



## Test Report – FCC Part 15C Intentional Radiator Applicant: VMware LLC

Signature:

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer  
EMC-003838-NE



Name & Title:

Tim Royer, EMC Engineer

Date of Signature

9/11/2024

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

## Table of Contents

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1.	APPLICANT INFORMATION.....	3
1.1	TEST RESULT SUMMARY.....	3
2.	LOCATION OF TESTING.....	4
2.1	TEST LABORATORY.....	4
3.	TEST SAMPLE(S) (EUT/DUT).....	4
3.1	DESCRIPTION OF THE EUT.....	5
3.2	CONFIGURATION OF EUT.....	6
3.3	TEST SETUP OF EUT.....	6
4.	TEST METHODS & APPLICABLE REGULATORY LIMITS.....	7
4.1	TEST METHODS/STANDARDS/GUIDANCE.....	7
5.	MEASUREMENT UNCERTAINTY.....	7
6.	ENVIRONMENTAL CONDITIONS.....	7
7.	LIST OF TEST EQUIPMENT AND TEST FACILITY.....	8
8.	TEST RESULTS.....	9
8.1	RADIATED EMISSIONS, CO-LOCATION.....	10
8.1.1	30 MHz to 200 MHz, Co-Location, Horizontal/ Vertical Polarity Plot.....	11
8.1.2	30 MHz to 200 MHz, Co-Location, Horizontal/ Vertical Polarity Table.....	12
8.1.3	200 MHz to 1000 MHz, Co-Location, Horizontal/ Vertical Polarity Plot.....	13
8.1.4	200 MHz to 1000 MHz, Co-Location, Horizontal/ Vertical Polarity Table.....	14
8.1.5	1 GHz to 18 GHz, Co-Location, Horizontal/ Vertical Polarity Plot.....	15
8.1.6	1 GHz to 18 GHz, Co-Location, Horizontal/ Vertical Polarity Table.....	16
9.	ANNEX-B – TEST SETUP PHOTOGRAPHS.....	18
10.	HISTORY OF TEST REPORT CHANGES.....	18

## 1. Applicant Information

Applicant: VMware LLC  
Address: 3401 Hillview Avenue  
Palo Alto, CA 94304

### 1.1 Test Result Summary

The following test procedure was used ANSI C63.10. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

Cluses	Description of the Requirements	Result (Pass, Fail or N/A)
Applicable Cluses from FCC 15 C		
15.207	Conducted Emission Limits	N/A
15.209	Radiated Emission Limits- Co-Location	Pass

## 2. Location of Testing

### 2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86<sup>th</sup> Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

## 3. Test Sample(s) (EUT/DUT)

The test sample was received: 8/15/2024

Dates of Testing: 9/11/2024

### 3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	2BKLH-EDG7105G
Certified Module FCC ID:	U2M-PCE21310M
Certified Module FCC ID:	RI7FN990A28
Model(s) #	Edge 710-5G
Software version	N/A
Serial Number	N/A

Technical Characteristics	
Frequency Range	2412 – 2462 MHz
Frequency Range	5745 – 5825 MHz
Frequency Range	828 - 844 MHz 1860 – 1900 MHz
Voltage Rating (AC or Batt.)	DC

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
External	2412 – 2462 MHz	n/a	2.07 dBi
External	5745 – 5825 MHz	n/a	2.46 dBi
External	828 - 844 MHz	n/a	2.26 dBi
External	1860 – 1900 MHz	n/a	2.26 dBi

Note: Antenna being used on the host is different than previous certified module (RI7FN990A28) , but that new antenna is within allowed antenna gain

Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.

### 3.2 Configuration of EUT

Band (MHz)	Mode	Number of Ant.
2412 – 2462 MHz	Transmit	1
5745 – 5825 MHz	Transmit	1
828 - 844 MHz 1860 – 1900 MHz	Transmit	1

#### Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

#### Peripherals used during Testing:

No peripherals used.

### 3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

#### 4. Test methods & Applicable Regulatory Limits

##### 4.1 Test methods/Standards/Guidance

The measurement was performed as per ANSI 63.10. Full test results are available in this report.

##### Limits and Regulatory Limits:

- 1) FCC 15.209 (1997)

#### 5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB
<b>Note:</b> The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

#### 6. Environmental Conditions

##### Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg
<b>Note:</b> Specific environmental conditions that are applicable to a specific test are available in the test result section.	

## 7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer’s model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

### List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna	Biconical 1057	Eaton	94455-1	1057	11/19/21	11/18/2024
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	5/4/21	11/18/2024
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	5/31/23	11/18/2024
CHAMBER	CHAMBER	Panashield	3M	N/A	12/29/23	12/18/2025
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	7/27/22	7/26/2025
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	10/13/21	10/12/2024



## 8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

### Units of measurement

Unless noted otherwise in the referenced standard, the measurements of ac power-line conducted emissions and conducted power output will be reported in units of dB $\mu$ V. Unless noted otherwise in the referenced standard, the measurements of radiated emissions will be reported in units of decibels, referenced to one microvolt per meter (dB $\mu$ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB $\mu$ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

#### Example:

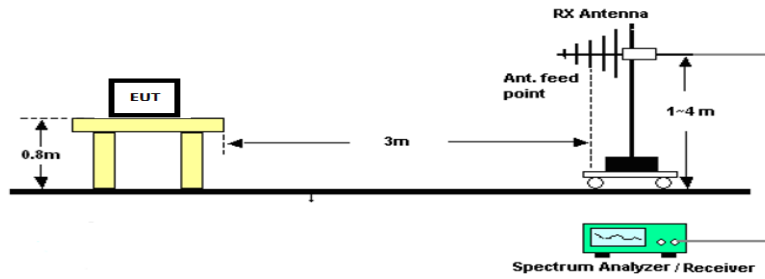
Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dB $\mu$ V	+ 10.36 dB/m	+0.40 dB	=30.36 dB $\mu$ V/m @ 3m

$$\text{EIRP} = \text{Pcond (dBm)} + \text{dBi}$$

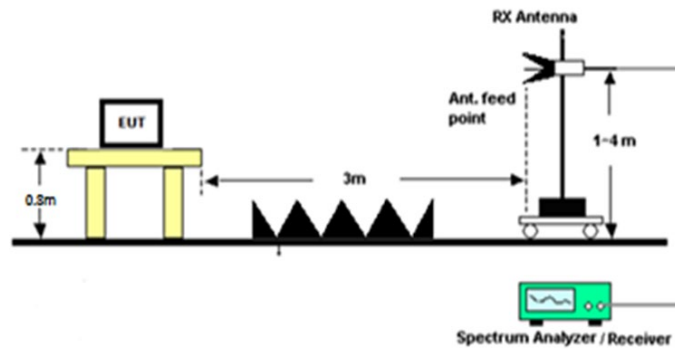
## 8.1 Radiated Emissions, Co-Location

Limits from FCC 15.209 and test procedure from ANSI C63.10

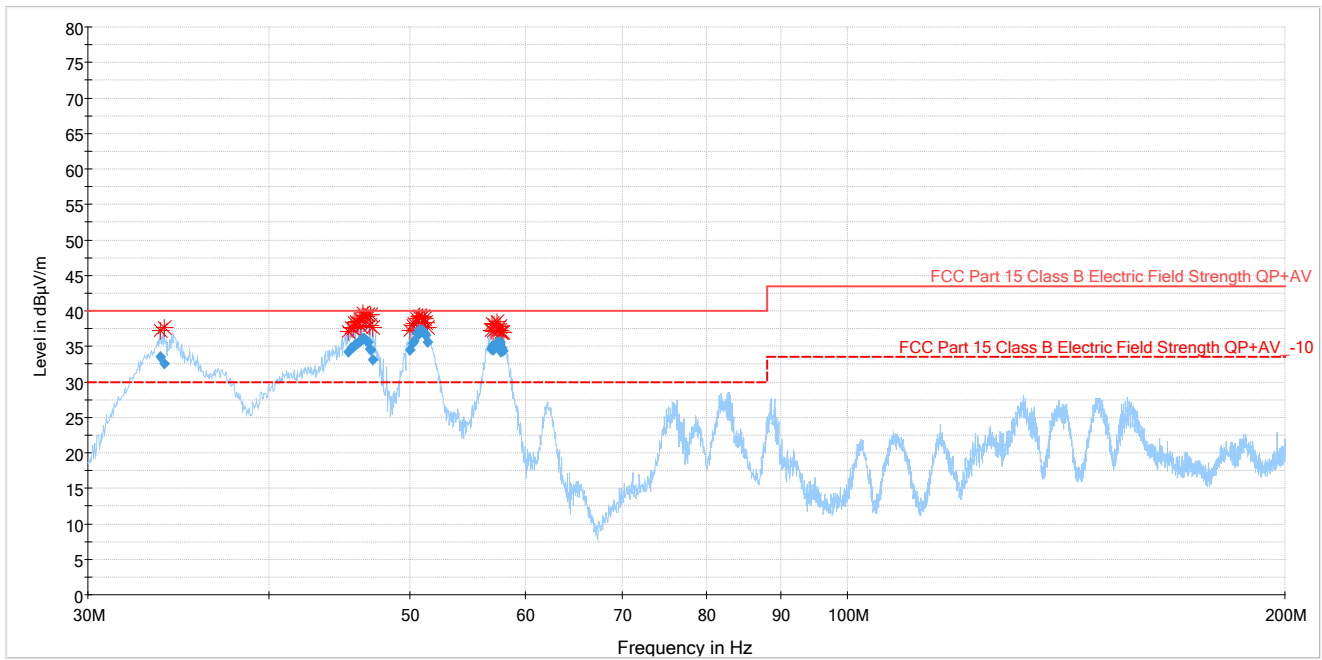
### Radiated Test Setup, 30 – 1000 MHz



### Radiated Test Setup, Above 1000 MHz



### 8.1.1 30 MHz to 200 MHz, Co-Location, Horizontal/ Vertical Polarity Plot

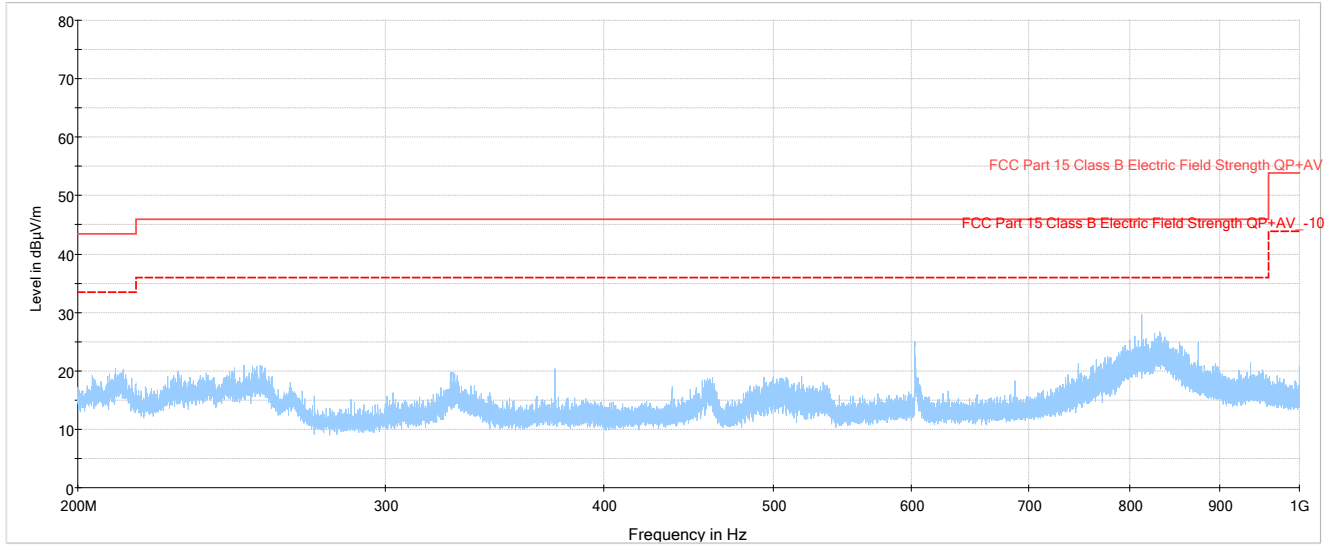


8.1.2 30 MHz to 200 MHz, Co-Location, Horizontal/ Vertical Polarity Table

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
33.640000	33.45	---	40.00	6.55	0.5	120.000	100.0	V	1.0	13.4	
33.840000	32.56	---	40.00	7.44	0.5	120.000	100.0	V	271.0	13.4	
45.320000	34.27	---	40.00	5.73	0.5	120.000	100.0	V	1.0	12.3	
45.560000	34.77	---	40.00	5.23	0.5	120.000	100.0	V	1.0	12.2	
45.680000	34.89	---	40.00	5.11	0.5	120.000	100.0	V	1.0	12.2	
45.760000	35.04	---	40.00	4.96	0.5	120.000	100.0	V	1.0	12.2	
45.920000	35.28	---	40.00	4.72	0.5	120.000	100.0	V	1.0	12.1	
46.000000	35.44	---	40.00	4.56	0.5	120.000	100.0	V	1.0	12.1	
46.160000	35.73	---	40.00	4.27	0.5	120.000	100.0	V	1.0	12.1	
46.240000	35.89	---	40.00	4.11	0.5	120.000	100.0	V	1.0	12.1	
46.360000	36.02	---	40.00	3.98	0.5	120.000	100.0	V	1.0	12.0	
46.480000	36.11	---	40.00	3.89	0.5	120.000	100.0	V	1.0	12.0	
46.600000	35.92	---	40.00	4.08	0.5	120.000	100.0	V	1.0	12.0	
46.720000	35.61	---	40.00	4.39	0.5	120.000	100.0	V	1.0	12.0	
46.880000	34.62	---	40.00	5.38	0.5	120.000	100.0	V	90.0	11.9	
46.960000	34.46	---	40.00	5.54	0.5	120.000	100.0	V	1.0	11.9	
47.120000	33.09	---	40.00	6.91	0.5	120.000	100.0	V	90.0	11.9	
50.000000	34.53	---	40.00	5.47	0.5	120.000	100.0	V	90.0	11.0	
50.240000	35.51	---	40.00	4.49	0.5	120.000	100.0	V	90.0	10.9	
50.320000	35.77	---	40.00	4.23	0.5	120.000	100.0	V	271.0	10.9	
50.560000	36.88	---	40.00	3.12	0.5	120.000	100.0	V	271.0	10.8	
50.640000	36.72	---	40.00	3.28	0.5	120.000	100.0	V	1.0	10.8	
50.760000	37.35	---	40.00	2.65	0.5	120.000	100.0	V	271.0	10.8	
50.880000	37.12	---	40.00	2.88	0.5	120.000	100.0	V	1.0	10.7	
51.000000	37.22	---	40.00	2.78	0.5	120.000	100.0	V	271.0	10.7	
51.120000	36.78	---	40.00	3.22	0.5	120.000	100.0	V	1.0	10.7	
51.200000	36.51	---	40.00	3.49	0.5	120.000	100.0	V	1.0	10.6	
51.360000	35.62	---	40.00	4.38	0.5	120.000	100.0	V	271.0	10.6	
56.840000	34.62	---	40.00	5.38	0.5	120.000	100.0	V	1.0	8.6	
56.960000	35.03	---	40.00	4.97	0.5	120.000	100.0	V	1.0	8.5	
57.040000	34.51	---	40.00	5.49	0.5	120.000	100.0	V	90.0	8.5	
57.120000	35.08	---	40.00	4.92	0.5	120.000	100.0	V	271.0	8.5	
57.360000	35.64	---	40.00	4.36	0.5	120.000	100.0	V	1.0	8.4	
57.480000	35.64	---	40.00	4.36	0.5	120.000	100.0	V	1.0	8.3	
57.600000	35.52	---	40.00	4.48	0.5	120.000	100.0	V	1.0	8.3	
57.680000	35.37	---	40.00	4.63	0.5	120.000	100.0	V	1.0	8.2	
57.760000	34.21	---	40.00	5.79	0.5	120.000	100.0	V	90.0	8.2	
57.840000	34.74	---	40.00	5.26	0.5	120.000	100.0	V	1.0	8.2	
57.920000	34.32	---	40.00	5.68	0.5	120.000	100.0	V	1.0	8.1	

### 8.1.3 200 MHz to 1000 MHz, Co-Location, Horizontal/ Vertical Polarity Plot

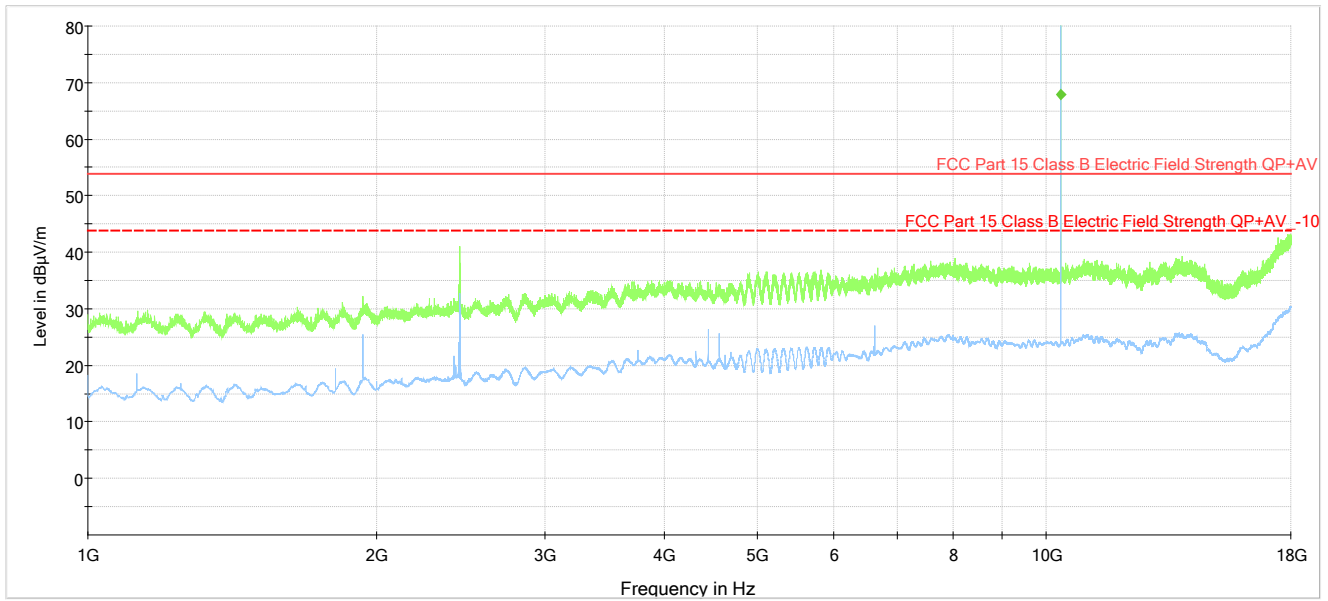


### 8.1.4 200 MHz to 1000 MHz, Co-Location, Horizontal/ Vertical Polarity Table

#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
---	---	---	---	---	---	---	---	---	---	---	

### 8.1.5 1 GHz to 18 GHz, Co-Location, Horizontal/ Vertical Polarity Plot



### 8.1.6 1 GHz to 18 GHz, Co-Location, Horizontal/ Vertical Polarity Table

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBµV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412.00	4824.00	X	PK	5.30	H	7.15	0.00	34.18	3.00	46.63	73.98	27.35
2412.00	4824.00	X	PK	6.40	V	7.15	0.00	34.18	3.00	47.73	73.98	26.25
2412.00	4824.00	X	AVG	-9.50	H	7.15	0.00	34.18	3.00	31.83	53.98	22.15
2412.00	4824.00	X	AVG	-9.80	V	7.15	0.00	34.18	3.00	31.53	53.98	22.45
2412.00	7236.00		AVG	-3.30	H	9.52	0.00	36.41	3.00	42.63	53.98	11.35
2412.00	7236.00		AVG	-3.30	V	9.52	0.00	36.41	3.00	42.63	53.98	11.35
2412.00	9648.00		PK	5.30	H	10.77	0.00	36.88	3.00	52.95	53.98	1.03
2412.00	9648.00		PK	5.10	V	10.77	0.00	36.88	3.00	52.75	53.98	1.23
2412.00	12060.00	X	PK	5.20	H	12.10	0.00	38.85	3.00	56.14	73.98	17.84
2412.00	12060.00	X	PK	4.10	V	12.10	0.00	38.85	3.00	55.04	73.98	18.94
2412.00	12060.00	X	AVG	-7.70	H	12.10	0.00	38.85	3.00	43.24	53.98	10.74
2412.00	12060.00	X	AVG	-7.60	V	12.10	0.00	38.85	3.00	43.34	53.98	10.64
2412.00	14472.00	X	PK	5.30	H	13.50	0.00	39.75	3.00	58.55	73.98	15.43
2412.00	14472.00	X	PK	4.70	V	13.50	0.00	39.75	3.00	57.95	73.98	16.03
2412.00	14472.00	X	AVG	-7.00	H	13.50	0.00	39.75	3.00	46.25	53.98	7.73
2412.00	14472.00	X	AVG	-7.00	V	13.50	0.00	39.75	3.00	46.25	53.98	7.73
2412.00	16884.00		AVG	-8.00	H	14.68	0.00	42.24	3.00	48.92	53.98	5.06
2412.00	16884.00		AVG	-8.00	V	14.68	0.00	42.24	3.00	48.92	53.98	5.06
2412.00	19296.00	X	PK	4.30	H	15.97	0.00	15.97	3.00	36.23	73.98	37.75
2412.00	19296.00	X	PK	5.20	V	15.97	0.00	15.97	3.00	37.13	73.98	36.85
2412.00	19296.00	X	AVG	-7.40	H	15.97	0.00	15.97	3.00	24.53	53.98	29.45
2412.00	19296.00	X	AVG	-7.40	V	15.97	0.00	15.97	3.00	24.53	53.98	29.45
2412.00	21708.00		PK	5.50	H	16.72	0.00	16.72	3.00	38.93	53.98	15.05
2412.00	21708.00		PK	5.20	V	16.72	0.00	16.72	3.00	38.63	53.98	15.35
2412.00	24120.00		PK	5.60	H	17.90	0.00	17.90	3.00	41.40	53.98	12.58
2412.00	24120.00		PK	5.80	V	17.90	0.00	17.90	3.00	41.60	53.98	12.38

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBµV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180.00	10360.00		AVG	-8.30	H	11.25	0.00	37.51	3.00	40.46	53.98	13.52
5180.00	10360.00		AVG	-8.40	V	11.25	0.00	37.51	3.00	40.36	53.98	13.62
5180.00	15540.00	X	PK	8.00	H	14.16	0.00	41.79	3.00	63.96	73.98	10.02
5180.00	15540.00	X	PK	4.20	V	14.16	0.00	41.79	3.00	60.16	73.98	13.82
5180.00	15540.00	X	AVG	-7.40	H	14.16	0.00	41.79	3.00	48.56	53.98	5.42
5180.00	15540.00	X	AVG	-7.70	V	14.16	0.00	41.79	3.00	48.26	53.98	5.72
5180.00	20720.00	X	PK	5.60	H	16.31	0.00	16.31	3.00	38.22	73.98	35.76
5180.00	20720.00	X	PK	4.50	V	16.31	0.00	16.31	3.00	37.12	73.98	36.86
5180.00	20720.00	X	AVG	-7.20	H	16.31	0.00	16.31	3.00	25.42	53.98	28.56
5180.00	20720.00	X	AVG	-7.40	V	16.31	0.00	16.31	3.00	25.22	53.98	28.76
5180.00	25900.00		PK	5.10	H	18.25	0.00	18.25	3.00	41.59	53.98	12.39
5180.00	25900.00		PK	5.50	V	18.25	0.00	18.25	3.00	41.99	53.98	11.99
5180.00	31080.00		PK	6.20	H	20.18	0.00	20.18	3.00	46.56	53.98	7.42
5180.00	31080.00		PK	6.20	V	20.18	0.00	20.18	3.00	46.56	53.98	7.42
5180.00	36260.00		PK	7.30	H	22.46	0.00	22.46	3.00	52.22	53.98	1.76
5180.00	36260.00		PK	6.80	V	22.46	0.00	22.46	3.00	51.72	53.98	2.26



Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	Field Strength Limit (dBuV/m)	Margin (dB)
830.00	1660.00	PK	17.80	H	-4.73	28.75	3.00	23.82	40.00	16.18
830.00	1660.00	PK	14.00	V	-4.73	28.75	3.00	20.02	40.00	19.98
830.00	2490.00	PK	14.30	H	-5.96	32.42	3.00	22.76	40.00	17.24
830.00	2490.00	PK	14.50	V	-5.96	32.42	3.00	22.96	40.00	17.04
830.00	3320.00	PK	13.40	H	-6.86	32.75	3.00	21.29	40.00	18.71
830.00	3320.00	PK	13.90	V	-6.86	32.75	3.00	21.79	40.00	18.21
830.00	4150.00	PK	14.40	H	-7.70	33.49	3.00	22.20	40.00	17.80
830.00	4150.00	PK	14.20	V	-7.70	33.49	3.00	22.00	40.00	18.00
830.00	4980.00	PK	18.20	H	-8.42	34.01	3.00	25.79	40.00	14.21
830.00	4980.00	PK	17.40	V	-8.42	34.01	3.00	24.99	40.00	15.01
830.00	5810.00	PK	19.20	H	-9.13	34.93	3.00	27.00	40.00	13.00
830.00	5810.00	PK	18.80	V	-9.13	34.93	3.00	26.60	40.00	13.40
830.00	6640.00	PK	19.30	H	-9.81	35.75	3.00	27.24	40.00	12.76
830.00	6640.00	PK	20.90	V	-9.81	35.75	3.00	28.84	40.00	11.16
830.00	7470.00	PK	20.10	H	-10.33	36.18	3.00	27.95	40.00	12.05
830.00	7470.00	PK	20.00	V	-10.33	36.18	3.00	27.85	40.00	12.15
830.00	8300.00	PK	20.50	H	-10.93	36.07	3.00	27.64	40.00	12.36
830.00	8300.00	PK	14.80	V	-10.93	36.07	3.00	21.94	40.00	18.06

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	Spurious Limit (dBm)	Margin (dB)
1870.00	3740.00	PK	15.42	H	-7.27	33.15	3.00	41.31	47.00	5.69
1870.00	3740.00	PK	11.62	V	-7.27	33.15	3.00	37.51	47.00	9.49
1870.00	5610.00	PK	11.92	H	-9.01	34.90	3.00	37.81	47.00	9.19
1870.00	5610.00	PK	12.12	V	-9.01	34.90	3.00	38.01	47.00	8.99
1870.00	7480.00	PK	11.02	H	-10.34	36.17	3.00	36.85	47.00	10.15
1870.00	7480.00	PK	11.52	V	-10.34	36.17	3.00	37.35	47.00	9.65
1870.00	9350.00	PK	12.02	H	-11.51	36.37	3.00	36.88	47.00	10.12
1870.00	9350.00	PK	11.82	V	-11.51	36.37	3.00	36.68	47.00	10.32
1870.00	11220.00	PK	15.82	H	-12.71	38.01	3.00	41.12	47.00	5.88
1870.00	11220.00	PK	15.02	V	-12.71	38.01	3.00	40.32	47.00	6.68
1870.00	13090.00	PK	16.82	H	-13.92	39.67	3.00	42.57	47.00	4.43
1870.00	13090.00	PK	16.42	V	-13.92	39.67	3.00	42.17	47.00	4.83
1870.00	14960.00	PK	16.92	H	-14.73	40.19	3.00	42.37	47.00	4.63
1870.00	14960.00	PK	18.52	V	-14.73	40.19	3.00	43.97	47.00	3.03
1870.00	16830.00	PK	17.72	H	-15.89	42.29	3.00	44.11	47.00	2.89
1870.00	16830.00	PK	17.62	V	-15.89	42.29	3.00	44.01	47.00	2.99
1870.00	18700.00	PK	18.12	H	-16.53	15.46	3.00	17.05	47.00	29.95
1870.00	18700.00	PK	12.42	V	-16.53	15.46	3.00	11.35	47.00	35.65

## 9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate document.

## 10. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_15541-24_FCC 15C Co-Location_	1	Initial release	9/11/2024
	2	Updated Page 5	10/8/2024
	3	Updated Page 5	10/28/2024



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END OF TEST REPORT

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