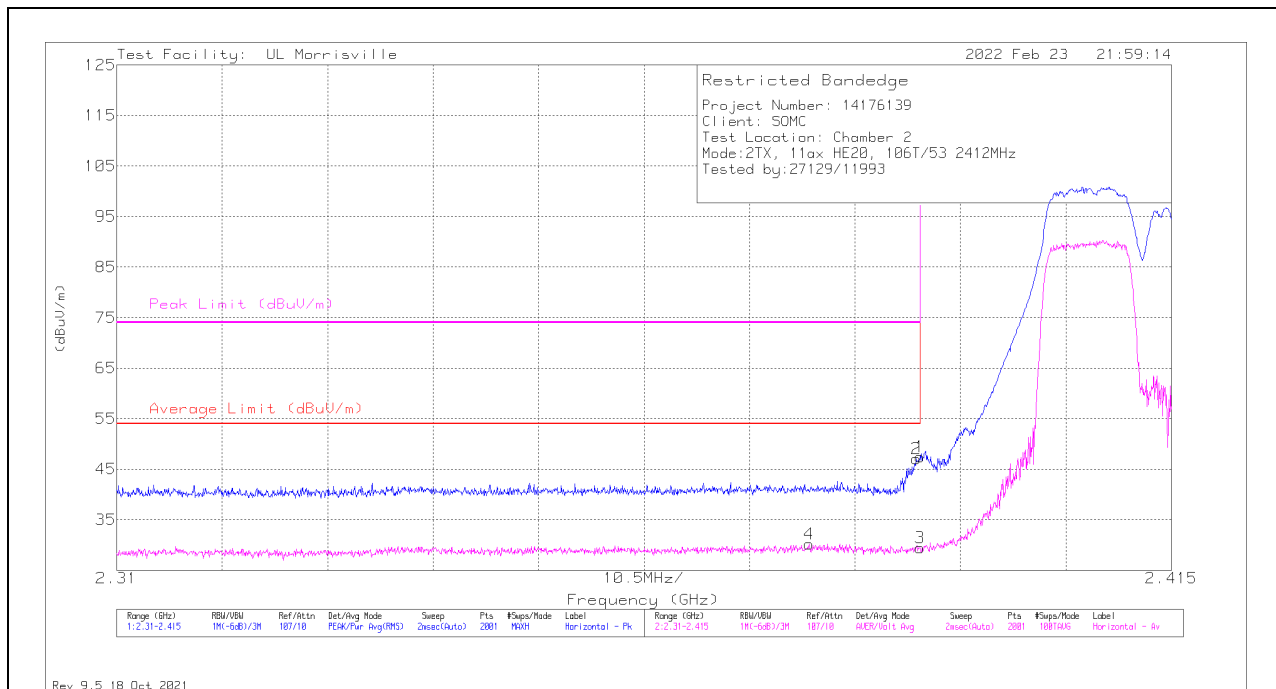
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	36.66	Pk	32.5	-24.6	44.56	-	-	74	-29.44	67	275	V
2	* ** 2.48374	36.12	Pk	32.5	-24.6	44.02	-	-	74	-29.98	67	275	V
3	* ** 2.48354	23.15	ADV	32.5	-24.6	31.05	54	-22.95	-	-	67	275	V
4	* ** 2.48379	22.95	ADV	32.5	-24.6	30.85	54	-23.15	-	-	67	275	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

2TX Chain 0 + Chain 1 OFDMA MODE: 106-Tones, RU Index 53

BANDEDGE (LOW CHANNEL 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.38996	39.6	Pk	31.9	-24.1	47.4	-	-	74	-26.6	13	399	H
2	*** 2.38959	39.25	Pk	31.9	-24.1	47.05	-	-	74	-26.95	13	399	H
3	*** 2.38996	21.62	ADV	31.9	-24.1	29.42	54	-24.58	-	-	13	399	H
4	*** 2.37893	21.91	ADV	32.5	-24.2	30.21	54	-23.79	-	-	13	399	H

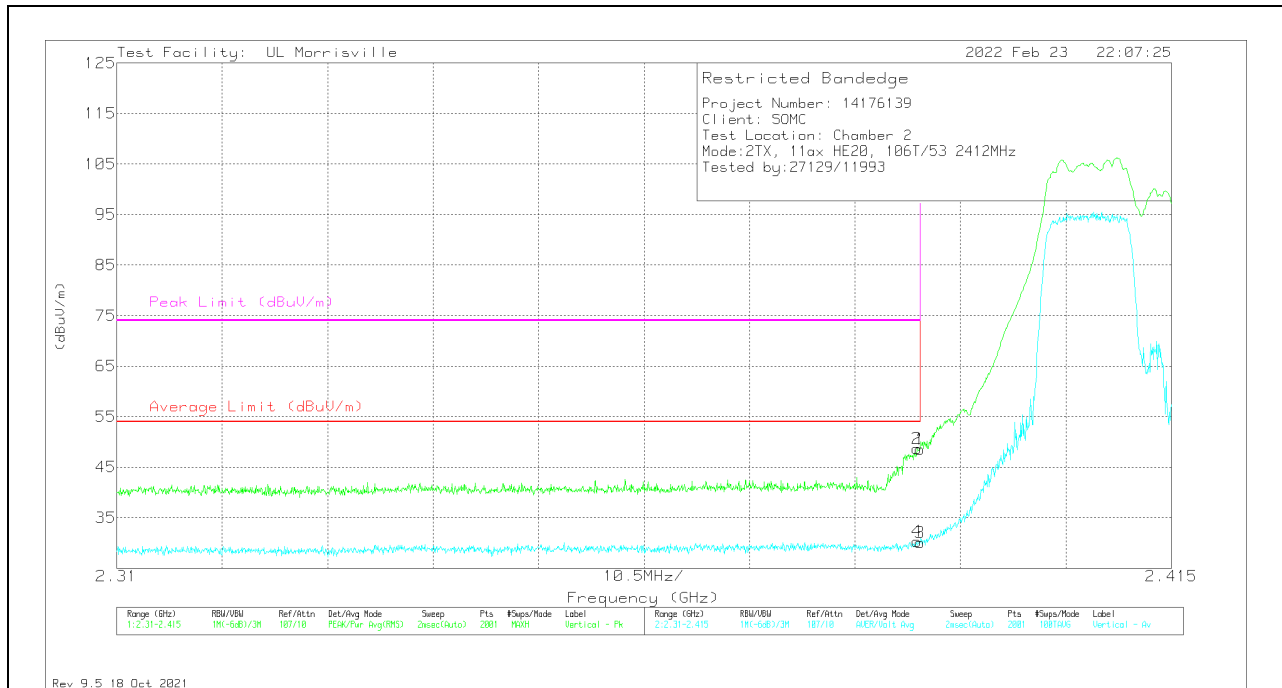
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

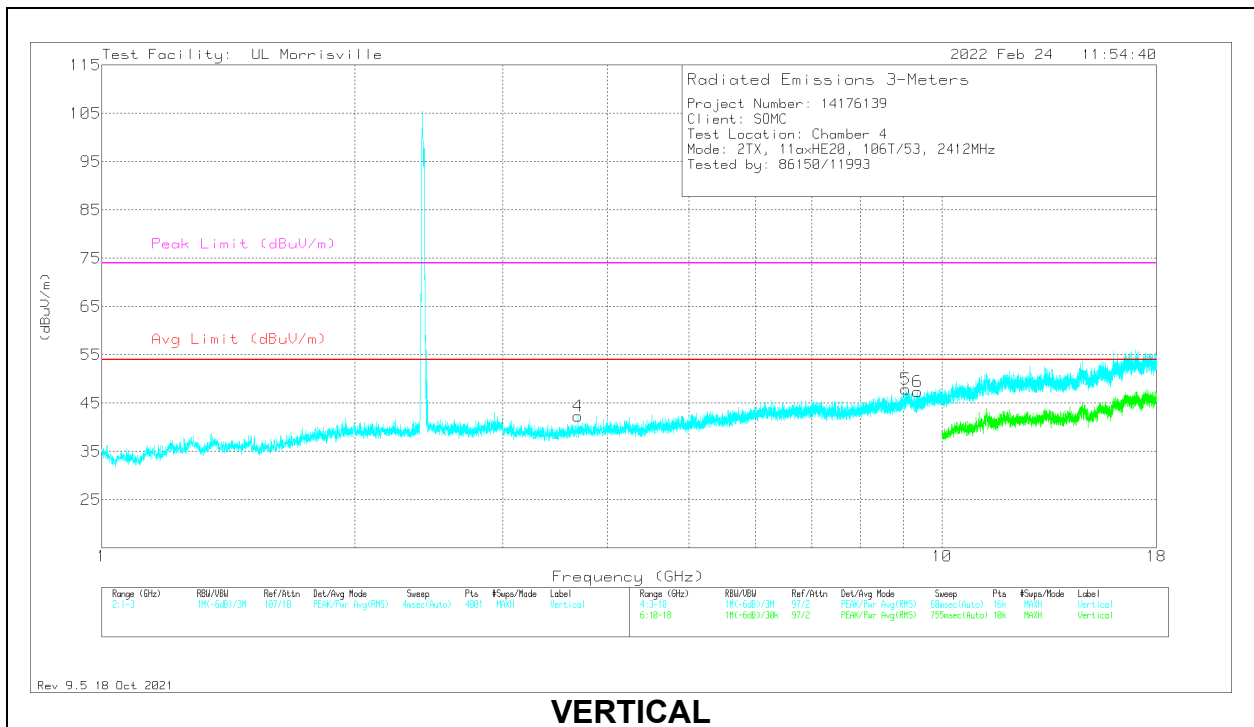
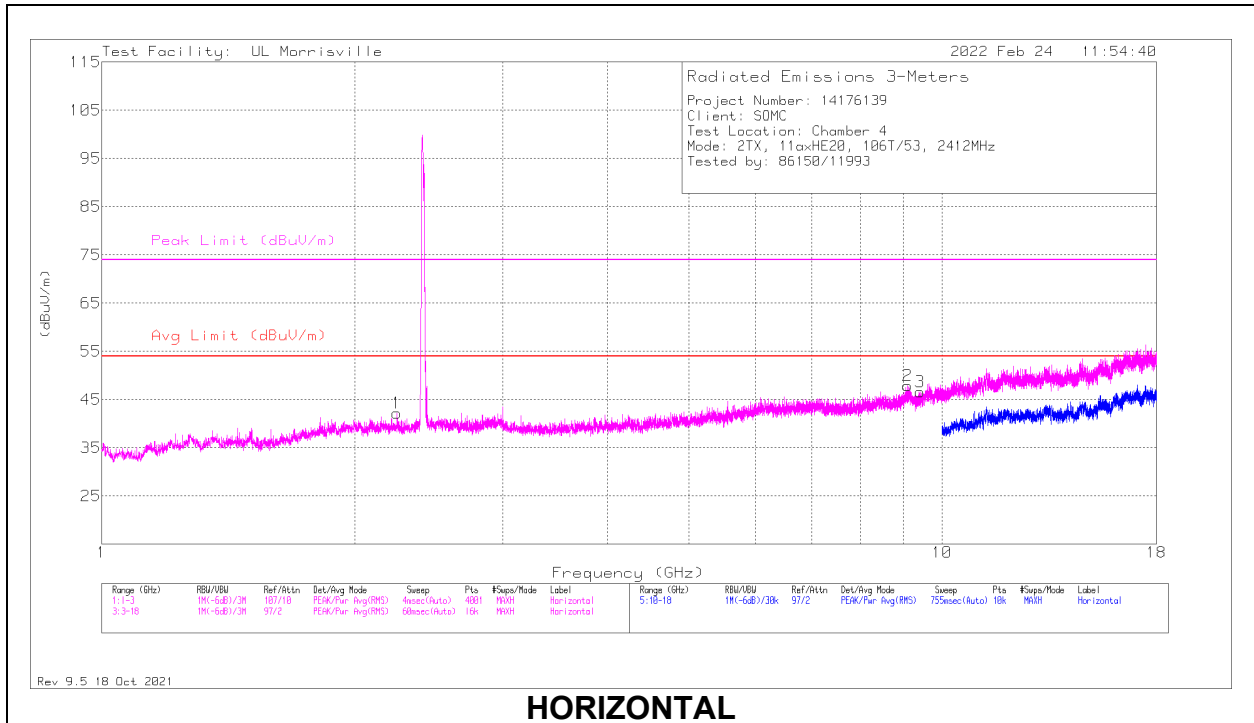


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	40.77	Pk	31.9	-24.1	48.57	-	-	74	-25.43	86	250	V
2	* ** 2.38964	40.92	Pk	31.9	-24.1	48.72	-	-	74	-25.28	86	250	V
3	* ** 2.38996	22.25	ADV	31.9	-24.1	30.05	54	-23.95	-	-	86	250	V
4	* ** 2.38964	22.47	ADV	31.9	-24.1	30.27	54	-23.73	-	-	86	250	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 1 RESULTS



RADIATED EMISSIONS

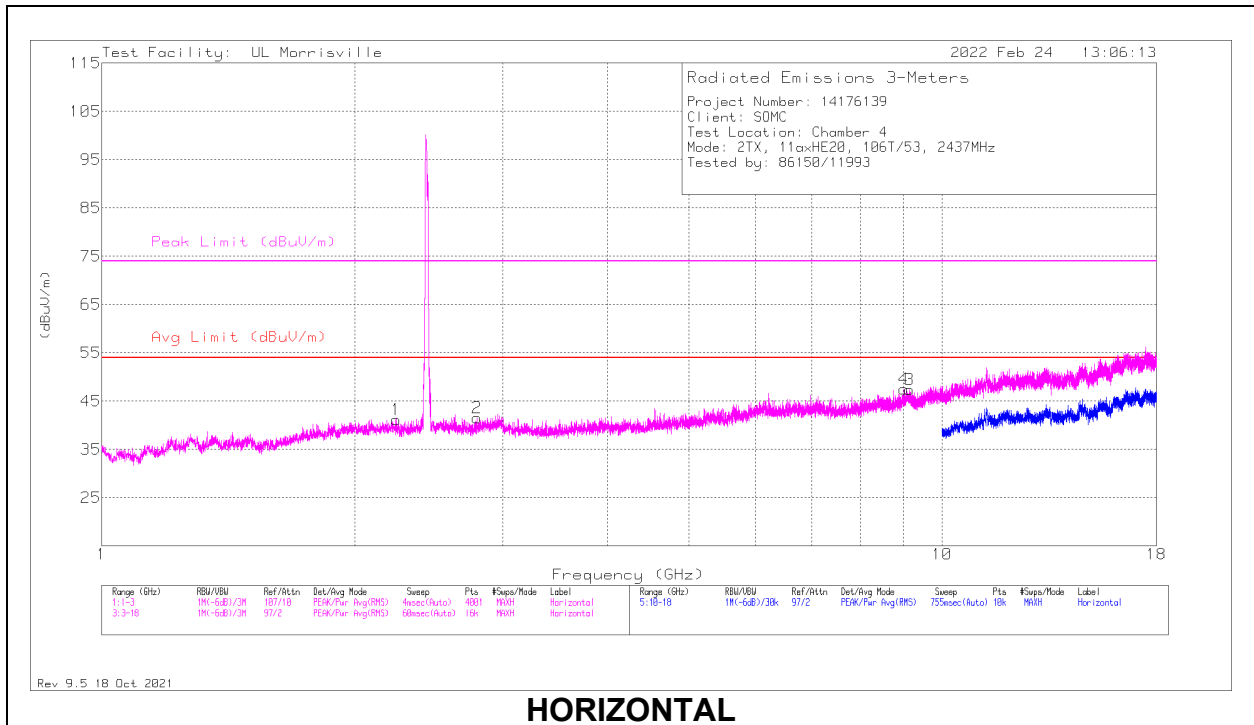
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 3.69094	41.01	Pk	33.3	-32	42.31	54	-11.69	74	-31.69	0-360	199	V
5	*** 9.05156	37.65	Pk	36.2	-26	47.85	54	-6.15	74	-26.15	0-360	101	V
2	*** 9.0975	36.88	Pk	36.3	-25.3	47.88	54	-6.12	74	-26.12	0-360	199	H
6	*** 9.36188	36.44	Pk	36.6	-25.6	47.44	54	-6.56	74	-26.56	0-360	199	V
3	*** 9.41344	35.93	Pk	36.7	-26	46.63	54	-7.37	74	-27.37	0-360	101	H
1	*** 2.2465	34.04	Pk	31.8	-23.6	42.24	54	-11.76	74	-31.76	0-360	199	H

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

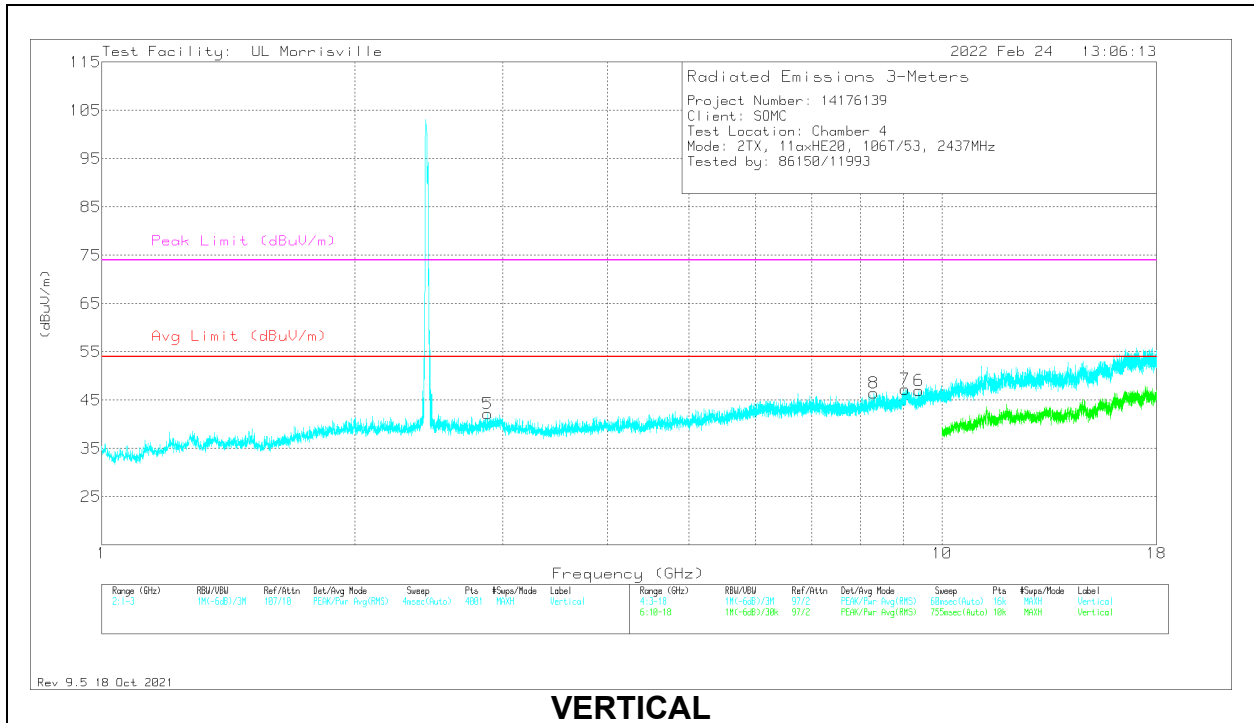
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	*** 8.29219	37.29	Pk	35.9	-26.7	46.49	54	-7.51	74	-27.51	0-360	101	V
4	*** 9.0075	37.42	Pk	36.2	-26.1	47.52	54	-6.48	74	-26.48	0-360	200	H
7	*** 9.04688	37.16	Pk	36.2	-26.1	47.26	54	-6.74	74	-26.74	0-360	101	V
3	*** 9.15188	36.09	Pk	36.3	-25	47.39	54	-6.61	74	-26.61	0-360	200	H
6	*** 9.38906	36.45	Pk	36.6	-26.1	46.95	54	-7.05	74	-27.05	0-360	200	V
1	*** 2.241	32.8	Pk	31.8	-23.5	41.1	54	-12.9	74	-32.9	0-360	101	H
2	*** 2.7975	34.92	Pk	32.4	-25.8	41.52	54	-12.48	74	-32.48	0-360	101	H
5	*** 2.881	35.44	Pk	32.6	-25.8	42.24	54	-11.76	74	-31.76	0-360	101	V

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

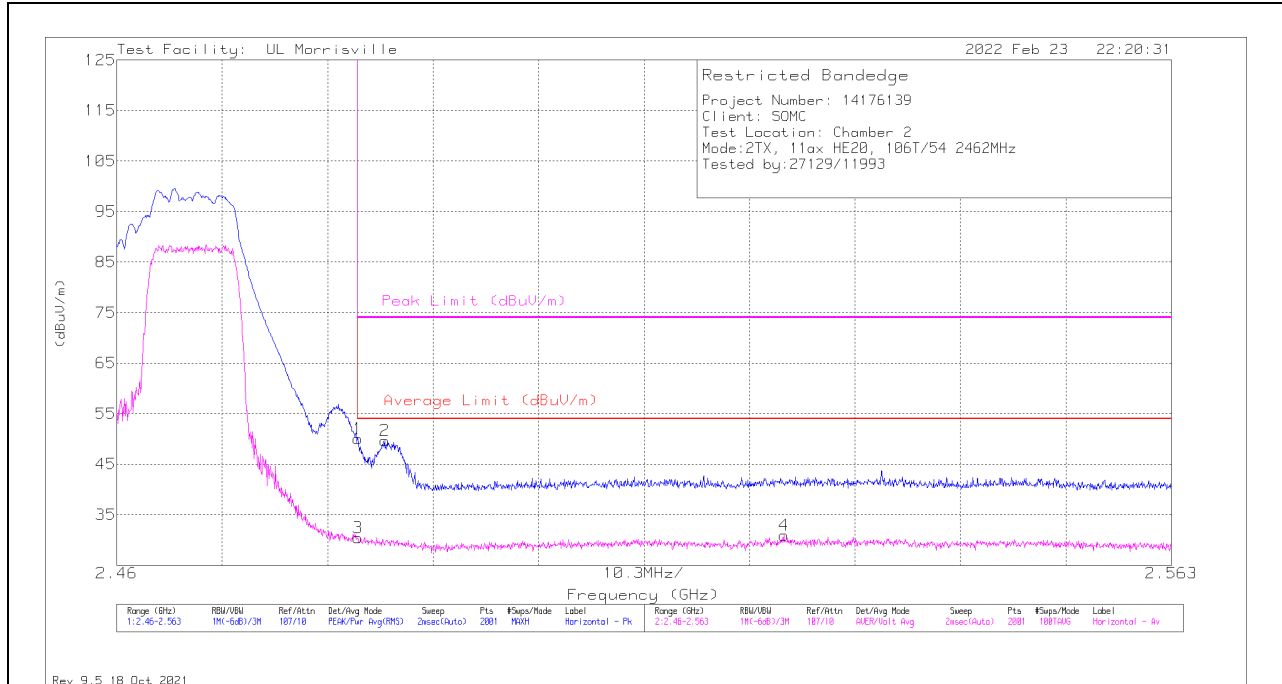
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

2TX Chain 0 + Chain 1 OFDMA MODE: 106-Tones, RU Index 54

BANDEDGE (HIGH CHANNEL 11)

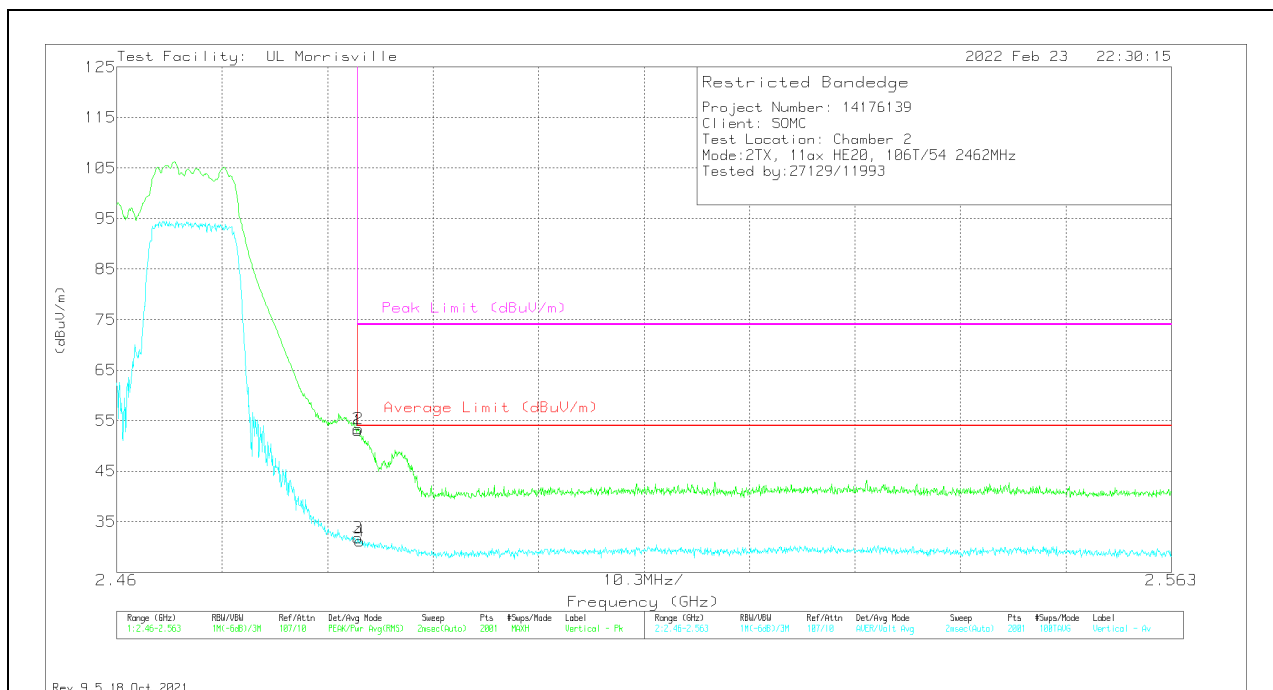
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.48354	42.17	Pk	32.5	-24.6	50.07	-	-	74	-23.93	89	282	H
2	*** 2.48616	42.09	Pk	32.5	-24.9	49.69	-	-	74	-24.31	89	282	H
3	*** 2.48354	22.5	ADV	32.5	-24.6	30.4	54	-23.6	-	-	89	282	H
4	** 2.52515	22.79	ADV	32.8	-24.7	30.89	54	-23.11	-	-	89	282	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	AT0072 (dB/m)	Amp/Cbl/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	*** 2.48354	45.08	Pk	32.5	-24.6	52.98	-	-	74	-21.02	66	264	V
2	*** 2.48359	45.53	Pk	32.5	-24.6	53.43	-	-	74	-20.57	66	264	V
3	*** 2.48354	23.84	ADV	32.5	-24.6	31.74	54	-22.26	-	-	66	264	V
4	*** 2.48374	23.28	ADV	32.5	-24.6	31.18	54	-22.82	-	-	66	264	V

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

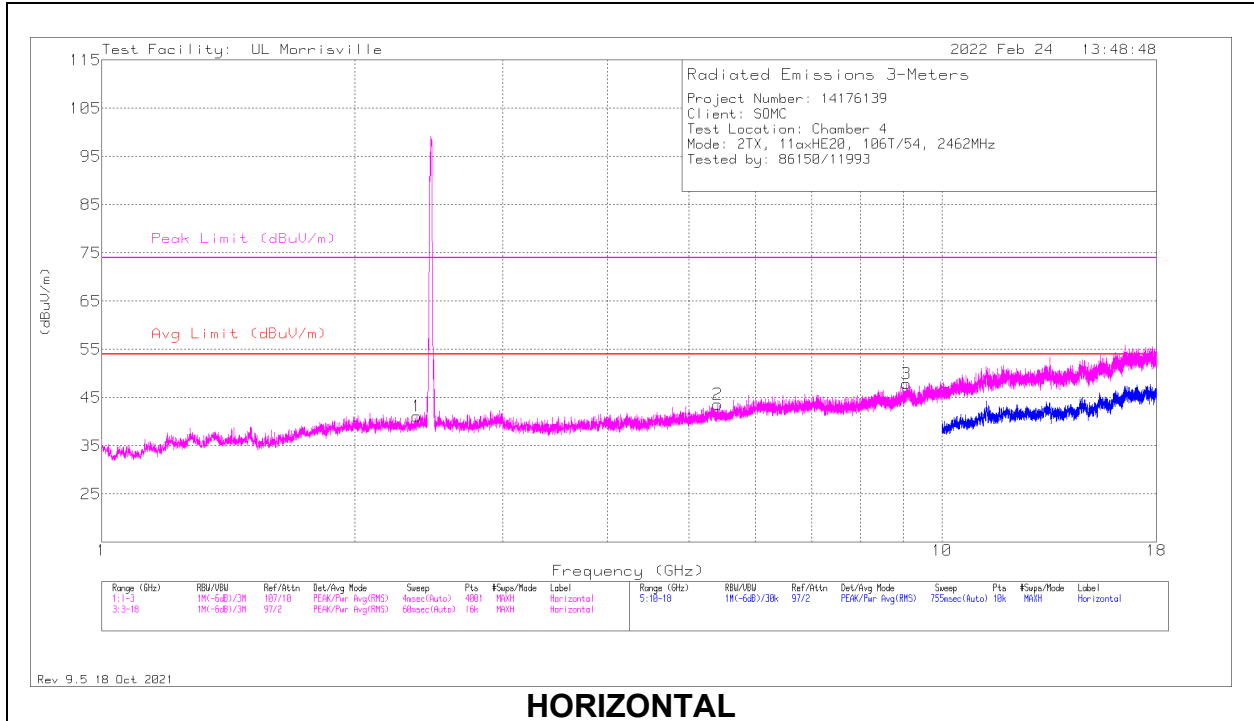
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

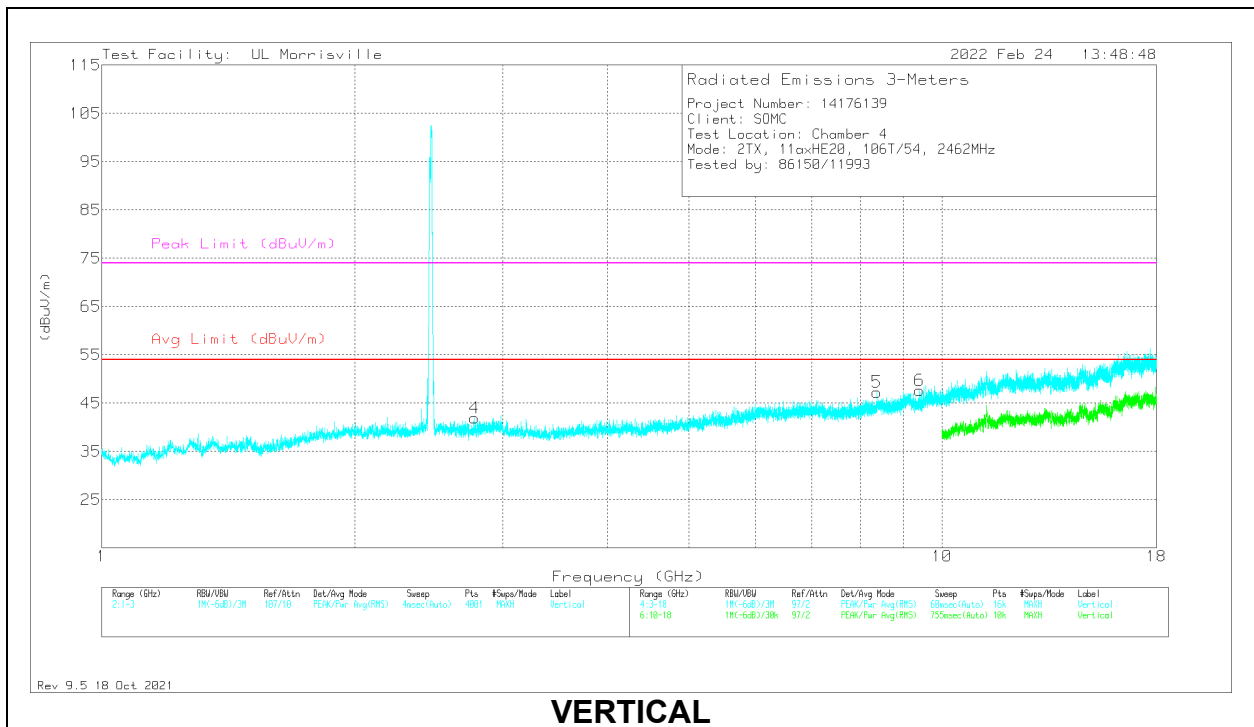
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* ** 5.41031	38.12	Pk	34.5	-29	43.62	54	-10.38	74	-30.38	0-360	101	H
5	* ** 8.36344	37.92	Pk	35.8	-26.4	47.32	54	-6.68	74	-26.68	0-360	199	V
3	* ** 9.07219	37.21	Pk	36.3	-25.6	47.91	54	-6.09	74	-26.09	0-360	101	H
6	* ** 9.405	36.52	Pk	36.7	-25.6	47.62	54	-6.38	74	-26.38	0-360	199	V
1	* ** 2.3705	32.93	Pk	32.2	-24	41.13	54	-12.87	74	-32.87	0-360	101	H
4	* ** 2.78	35.28	Pk	32.4	-25.8	41.88	54	-12.12	74	-32.12	0-360	199	V

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

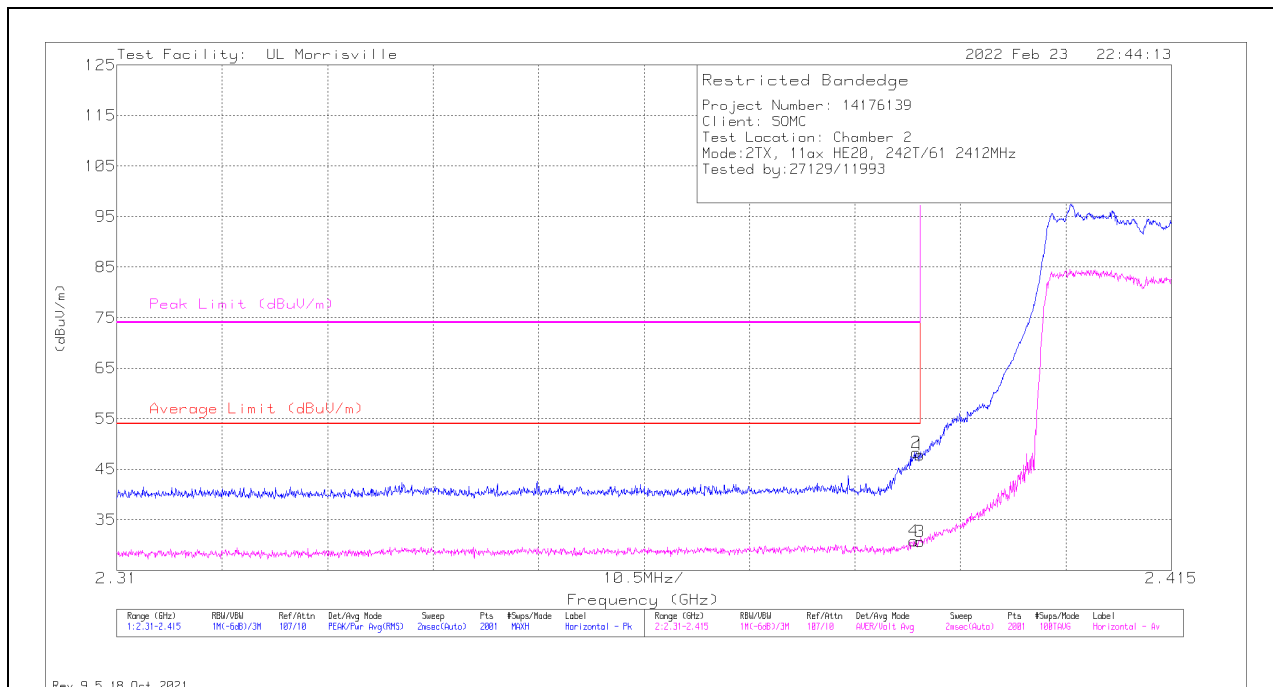
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

2TX Chain 0 + Chain 1 OFDMA MODE: 242-Tones, RU Index 61

BANDEDGE (LOW CHANNEL 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.38996	40.03	Pk	31.9	-24.1	47.83	-	-	74	-26.17	8	245	H
2	*** 2.38959	40.49	Pk	31.9	-24.1	48.29	-	-	74	-25.71	8	245	H
3	*** 2.38996	22.89	ADV	31.9	-24.1	30.69	54	-23.31	-	-	8	245	H
4	*** 2.38938	23.04	ADV	31.9	-24.1	30.84	54	-23.16	-	-	8	245	H

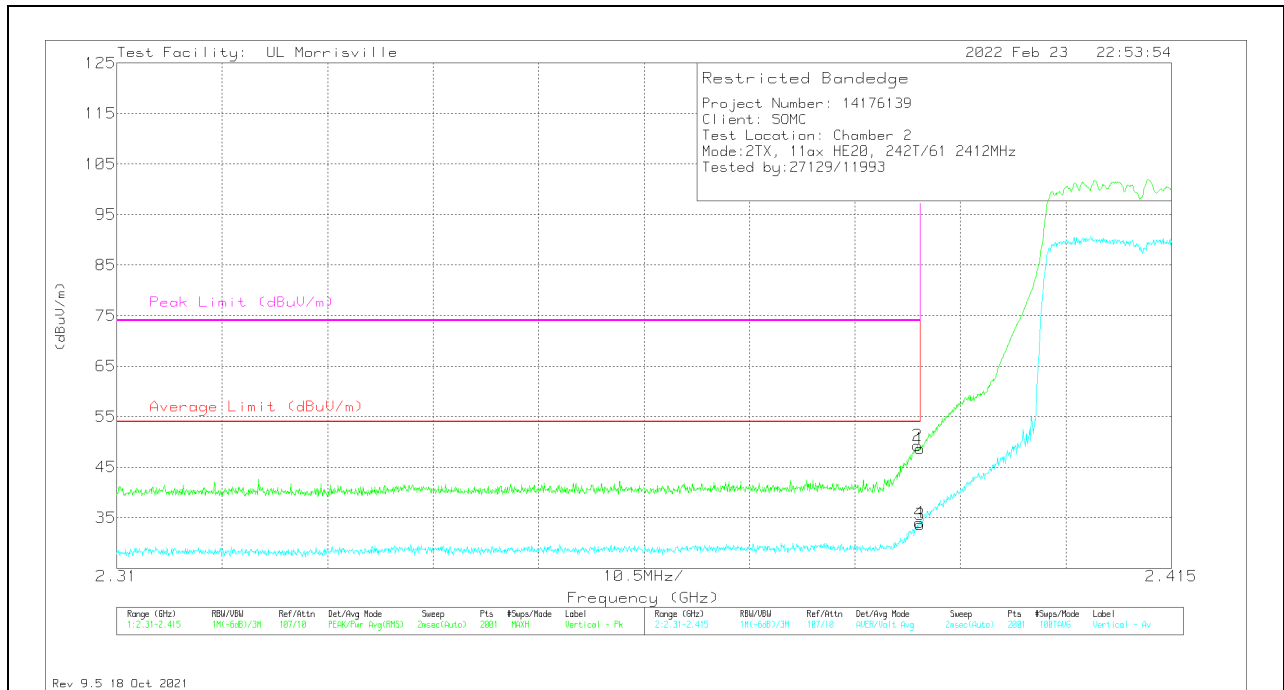
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

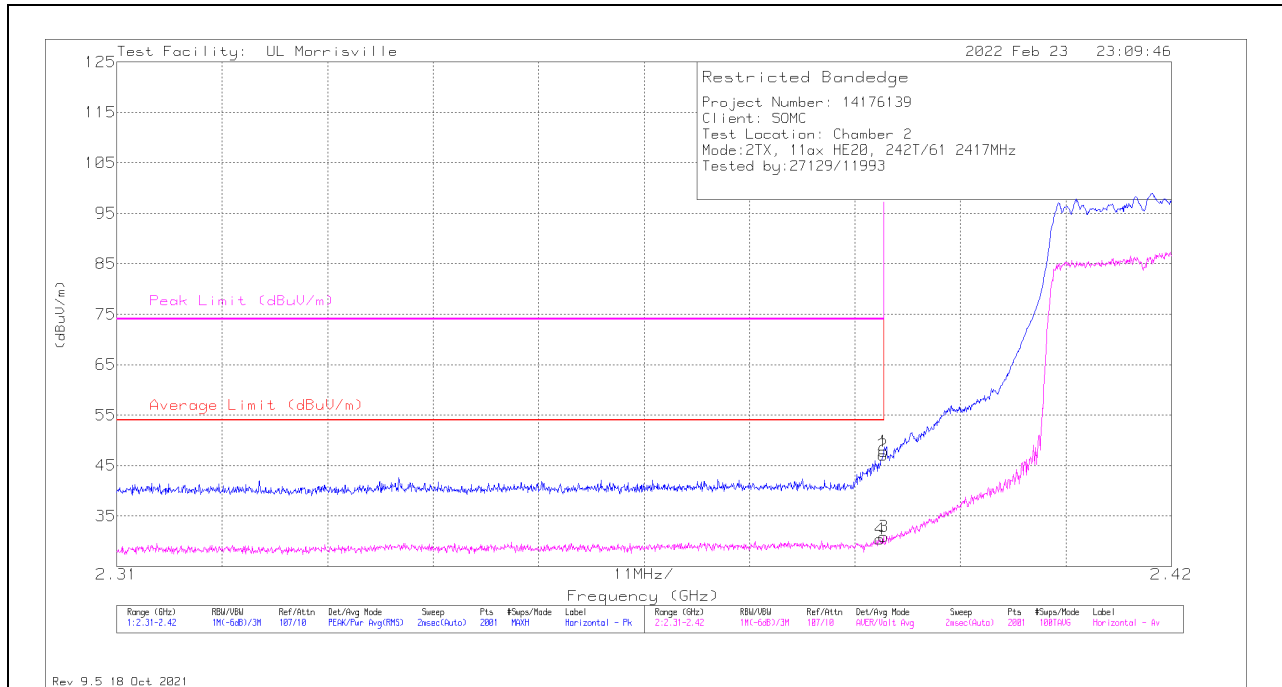


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	40.89	Pk	31.9	-24.1	48.69	-	-	74	-25.31	68	248	V
2	* ** 2.38975	41.47	Pk	31.9	-24.1	49.27	-	-	74	-24.73	68	248	V
3	* ** 2.38996	25.87	ADV	31.9	-24.1	33.67	54	-20.33	-	-	68	248	V
4	* ** 2.38991	26.19	ADV	31.9	-24.1	33.99	54	-20.01	-	-	68	248	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

BANDEDGE (LOW CHANNEL 2)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.38997	40.06	Pk	31.9	-24.1	47.86	-	-	74	-26.14	21	112	H
2	*** 2.38992	39.29	Pk	31.9	-24.1	47.09	-	-	74	-26.91	21	112	H
3	*** 2.38997	23.09	ADV	31.9	-24.1	30.89	54	-23.11	-	-	21	112	H
4	*** 2.38959	22.61	ADV	31.9	-24.1	30.41	54	-23.59	-	-	21	112	H

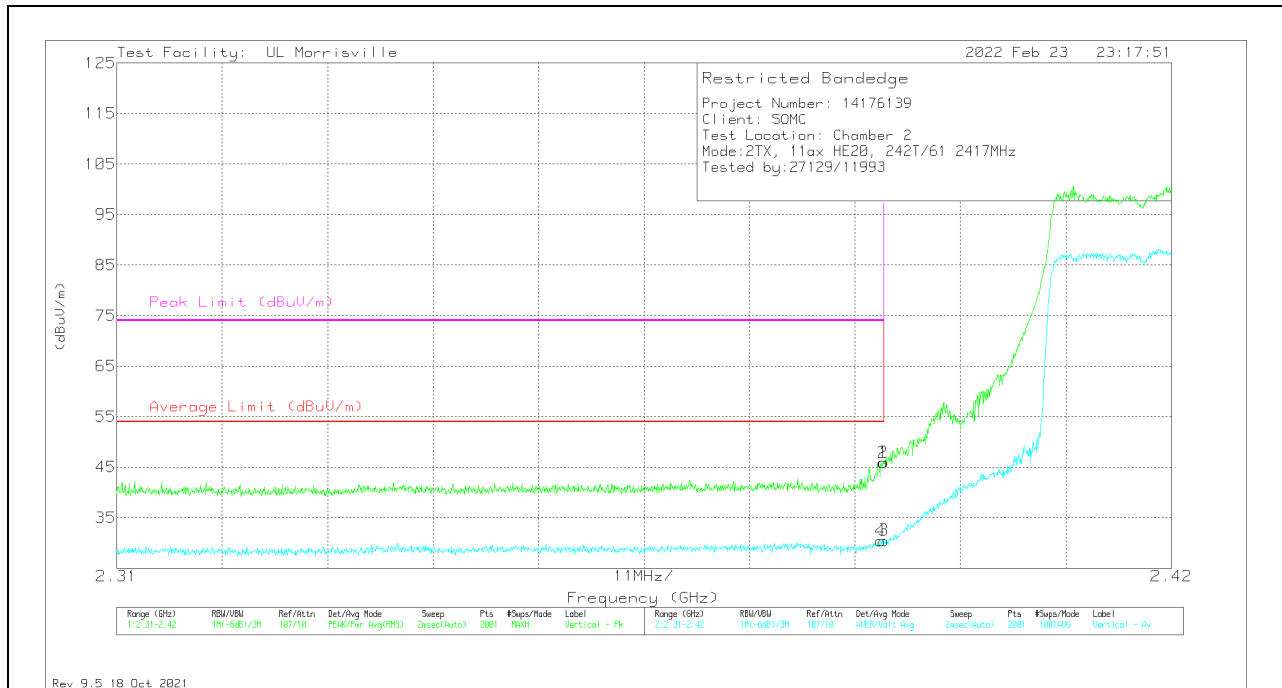
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

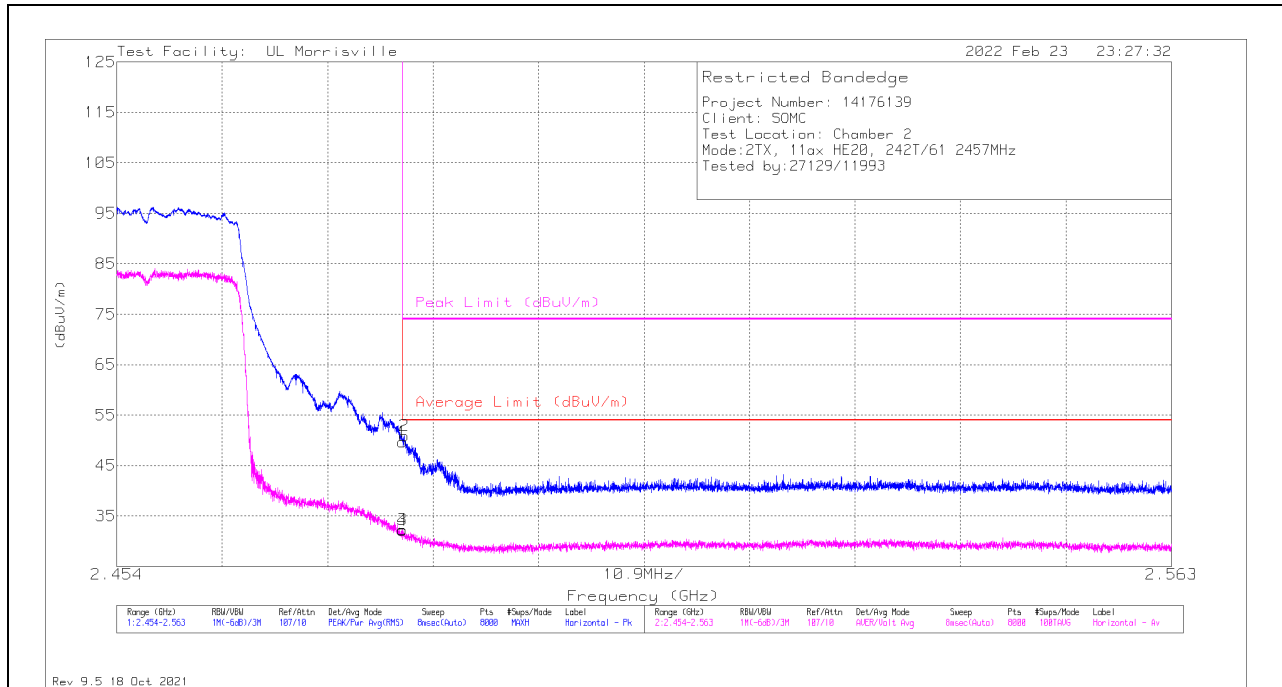


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38997	38.09	Pk	31.9	-24.1	45.89	-	-	74	-28.11	1	109	V
2	* ** 2.38992	38.18	Pk	31.9	-24.1	45.98	-	-	74	-28.02	1	109	V
3	* ** 2.38997	22.69	ADV	31.9	-24.1	30.49	54	-23.51	-	-	1	109	V
4	* ** 2.3897	22.62	ADV	31.9	-24.1	30.42	54	-23.58	-	-	1	109	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 10)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	41.74	Pk	32.5	-24.6	49.64	-	-	74	-24.36	38	103	H
2	*** 2.48369	43.02	Pk	32.5	-24.6	50.92	-	-	74	-23.08	38	103	H
3	*** 2.4835	24.35	ADV	32.5	-24.6	32.25	54	-21.75	-	-	38	103	H
4	*** 2.48356	24.31	ADV	32.5	-24.6	32.21	54	-21.79	-	-	38	103	H

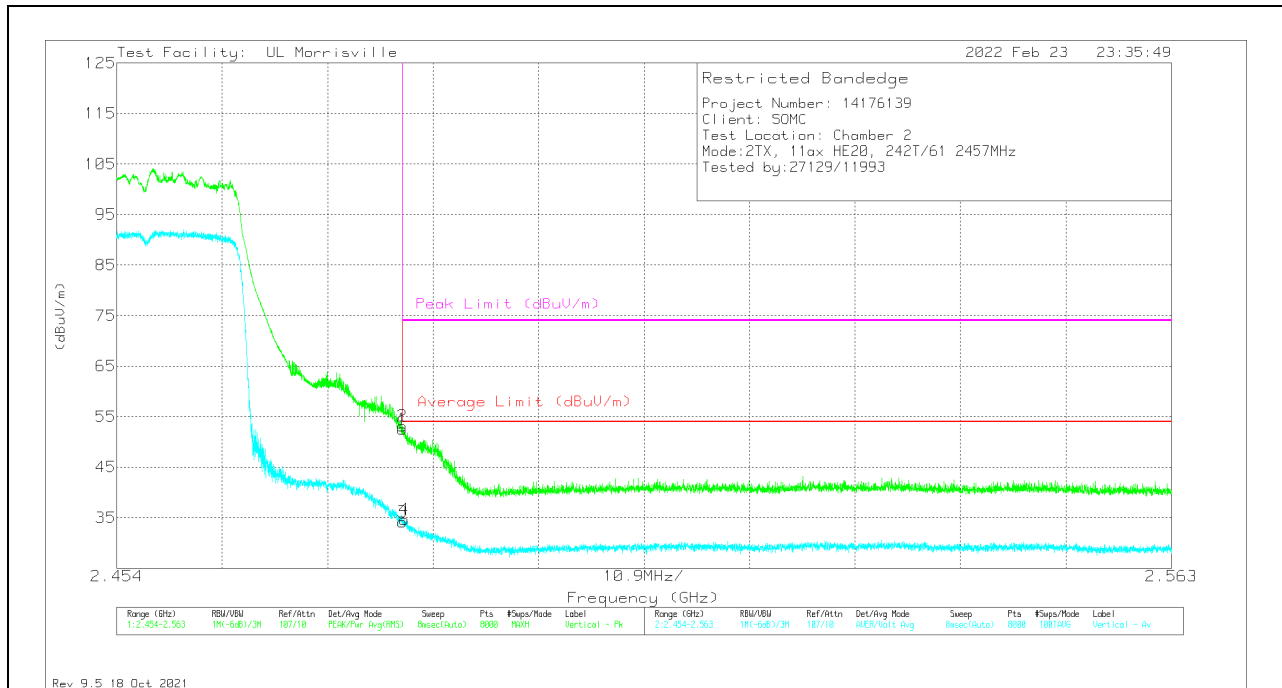
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	44.68	Pk	32.5	-24.6	52.58	-	-	74	-21.42	37	243	V
2	* ** 2.48352	45.21	Pk	32.5	-24.6	53.11	-	-	74	-20.89	37	243	V
3	* ** 2.4835	26.22	ADV	32.5	-24.6	34.12	54	-19.88	-	-	37	242	V
4	* ** 2.48369	26.77	ADV	32.5	-24.6	34.67	54	-19.33	-	-	37	242	V

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

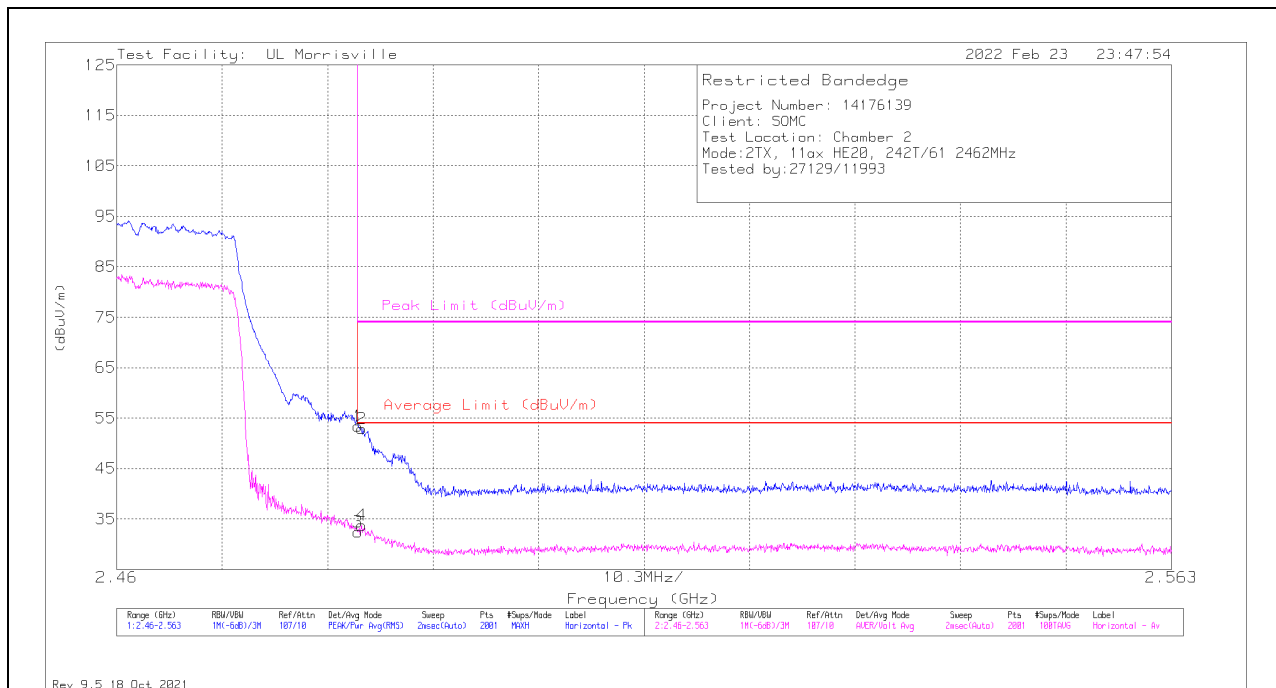
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL 11)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	*** 2.48354	45.54	Pk	32.5	-24.6	53.44	-	-	74	-20.56	38	102	H
2	*** 2.4839	45.12	Pk	32.5	-24.7	52.92	-	-	74	-21.08	38	102	H
3	*** 2.48354	24.52	ADV	32.5	-24.6	32.42	54	-21.58	-	-	38	102	H
4	*** 2.4839	25.92	ADV	32.5	-24.7	33.72	54	-20.28	-	-	38	102	H

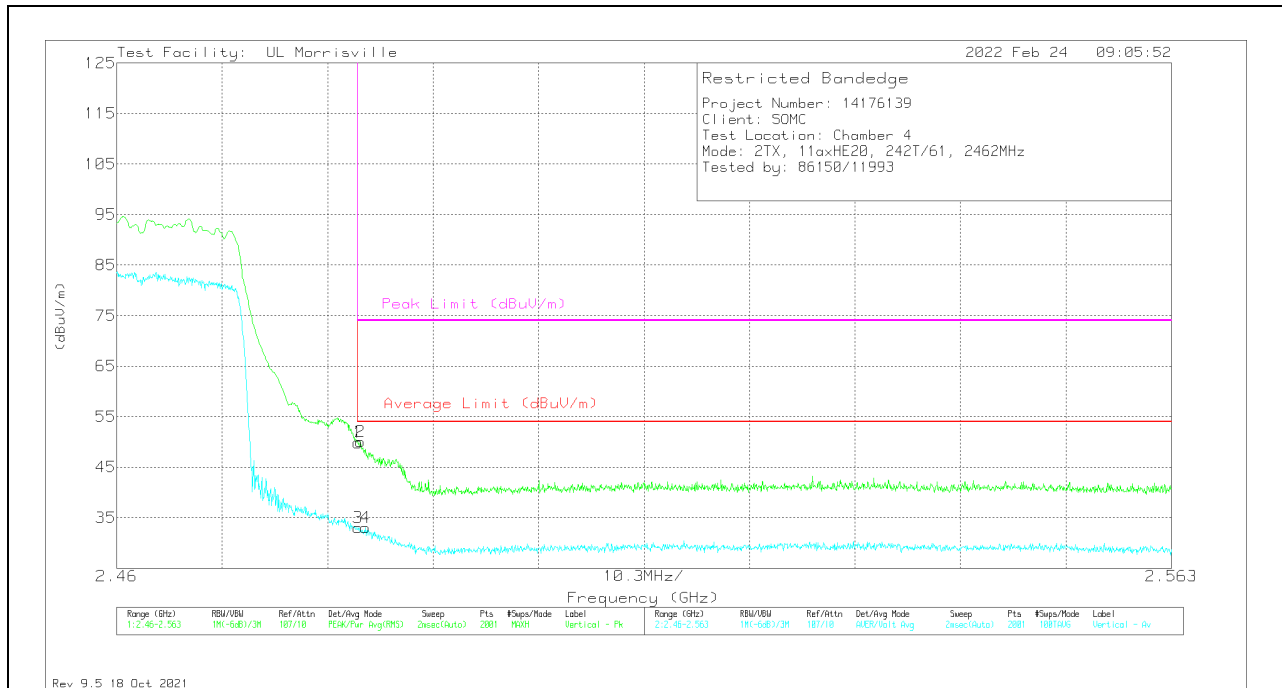
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/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	* ** 2.48354	41.96	Pk	32.5	-24.6	49.86	-	-	74	-24.14	344	147	V
2	* ** 2.48379	42.17	Pk	32.5	-24.6	50.07	-	-	74	-23.93	344	147	V
3	* ** 2.48354	25.16	ADV	32.5	-24.6	33.06	54	-20.94	-	-	344	147	V
4	* ** 2.48431	25.18	ADV	32.5	-24.7	32.98	54	-21.02	-	-	344	147	V

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

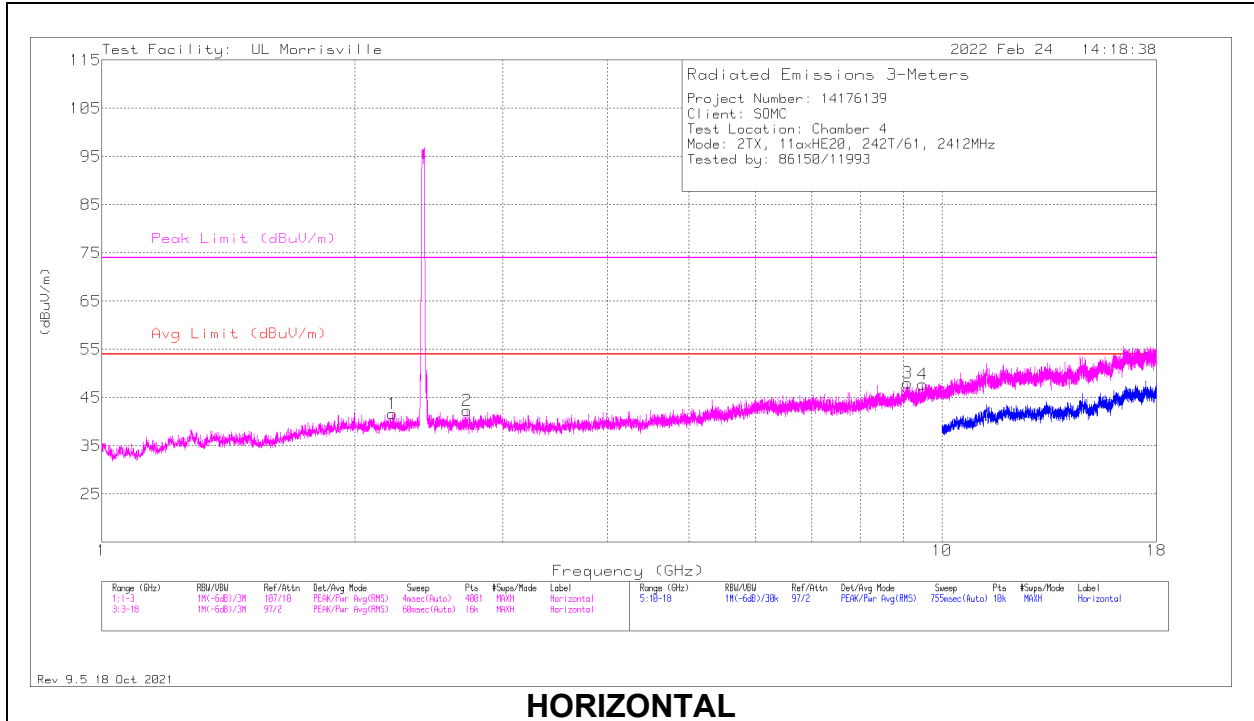
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

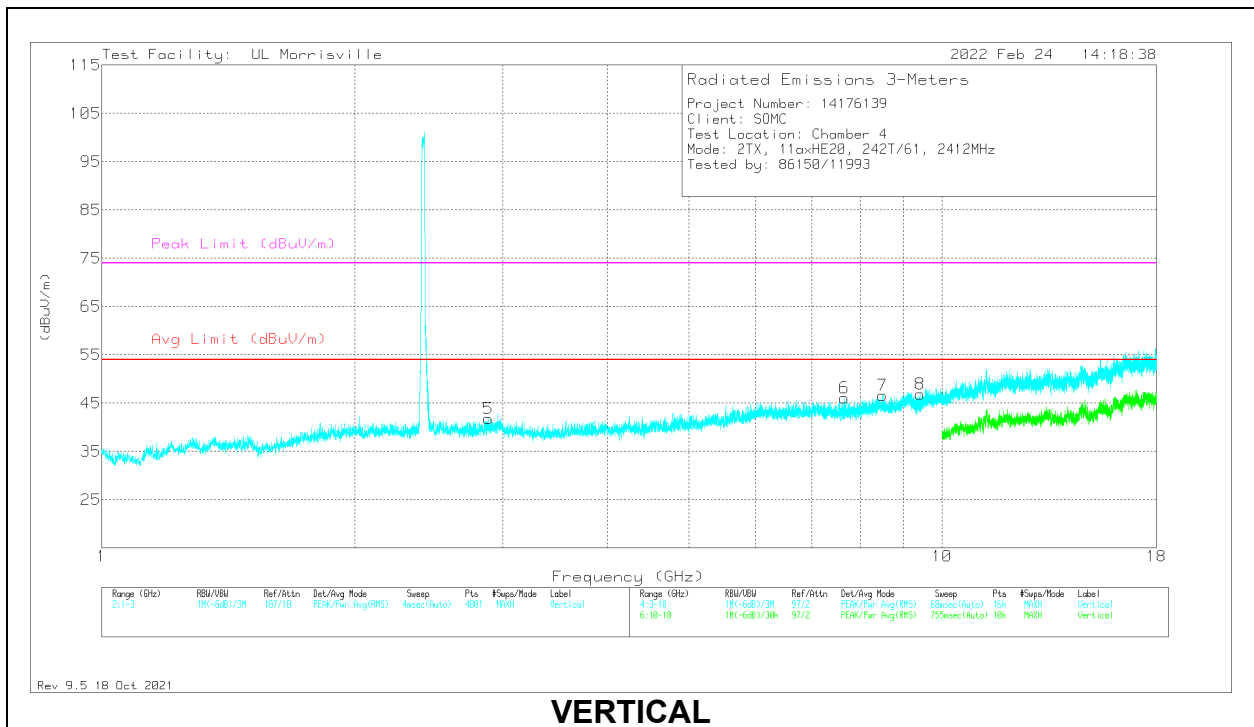
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL 1 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	*** 7.64906	37.09	Pk	35.7	-26.7	46.09	54	-7.91	74	-27.91	0-360	199	V
7	*** 8.49469	36.84	Pk	36	-26.2	46.64	54	-7.36	74	-27.36	0-360	199	V
3	*** 9.10187	38	PK2	36.3	-25.4	48.9	-	-	74	-25.1	121	239	H
	*** 9.10204	25.21	ADV	36.3	-25.4	36.11	54	-17.89	-	-	121	239	H
8	*** 9.42	36.38	Pk	36.6	-26.1	46.88	54	-7.12	74	-27.12	0-360	199	V
4	*** 9.48469	37.1	Pk	36.6	-25.9	47.8	54	-6.2	74	-26.2	0-360	101	H
1	*** 2.22	33.13	Pk	31.9	-23.3	41.73	54	-12.27	74	-32.27	0-360	101	H
2	*** 2.7195	35.48	Pk	32.5	-25.7	42.28	54	-11.72	74	-31.72	0-360	101	H
5	*** 2.8855	34.8	Pk	32.7	-25.7	41.8	54	-12.2	74	-32.2	0-360	199	V

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

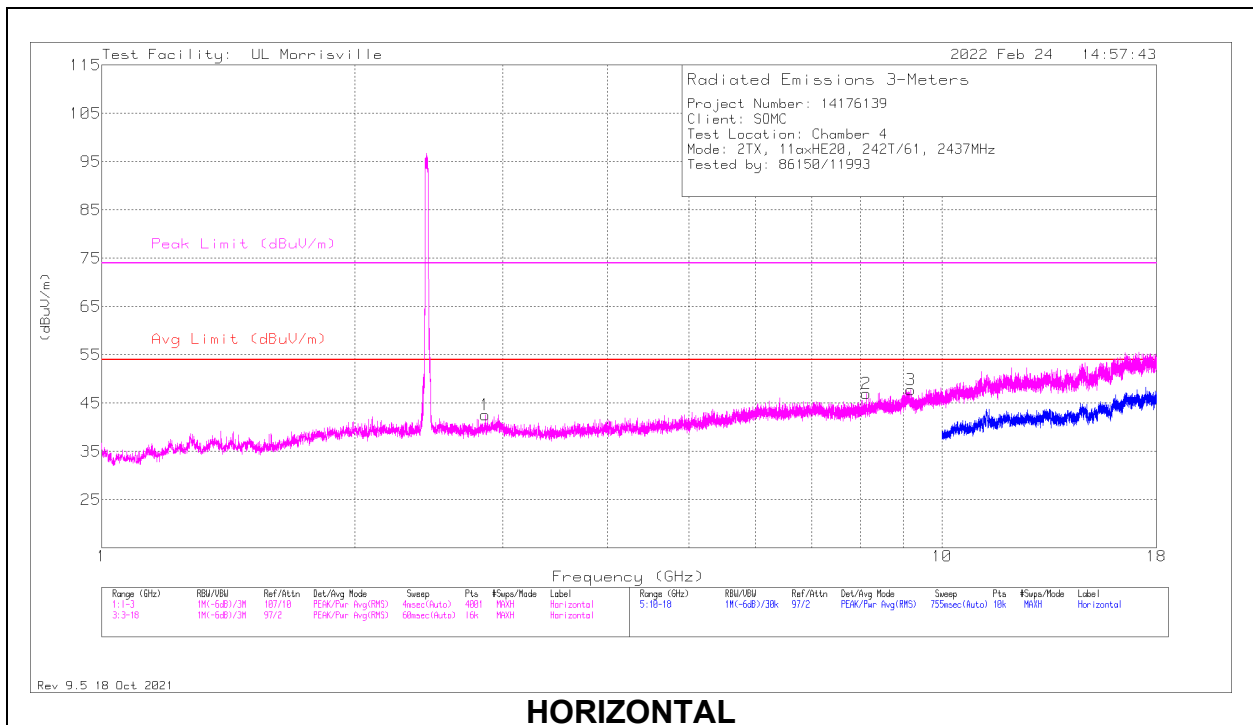
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

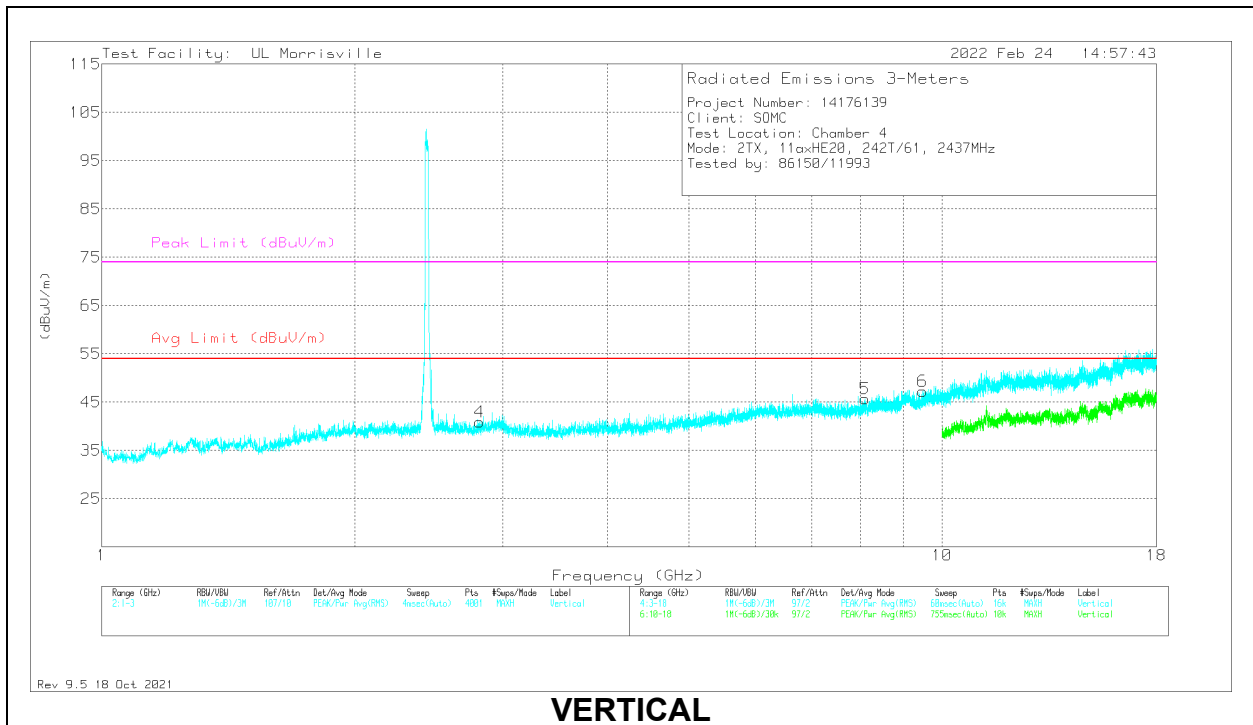
PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

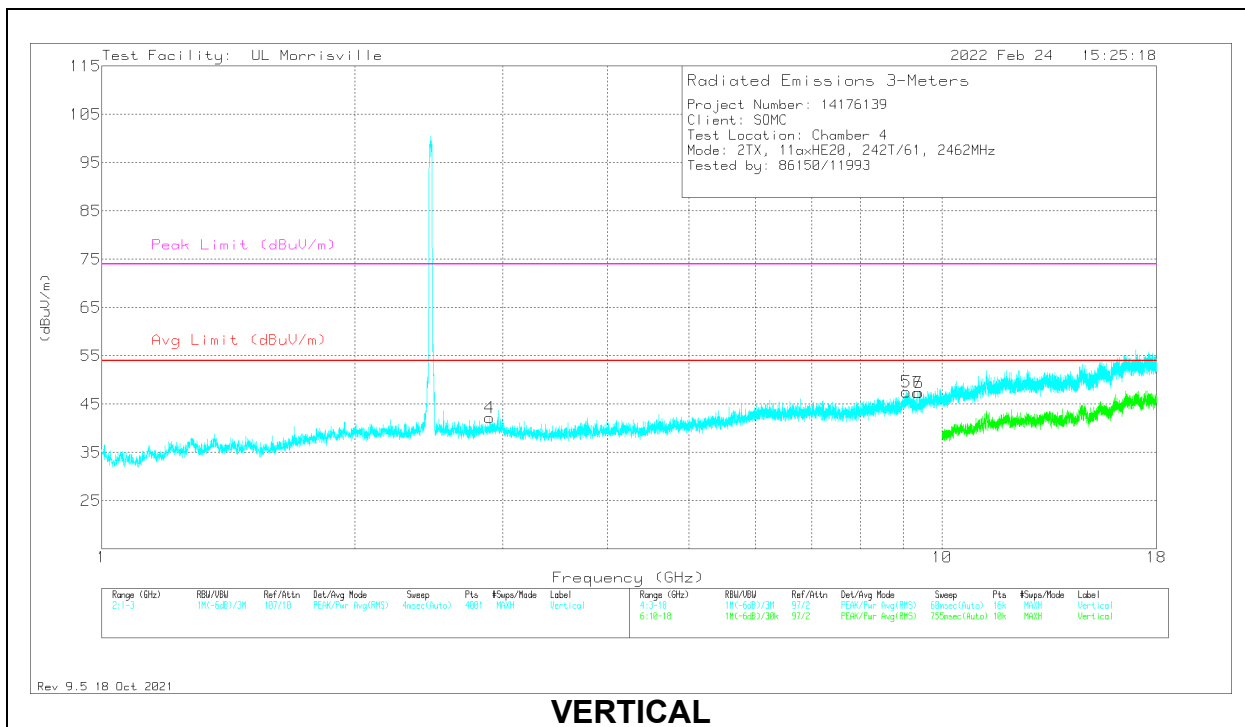
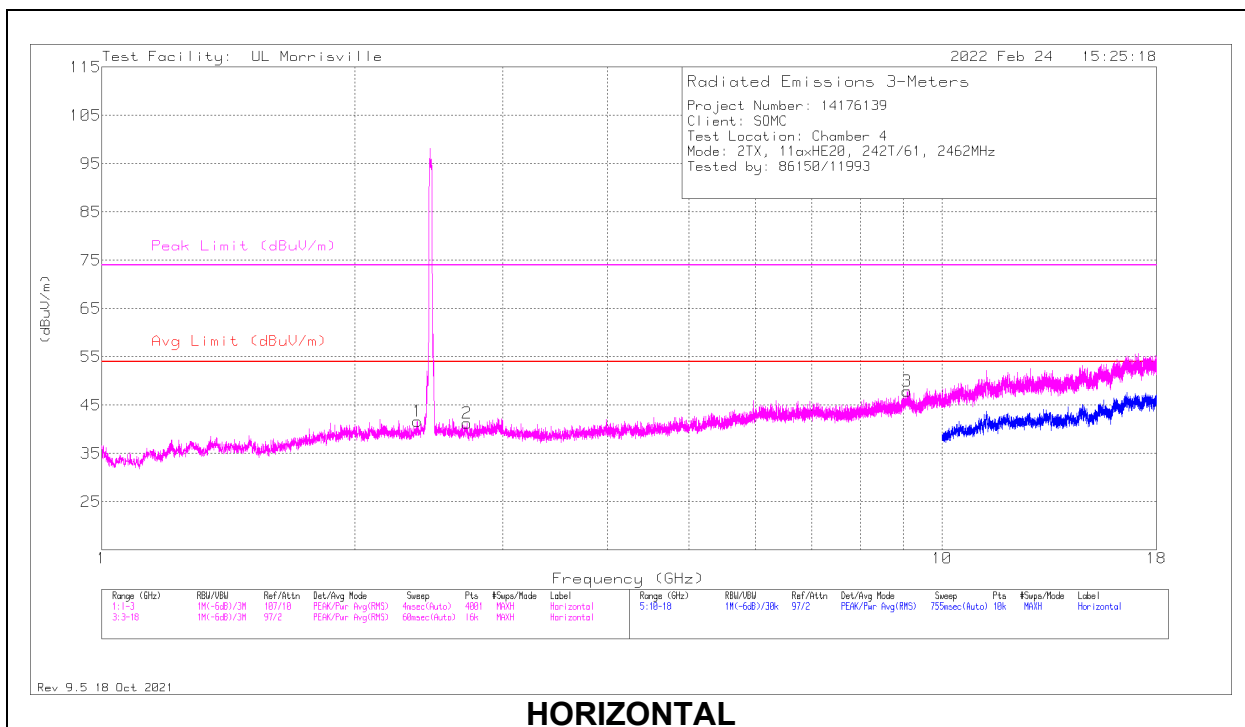
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	*** 8.09344	36.46	Pk	35.9	-26.6	45.76	54	-8.24	74	-28.24	0-360	199	V
2	*** 8.13	37.48	Pk	35.9	-26.4	46.98	54	-7.02	74	-27.02	0-360	101	H
3	*** 9.17719	37.09	Pk	36.3	-25.6	47.79	54	-6.21	74	-26.21	0-360	199	H
6	*** 9.49031	36.46	Pk	36.6	-25.8	47.26	54	-6.74	74	-26.74	0-360	199	V
1	*** 2.859	35.78	Pk	33	-26.2	42.58	54	-11.42	74	-31.42	0-360	199	H
4	*** 2.8155	34.1	Pk	32.6	-25.8	40.9	54	-13.1	74	-33.1	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* ** 9.0675	36.63	Pk	36.3	-25.4	47.53	54	-6.47	74	-26.47	0-360	101	V
3	* ** 9.08531	37.03	Pk	36.3	-25.4	47.93	54	-6.07	74	-26.07	0-360	200	H
7	* ** 9.35531	36.98	Pk	36.5	-26.1	47.38	54	-6.62	74	-26.62	0-360	101	V
6	* ** 9.38344	36.3	Pk	36.6	-25.5	47.4	54	-6.6	74	-26.6	0-360	200	V
1	* ** 2.3755	33.42	Pk	32.4	-24.2	41.62	54	-12.38	74	-32.38	0-360	101	H
2	* ** 2.719	34.45	Pk	32.5	-25.7	41.25	54	-12.75	74	-32.75	0-360	101	H
4	* ** 2.894	35.46	Pk	32.7	-26	42.16	54	-11.84	74	-31.84	0-360	101	V

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

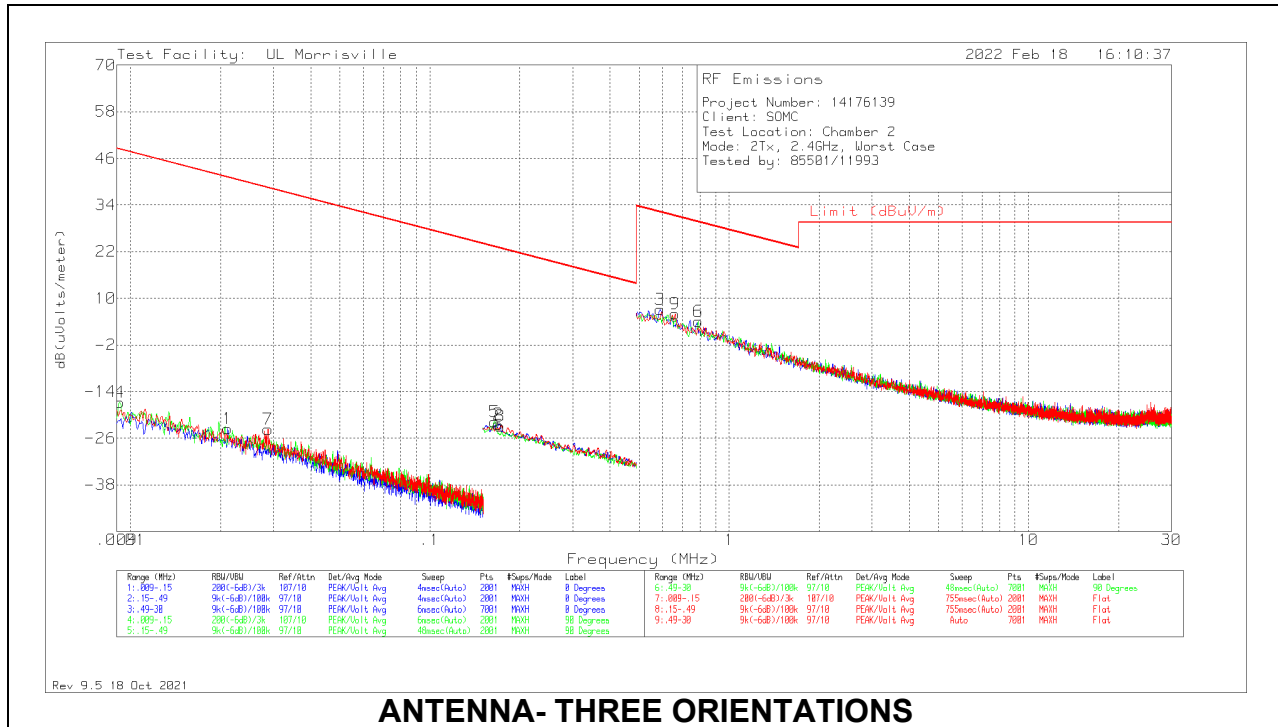
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.1. WORST CASE BELOW 30MHZ

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

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION, E-FIELD)



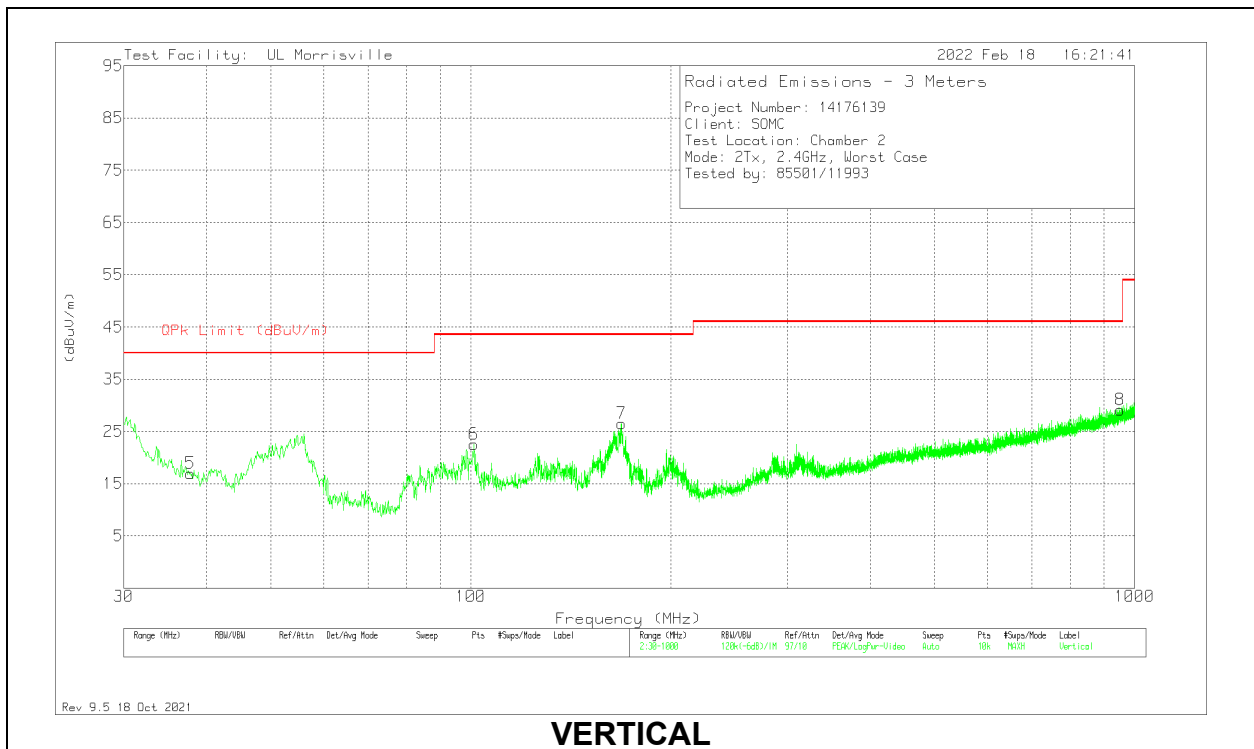
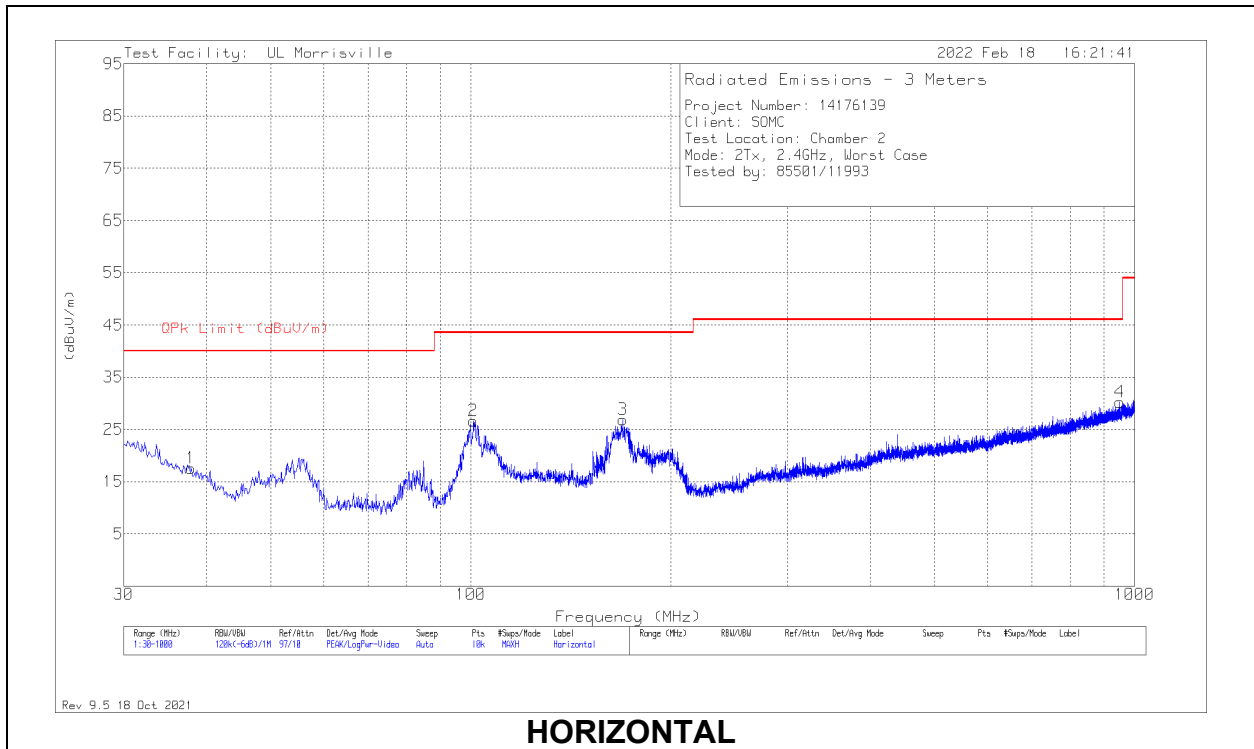
ANTENNA- THREE ORIENTATIONS

Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Qp/Av Limit (dBuV/m)	FCC 15.209 Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.00921	44.06	Pk	19.1	.1	-80	-16.74	48.32	68.32	-65.06	0-360	401	90 degs
1	.02114	42.41	Pk	14	.1	-80	-23.49	41.1	61.1	-64.59	0-360	401	0 degs
7	.02881	42.78	Pk	13.4	.1	-80	-23.72	38.41	58.41	-62.13	0-360	401	Flat
5	.16479	46.96	Pk	11.2	.1	-80	-21.74	23.27	43.27	-45.01	0-360	401	90 degs
2	.16972	46.27	Pk	11.2	.1	-80	-22.43	23.01	43.01	-45.44	0-360	401	0 degs
8	.17176	45.74	Pk	11.2	.1	-80	-22.96	22.91	42.91	-45.87	0-360	401	Flat
3	.58697	35.68	Pk	11.2	.2	-40	7.08	32.23	-	-25.15	0-360	401	0 degs
9	.65864	34.42	Pk	11.3	.2	-40	5.92	31.23	-	-25.31	0-360	401	Flat
6	.78934	32.58	Pk	11.3	.2	-40	4.08	29.66	-	-25.58	0-360	401	90 degs

Pk - Peak detector

10.2. WORST CASE BELOW 1 GHZ



Below 1GHz DATA

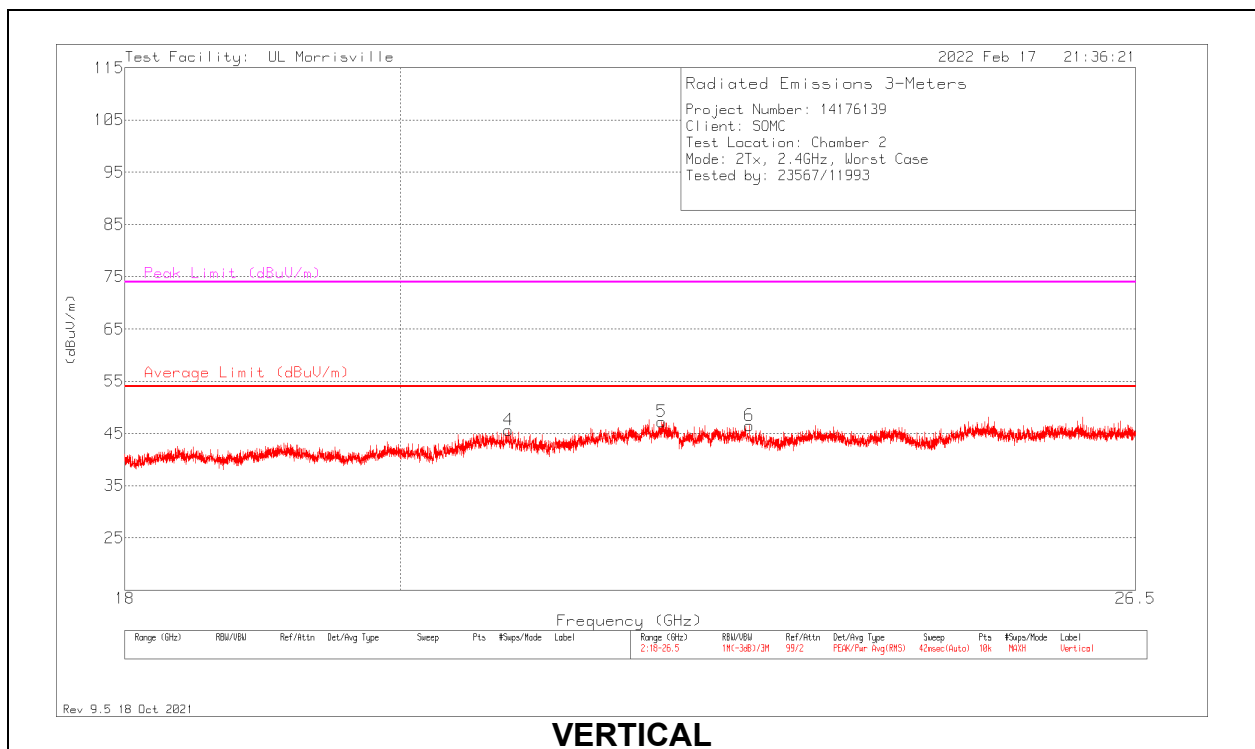
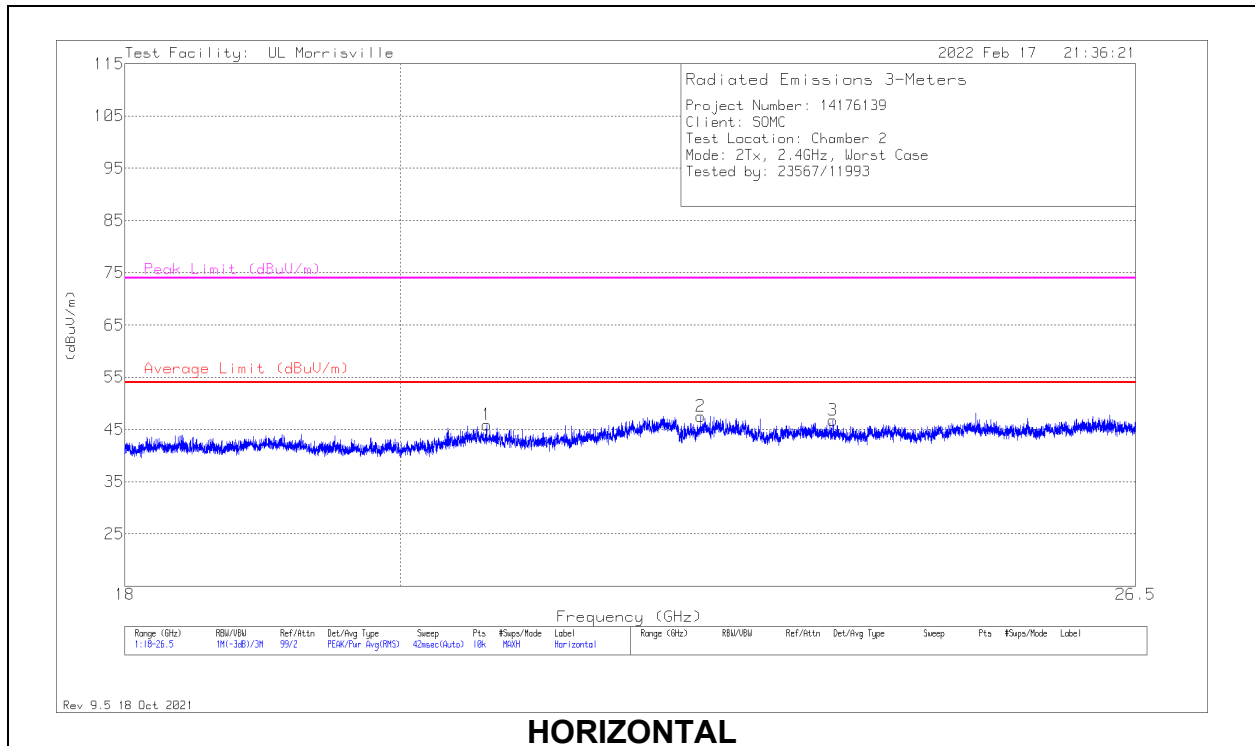
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0073 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 37.857	27.44	Pk	21.4	-31.3	17.54	40	-22.46	0-360	101	H
3	* ** 169.486	38.62	Pk	18	-29.7	26.92	43.52	-16.6	0-360	199	H
4	** 950.142	26.19	Pk	28.9	-24.9	30.19	46.02	-15.83	0-360	101	H
5	* ** 37.76	26.84	Pk	21.5	-31.4	16.94	40	-23.06	0-360	199	V
7	* ** 168.613	38.14	Pk	18	-29.6	26.54	43.52	-16.98	0-360	101	V
8	** 951.015	25.14	Pk	28.9	-24.9	29.14	46.02	-16.88	0-360	199	V
2	100.907	40.45	Pk	16.7	-30.5	26.65	43.52	-16.87	0-360	399	H
6	101.101	36.3	Pk	16.7	-30.5	22.5	43.52	-21.02	0-360	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.3. WORST CASE 18-26 GHZ



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 (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	*** 20.67298	50.43	Pk	33.9	-38.5	45.83	54	-8.17	74	-28.17	0-360	200	H
2	*** 22.43826	49.34	Pk	36.5	-38.4	47.44	54	-6.56	74	-26.56	0-360	101	H
3	*** 23.60349	49.09	Pk	34.9	-37.2	46.79	54	-7.21	74	-27.21	0-360	101	H
4	*** 20.84892	49.3	Pk	34.1	-37.8	45.6	54	-8.4	74	-28.4	0-360	250	V
5	*** 22.10594	48.3	Pk	37.1	-38.1	47.3	54	-6.7	74	-26.7	0-360	250	V
6	*** 22.85811	48.55	Pk	35.7	-37.7	46.55	54	-7.45	74	-27.45	0-360	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

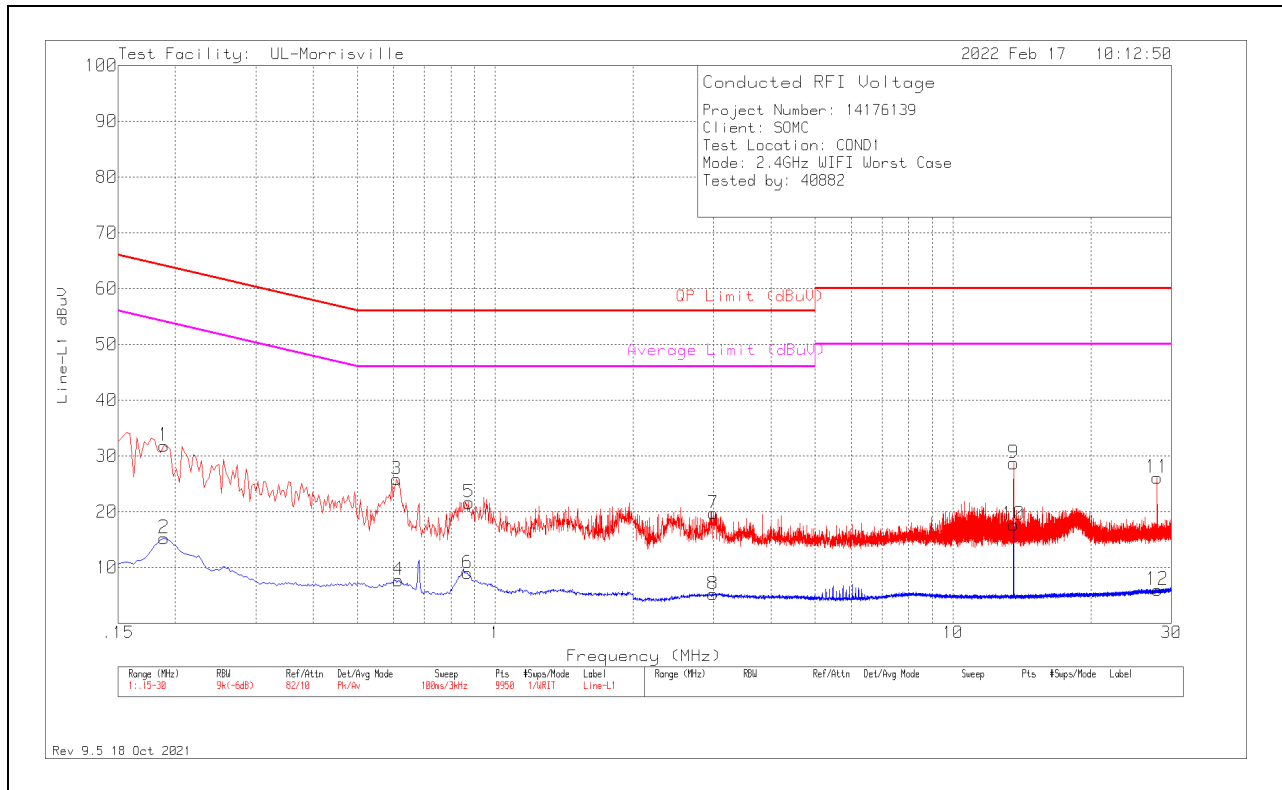
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1.1. AC Power Line Norm

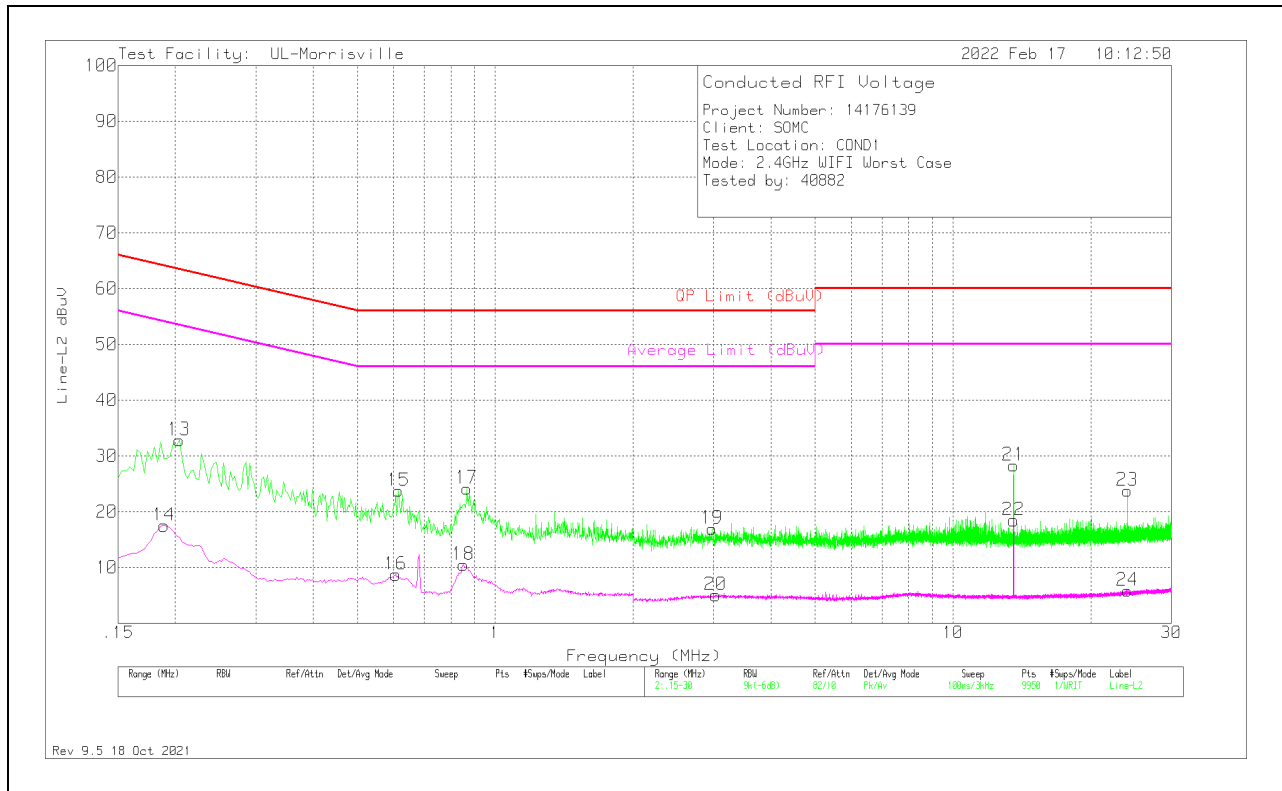
LINE 1 RESULTS



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	.189	21.88	Pk	.2	9.8	31.88	64.08	-32.2	-	-
2	.189	5.27	Av	.2	9.8	15.27	-	-	54.08	-38.81
3	.609	16.03	Pk	0	9.8	25.83	56	-30.17	-	-
4	.615	-2.04	Av	0	9.8	7.76	-	-	46	-38.24
6	.87	-.8	Av	0	9.8	9	-	-	46	-37
5	.876	11.87	Pk	0	9.8	21.67	56	-34.33	-	-
8	2.991	-4.55	Av	0	9.8	5.25	-	-	46	-40.75
7	2.997	9.93	Pk	0	9.8	19.73	56	-36.27	-	-
10	13.56	7.51	Av	.1	10.1	17.71	-	-	-	-
9	13.563	18.54	Pk	.1	10.1	28.74	-	-	-	-
11	27.93	15.64	Pk	.3	10.2	26.14	60	-33.86	-	-
12	27.954	-4.5	Av	.3	10.2	6	-	-	50	-44

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)
14	.189	7.53	Av	.2	9.8	17.53	-	-	54.08	-36.55
13	.204	22.95	Pk	.1	9.8	32.85	63.45	-30.6	-	-
16	.606	-1.05	Av	0	9.8	8.75	-	-	46	-37.25
15	.615	13.97	Pk	0	9.8	23.77	56	-32.23	-	-
18	.852	.7	Av	0	9.8	10.5	-	-	46	-35.5
17	.867	14.39	Pk	0	9.8	24.19	56	-31.81	-	-
19	2.976	7.2	Pk	0	9.8	17	56	-39	-	-
20	3.03	-4.71	Av	0	9.8	5.09	-	-	46	-40.91
21	13.56	18.13	Pk	.1	10.1	28.33	-	-	-	-
22	13.56	8.3	Av	.1	10.1	18.5	-	-	-	-
23	24.057	13.4	Pk	.2	10.2	23.8	60	-36.2	-	-
24	24.057	-4.53	Av	.2	10.2	5.87	-	-	50	-44.13

Pk - Peak detector
 Av - Average detection

12. SETUP PHOTOS

Please refer to R14176139-EP2 for setup photos

END OF TEST REPORT