

Product Name: Body Worn Camera	Report No: FCC022022-0616RF2(a)
Product Model: FirstVu PRO	Security Classification: Open
Version: V1.0	Total Page: 174

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
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RF TEST REPORT

FCC ID: WPZ-FVPRO

According to

47 CFR FCC Part 15, Subpart E(Section 15.407)

ANSI C63.10:2013

Equipment : Body Worn Camera
Model No. : FirstVu PRO
Trademark : Digital Ally
Product No. : 20220218001974
Applicant : Digital Ally, Inc.
14001 Marshall Drive Lenexa, Kansas 66215 United States

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.
- Test Date: 2022.02.07-2022.03.16
- Receipt date: 2022.02.07

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen
Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street,
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History of this test report

Original Report Issue Date: 2022.04.22

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Digital Ally, Inc.

14001 Marshall Drive Lenexa, Kansas 66215 United States

1.2 Manufacturer

Digital Ally, Inc.

14001 Marshall Drive Lenexa, Kansas 66215 United States

1.3 Factory

Digital Ally, Inc.

14001 Marshall Drive Lenexa, Kansas 66215 United States

1.4 Basic Description of Equipment Under Test

Items	Description	
Equipment Name	Body Worn Camera	
Model Number	FirstVu PRO	
Trademark	Digital Ally	
Power Supply	Adapter Model: AS1201A-0502000USU Input: 100-240V~50/60Hz 0.35A MAX Output: 5V 2000mA	
	Battery Model: A213A 3.8V 3450mAh 13.11Wh	
Operating Temperature	-30~50℃	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band	5150MHz ~5250MHz	● IEEE 802.11a/n/ac(20MHz)
	5250MHz ~5350MHz	● IEEE 802.11n/ac(40MHz)
	5725MHz ~5850MHz	● IEEE 802.11ac(80MHz)
Product Type	IEEE 802.11a: WLAN (1TX, 1RX) IEEE 802.11n: WLAN (1TX, 1RX) IEEE 802.11ac: WLAN (1TX, 1RX)	
Nominal Bandwidth	20MHz / 40MHz / 80MHz	
Modulation	IEEE 802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ac: (BPSK / QPSK / 16QAM / 64QAM / 256QAM)	
Data Rate (Mbps)	IEEE 11a mode : OFDM (6/9/12/18/24/36/48/54) IEEE 11n mode : MCS0~MCS7 IEEE 11ac mode : MCS0~MCS7	

Type of Device	Client device without Radar detection			
TPC Function	☐	With TPC	☒	Without TPC
Beamforming Function	☐	With Beamforming	☒	Without Beamforming
DFS Function (Client devices)	☒	5250MHz ~5350MHz		
	☐	5470MHz ~5725MHz		
Channel Information				
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number	
5150-5250	802.11a /n /ac (20MHz)	5180-5240	36-48	
5250-5350		5260-5320	52-64	
5725-5850		5745-5825	149-165	
5150-5250	802.11n /ac (40MHz)	5190-5230	38-46	
5250-5350		5270-5310	54-62	
5725-5850		5755-5795	151-159	
5150-5250	802.11ac (80MHz)	5210	42	
5250-5350		5290	58	
5725-5850		5775	155	

1.5 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PIFA	N/A	-2.5

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart E			
Test item	FCC Clause	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	See Note 1
Transmission in the Absence of Data	15.407 (c)	Compliance	See Note 2
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass	Meet the requirement of the limit
Conducted Power	15.407(a)	Pass	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass	Meet the requirement of the limit
Frequency Stability	15.407(g)	Pass	Meet the requirement of the limit
Dynamic Frequency Selection (DFS)	15.407(h)	Pass	Meet the requirement of the limit
Note: NA denotes Not Applicable in this part			

Note 1: The EUT has one internal antenna arrangement for WiFi which was permanently attached and the antenna gain is -2.5 dBi, Impedance is 50Ω fulfill the requirement of this section. Please refer to the product photos.

Note 2: During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

ANSI C63.10:2013

2.3 Test Instruments

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/16
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	\	2022/11/18
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	\	2022/11/09
6	EMI Receiver	Rohde&Schwarz	ESR7	102013	2022/11/09
7	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2022/11/09
8	Spectrum analyzer	KEYSIGHT	N9010A-44	MY51440158	2022/11/09
9	Integral Antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/09
10	Integral Antenna	Schwarzbeck	BBHA 9120D	BBHA 9120D 1201	2022/11/09
11	Integral Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/09
12	Preamplifier	CD Systems Inc	PAP-03036-30	85060000	2022/11/09
13	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
14	Preamplifier	emci	EMC01264 5SE	980417	2022/11/09
15	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	\	2022/11/09
16	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
17	Power Collection Unit	Tonscend	JS0806-2	188060134	2022/09/12
18	Tonscend Test System	Tonscend	2.6.77.0518	NA	NA
19	Temp&Humidity Recorder	Anymetre	JR900	NA	2022/11/03
20	Spectrum analyzer	KEYSIGHT	N9020B	MY57463781	2022/11/09
21	Signal Generator	KEYSIGHT	N5182B	MY59100855	2022/09/12
22	Temp&Humidity Chamber	ETOMA	NTH1100-3 0A	16080628	2022/09/01

2.4 Operation Mode

The EUT was supplied by and it was run in TX mode that was controlled by client provided RF testing program.

The EUT was transmitted continuously during the test. The worst case test result was showed in the report.

Test Channel:

Test Items	Mode	Channel		
		5150-5250	5250-5350	5725-5850
AC Power Conducted Emission	802.11n(20MHz)	36	-	-
Radiated Emission	802.11a	36/44/48	52/60/64	149/157/165
	802.11n(20MHz)	36/44/48	52/60/64	149/157/165
	802.11n(40MHz)	38/46	54/62	151/159
	802.11ac(20MHz)	36/44/48	52/60/64	149/157/165
	802.11ac(40MHz)	38/46	54/62	151/159
	802.11ac(80MHz)	42	58	155
Spectrum Bandwidth	802.11a	36/44/48	52/60/64	149/157/165
	802.11n(20MHz)	36/44/48	52/60/64	149/157/165
	802.11n(40MHz)	38/46	54/62	151/159
	802.11ac(20MHz)	36/44/48	52/60/64	149/157/165
	802.11ac(40MHz)	38/46	54/62	151/159
	802.11ac(80MHz)	42	58	155
Conducted Power	802.11a	36/44/48	52/60/64	149/157/165
	802.11n(20MHz)	36/44/48	52/60/64	149/157/165
	802.11n(40MHz)	38/46	54/62	151/159
	802.11ac(20MHz)	36/44/48	52/60/64	149/157/165
	802.11ac(40MHz)	38/46	54/62	151/159
	802.11ac(80MHz)	42	58	155
Power Spectral Density	802.11a	36/44/48	52/60/64	149/157/165
	802.11n(20MHz)	36/44/48	52/60/64	149/157/165
	802.11n(40MHz)	38/46	54/62	151/159
	802.11ac(20MHz)	36/44/48	52/60/64	149/157/165
	802.11ac(40MHz)	38/46	54/62	151/159
	802.11ac(80MHz)	42	58	155
Frequency Stability	802.11a	36/44/48	52/60/64	149/157/165

	802.11n(20MHz)	36/44/48	52/60/64	149/157/165
	802.11n(40MHz)	38/46	54/62	151/159
	802.11ac(20MHz)	36/44/48	52/60/64	149/157/165
	802.11ac(40MHz)	38/46	54/62	151/159
	802.11ac(80MHz)	42	58	155
Dynamic Frequency Selection (DFS)	802.11ac(80MHz)	-	58	-

2.5 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	24.6°C, 56 % RH	120Vac, 60Hz	Stone Tang
Radiated Emission	24.2°C, 55 % RH	120Vac, 60Hz	Stone Tang
Spectrum Bandwidth	24.6°C, 55 % RH	120Vac, 60Hz	Stone Tang
Conducted Power	24.7°C, 56 % RH	120Vac, 60Hz	Stone Tang
Power Spectral Density	24.6°C, 56 % RH	120Vac, 60Hz	Stone Tang
Frequency Stability	20.0°C, 56 % RH	120Vac, 60Hz	Stone Tang
Dynamic Frequency Selection (DFS)	24.3°C, 55 % RH	120Vac, 60Hz	Stone Tang

The applicant declare the operating environment of EUT as below:

Normal conditions: 3.8V DC ,15~35°C

Extreme conditions:3.6V DC~4.35V DC, -30°C ~50°C

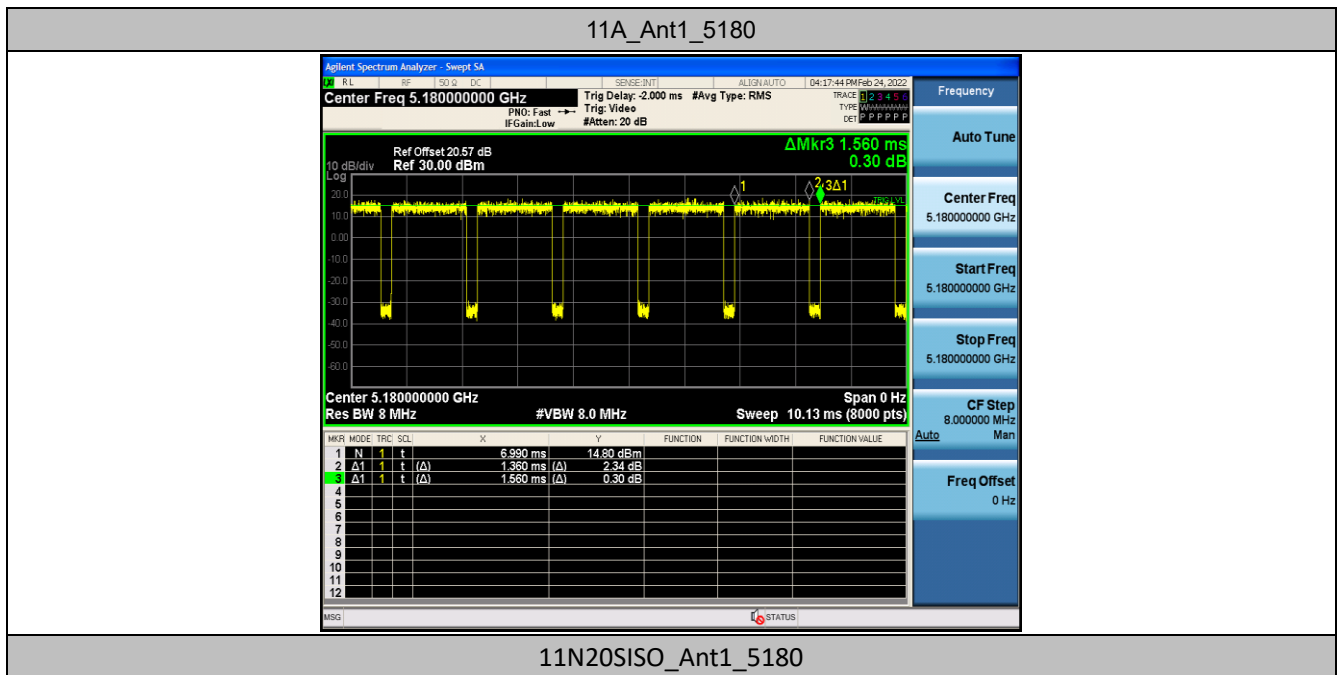
2.6 Duty Cycle of Test Signal

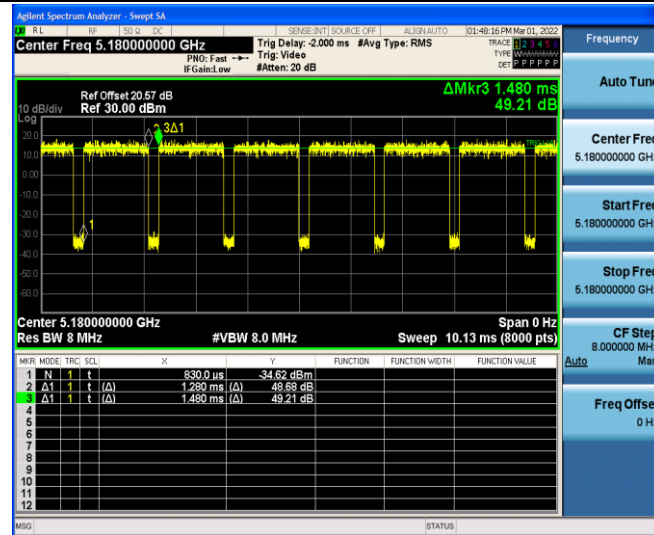
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

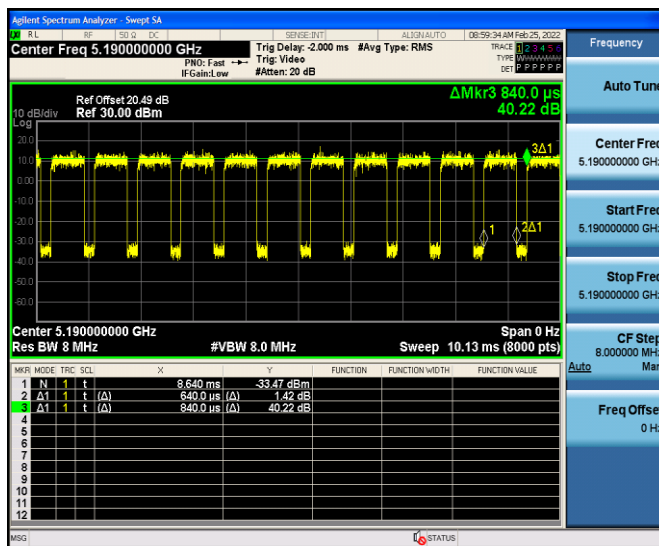
So all the duty factor of other test mode shall be considered.

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Factor
11A	Ant1	5180	1.36	1.56	87.18	0.60
11N20SISO	Ant1	5180	1.28	1.48	86.49	0.63
11N40SISO	Ant1	5190	0.64	0.84	76.19	1.18
11AC20SISO	Ant1	5180	0.97	1.17	82.91	1.81
11AC40SISO	Ant1	5190	0.49	0.69	71.01	1.49
11AC80SISO	Ant1	5210	0.25	0.45	55.56	2.55

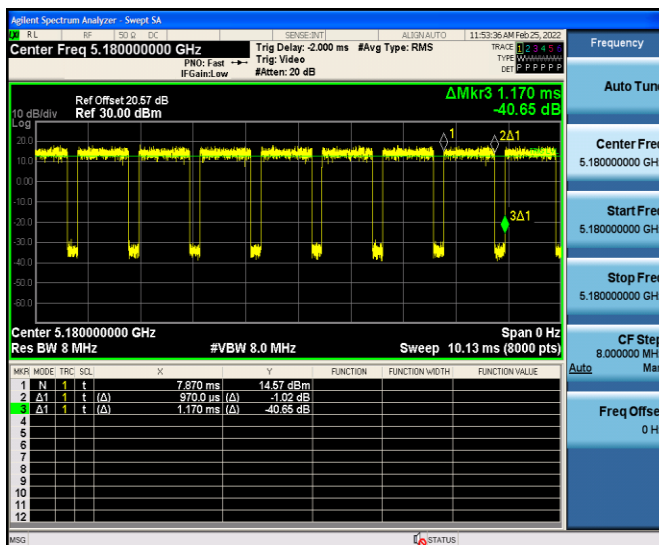




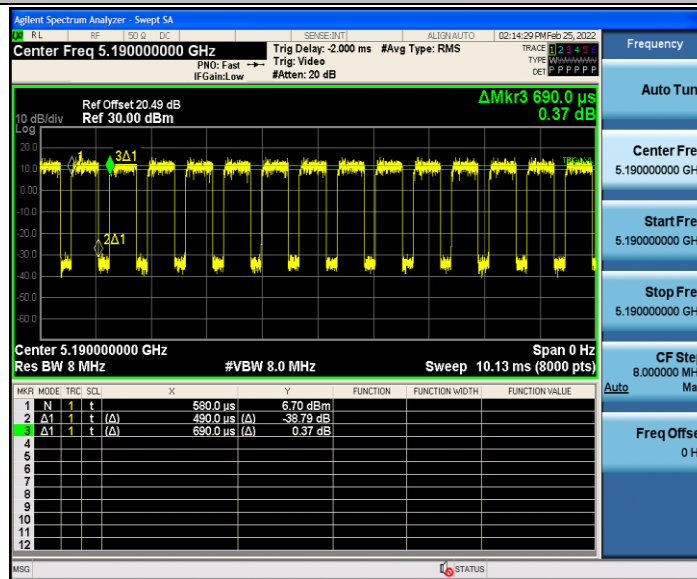
11N40SISO_Ant1_5190



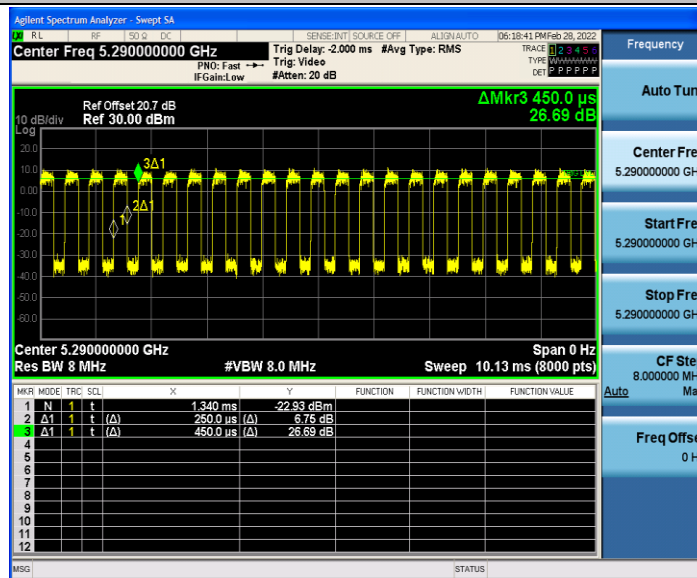
11AC20SISO_Ant1_5180



11AC40SISO_Ant1_5190



11AC80SISO_Ant1_5290



2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 142.12 KHz
RF power conducted	± 0.74 dB
RF power radiated	± 3.25 dB
RF power density	± 1.28 dB
Frequency stability	± 0.12 ppm
Spurious emissions, radiated (30MHz~1GHz)	± 4.6 dB
Spurious emissions, radiated (1GHz ~ 18GHz)	± 4.9 dB
Conduction Emissions(150kHz~30MHz)	± 3.1 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

2.8 Test Location

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
Telephone:	+86-0755-27087573

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.1.2 Test Peripherals

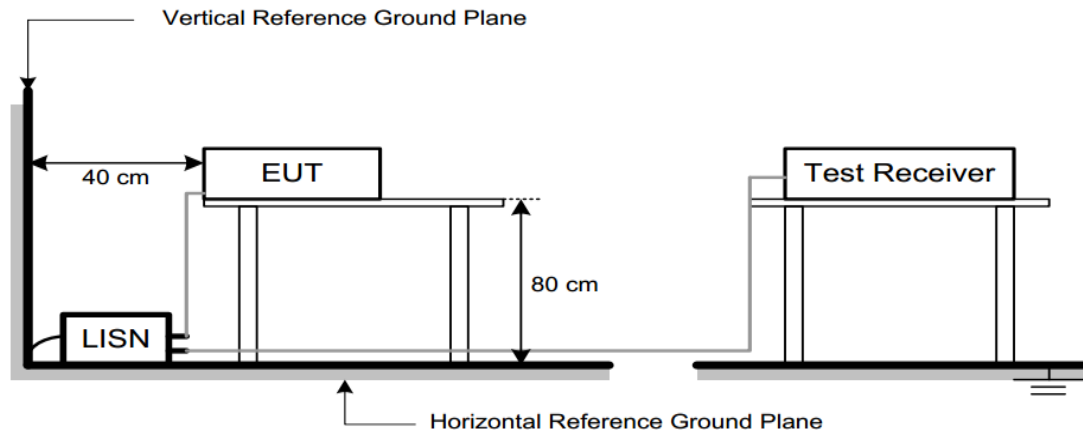
Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Type-C Cable	AWM	E101344	0.9m, No Shielding
2	Adaptor	FUSHIGANG	AS1201A-0502000 USU	NA
3	Record PC	Lenovo	M4500T	NA
4	Control PC	Lenovo	M4500T	NA

3.1.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.4 Test Setup



3.1.5 Test Result

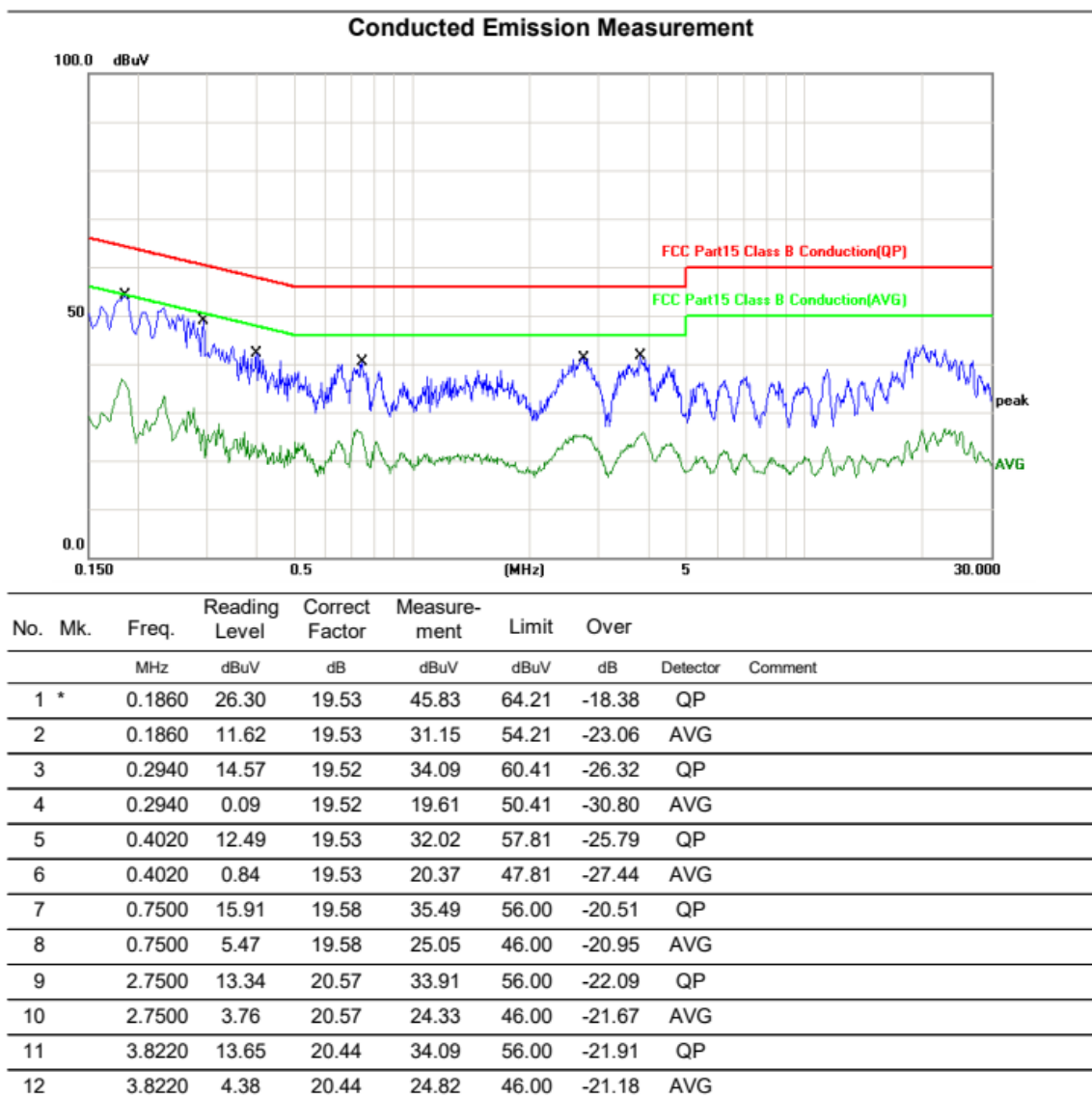
Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement - Limit

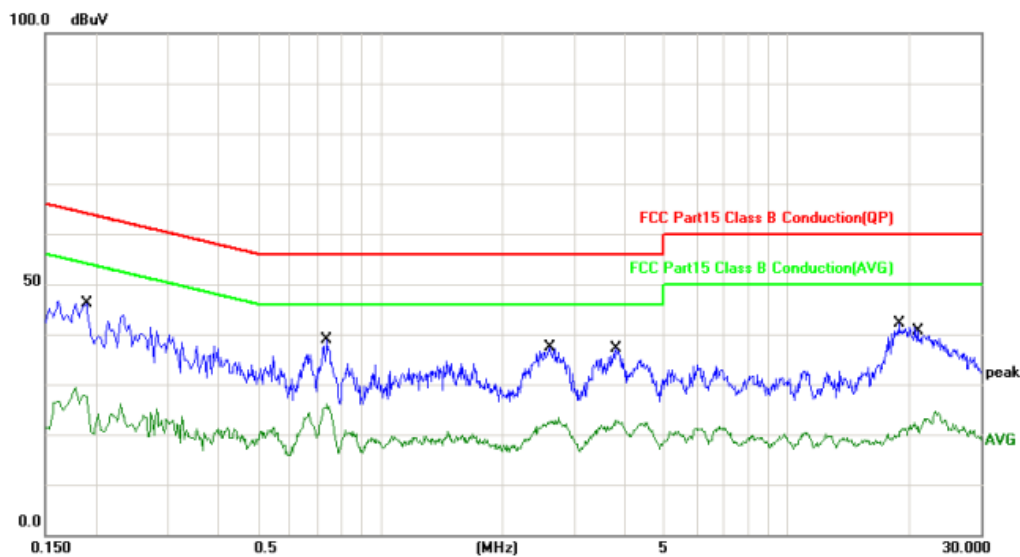
150kHz~30MHz

Worst Case Operating Mode: 11N20

Line



Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1900	11.62	19.70	31.32	64.04	-32.72	QP	
2		0.1900	-1.07	19.70	18.63	54.04	-35.41	AVG	
3		0.7420	12.61	19.80	32.41	56.00	-23.59	QP	
4	*	0.7420	5.55	19.80	25.35	46.00	-20.65	AVG	
5		2.6100	7.78	20.52	28.30	56.00	-27.70	QP	
6		2.6100	0.68	20.52	21.20	46.00	-24.80	AVG	
7		3.8020	9.05	20.28	29.33	56.00	-26.67	QP	
8		3.8020	1.76	20.28	22.04	46.00	-23.96	AVG	
9		18.9140	12.29	20.41	32.70	60.00	-27.30	QP	
10		18.9140	-0.68	20.41	19.73	50.00	-30.27	AVG	
11		20.9340	8.09	20.35	28.44	60.00	-31.56	QP	
12		20.9340	-1.26	20.35	19.09	50.00	-30.91	AVG	

3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/F(\text{kHz})$	-
0.490 – 1.705	30	$24000/F(\text{kHz})$	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2) Limit of unwanted emission out of the restricted bands:

FREQUENCY/ MHz	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m ($\text{dB}\mu\text{V}/\text{m}$)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to

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

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

increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Type-C Cable	AWM	E101344	0.9m, No Shielding
2	Adaptor	FUSHIGANG	AS1201A-0502000 USU	NA
3	Record PC	Lenovo	M4500T	NA
4	Control PC	Lenovo	M4500T	NA

3.2.3 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

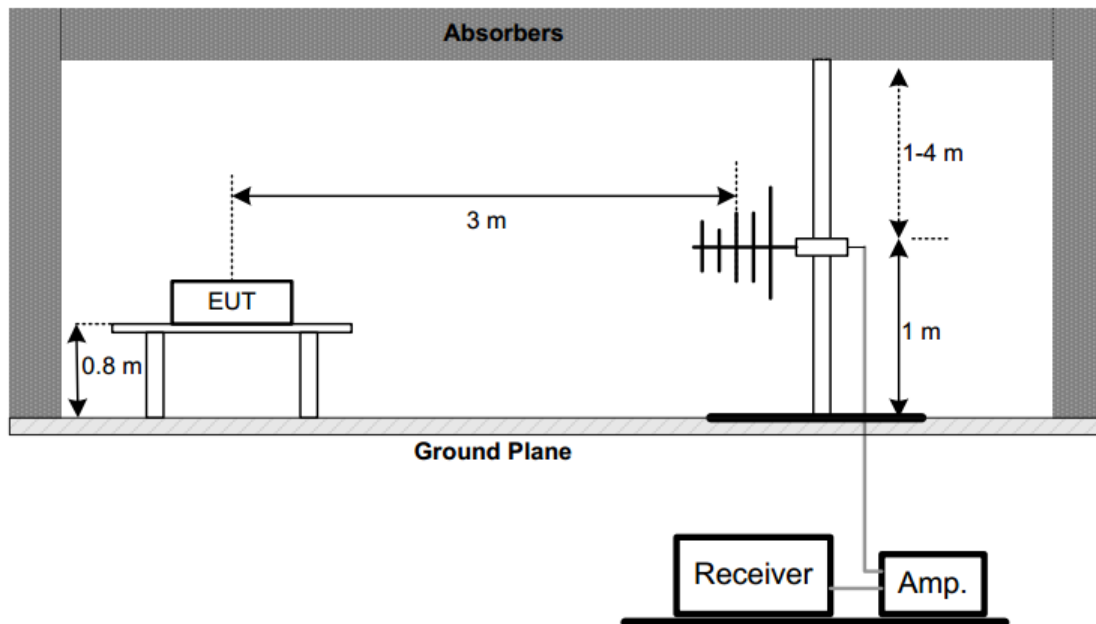
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b) The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c) The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

(below 1 GHz)

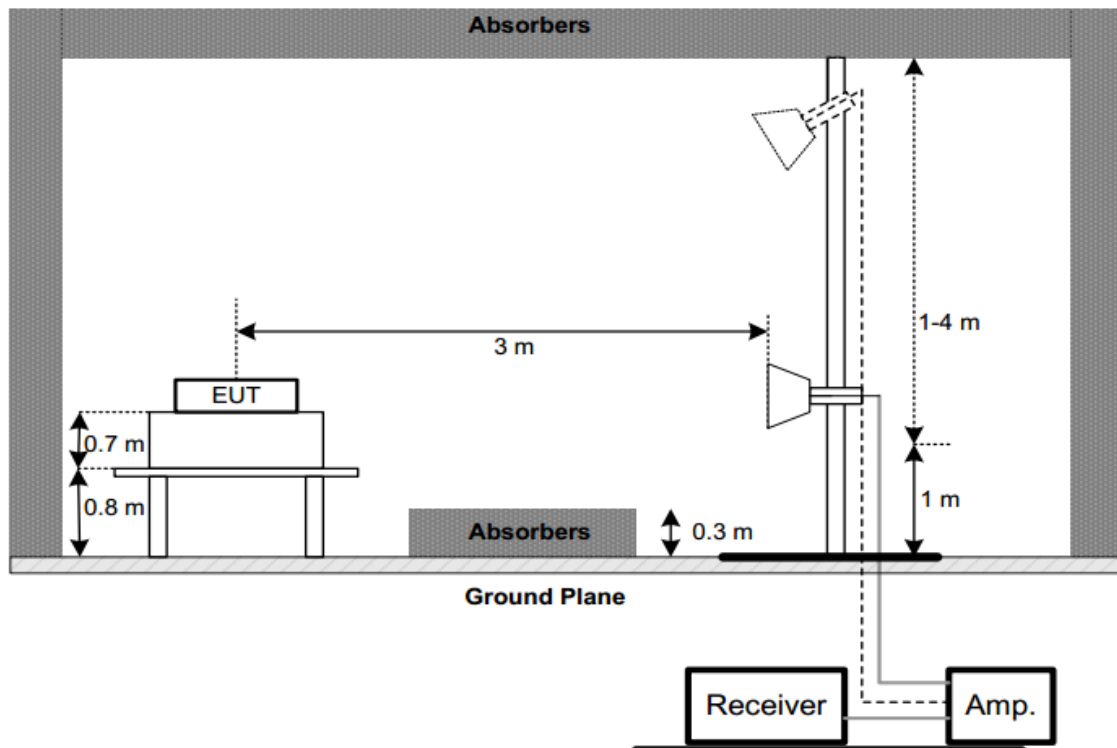
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.4 Test Setup

(A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.5 Test Result

1) Radiated emission: 9KHz-30MHz

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

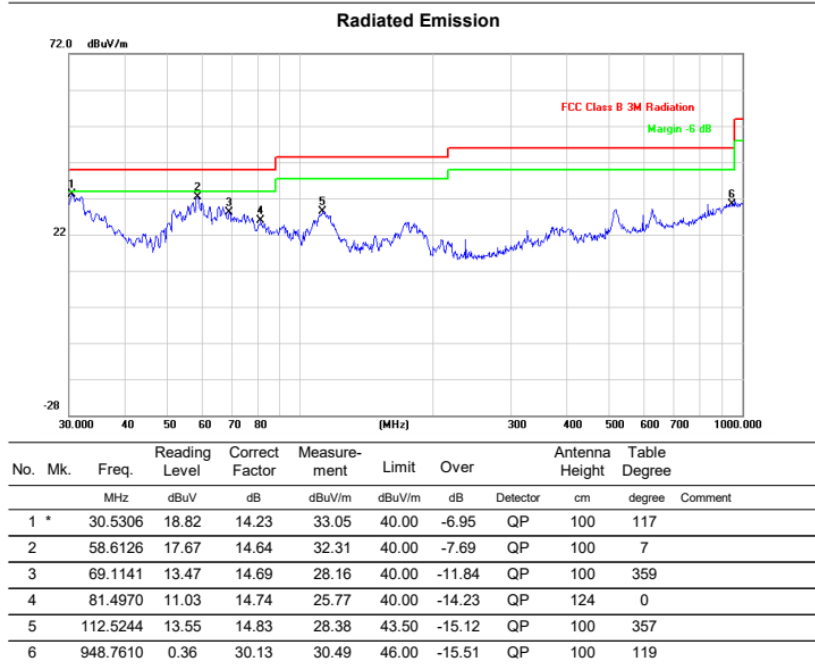
2) Radiated emission: 30MHz-1G

Note:

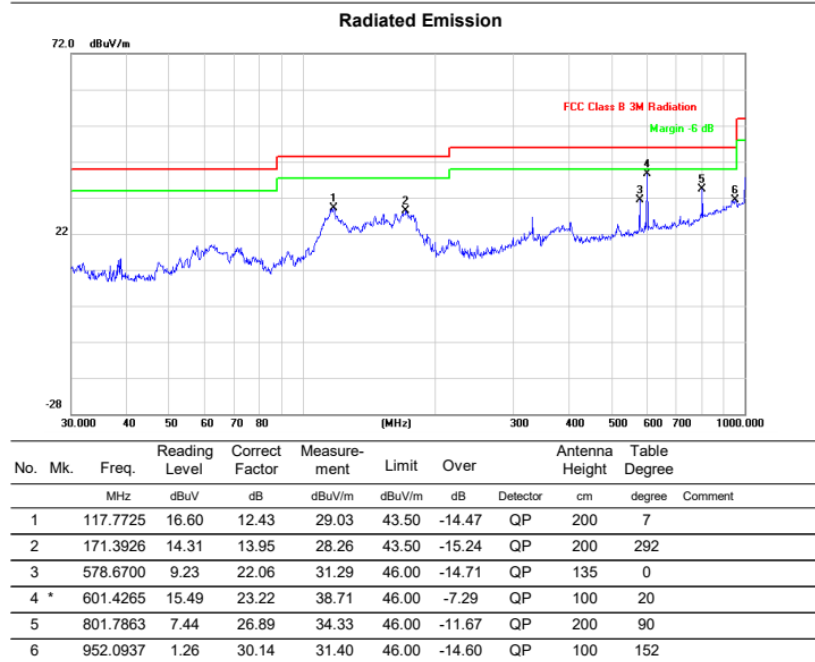
1. Measurement = Reading + Correct Factor.
2. Over = Measurement - Limit

Below 1G (30MHz~1GHz)	Test mode: 11A	Test Channel:36
-----------------------	----------------	-----------------

VERTICAL



HORIZONTAL



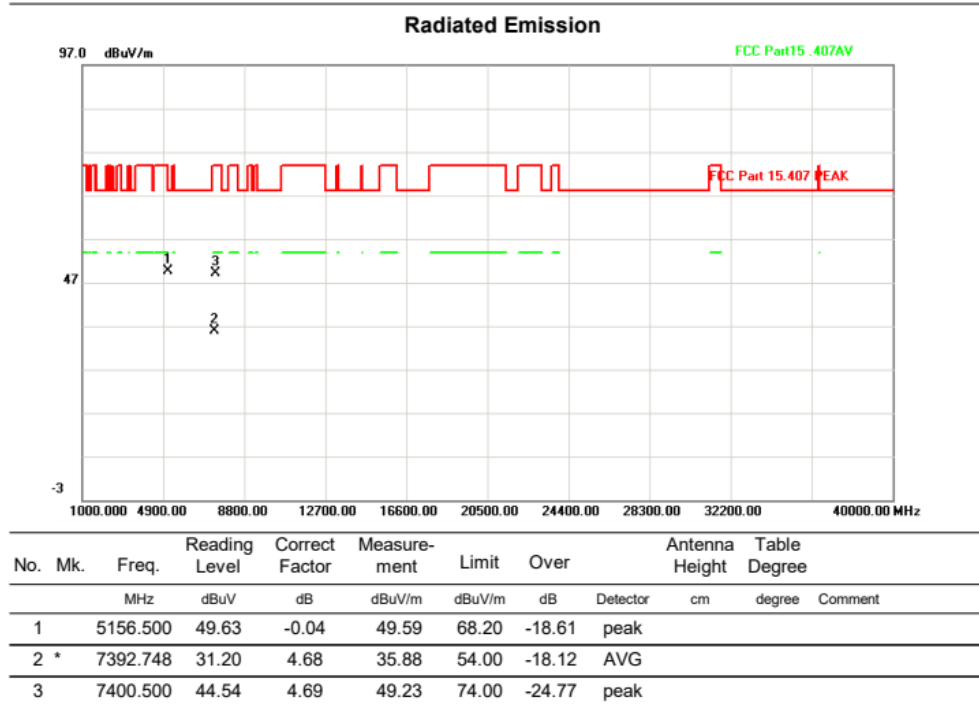
3) Radiated emission: Above 1G

Note:

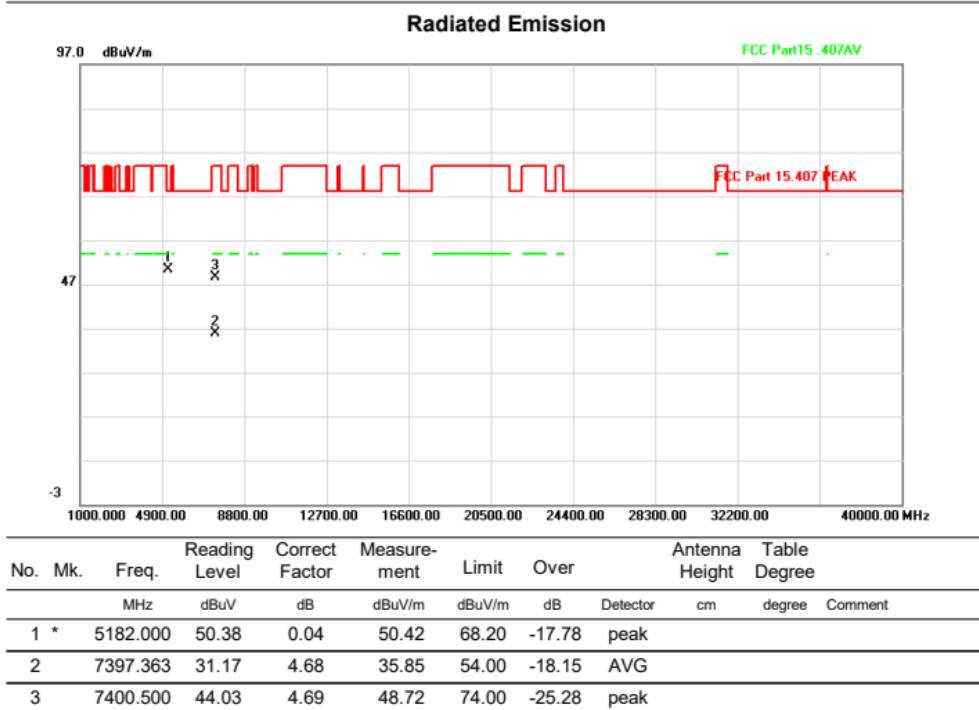
1. Measurement = Reading + Correct Factor.
2. Over = Measurement - Limit

Above 1G (1GHz~40GHz)	Test mode:11A	Test Channel:36
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VERTICAL



HORIZONTAL



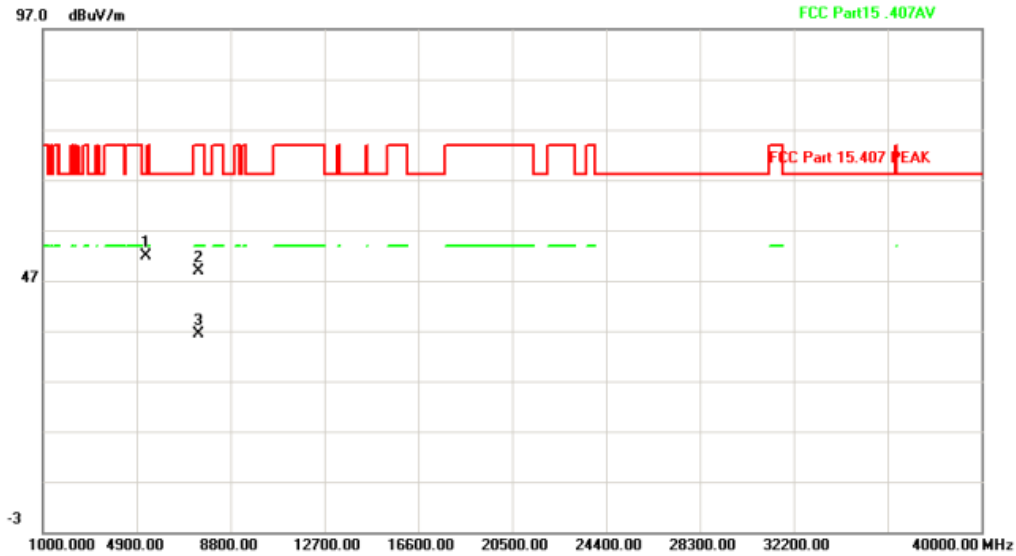
Above 1G (1GHz~40GHz)

Test mode:11A

Test Channel:64

VERTICAL

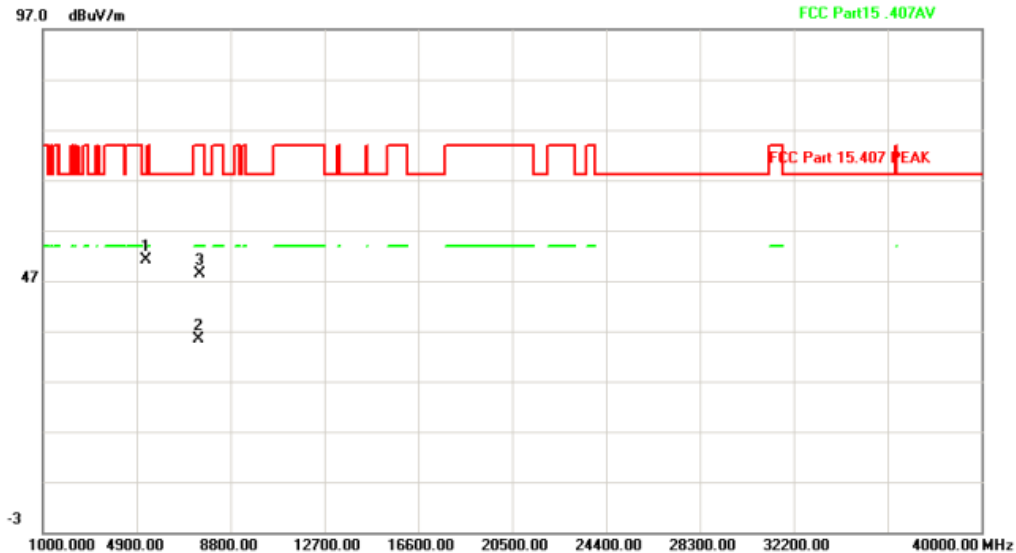
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5309.500	51.41	0.43	51.84	68.20	-16.36	peak		
2		7477.000	44.11	4.81	48.92	74.00	-25.08	peak		
3		7484.133	31.44	4.82	36.26	54.00	-17.74	AVG		

HORIZONTAL

Radiated Emission



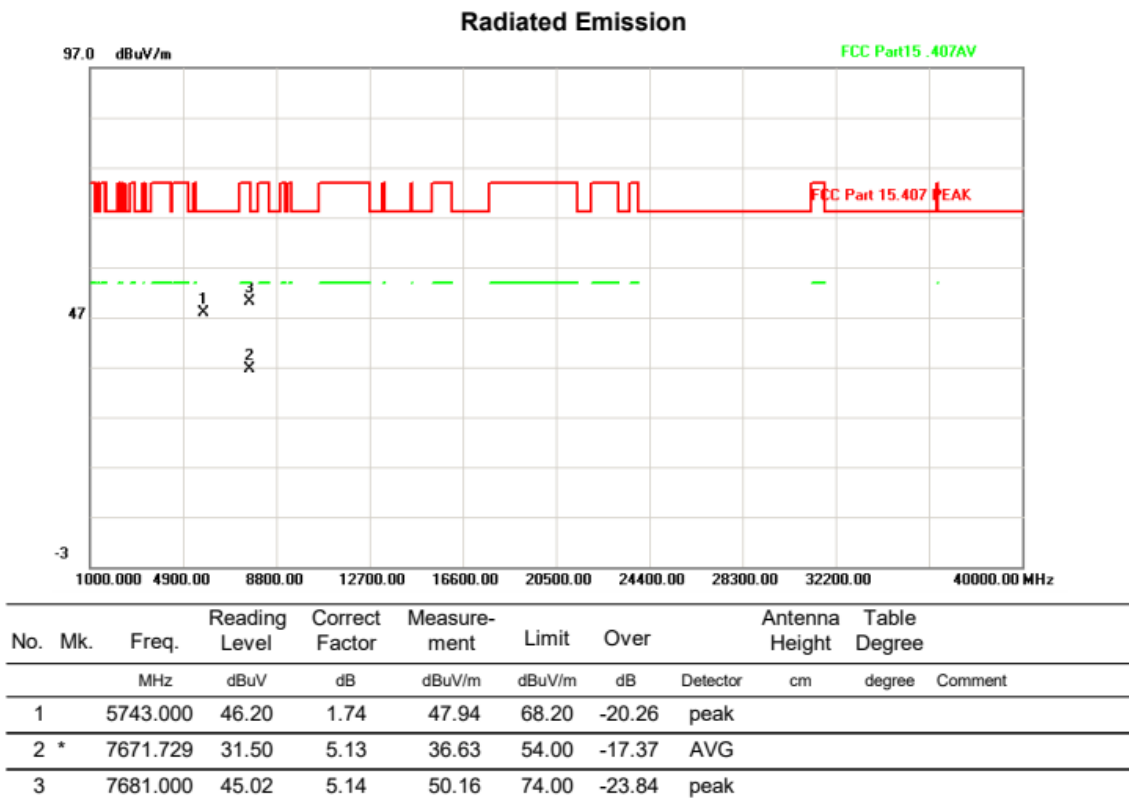
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5309.500	50.71	0.43	51.14	68.20	-17.06	peak		
2		7496.306	30.64	4.84	35.48	54.00	-18.52	AVG		
3		7502.500	43.47	4.85	48.32	74.00	-25.68	peak		

Above 1G (1GHz~40GHz)

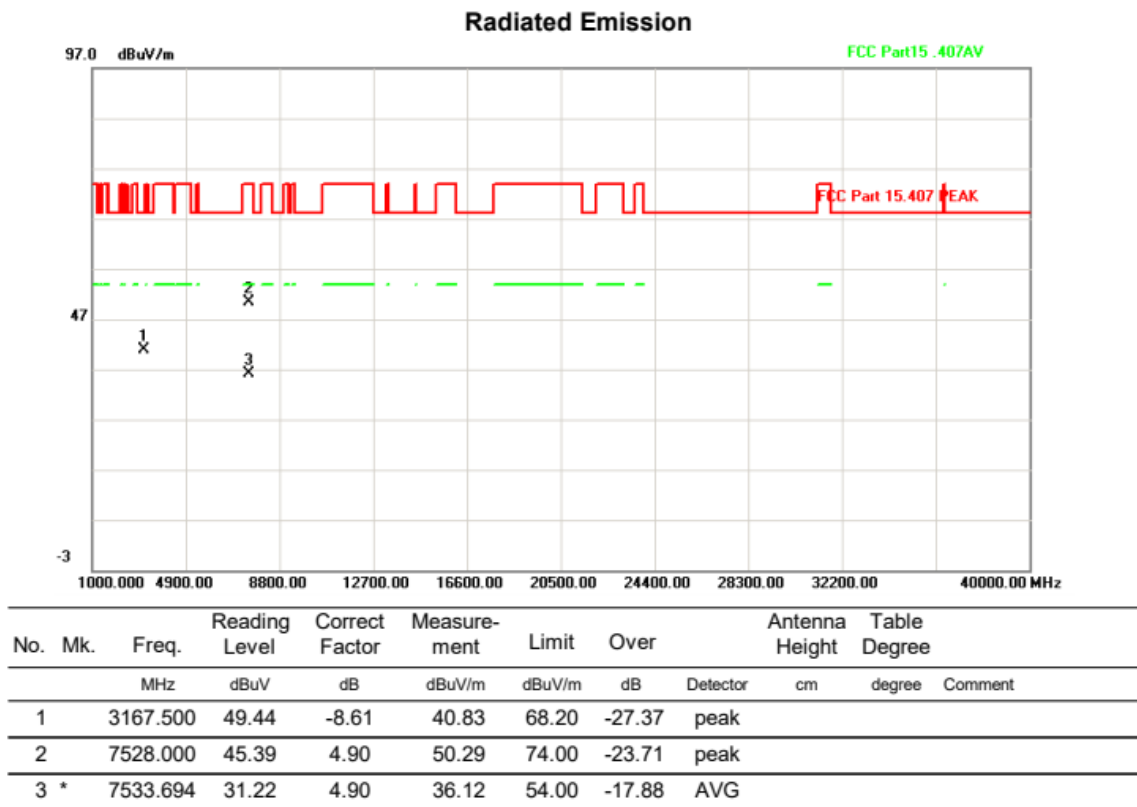
Test mode:11A

Test Channel:149

VERTICAL



HORIZONTAL

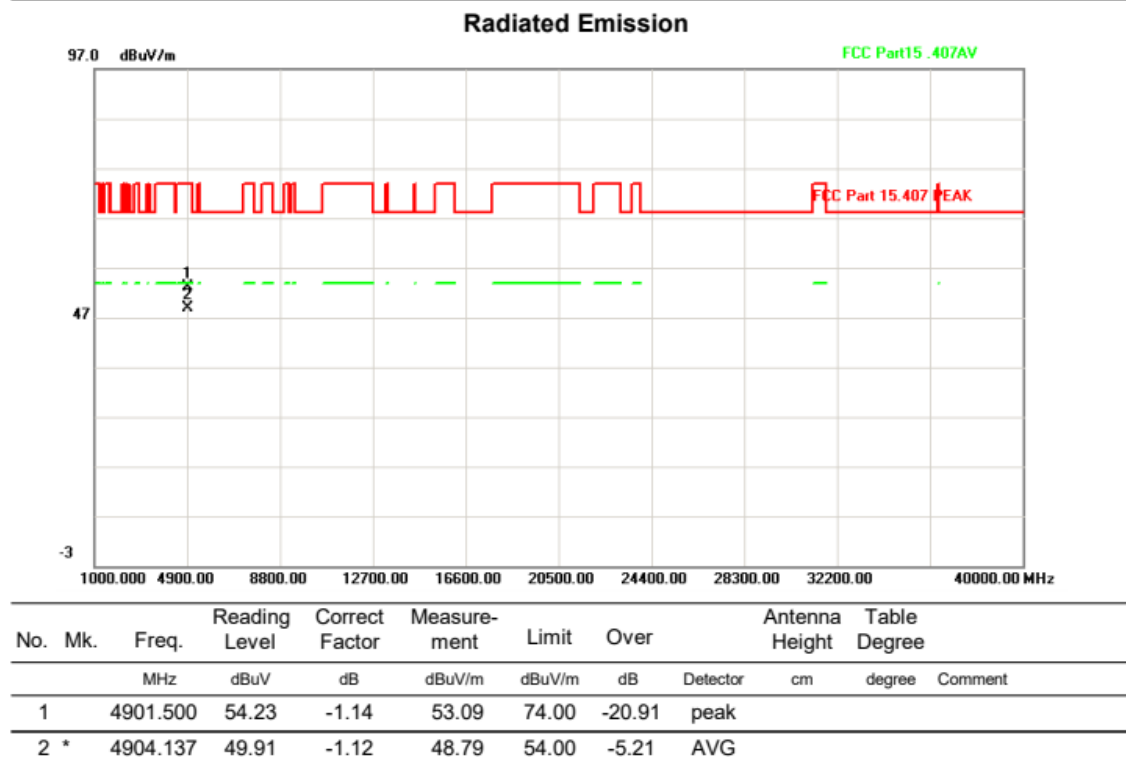


Above 1G (1GHz~40GHz)

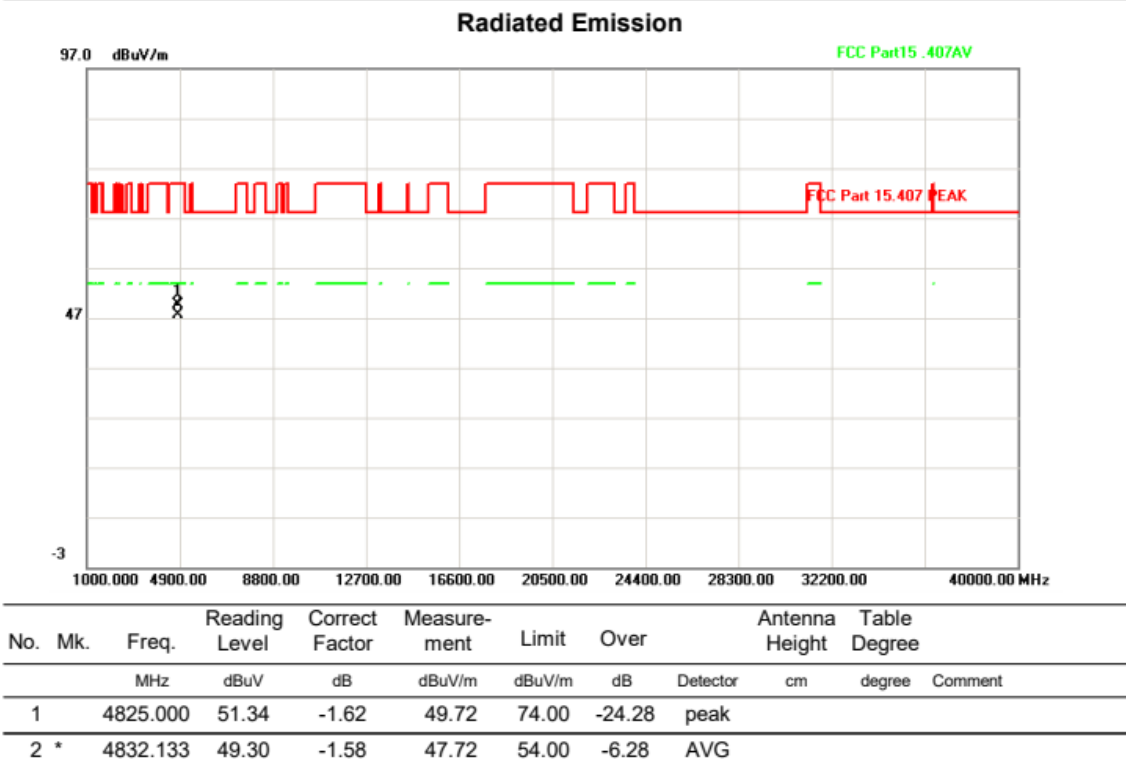
Test mode:11A

Test Channel:165

VERTICAL



HORIZONTAL

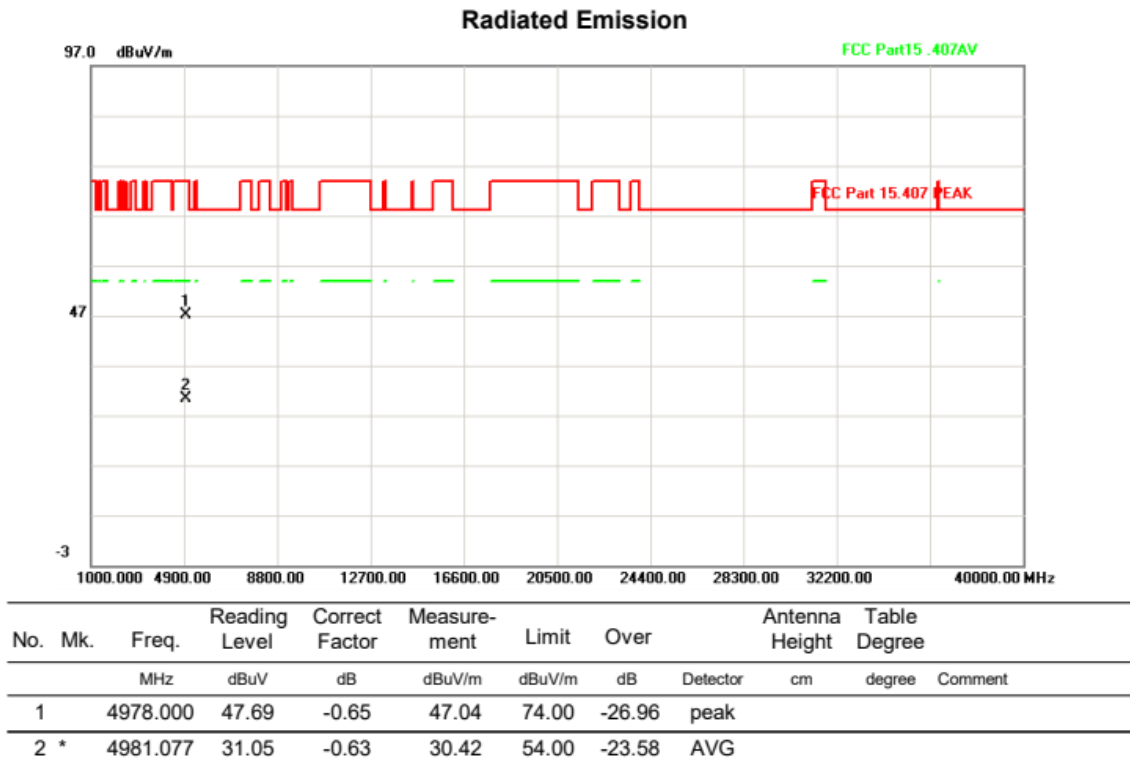


Above 1G (1GHz~40GHz)

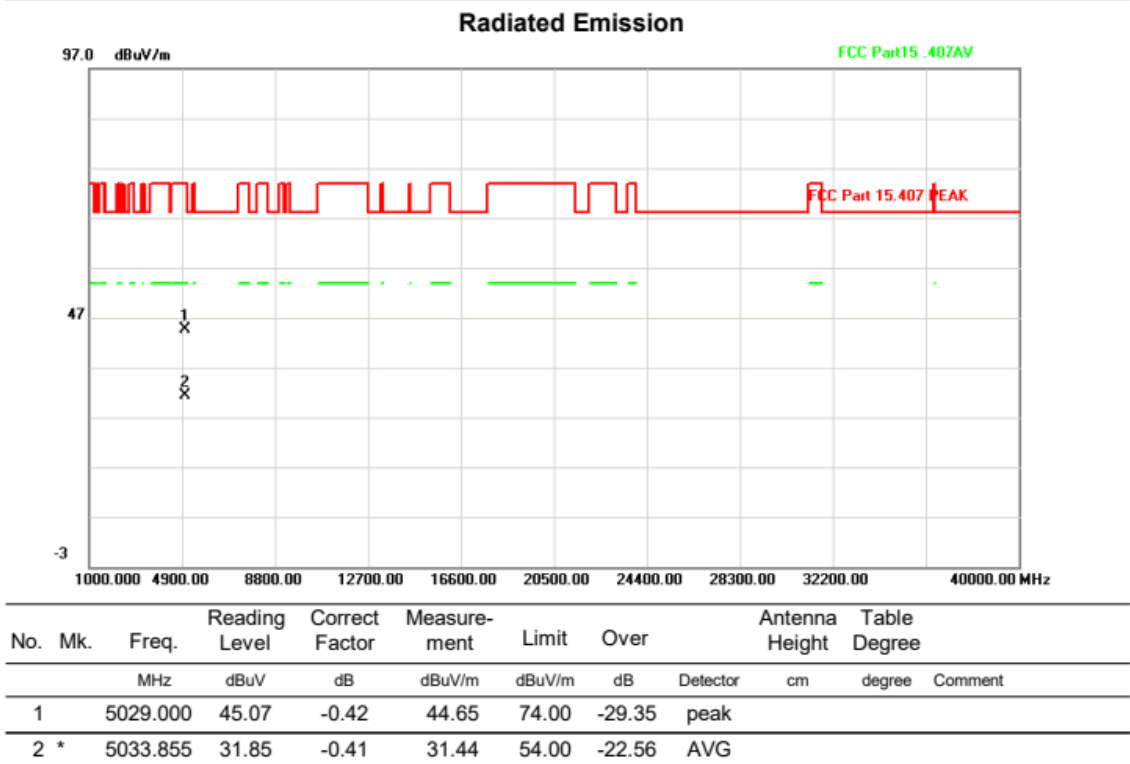
Test mode:11N20

Test Channel:36

VERTICAL



HORIZONTAL

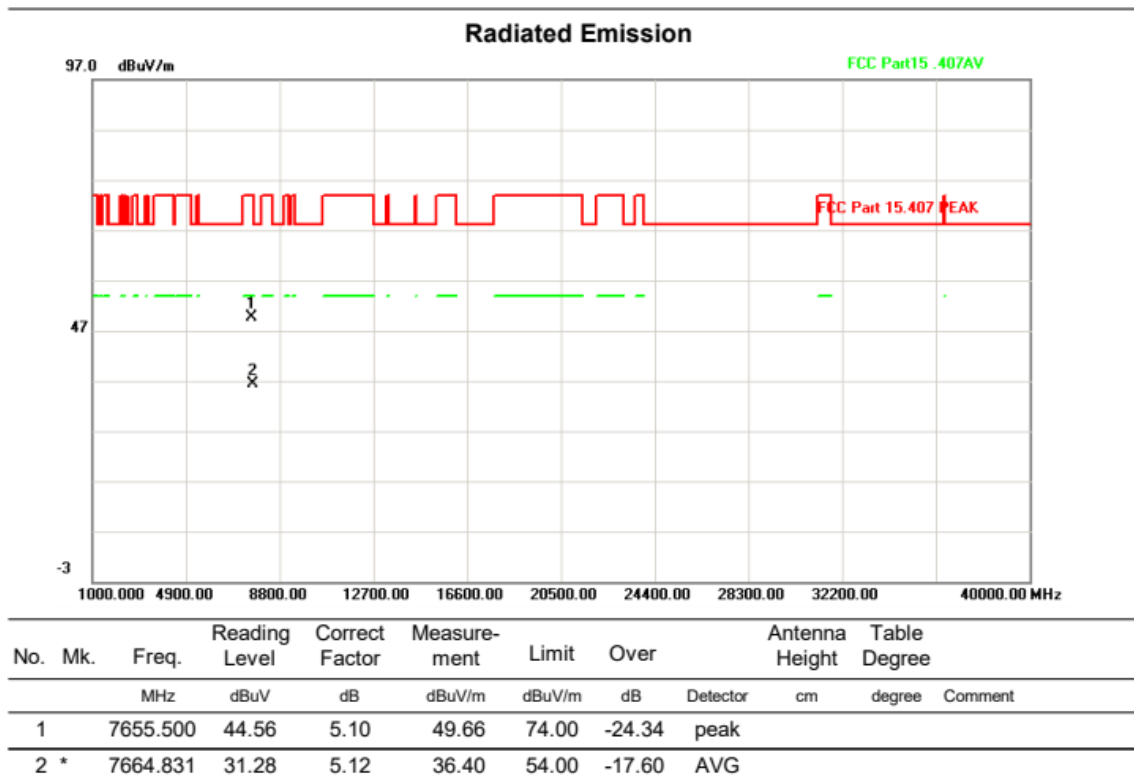


Above 1G (1GHz~40GHz)

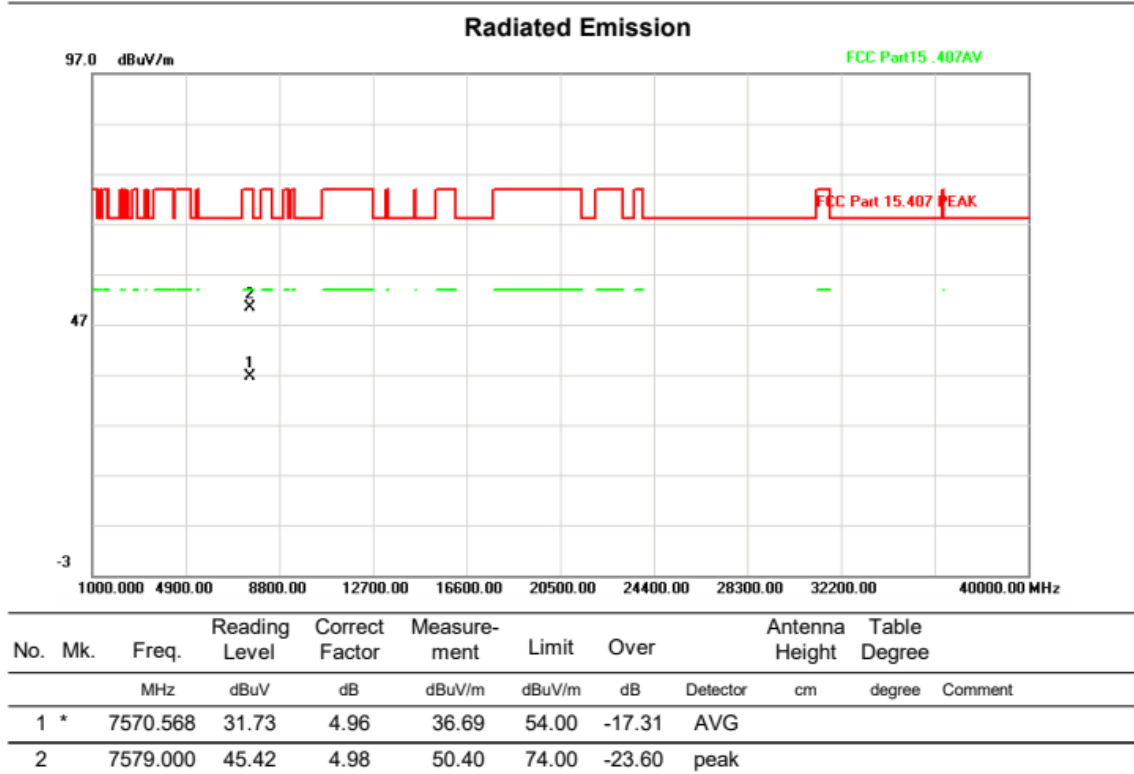
Test mode:11N20

Test Channel:64

VERTICAL



HORIZONTAL

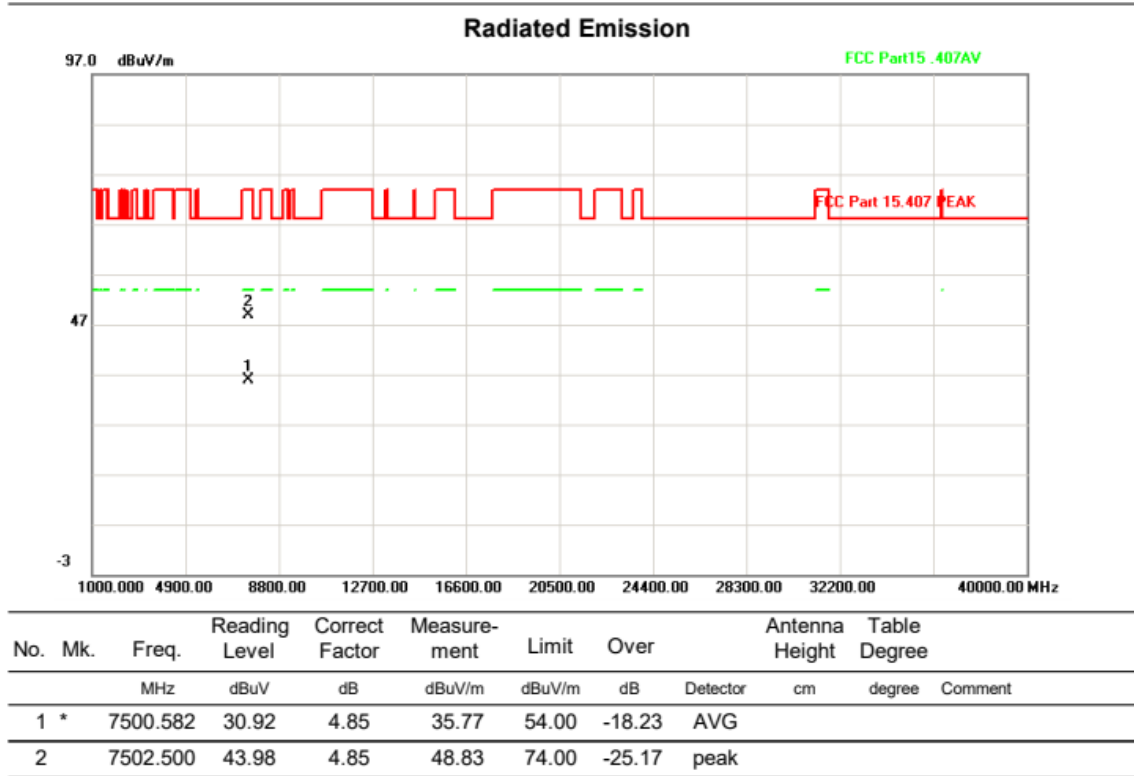


Above 1G (1GHz~40GHz)

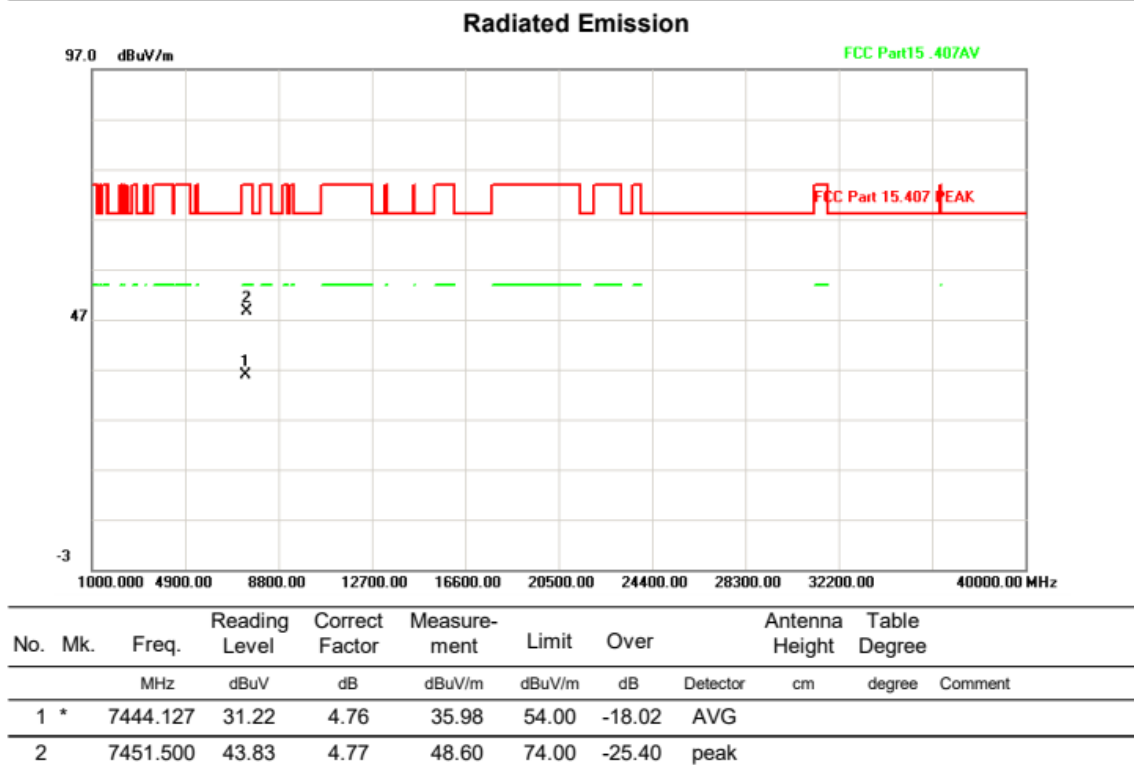
Test mode:11N20

Test Channel:149

VERTICAL



HORIZONTAL

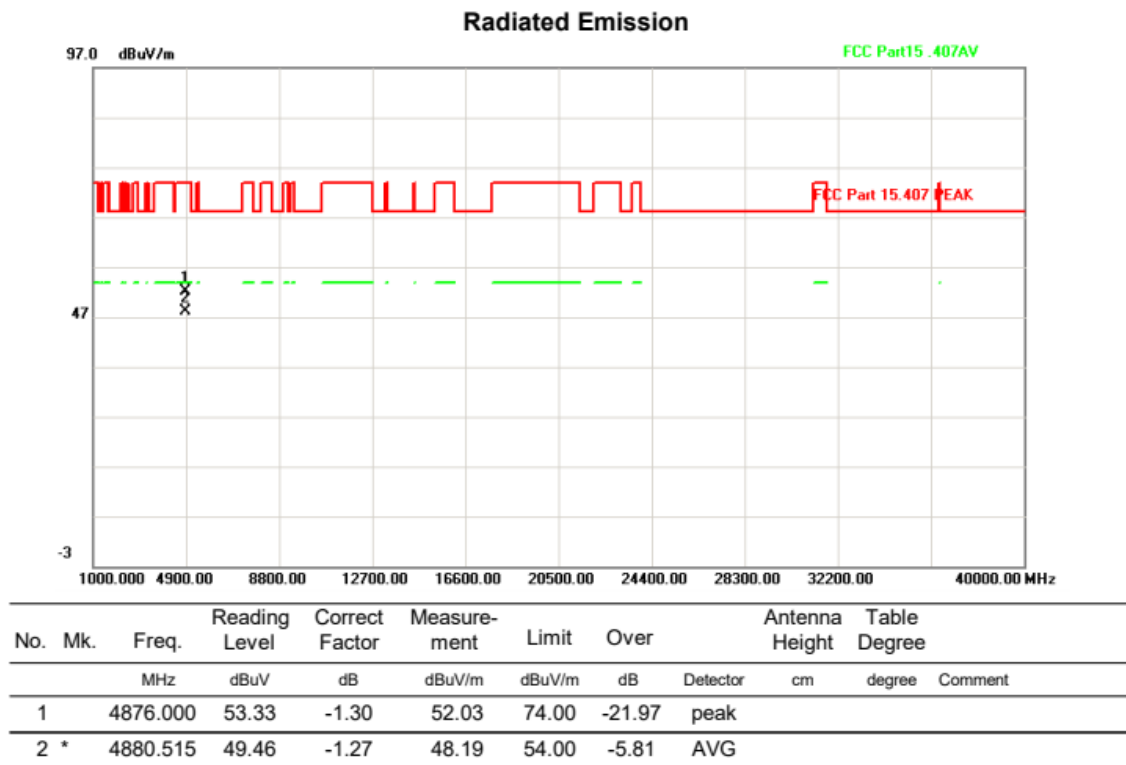


Above 1G (1GHz~40GHz)

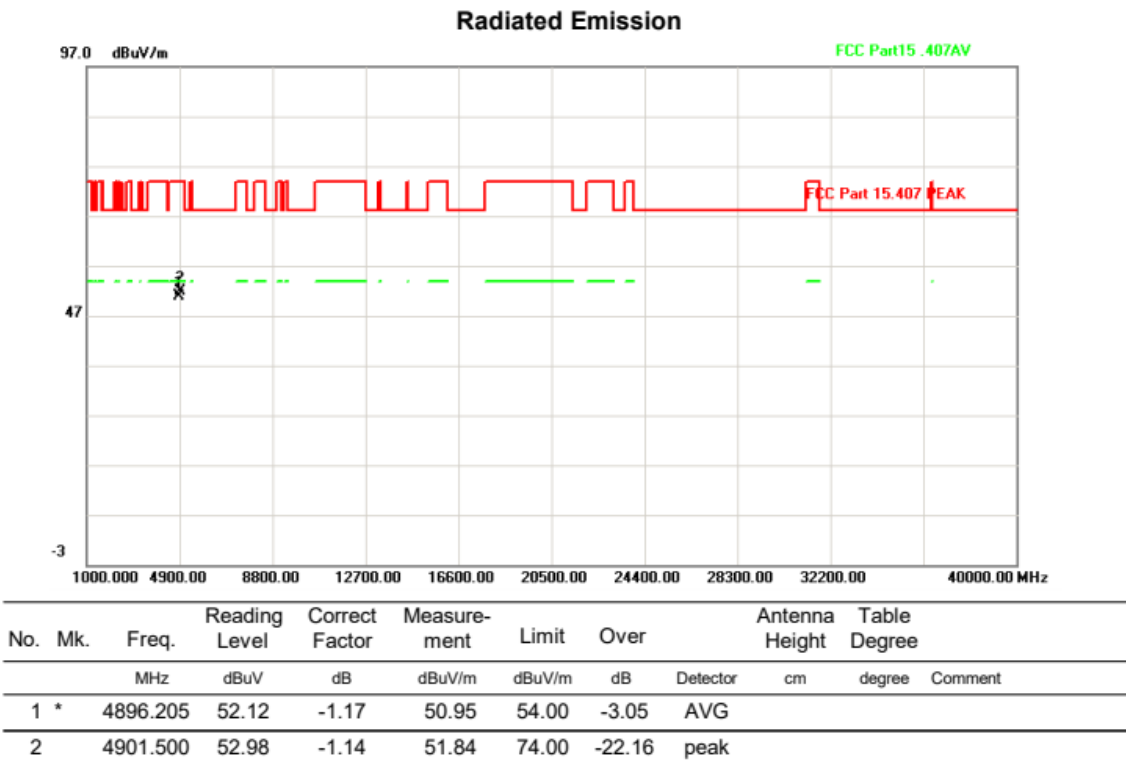
Test mode:11N20

Test Channel:165

VERTICAL



HORIZONTAL

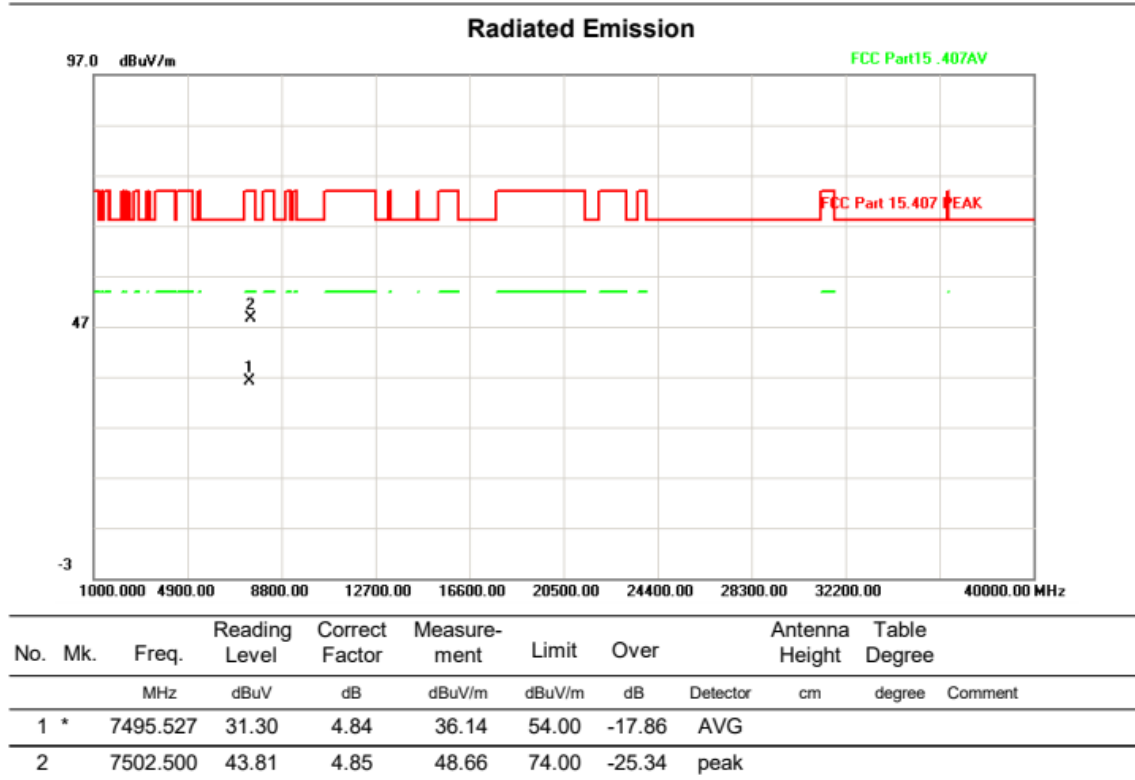


Above 1G (1GHz~40GHz)

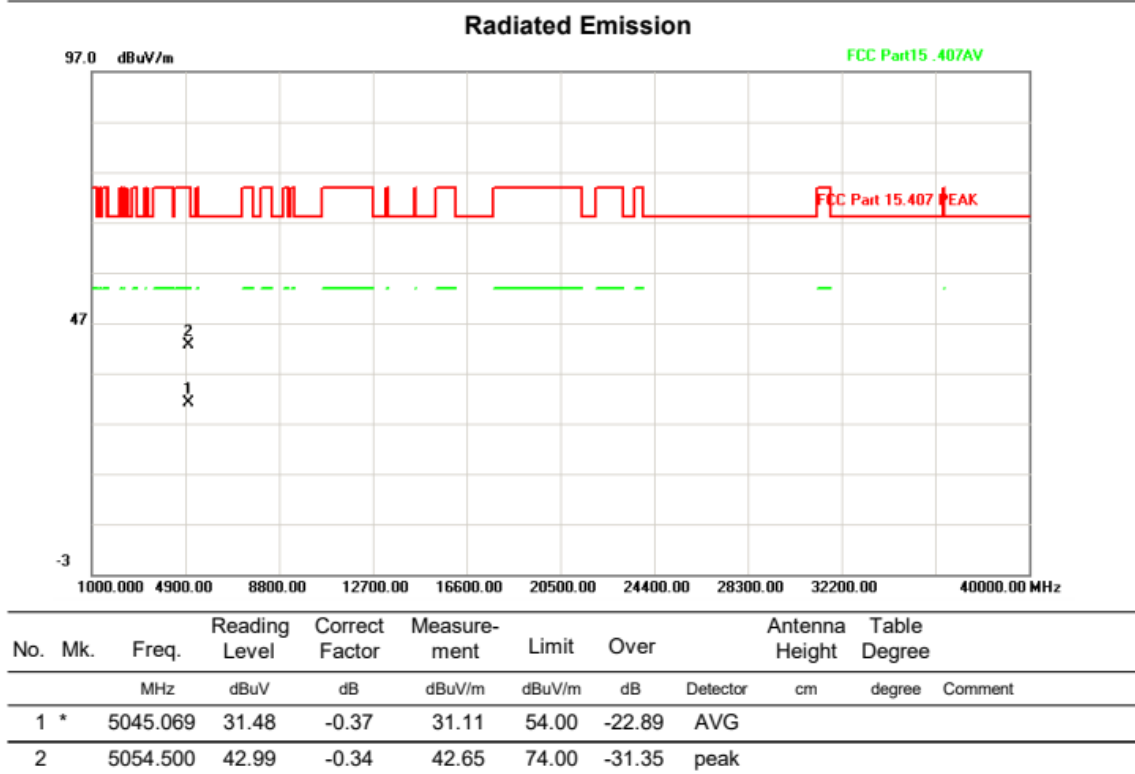
Test mode:11N40

Test Channel:38

VERTICAL



HORIZONTAL



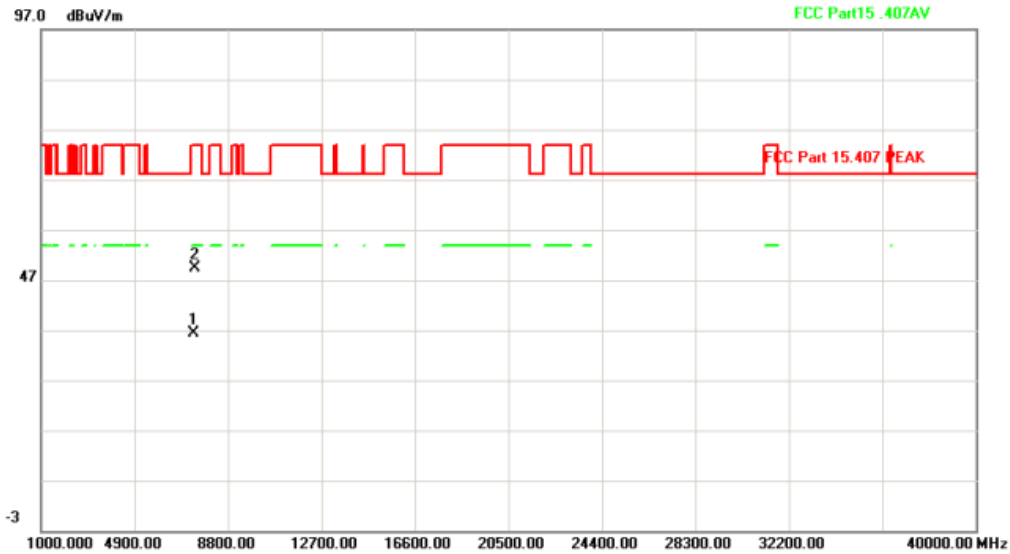
Above 1G (1GHz~40GHz)

Test mode:11N40

Test Channel:62

VERTICAL

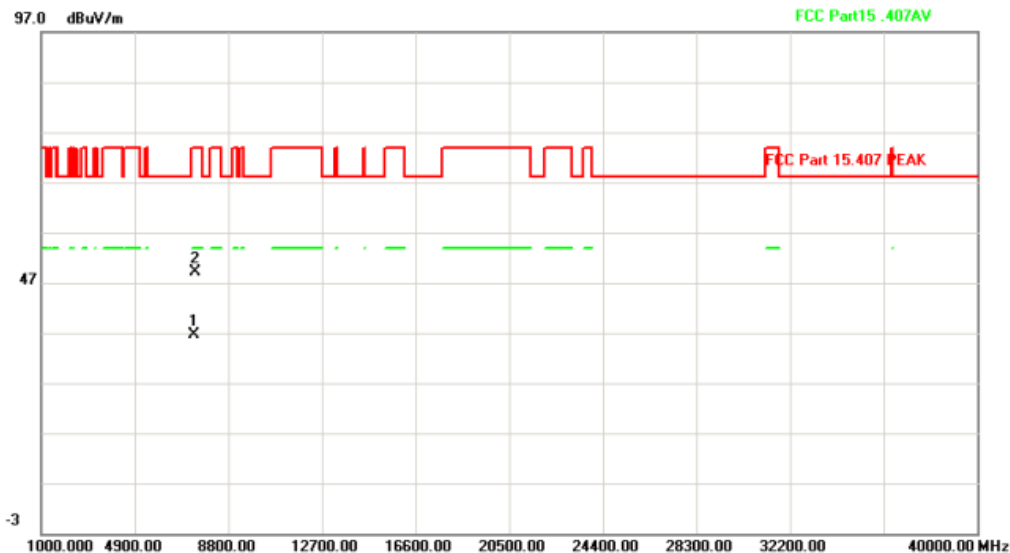
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	7391.469	31.82	4.67	36.49	54.00	-17.51	AVG		
2		7400.500	44.59	4.69	49.28	74.00	-24.72	peak		

HORIZONTAL

Radiated Emission



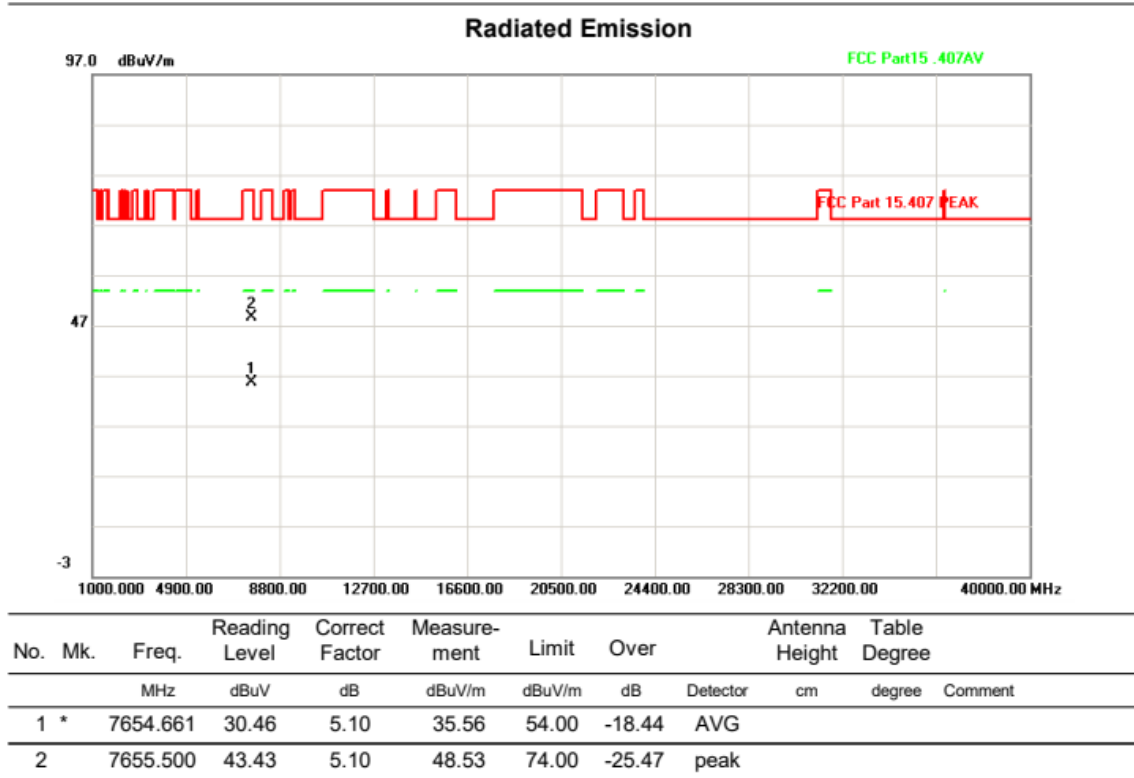
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	7390.630	31.89	4.67	36.56	54.00	-17.44	AVG		
2		7400.500	44.40	4.69	49.09	74.00	-24.91	peak		

Above 1G (1GHz~40GHz)

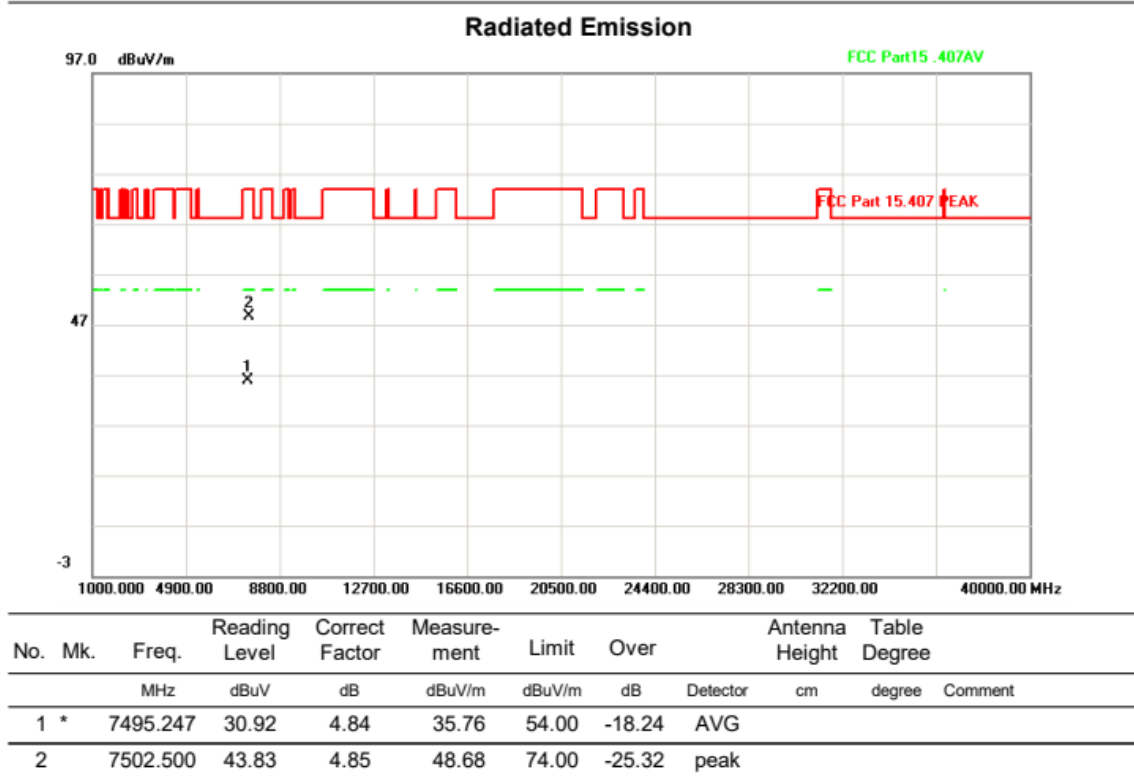
Test mode:11N40

Test Channel:151

VERTICAL



HORIZONTAL

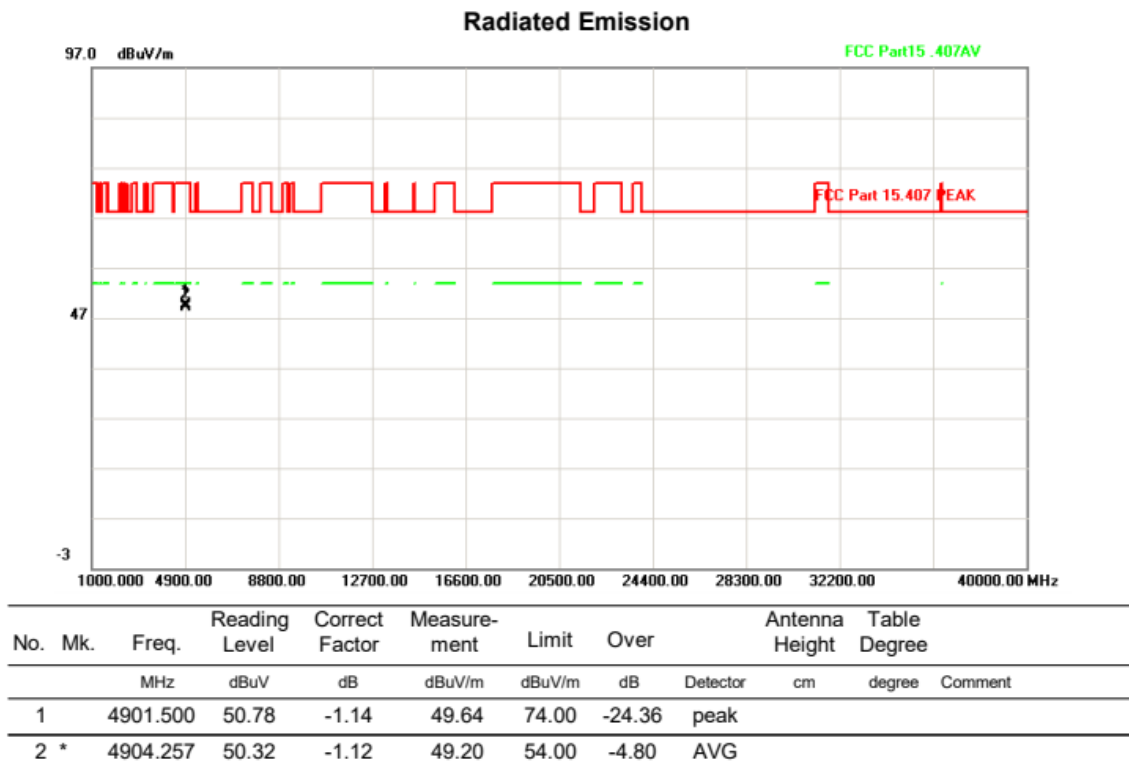


Above 1G (1GHz~40GHz)

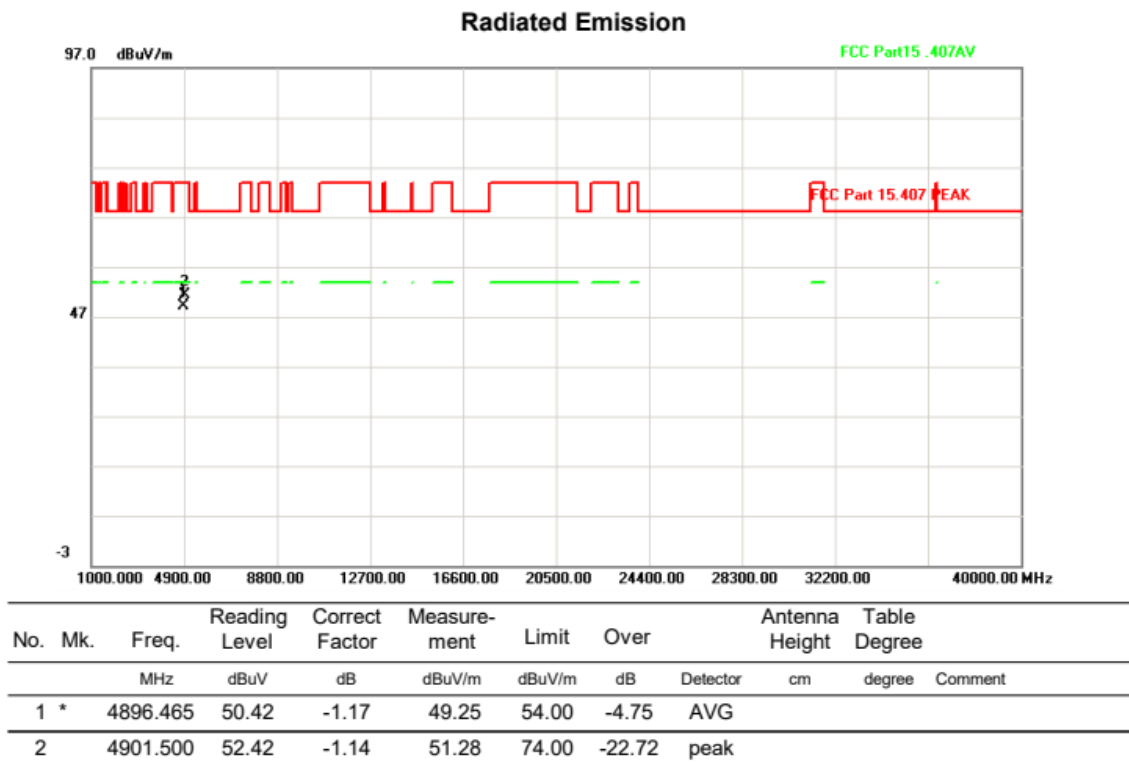
Test mode:11N40

Test Channel:159

VERTICAL



HORIZONTAL

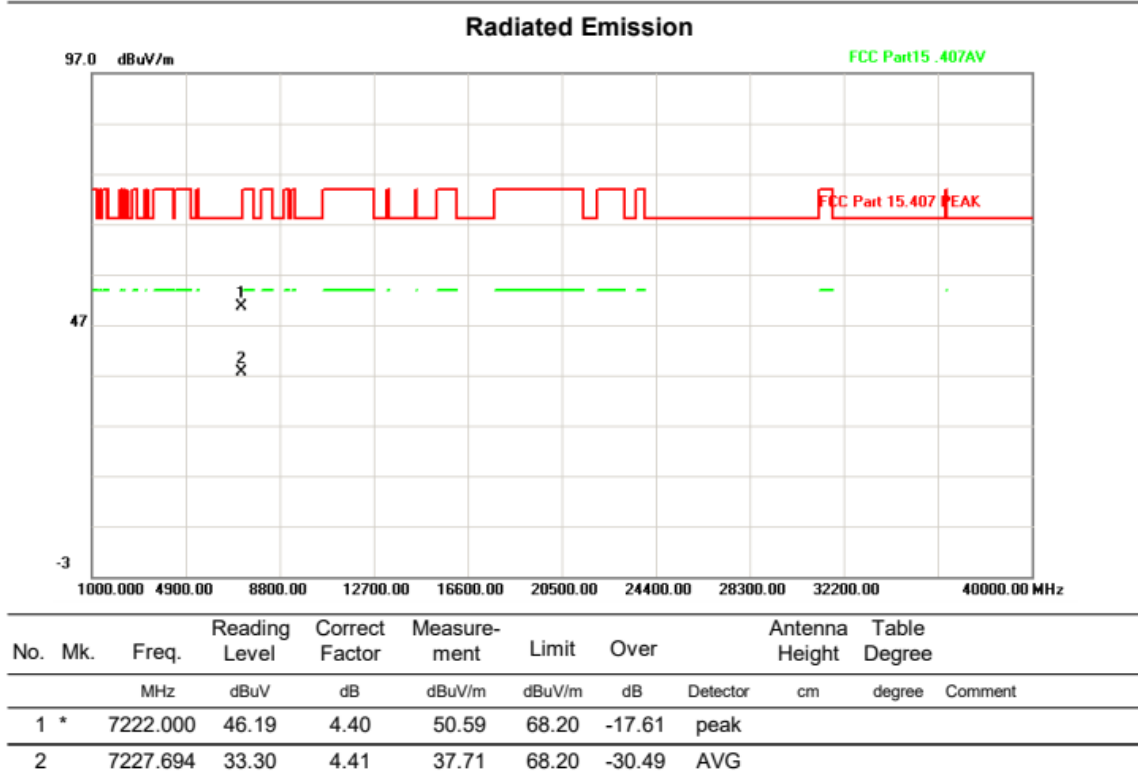


Above 1G (1GHz~40GHz)

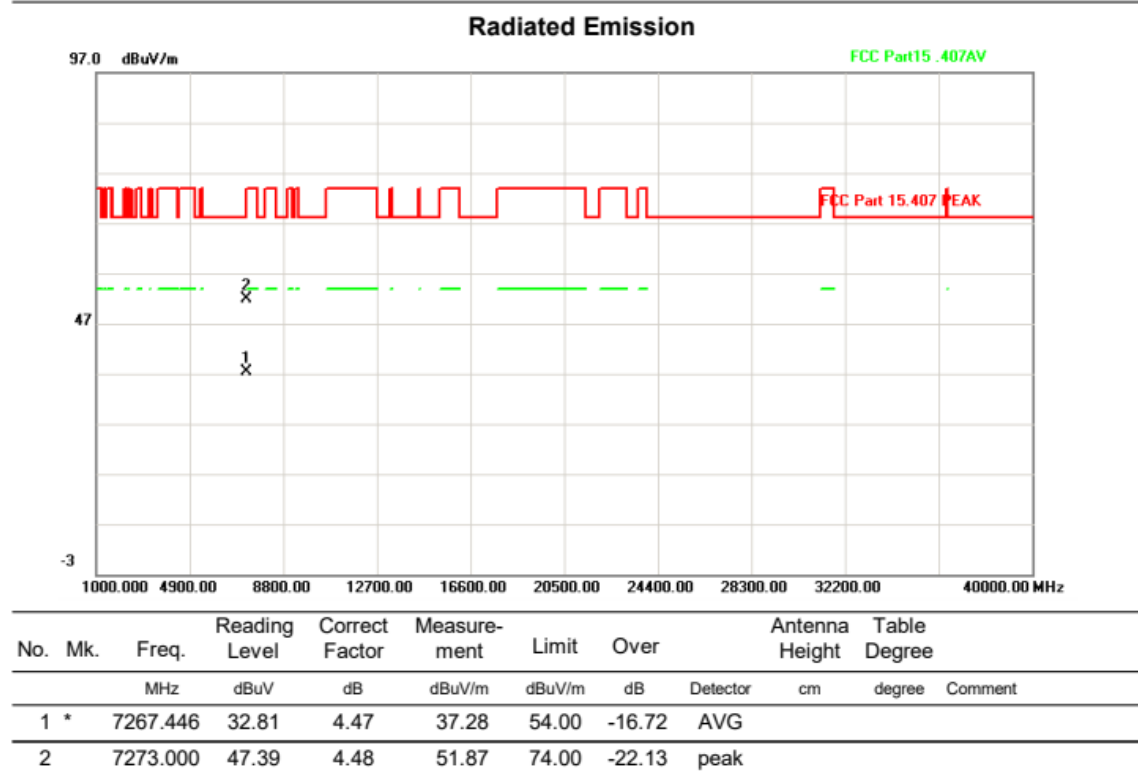
Test mode:11AC20

Test Channel:36

VERTICAL



HORIZONTAL

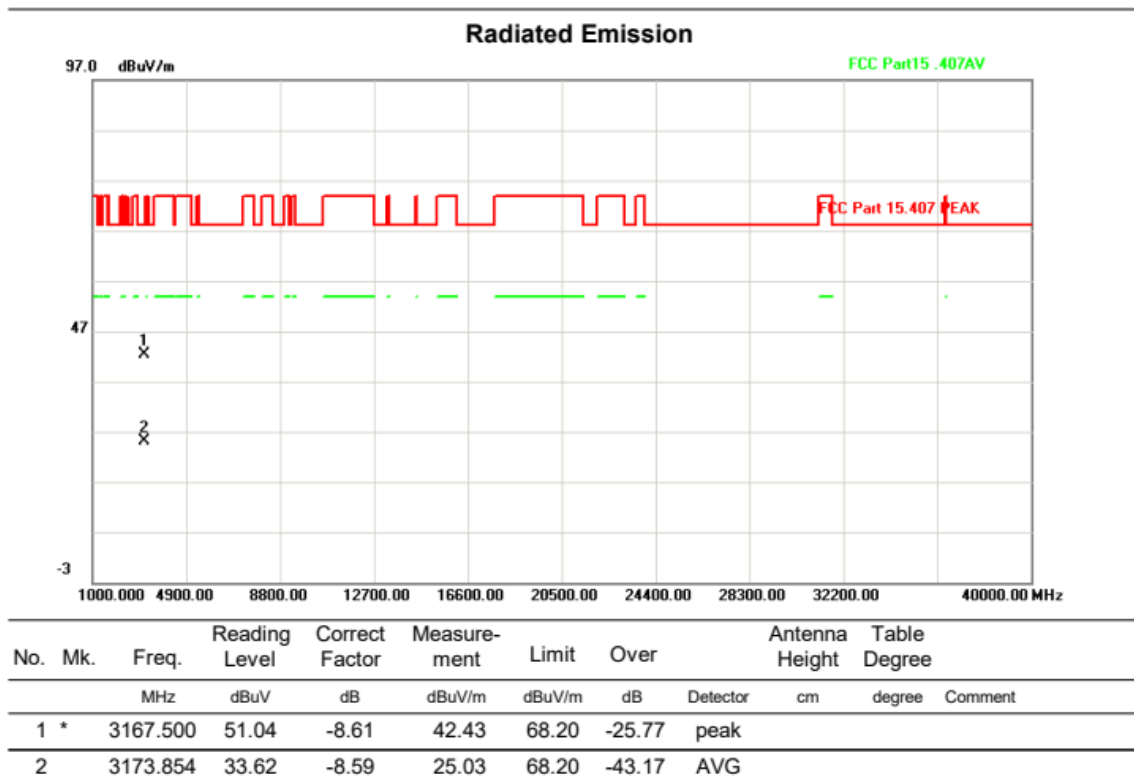


Above 1G (1GHz~40GHz)

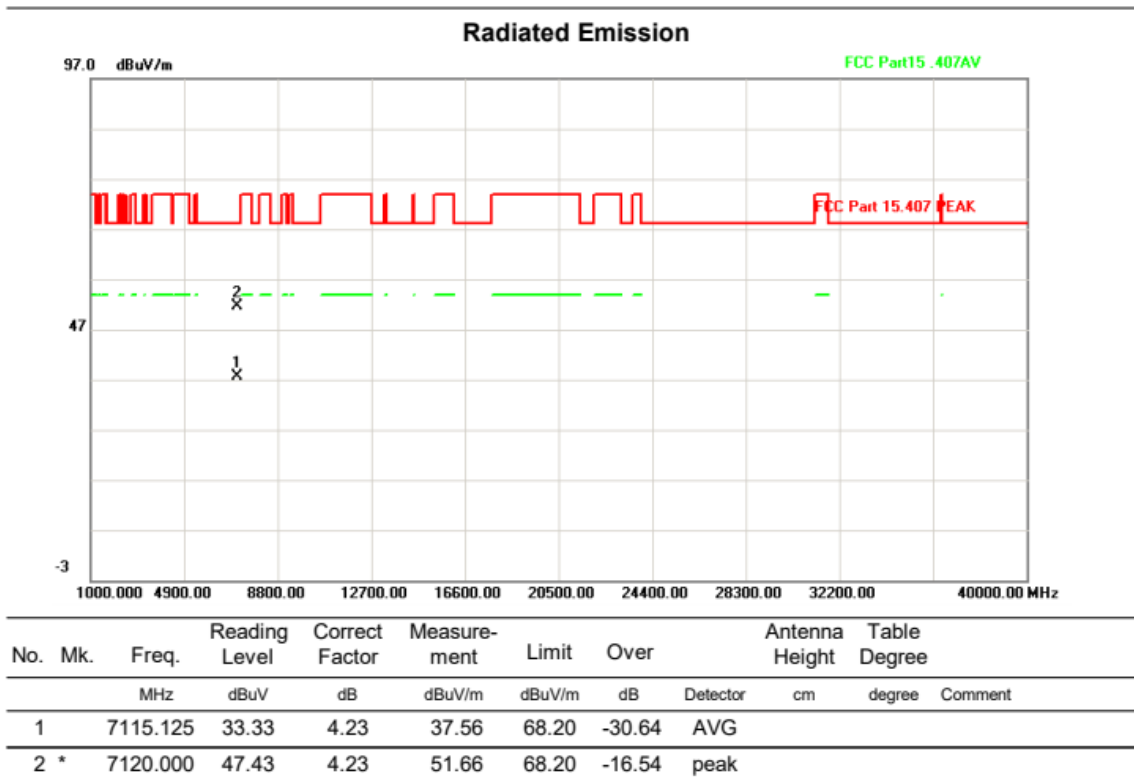
Test mode:11AC20

Test Channel:64

VERTICAL



HORIZONTAL

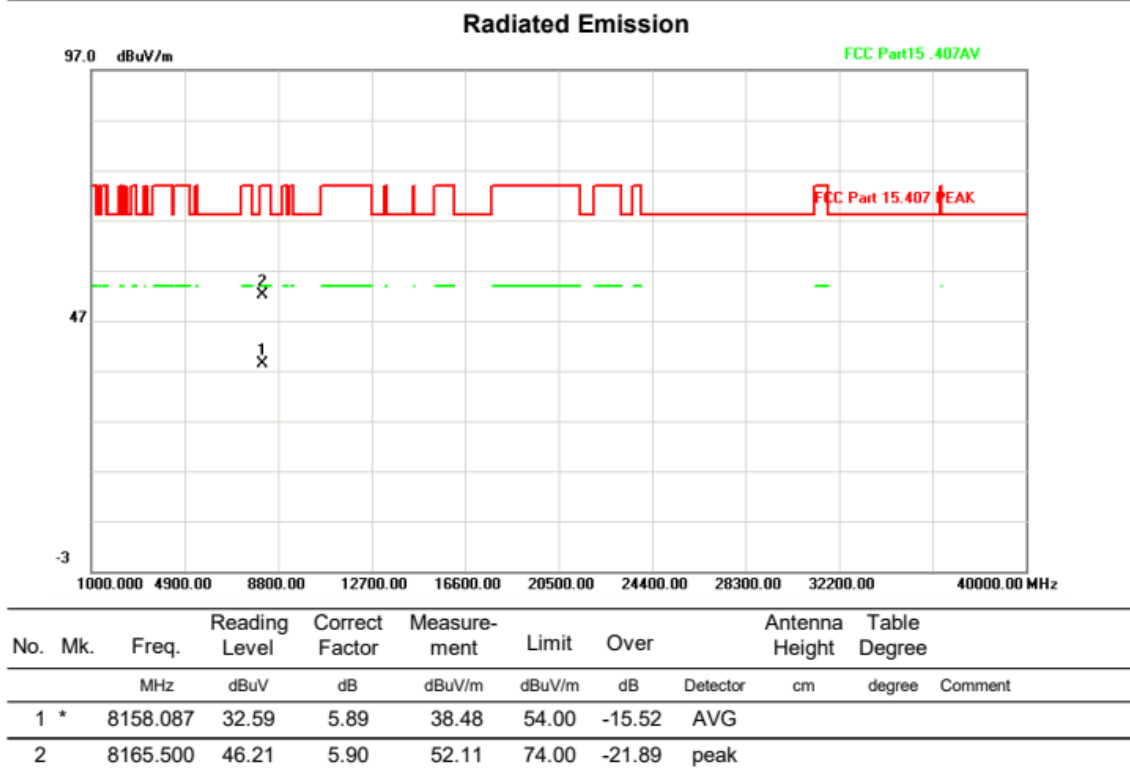


Above 1G (1GHz~40GHz)

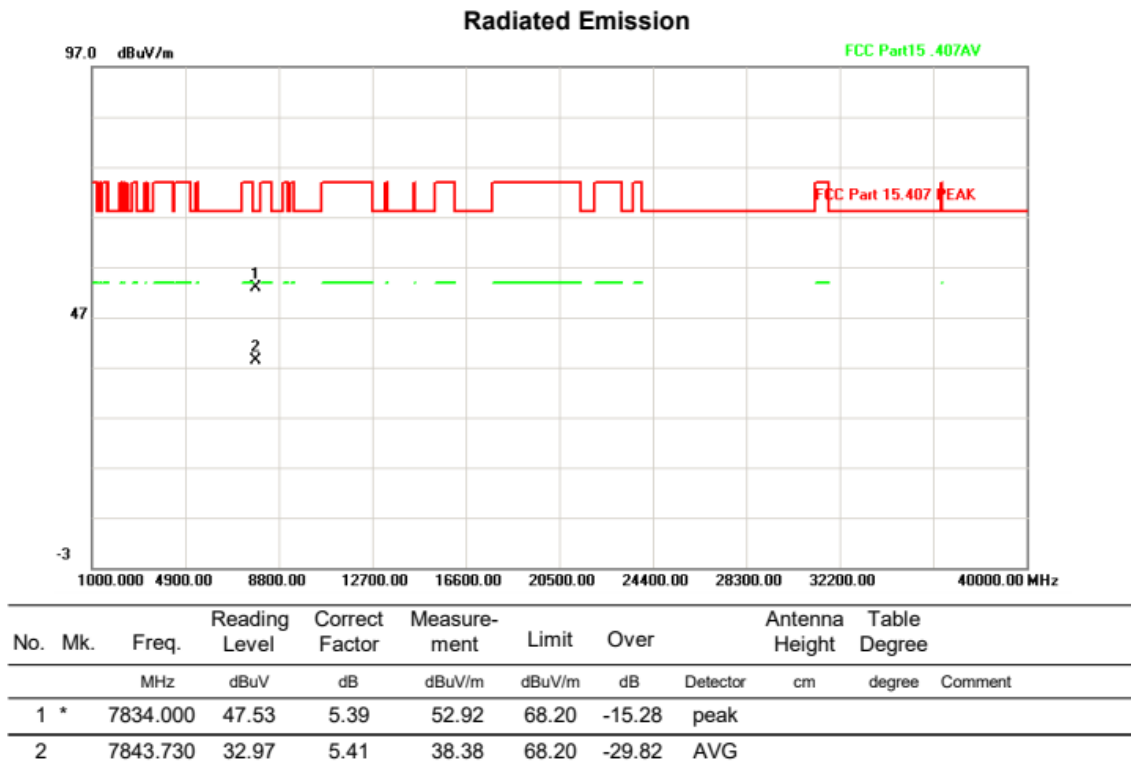
Test mode:11AC20

Test Channel:149

VERTICAL



HORIZONTAL

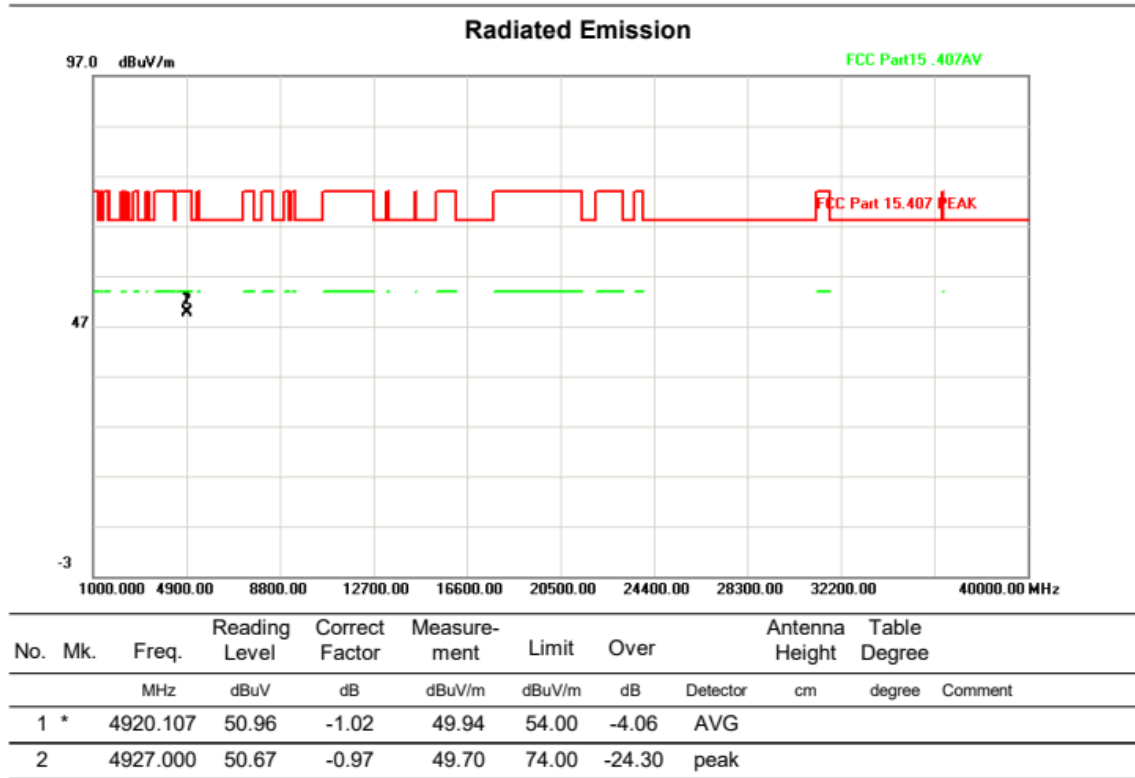


Above 1G (1GHz~40GHz)

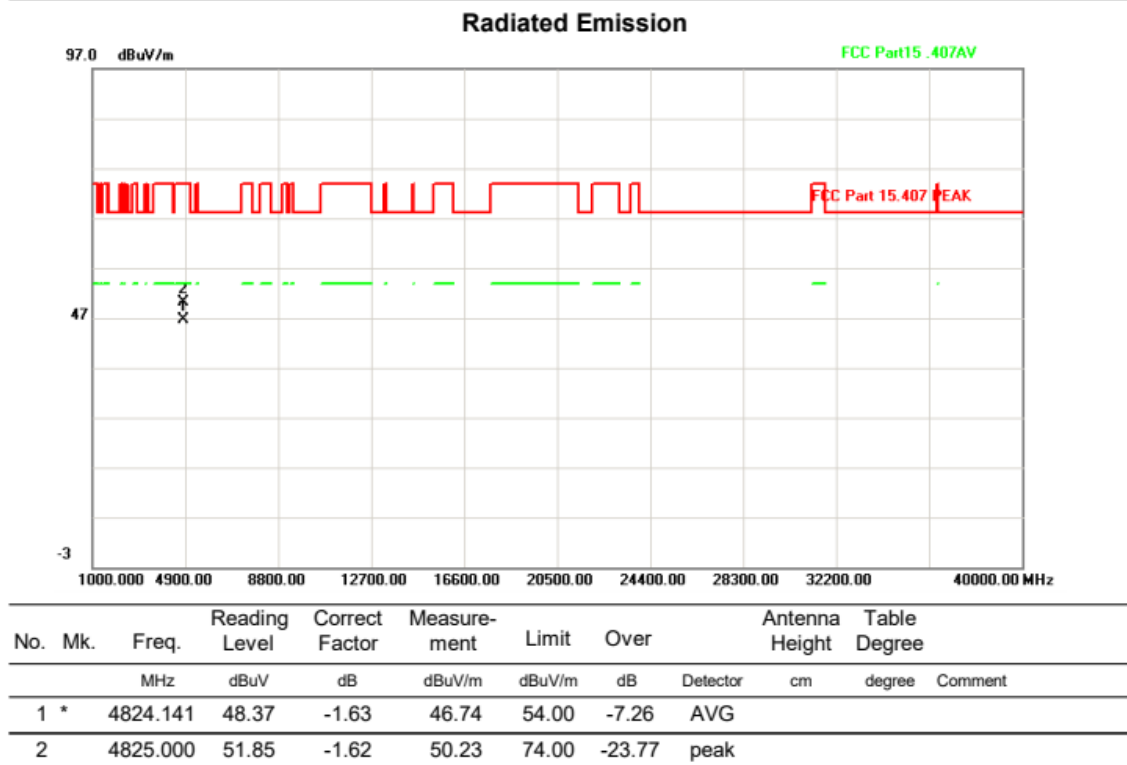
Test mode:11AC20

Test Channel:165

VERTICAL



HORIZONTAL

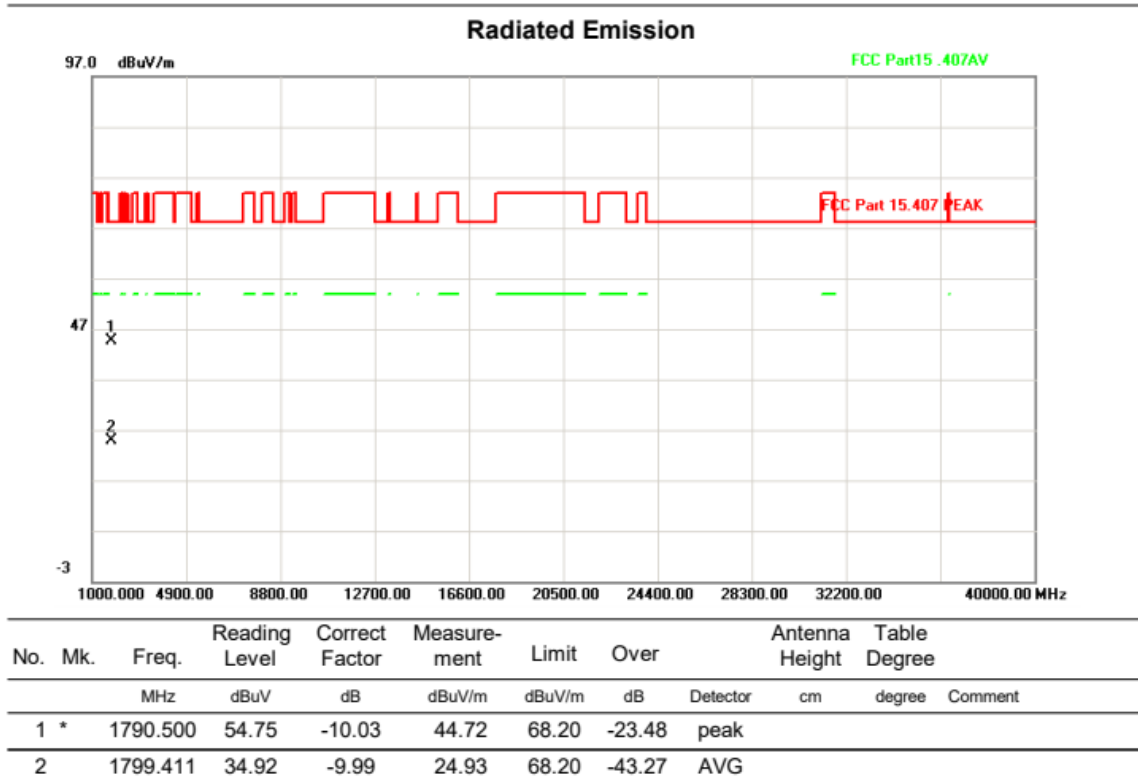


Above 1G (1GHz~40GHz)

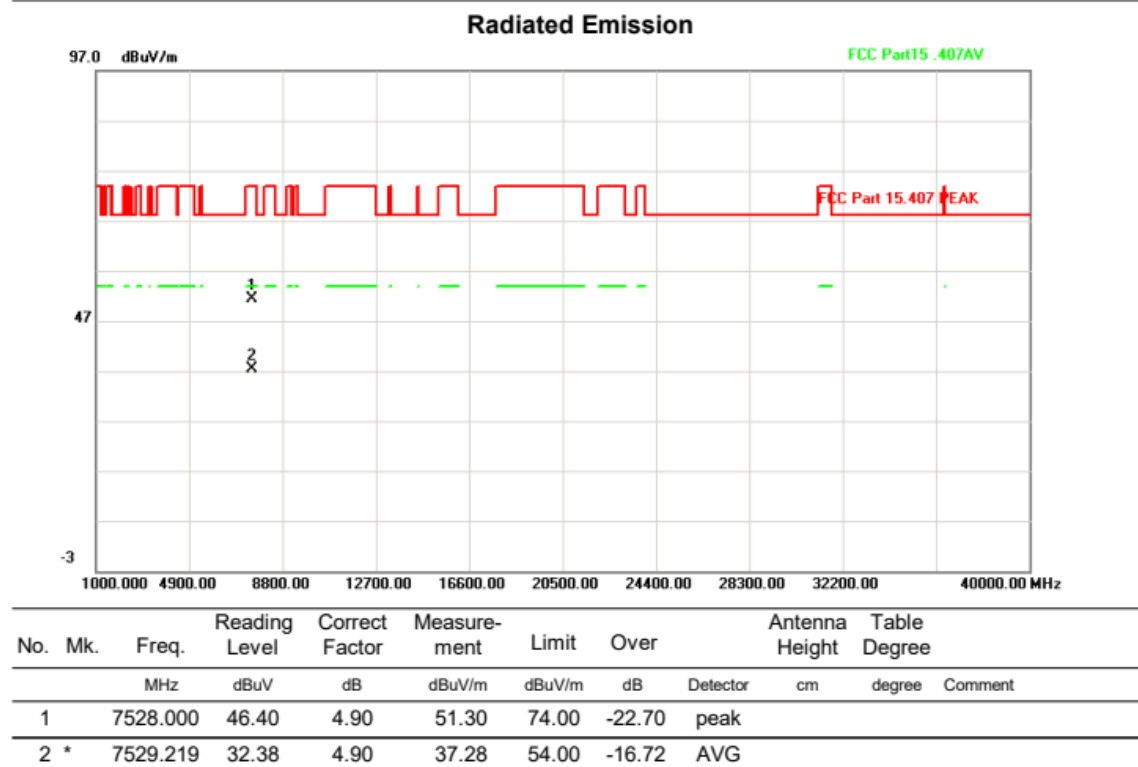
Test mode:11AC40

Test Channel:38

VERTICAL



HORIZONTAL

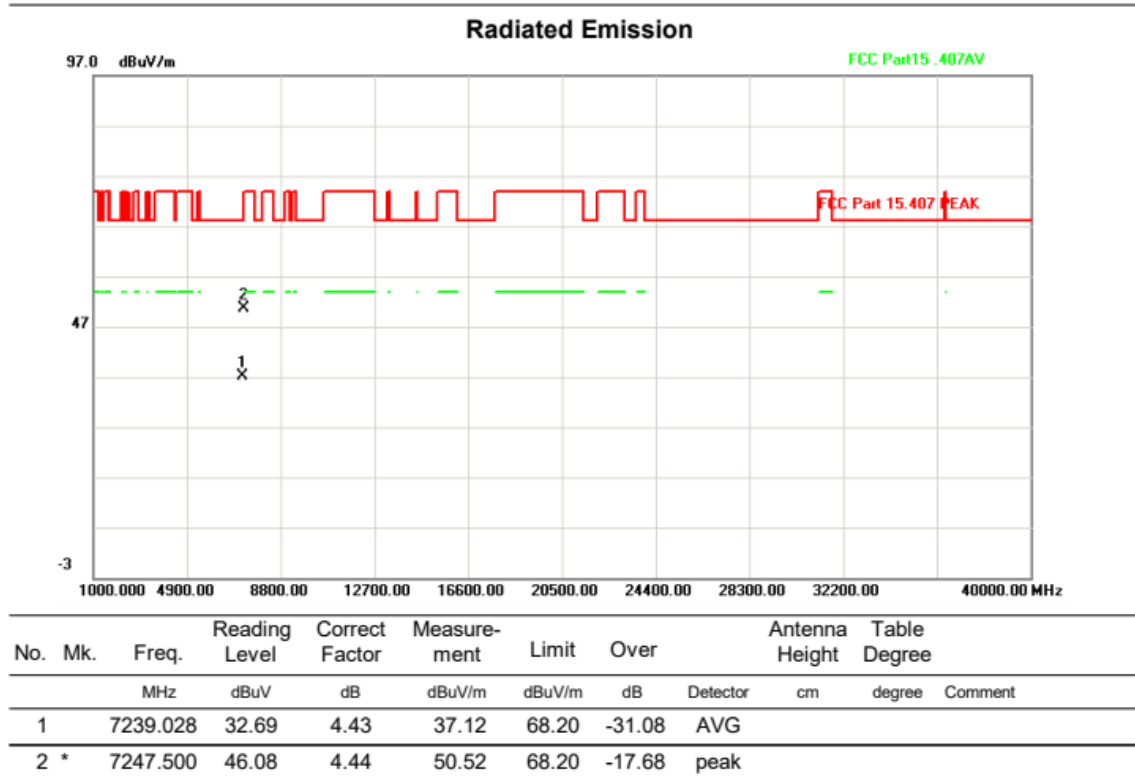


Above 1G (1GHz~40GHz)

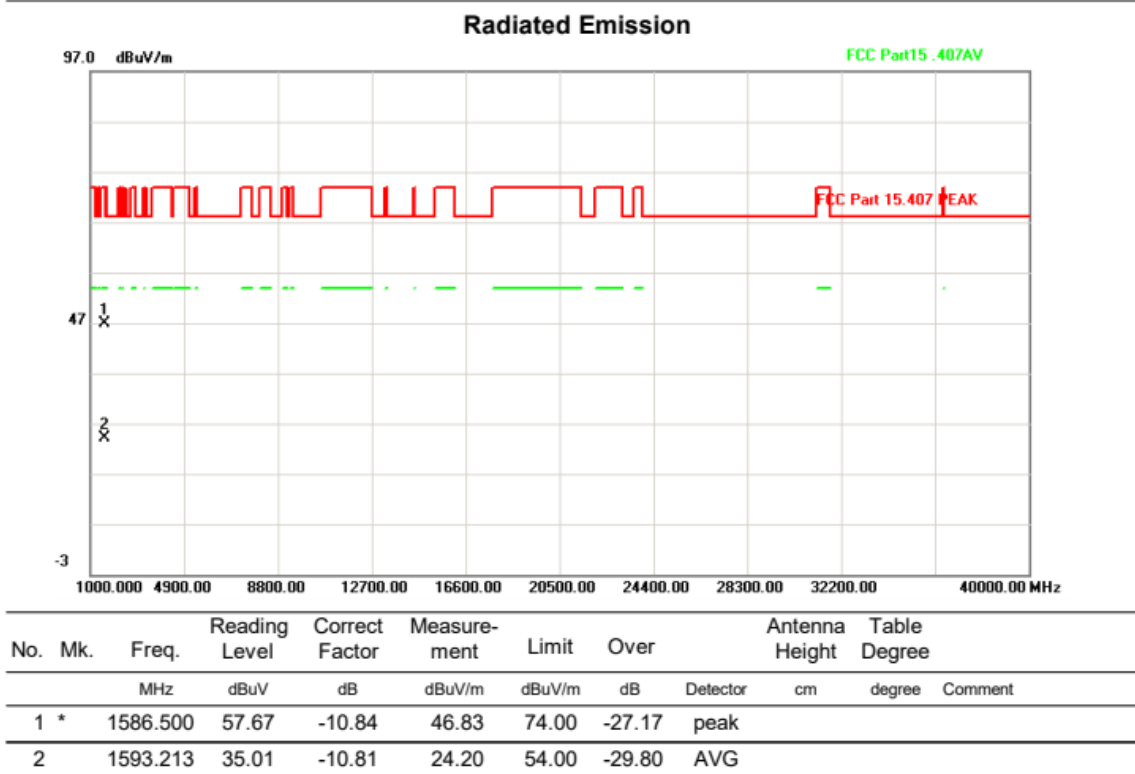
Test mode:11AC40

Test Channel:62

VERTICAL



HORIZONTAL

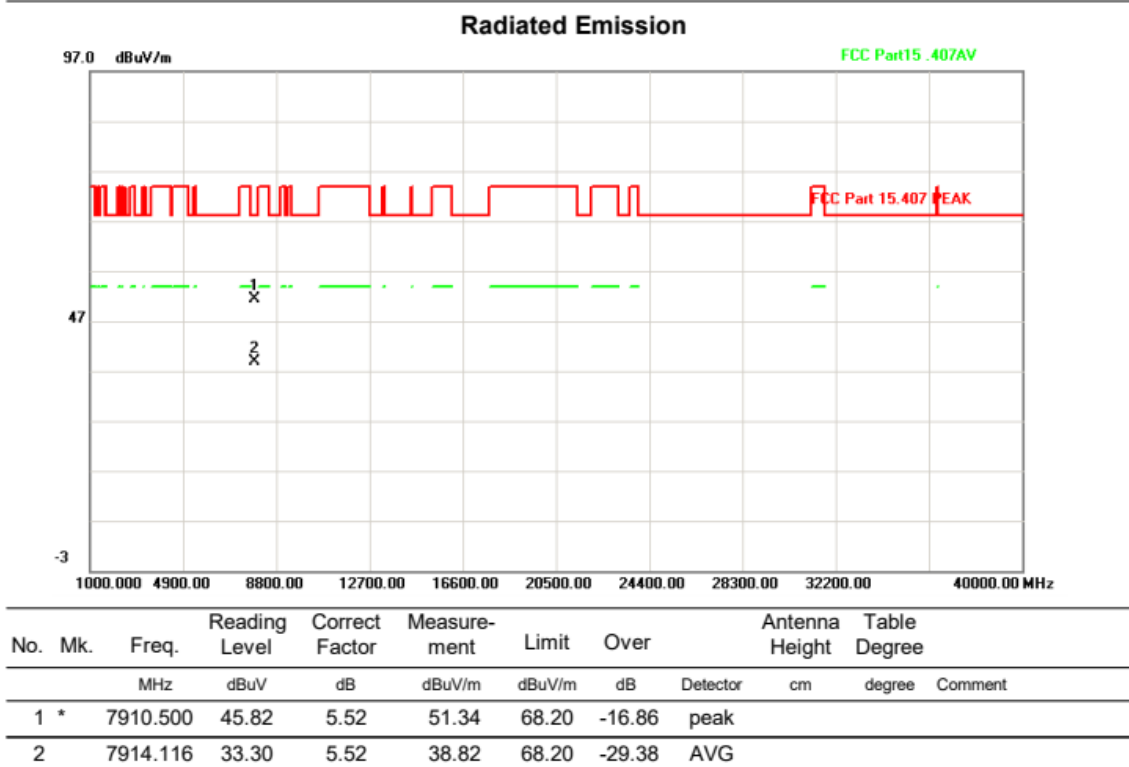


Above 1G (1GHz~40GHz)

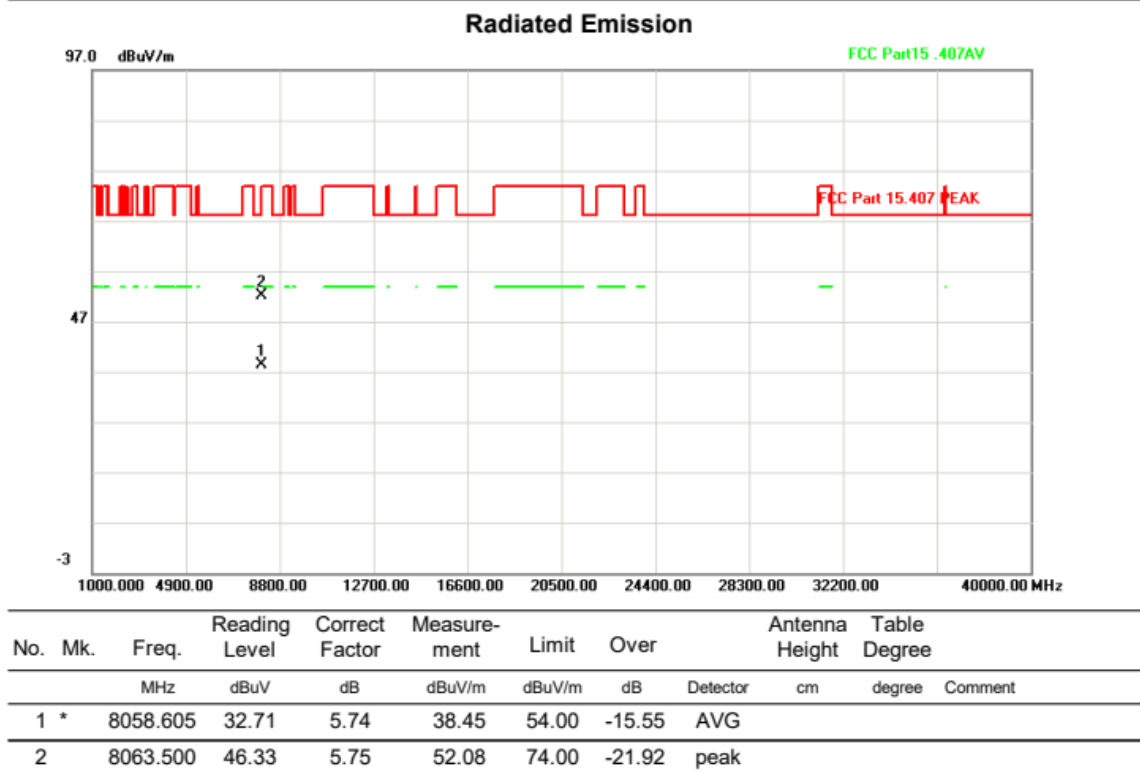
Test mode:11AC40

Test Channel:151

VERTICAL



HORIZONTAL

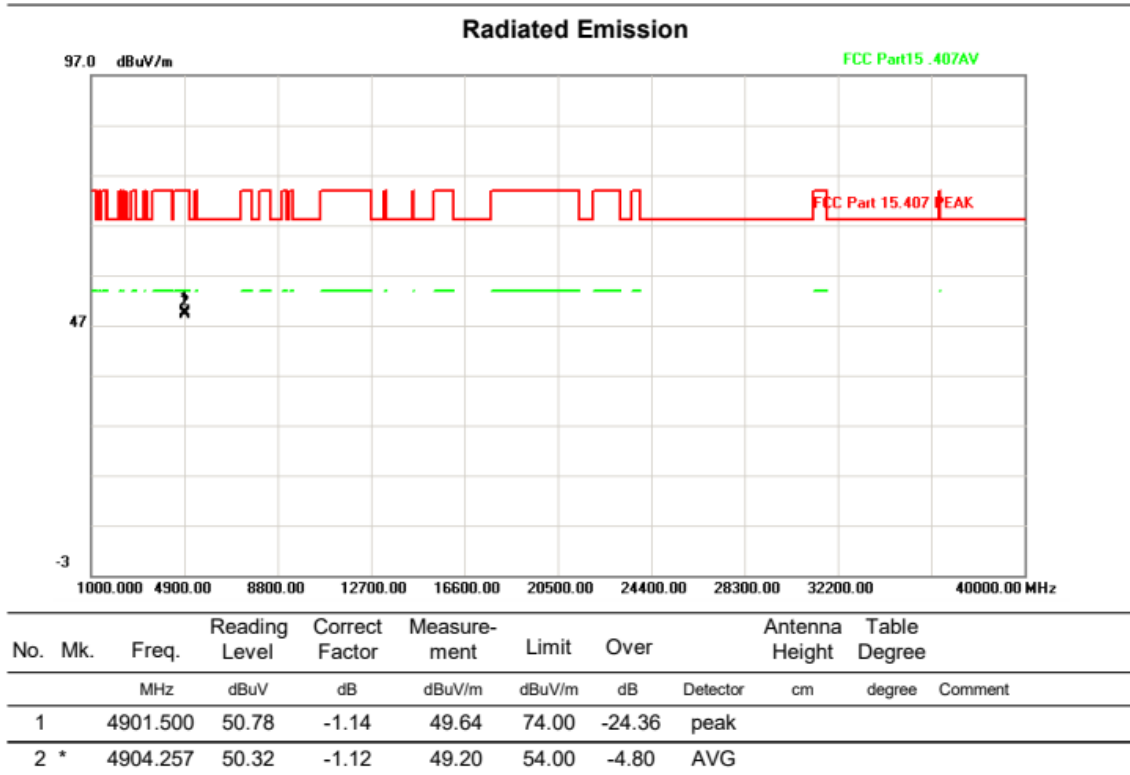


Above 1G (1GHz~40GHz)

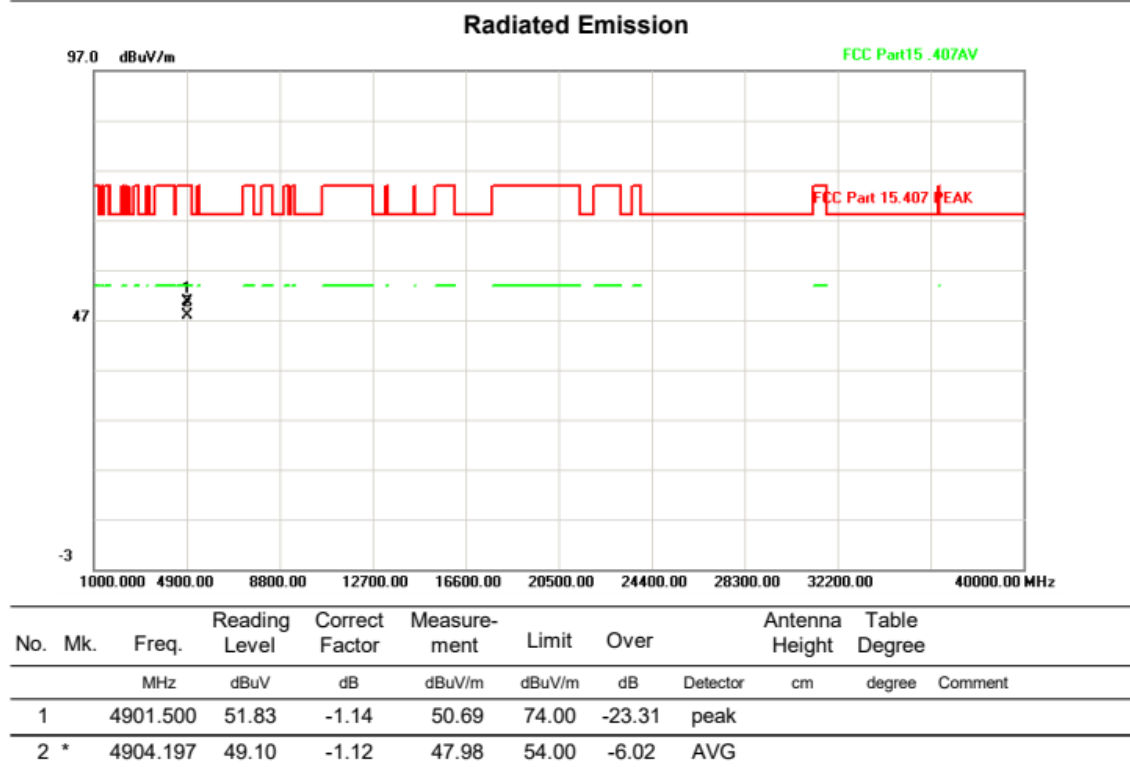
Test mode:11AC40

Test Channel:159

VERTICAL



HORIZONTAL

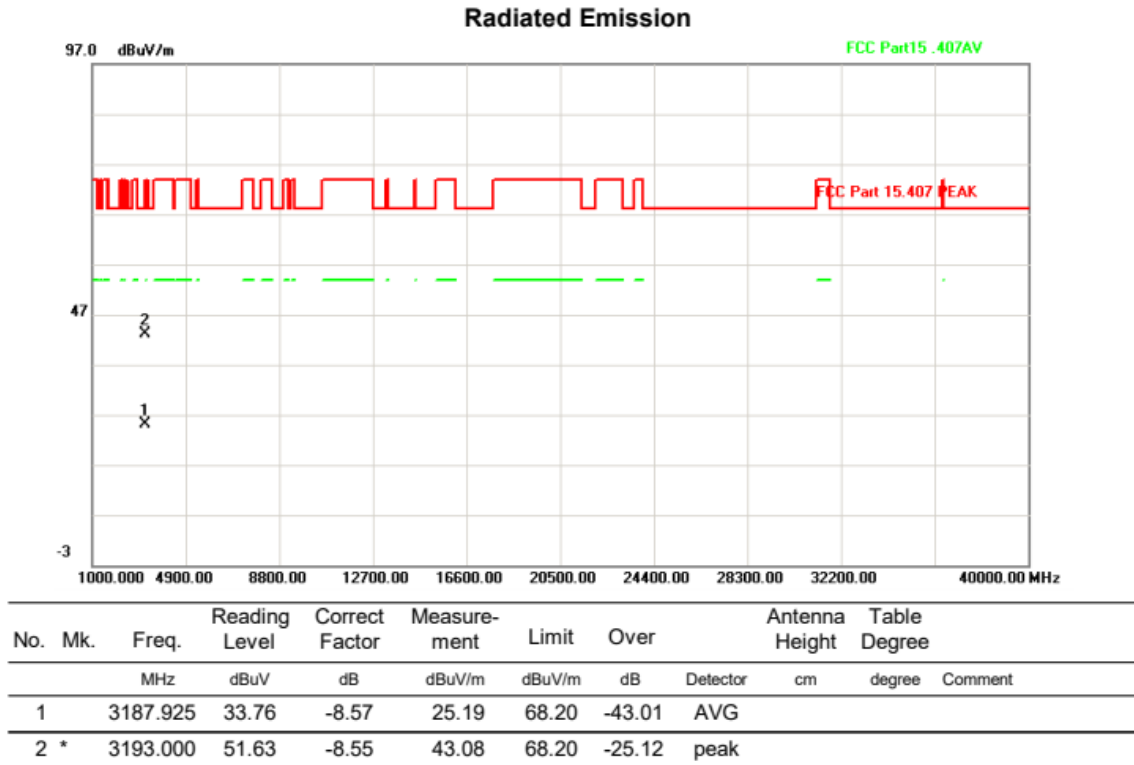


Above 1G (1GHz~40GHz)

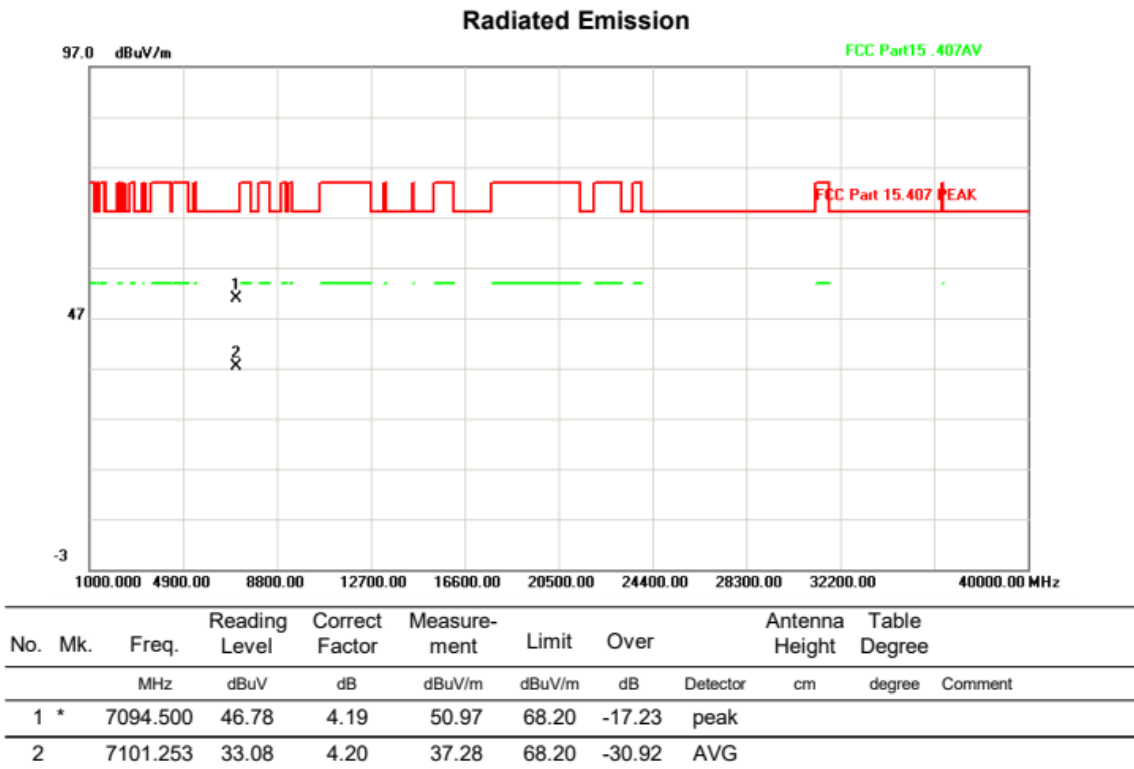
Test mode:11AC80

Test Channel:42

VERTICAL



HORIZONTAL

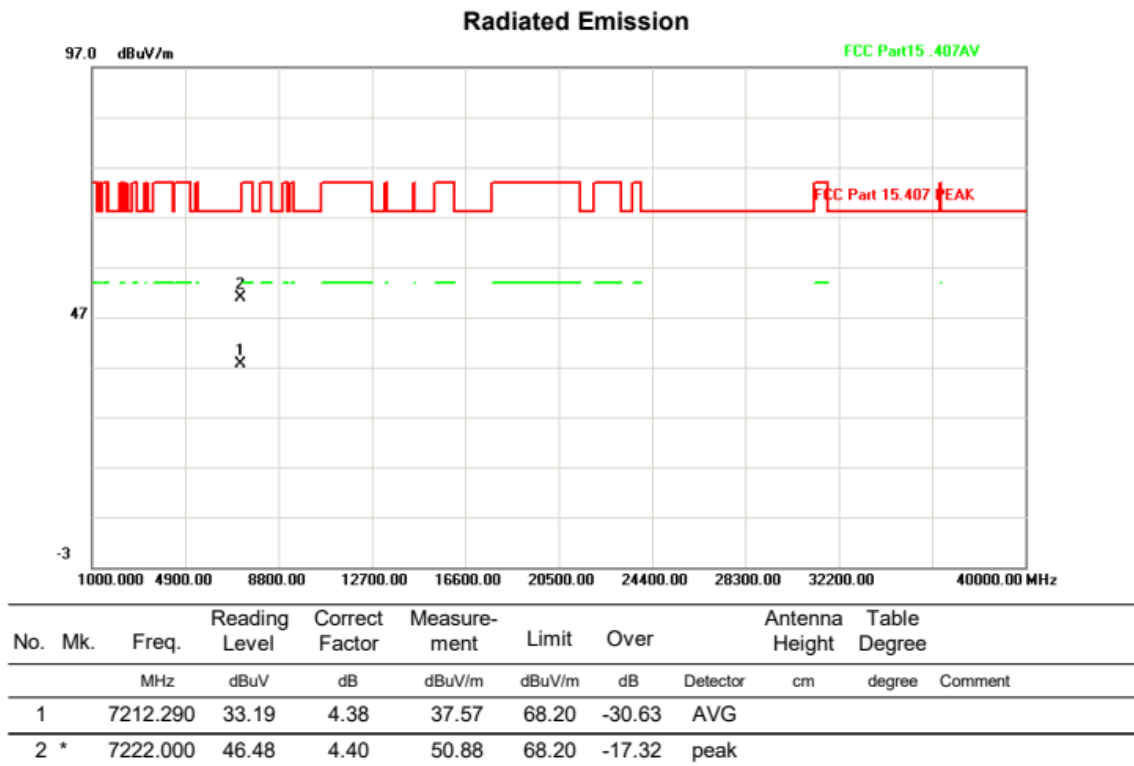


Above 1G (1GHz~40GHz)

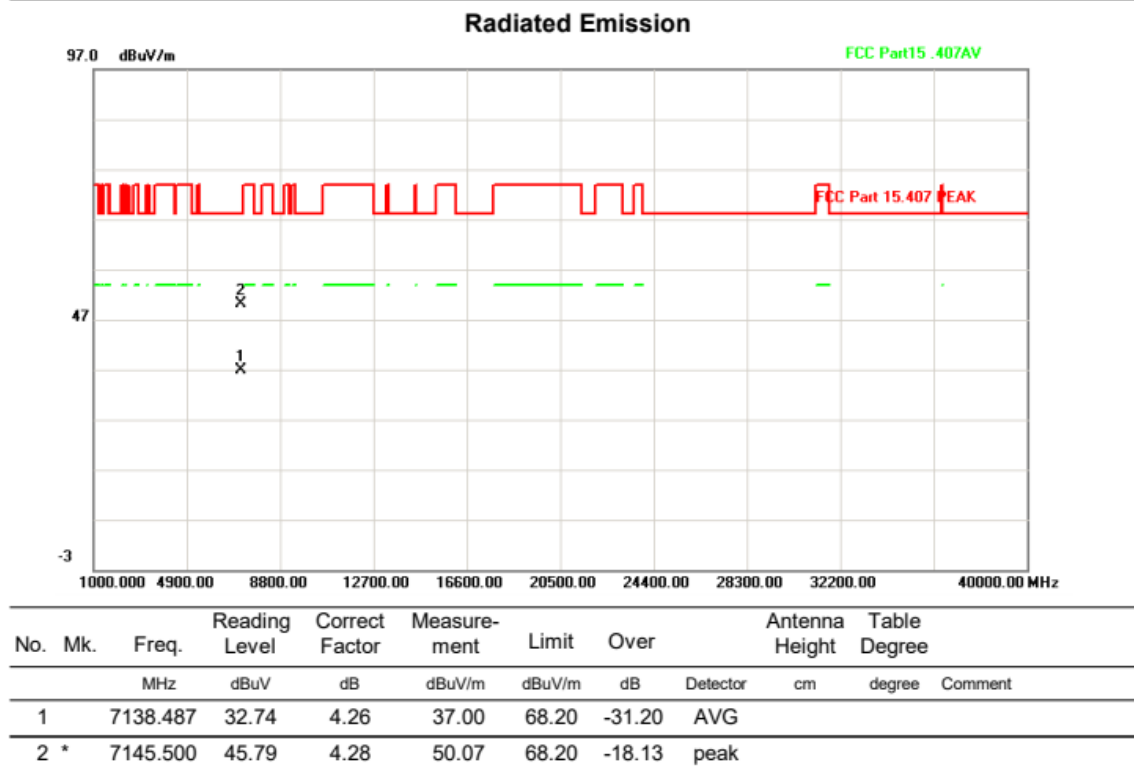
Test mode:11AC80

Test Channel:58

VERTICAL



HORIZONTAL

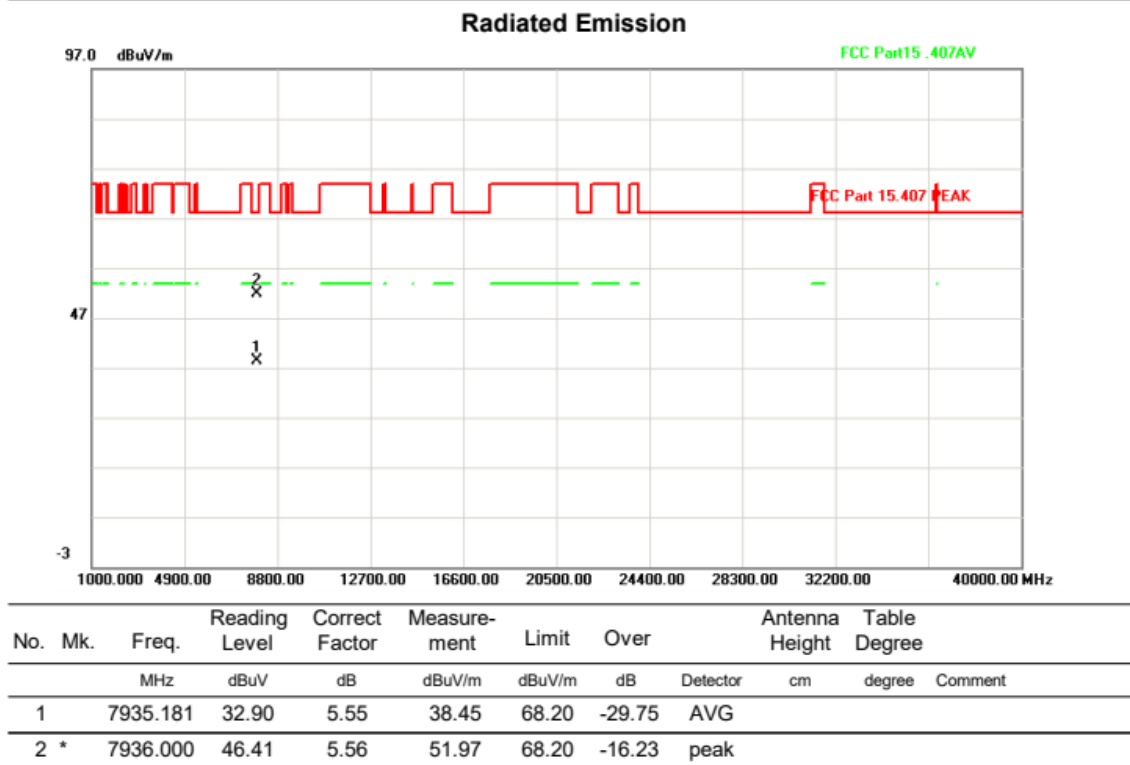


Above 1G (1GHz~40GHz)

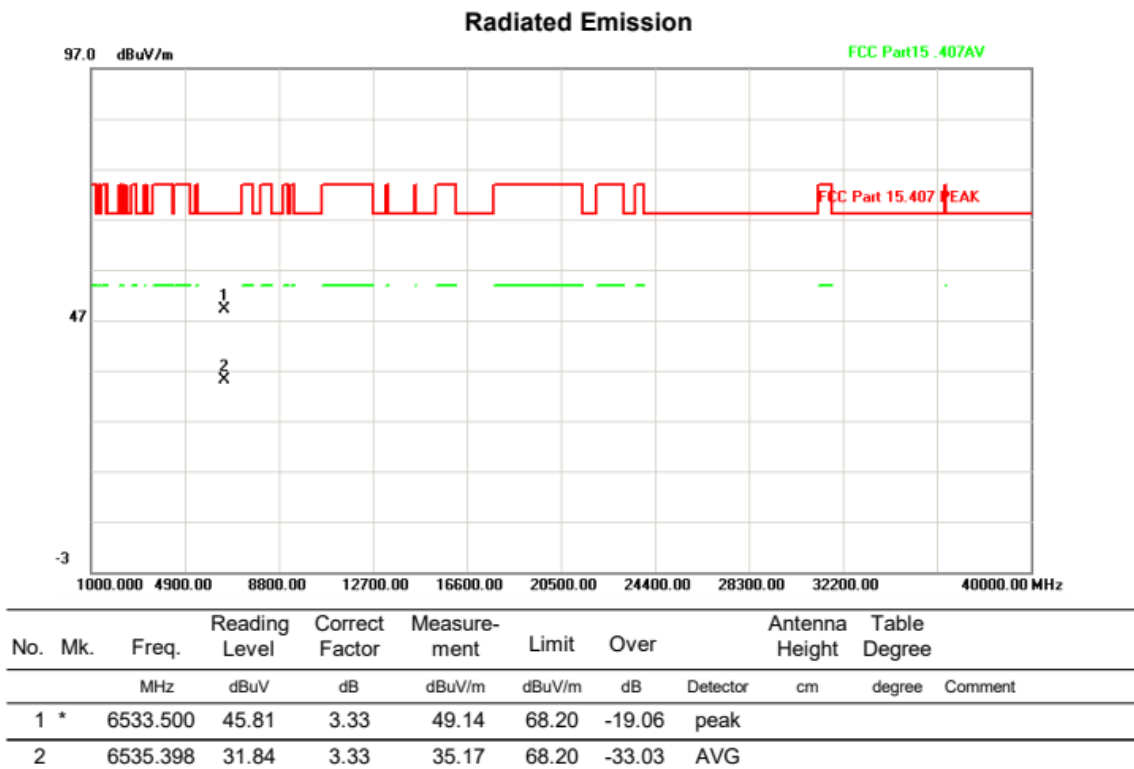
Test mode:11AC80

Test Channel:155

VERTICAL



HORIZONTAL



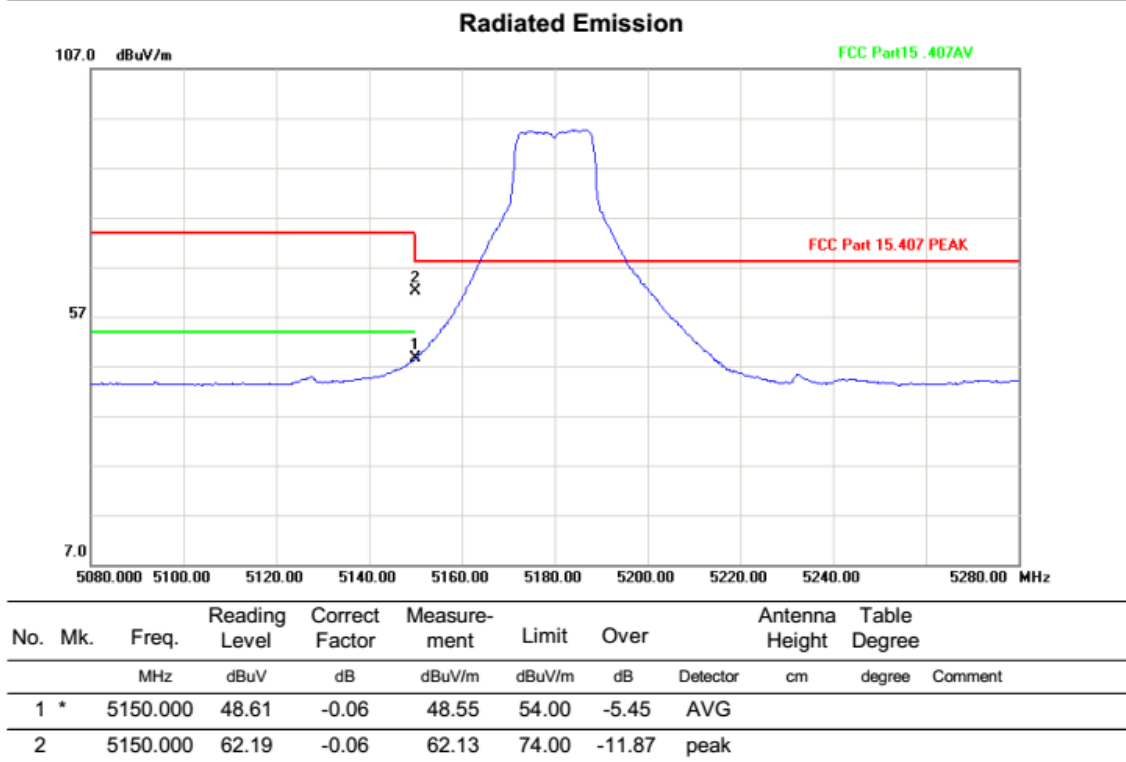
4) Radiated Band Edge

Above 1G (1GHz~40GHz)

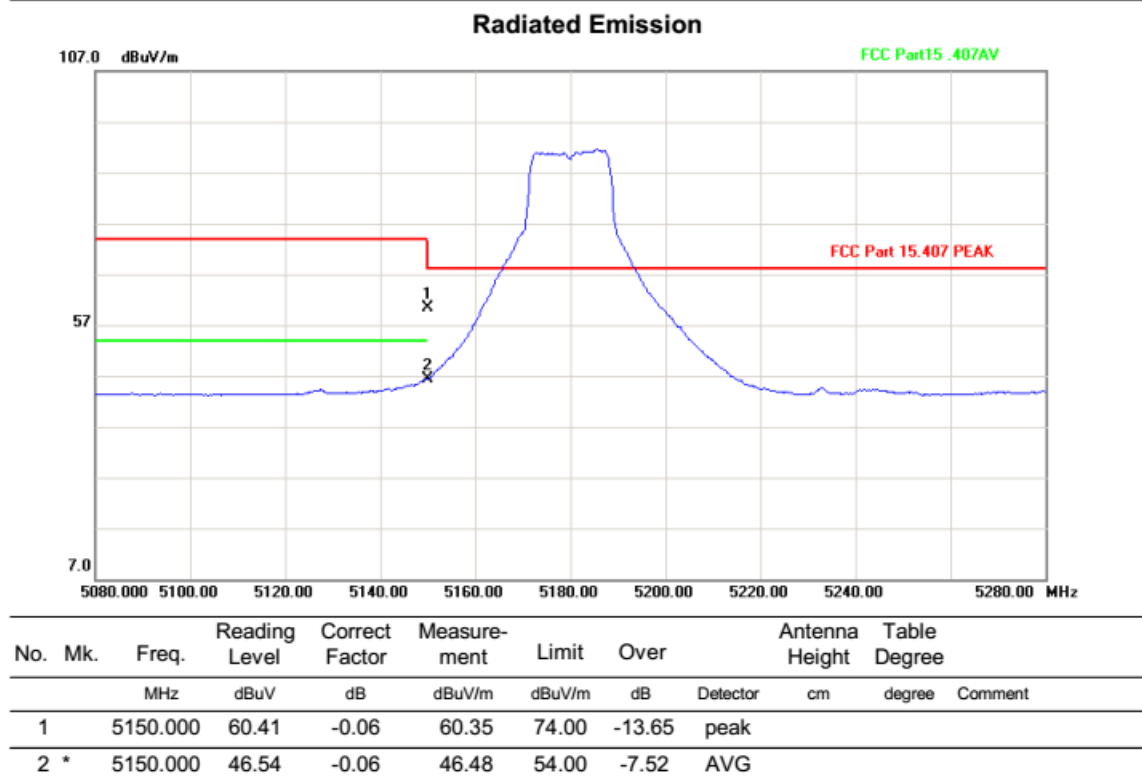
Test mode:11A

Test Channel:36

VERTICAL



HORIZONTAL



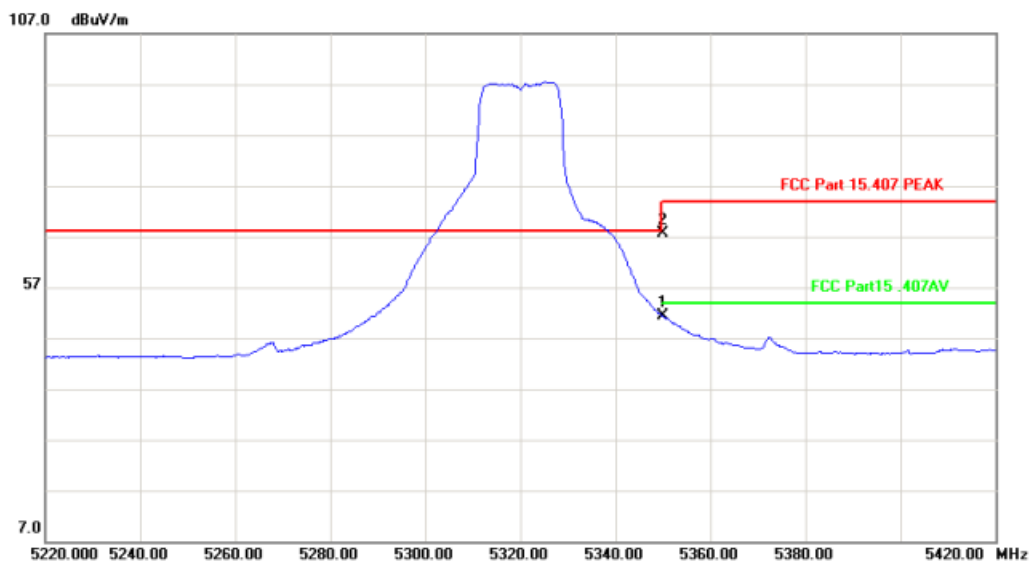
Above 1G (1GHz~40GHz)

Test mode:11A

Test Channel:64

VERTICAL

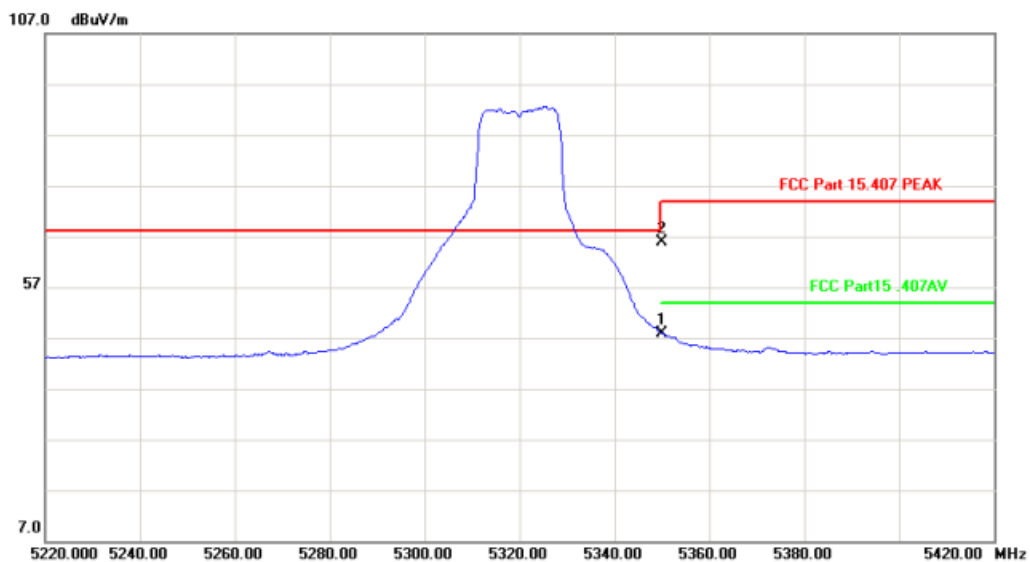
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	5350.000	50.72	0.55	51.27	54.00	-2.73	AVG		
2		5350.000	67.17	0.55	67.72	74.00	-6.28	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	5350.000	47.44	0.55	47.99	54.00	-6.01	AVG		
2		5350.000	65.34	0.55	65.89	74.00	-8.11	peak		

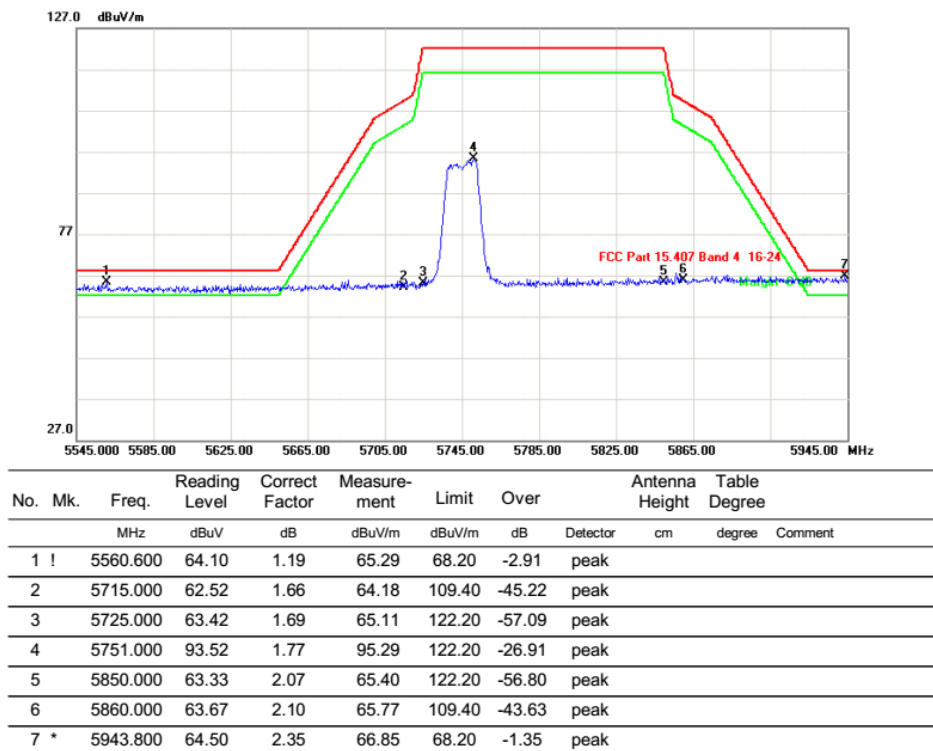
Above 1G (1GHz~40GHz)

Test mode:11A

Test Channel:149

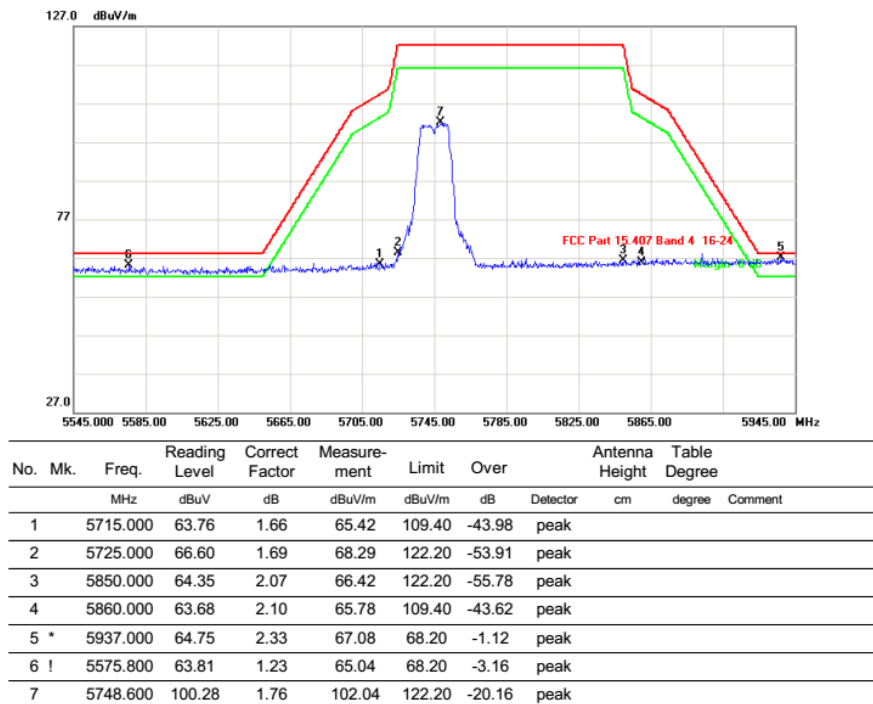
VERTICAL

Radiated Emission



HORIZONTAL

Radiated Emission

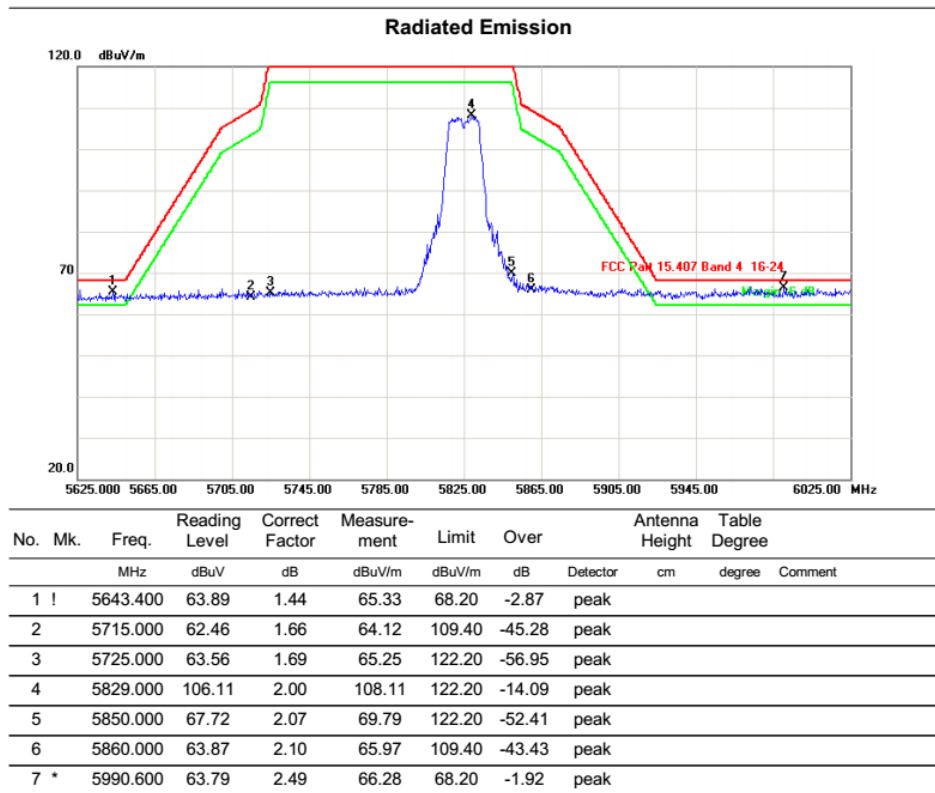


Above 1G (1GHz~40GHz)

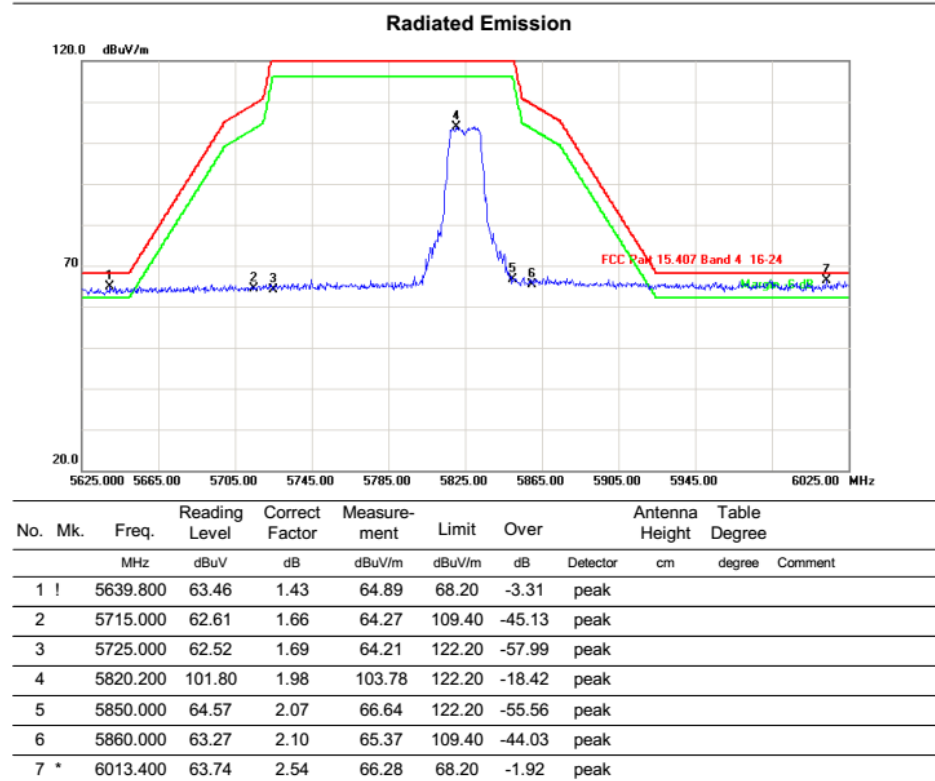
Test mode:11A

Test Channel:165

VERTICAL



HORIZONTAL

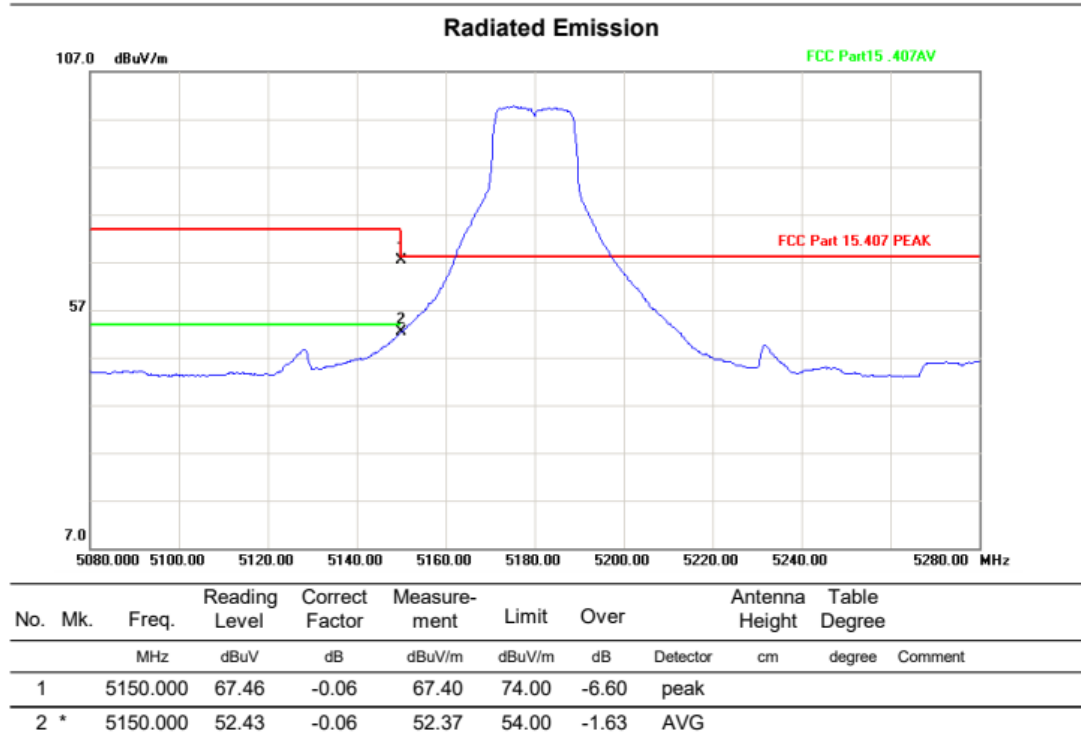


Above 1G (1GHz~40GHz)

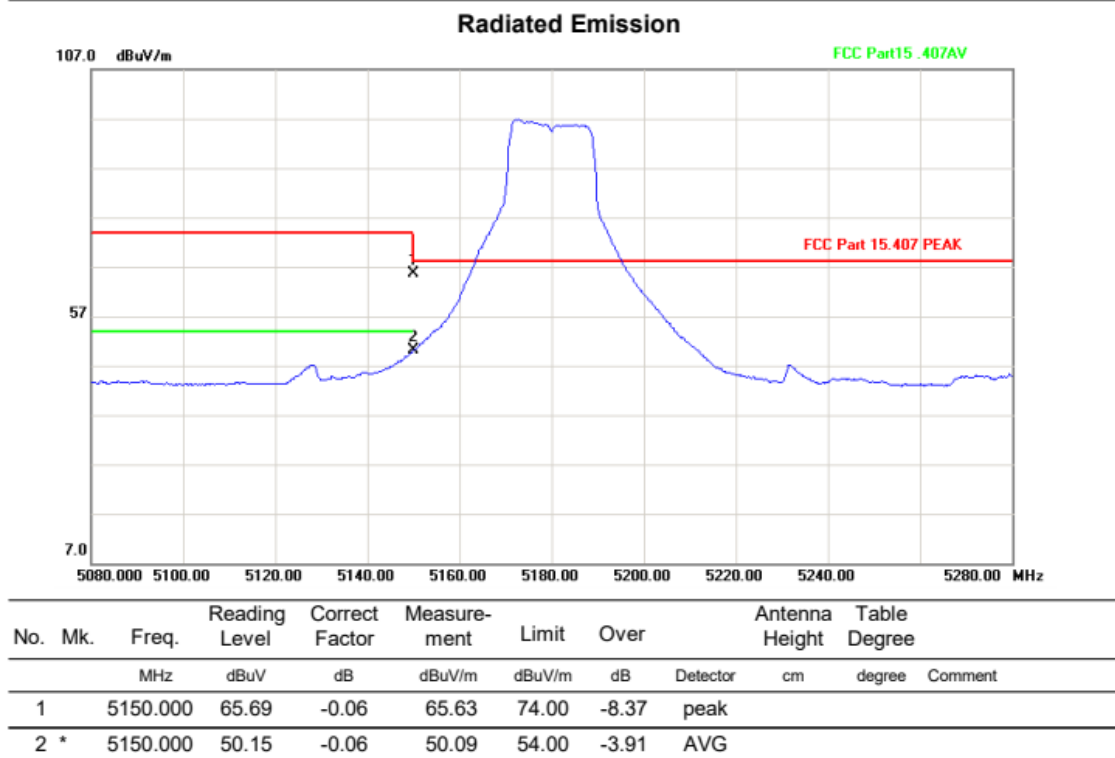
Test mode:11N20

Test Channel:36

VERTICAL



HORIZONTAL



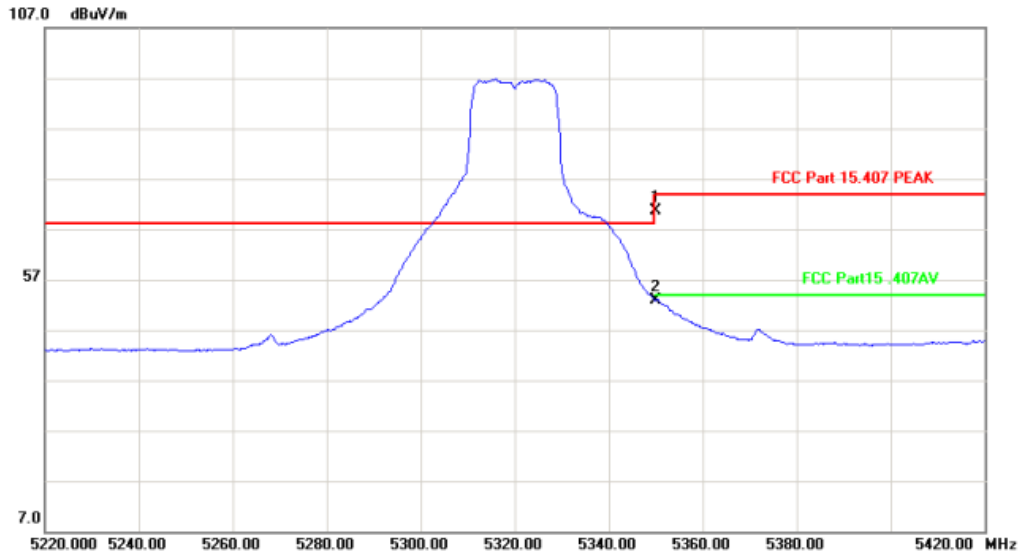
Above 1G (1GHz~40GHz)

Test mode:11N20

Test Channel:64

VERTICAL

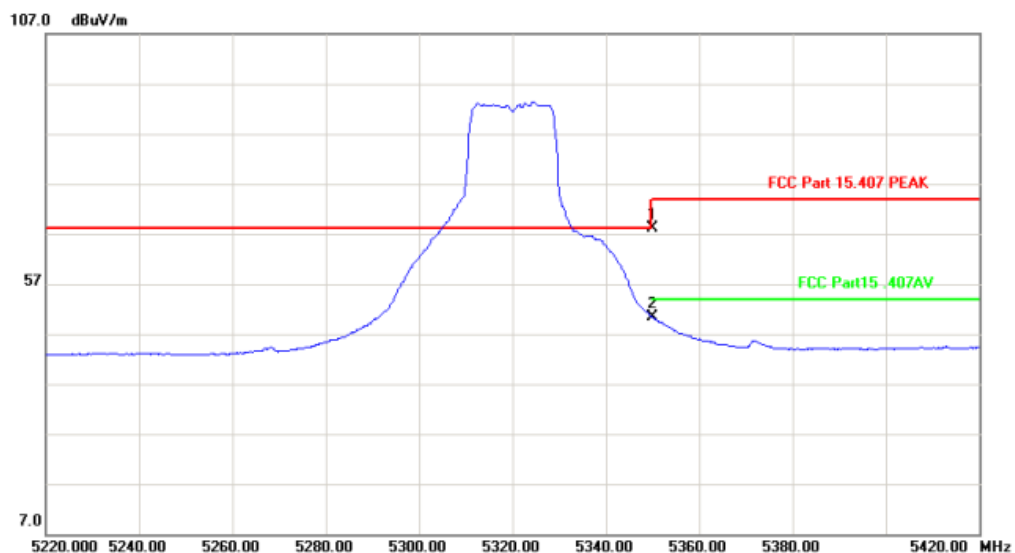
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	70.07	0.55	70.62	74.00	-3.38	peak		
2	*	5350.000	52.37	0.55	52.92	54.00	-1.08	AVG		

HORIZONTAL

Radiated Emission



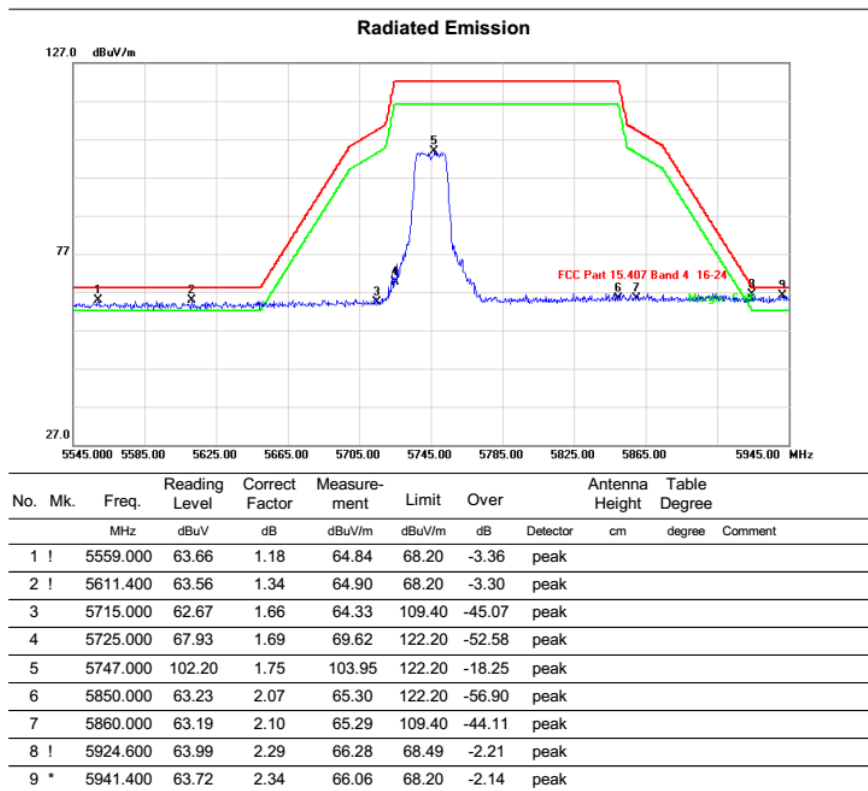
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	67.48	0.55	68.03	74.00	-5.97	peak		
2	*	5350.000	49.77	0.55	50.32	54.00	-3.68	AVG		

Above 1G (1GHz~40GHz)

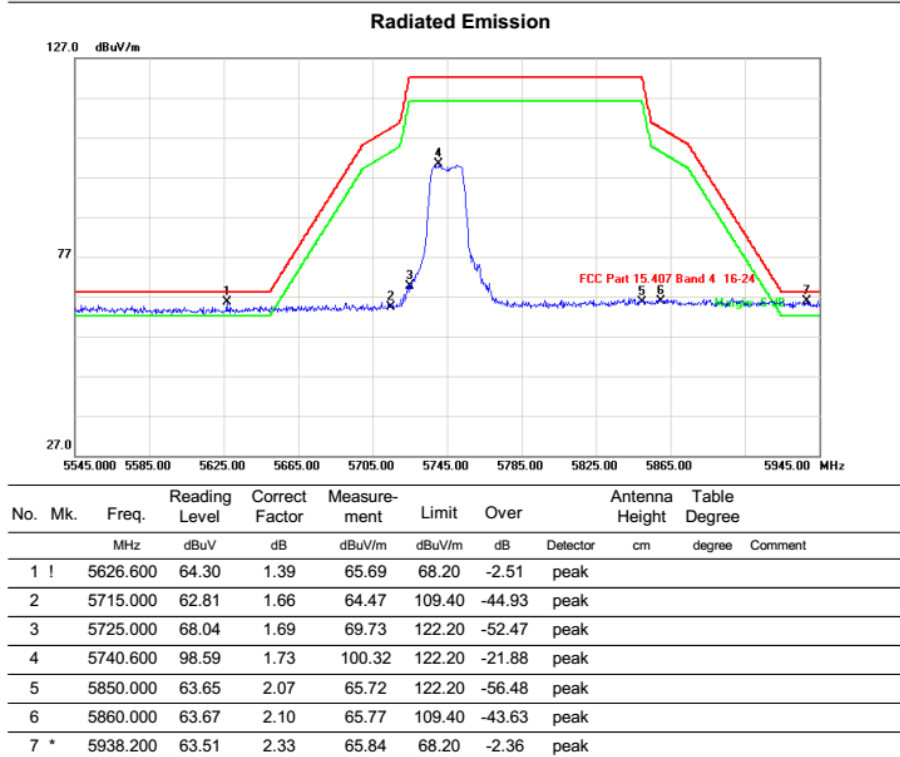
Test mode:11N20

Test Channel:149

VERTICAL



HORIZONTAL

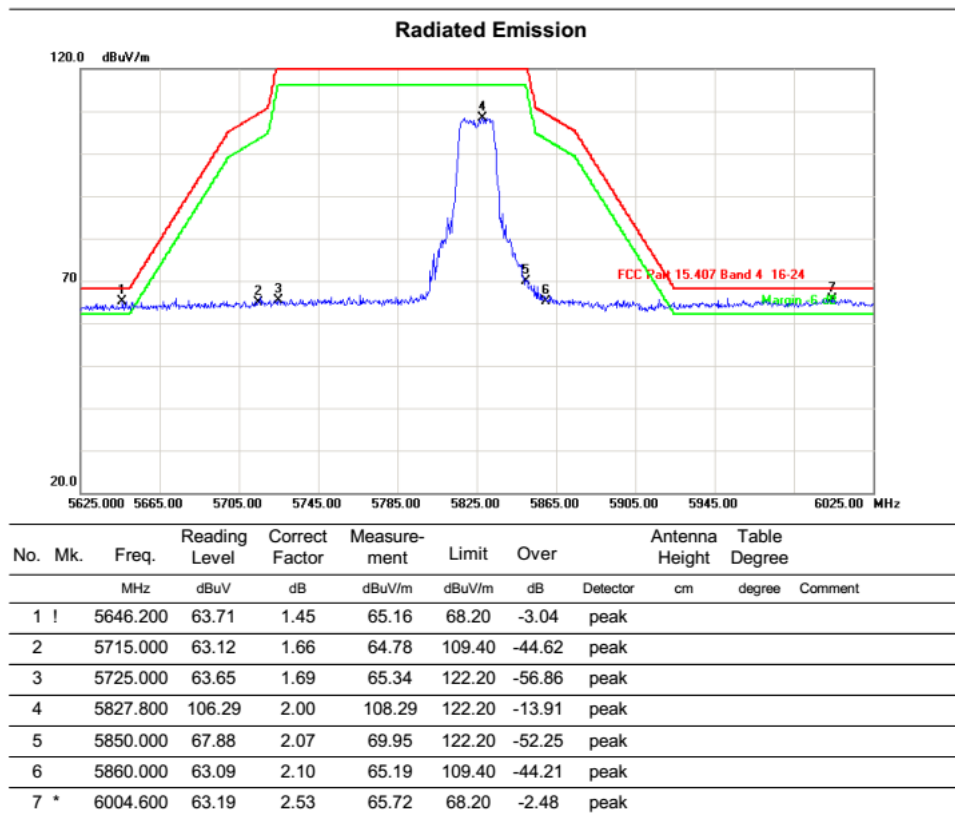


Above 1G (1GHz~40GHz)

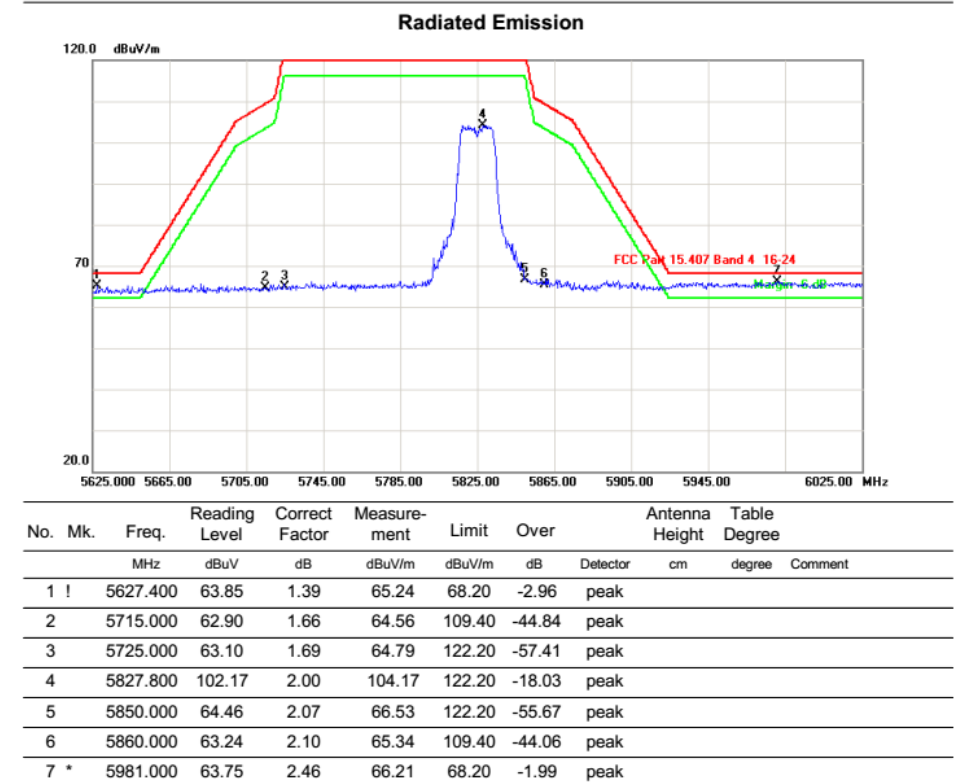
Test mode:11N20

Test Channel:165

VERTICAL



HORIZONTAL



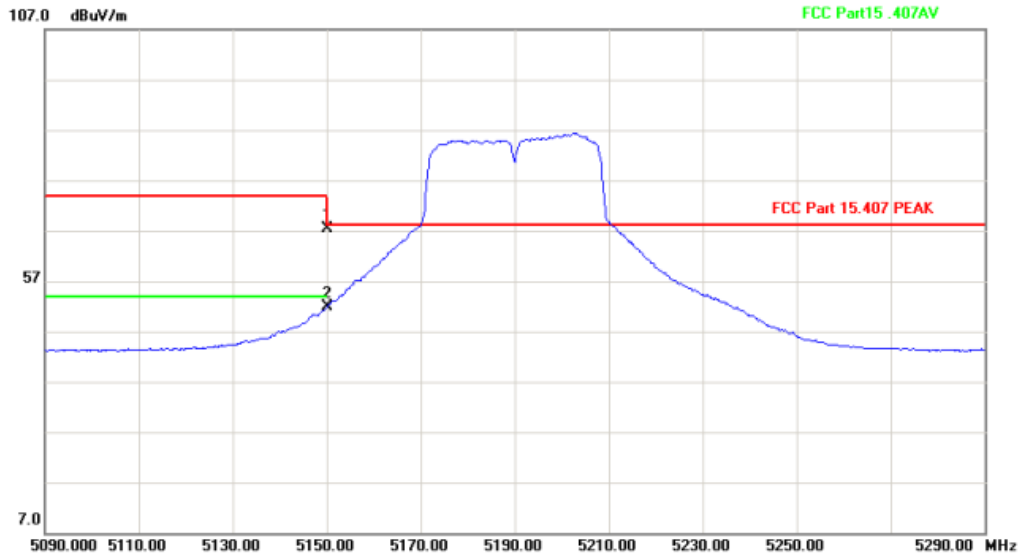
Above 1G (1GHz~40GHz)

Test mode:11N40

Test Channel:38

VERTICAL

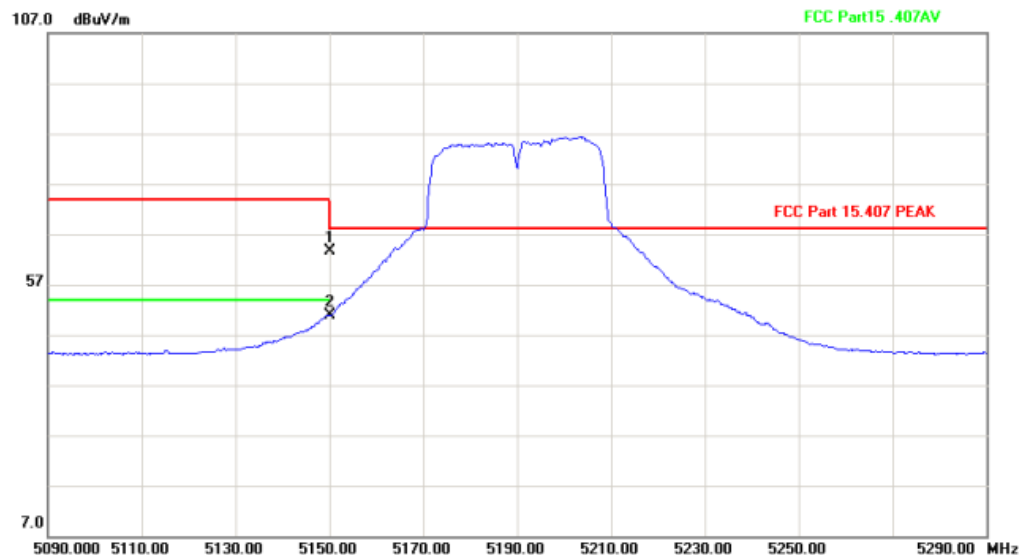
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5150.000	67.47	-0.06	67.41	74.00	-6.59	peak		
2	*	5150.000	51.90	-0.06	51.84	54.00	-2.16	AVG		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5150.000	63.67	-0.06	63.61	74.00	-10.39	peak		
2	*	5150.000	50.89	-0.06	50.83	54.00	-3.17	AVG		

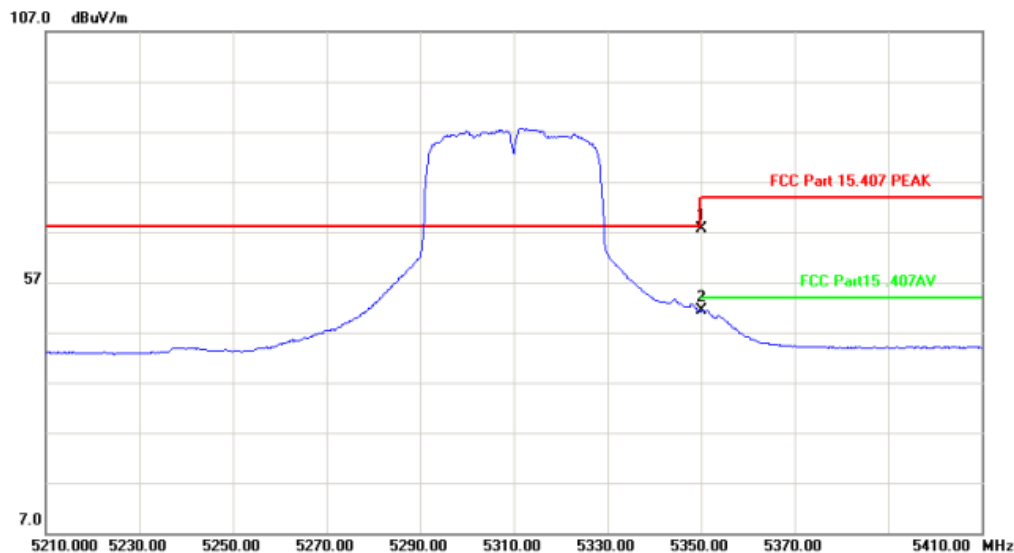
Above 1G (1GHz~40GHz)

Test mode:11N40

Test Channel:62

VERTICAL

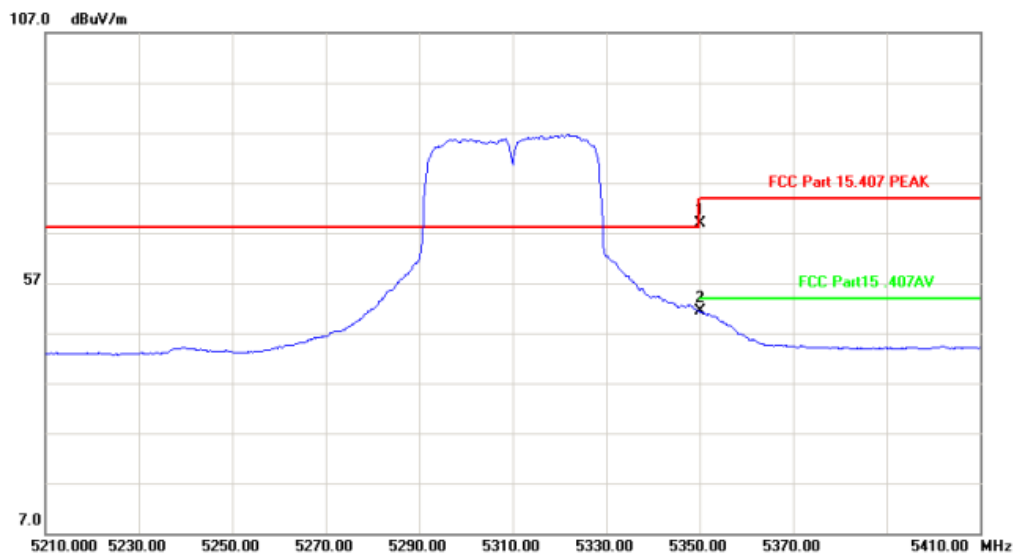
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	67.17	0.55	67.72	74.00	-6.28	peak		
2	*	5350.000	50.77	0.55	51.32	54.00	-2.68	AVG		

HORIZONTAL

Radiated Emission



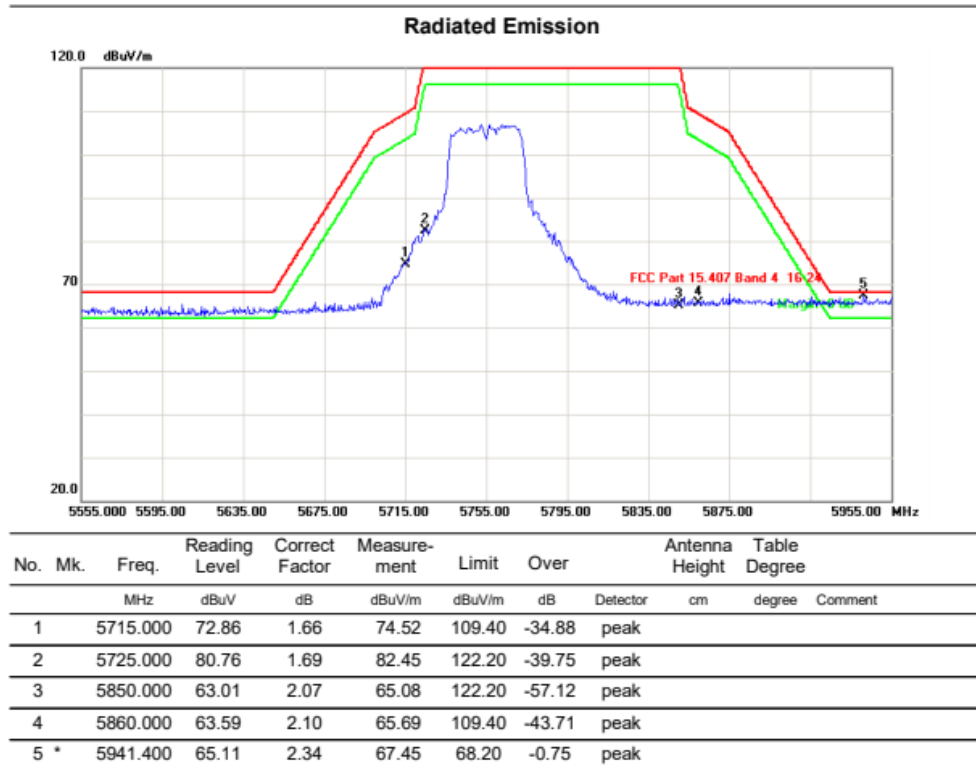
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5350.000	68.26	0.55	68.81	74.00	-5.19	peak		
2	*	5350.000	50.75	0.55	51.30	54.00	-2.70	AVG		

Above 1G (1GHz~40GHz)

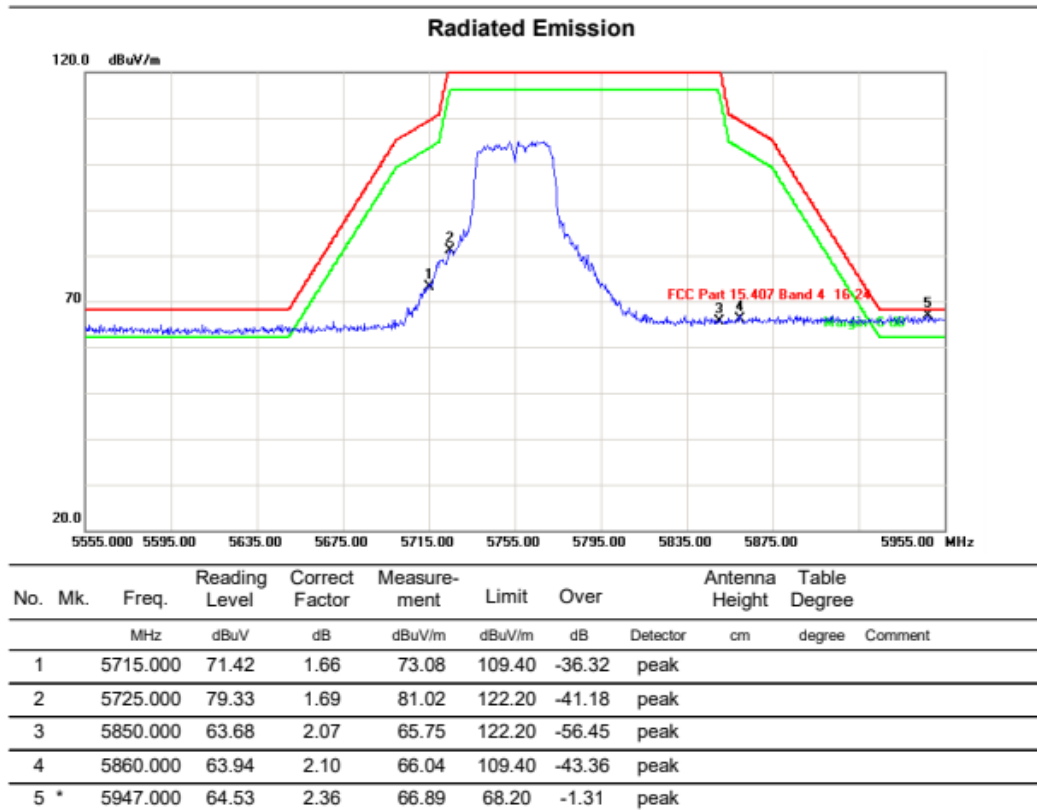
Test mode:11N40

Test Channel:151

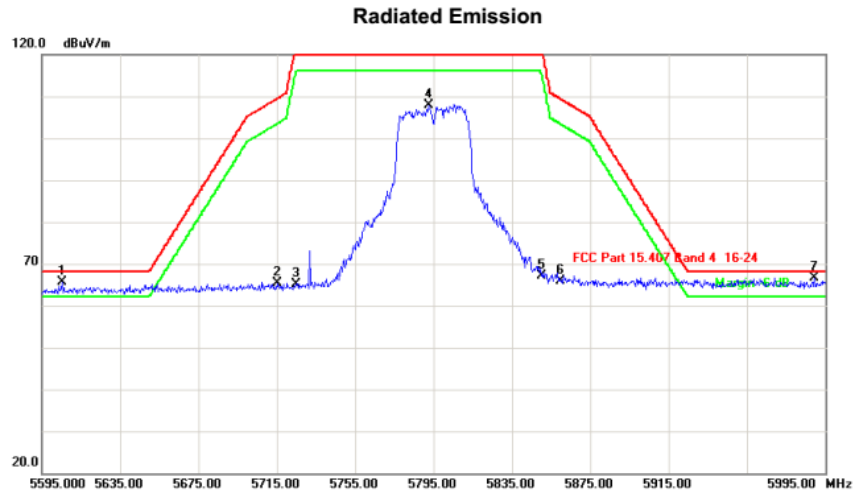
VERTICAL



HORIZONTAL

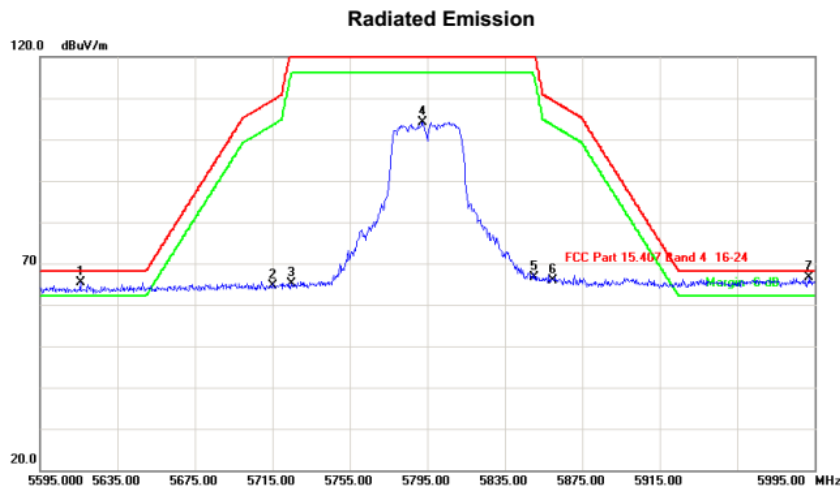


VERTICAL



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	5605.400	64.36	1.32	65.68	68.20	-2.52	peak		
2		5715.000	63.61	1.66	65.27	109.40	-44.13	peak		
3		5725.000	63.33	1.69	65.02	122.20	-57.18	peak		
4		5792.600	106.02	1.89	107.91	122.20	-14.29	peak		
5		5850.000	65.05	2.07	67.12	122.20	-55.08	peak		
6		5860.000	63.85	2.10	65.95	109.40	-43.45	peak		
7	*	5989.400	64.06	2.49	66.55	68.20	-1.65	peak		

HORIZONTAL



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	!	5615.800	63.98	1.36	65.34	68.20	-2.86	peak		
2		5715.000	62.86	1.66	64.52	109.40	-44.88	peak		
3		5725.000	63.56	1.69	65.25	122.20	-56.95	peak		
4		5792.600	102.33	1.89	104.22	122.20	-17.98	peak		
5		5850.000	64.63	2.07	66.70	122.20	-55.50	peak		
6		5860.000	63.89	2.10	65.99	109.40	-43.41	peak		
7	*	5992.200	64.01	2.50	66.51	68.20	-1.69	peak		

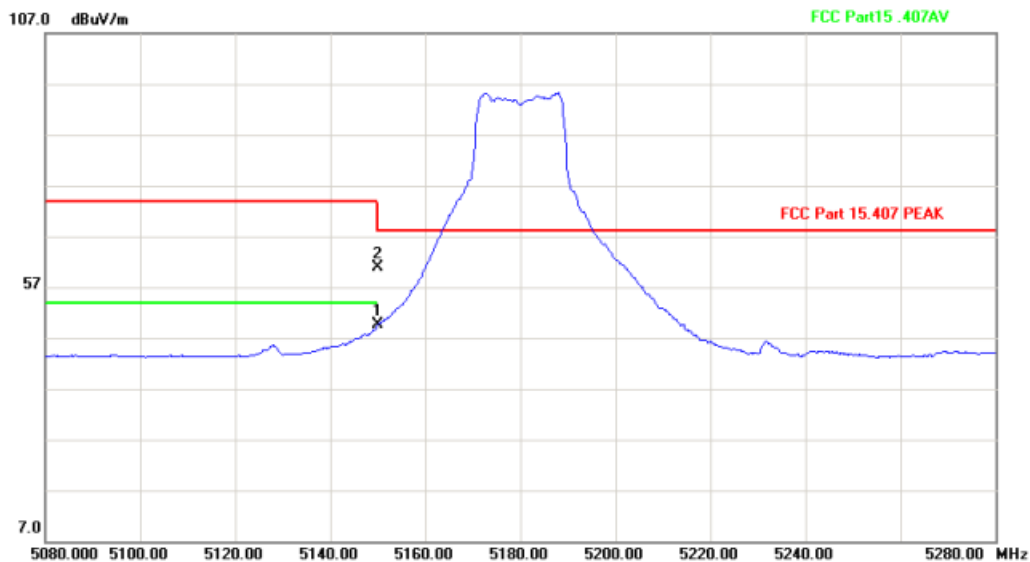
Above 1G (1GHz~40GHz)

Test mode:11AC20

Test Channel:36

VERTICAL

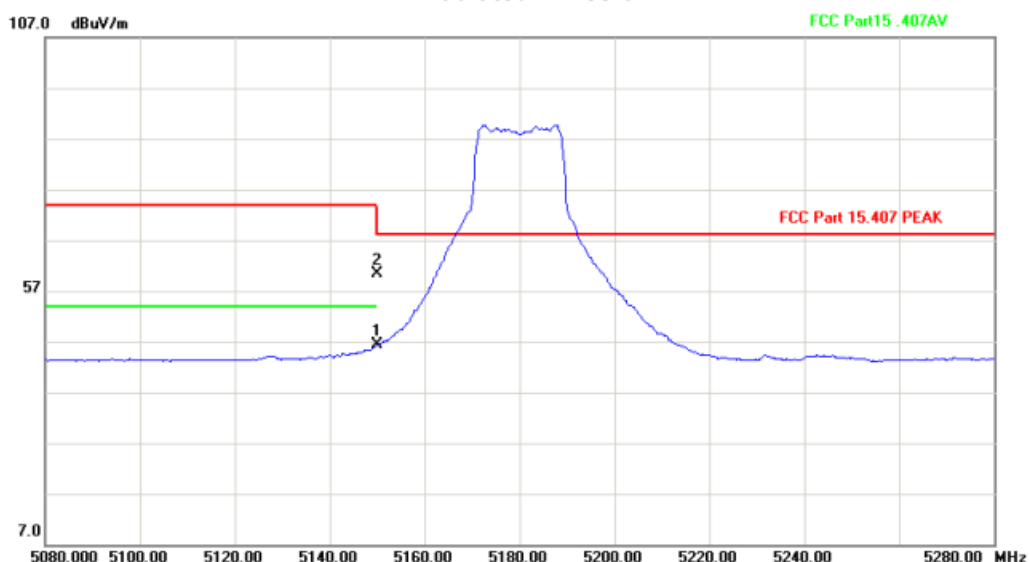
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5150.000	49.70	-0.06	49.64	54.00	-4.36	AVG		
2		5150.000	60.98	-0.06	60.92	74.00	-13.08	peak		

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5150.000	46.34	-0.06	46.28	54.00	-7.72	AVG		
2		5150.000	60.32	-0.06	60.26	74.00	-13.74	peak		

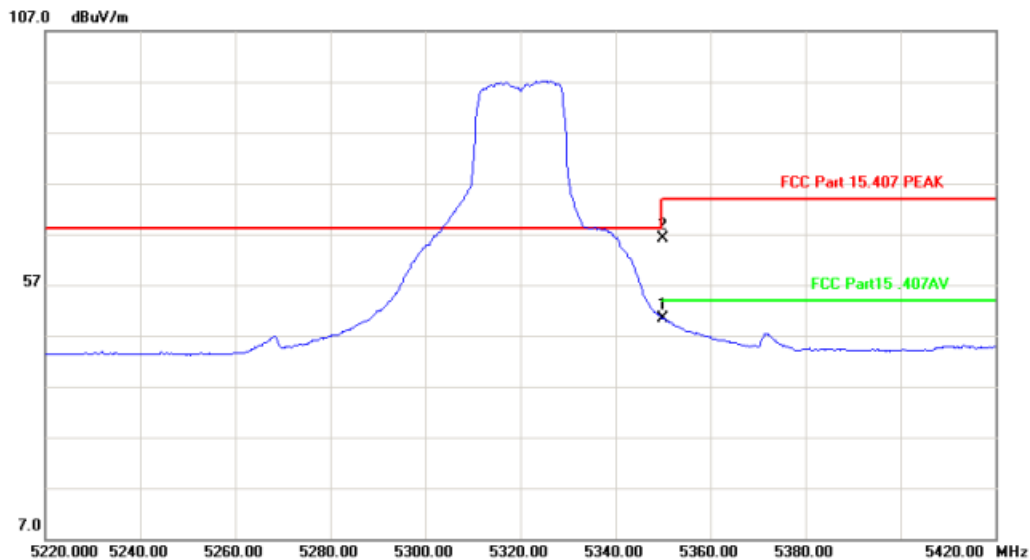
Above 1G (1GHz~40GHz)

Test mode:11AC20

Test Channel:64

VERTICAL

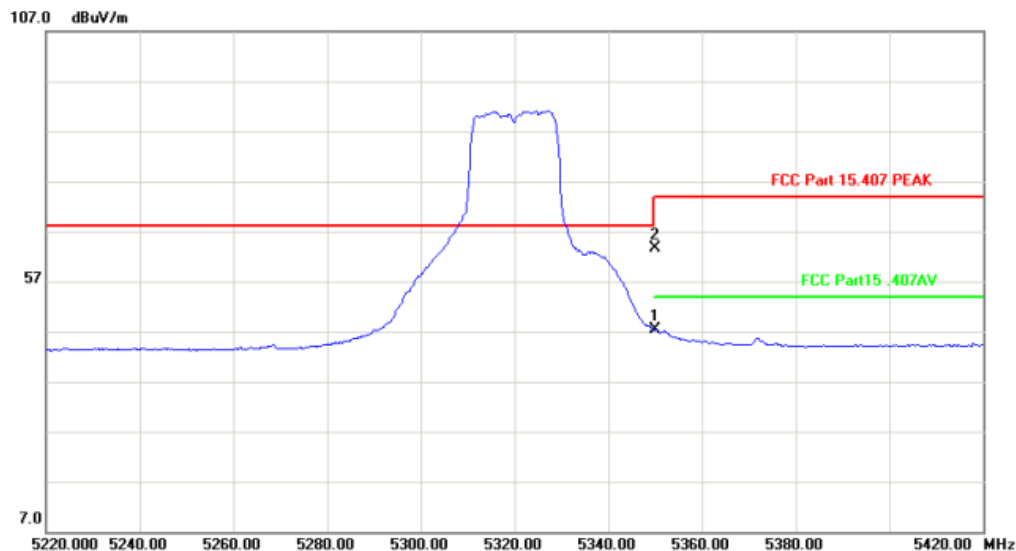
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	49.78	0.55	50.33	54.00	-3.67	AVG		
2		5350.000	65.57	0.55	66.12	74.00	-7.88	peak		

HORIZONTAL

Radiated Emission



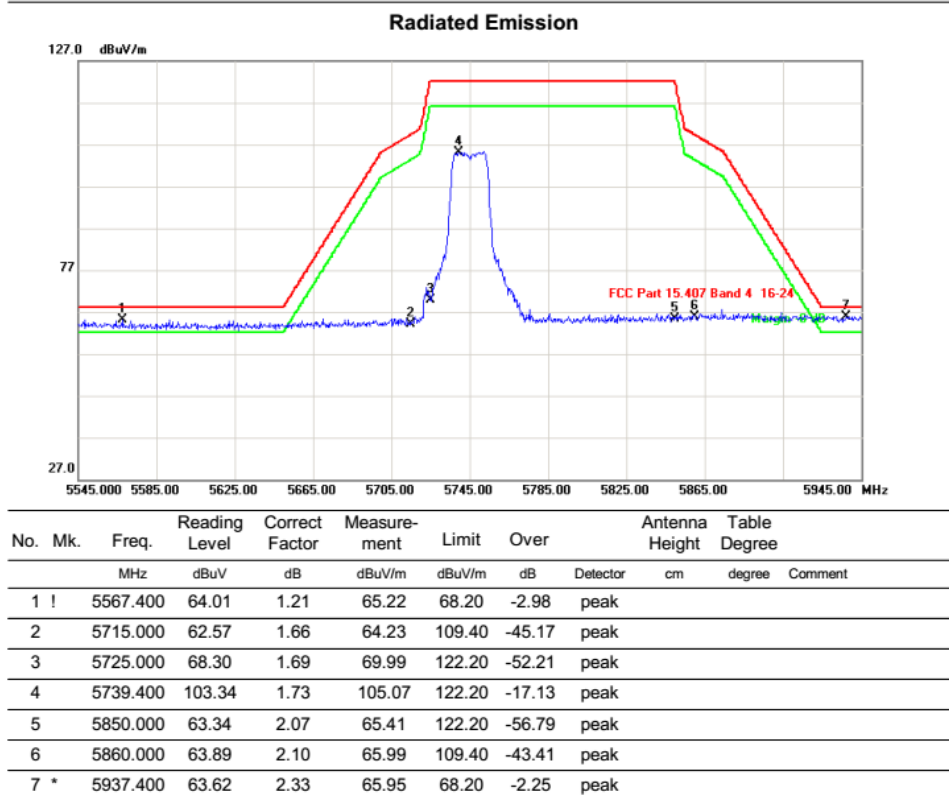
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5350.000	46.75	0.55	47.30	54.00	-6.70	AVG		
2		5350.000	63.07	0.55	63.62	74.00	-10.38	peak		

Above 1G (1GHz~40GHz)

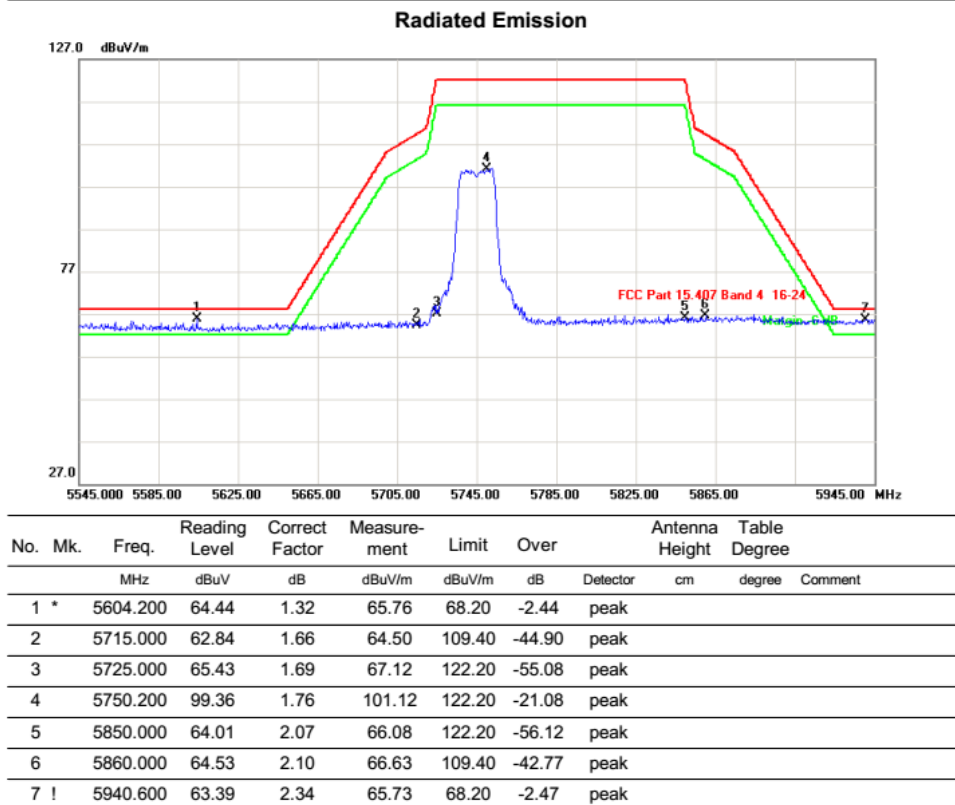
Test mode:11AC20

Test Channel:149

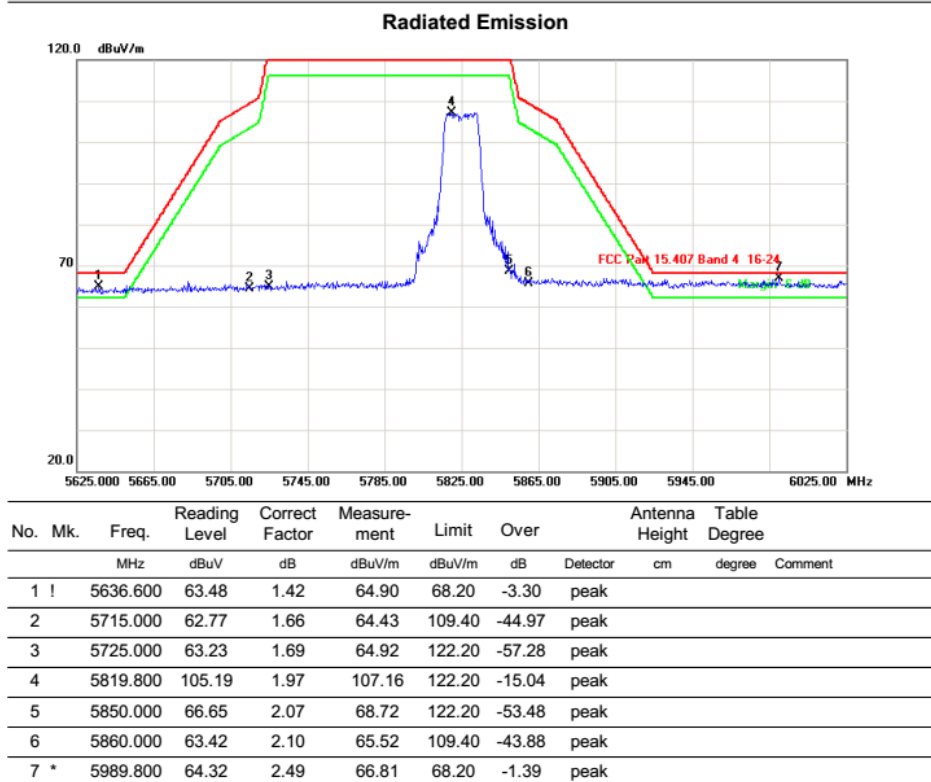
VERTICAL



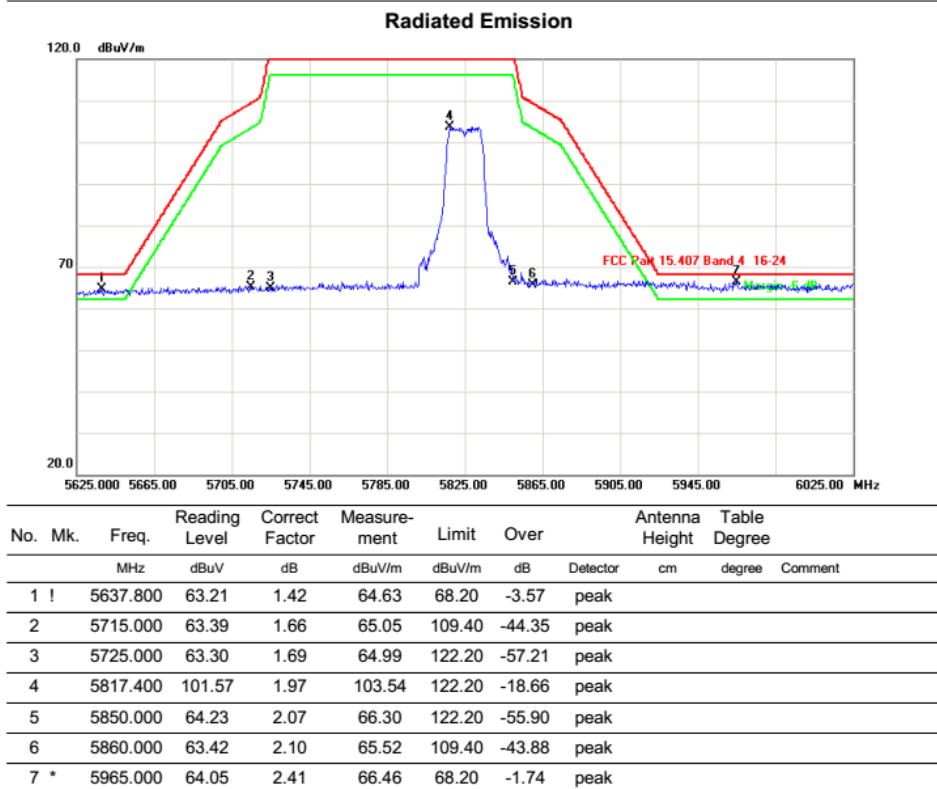
HORIZONTAL



VERTICAL



HORIZONTAL

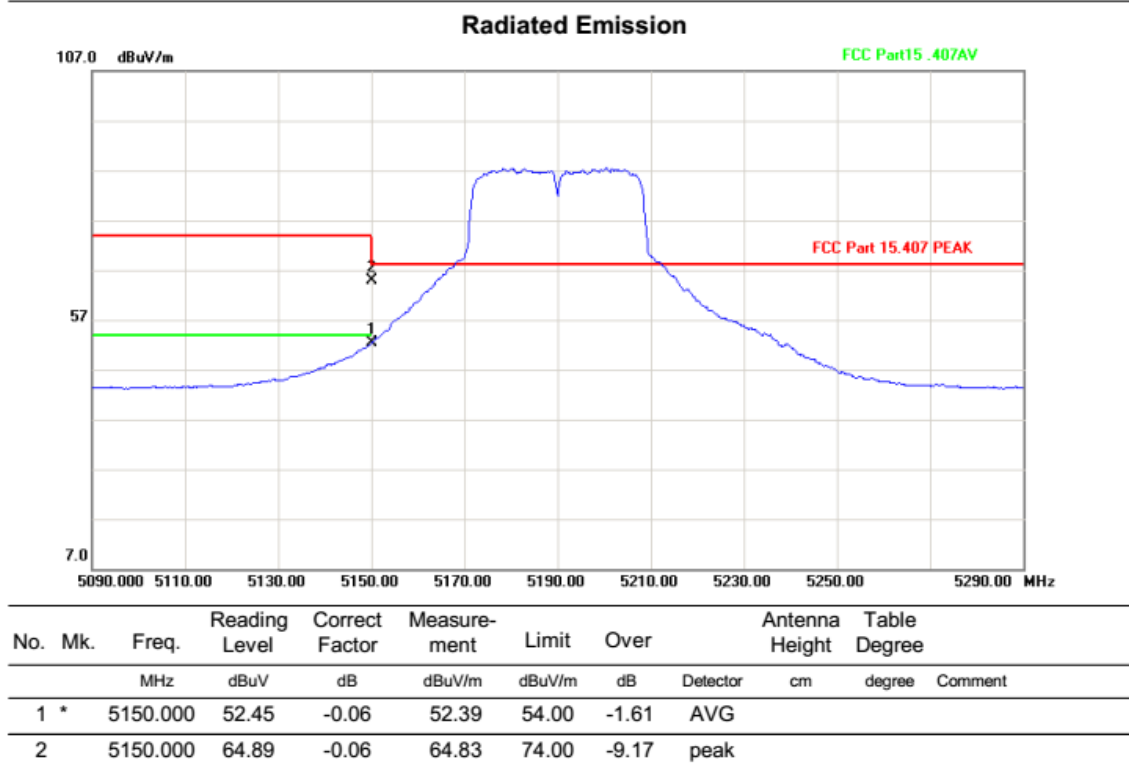


Above 1G (1GHz~40GHz)

Test mode:11AC40

Test Channel:38

VERTICAL



HORIZONTAL

