



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



TEST REPORT

Applicant	Yardi Systems Inc.
Address	430 South Fairview Ave Goleta, CA 93117

FCC ID	2BAL9YDIZW
ISED Canada IC	30221-YDIZW
Product Description	IoT Hub
PMN Model/HVIN FVIN	RentCafe Home IQ Hub H4P3-TWC, H4P3-TW 7.19.3
Additional Models	See Section 3.1 for details
Date of tests	Feb 26 – Mar 26, 2024
FCC Test Firm DN Canada CABID	US1028 US0106

The tests have been carried out according to the requirements of the following standard:

- ☒ FCC Part 15, Subpart C, Section 15.249
- ☒ ISED Canada RSS-210 Issue 10 Annex B.10

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Yunus Faziloglu Sr. Wireless Engineer	Approved by Ahmed Ait Ahmed EMC Manager
	
Report Issue Date: Sep 20, 2024	Issue Number: 3

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
1	Original release	Apr 25, 2024
2	- Corrected cover page for product description, PMN and HVIN - Clarified lowest frequency used/generated in the device in Section 3.1 - Clarified the operating state of previously certified modules in the device in Section 3.2	Jul 3, 2024
3	To address TCB review comments: - PMN was corrected on cover page	Sep 20, 2024



1 SUMMARY OF TEST RESULTS

EUT was tested against the following requirements:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249), RSS-210				
STANDARD SECTION		TEST TYPE AND LIMIT	APPLICABLE	RESULT
47CFR15	RSS			
15.207	Gen 8.8	AC Power Line Conducted Emissions	Y	Pass
15.249 15.209	210 B.10 Gen 8.9	Transmitter Fundamental and Radiated Spurious Emissions	Y	Pass
15.215(c)	--	20dB Bandwidth	Y	Pass
--	Gen 6.7	99% Occupied Bandwidth	Y	Pass
15.203	Gen 6.8	Antenna Requirement	Y	Pass

2 MEASUREMENT UNCERTAINTY

The listed uncertainties are the worst-case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results. Values for measurement uncertainty are calculated per ETSI TR 100 028 (2001).

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radio frequency (@ 2.4GHz)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT Configuration									
		Model Name			Part Number				
EUT:	IoT H4P3-TWC Hub (LTE Version)	H4P3-TWC			None				
	IoT H4P3-TW Hub (Non-LTE Version)	H4P3-TW			None				
	CUI INC AC/DC Adapter	SWI25-12-N			SWI25-12-N-P5				
	CUI INC AC/DC Adapter	SWI18-12-N			SWI18-12-N-P5				
EUT Description:		HomeIQ Hub							
Support Equipment:		MN			SN				
DELL Laptop		LATITUDE E6400			X463M A00				
DELL AC Adapter		PA-1900-02D2			U7809				
LINKSYS WirelessRouter		WRV200			MMH006806414				
LINKSYS Power Adapter		AD 12/1A			RH48-1201000DU				
EUT Ports:									
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	
Power	DC Power	1	1	2-wires	No	No	2m	2m	
Ethernet	RJ45	1	1	Cat 6	No	No	5m	100m	

Lowest frequency used/generated in the device: 32.768kHz

NOMINAL VOLTAGE	12VDC via external power supply
MODULATION TYPES	FSK, GFSK
DATA RATES	9.6kbps (FSK), 40kbps (FSK), 100kbps (GFSK)
OPERATING FREQUENCY	908.4MHz (FSK), 916MHz (GFSK)
EUT Power Setting	0 (max setting)
FIELD STRENGTH	92.8dBuV/m at 3m (LTE version) 92.8dBuV/m at 3m (non-LTE version)
ANTENNA TYPE	Surface-mount patch antenna with 0.3dBi peak gain



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List of Models and Differences

Model	Description	Tested
H4P3-TW	Includes the following previously certified two radio modules FCC ID: 2ABCB-RPICM4, IC: 20953-RPICM4 FCC ID: 2BAL9YDITRZB, IC: 30221-YDITRZB	Y
H4P3-TWC	Same as H4P3-TW with a previously certified cellular modem and two extra antennas. FCC ID: XMR201807EG95NA, IC: 10224A-2018EG95NA Includes supporting components for the cellular modem on the base module PCBA	Y

NOTES:

1. For a more detailed description of the EUT, please refer to the manufacturer's specifications or the user's manual.
2. For photos of the EUT, please refer to External and Internal Photos exhibits.

3.2 DESCRIPTION OF TEST MODES

EUT channel list:

CHANNEL	FREQ. (MHZ)
1	908.4
2	916

1 sample of both the LTE and non-LTE versions of the EUT were provided for testing. External control software was supplied by the customer to put the units into required test modes.

Previously certified radio modules referenced in “List of Models and Differences” section of this report, were installed in the device in idle condition during all the testing.

EUT configuration modes:

TEST MODE	DESCRIPTION
A	Continuous Transmit at 908.4MHz, FSK, 9.6kbps (100% Duty-cycle)
B	Continuous Transmit at 908.4MHz, FSK, 40kbps (100% Duty-cycle)
C	Continuous Transmit at 916MHz, GFSK, 100kbps (100% Duty-cycle)

EUT SETUP BLOCK DIAGRAMS



Following channels/modes were selected for the applicable tests below.

TEST	TEST MODE	Notes
FFS	A, B, C	2, 5
20DB	A, B, C	1, 2, 5
OBW	A, B, C	1, 2, 5
RSE<30MHz	A	1, 2, 3, 5
RSE for 30MHz to 1GHz	A, B, C	1, 2, 5
RSE≥1GHz	A, B, C	1, 2, 5
PLCE	A	1, 4

Note 1: Non-LTE version was identified as the worst case model based on radiated emission pre-scans. All final testing was performed on the non-LTE version of the product.

Note 2: For radiated emissions, worst-case orientation was found when the EUT was positioned on X axis as shown in the Test Setup Photos exhibit.

Note 3: Testing below 30MHz was limited to 1 channel only since no emissions were detected in this range.

Note 4: Testing was limited to 1 channel and data rate only since emission profile remained similar between different transmit modes of the EUT.

Note 5: Power supply SWI25-12-N was identified as the worst-case power supply based on pre-scans, therefore this power supply was used for all radiated tests.

FFS: Fundamental Field Strength

20DB: 20dB Bandwidth

OBW: 99% Occupied Bandwidth

RSE: Radiated Spurious Emissions

PLCE: Power Line Conducted Emissions

Environmental conditions are listed on the corresponding data tables.



3.3 MEASUREMENT PROCEDURES USED

All tests were performed in accordance with the following measurement procedures:

ANSI C63.10-2013

RSS-Gen Issue 5

3.4 DESCRIPTION OF SUPPORT EQUIPMENT

As listed in Section 3.1 of this report.

4 TEST RESULTS

4.1 AC LINE CONDUCTED EMISSIONS

4.1.1 LIMITS

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. Lower limit applies at the transition frequencies.
2. Limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST EQUIPMENT USED

Rev. 4/17/2024								
Conducted Test Sites (Mains / Telco)	FCC Code		VCCI Code			Cat	Calibration Due	Calibrated on
CEMI 1	719150		A-0015			III	NA	N/A
Meteorological Meters/Chambers		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	12/15/2025	12/15/2022
Asset #2657		1235C97	Control Company	200435369	2657	I	8/18/2025	8/18/2022
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
CEMI-02	9kHz - 2GHz		C-S			II	1/26/2025	1/26/2024
Attenuators	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
20dB ATT(A#2506)	9kHz-2GHz	PE7014-20	Pasternack	2016	2506	II	10/18/2024	10/18/2023
LISNs/Measurement Probes	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
LISN Asset 1726	150kHz-30MHz	LI-150A	Com-Power	201092	1726	I	1/17/2025	1/17/2024
LISN Asset 1727	150kHz-30MHz	LI-150A	Com-Power	201093	1727	I	1/17/2025	1/17/2024
Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gauss TDEMI Ultra 40	9kHz-40Ghz	TDEMI Ultra 40	Gauss	2305001	2558	1	7/9/2024	7/9/2023
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.								



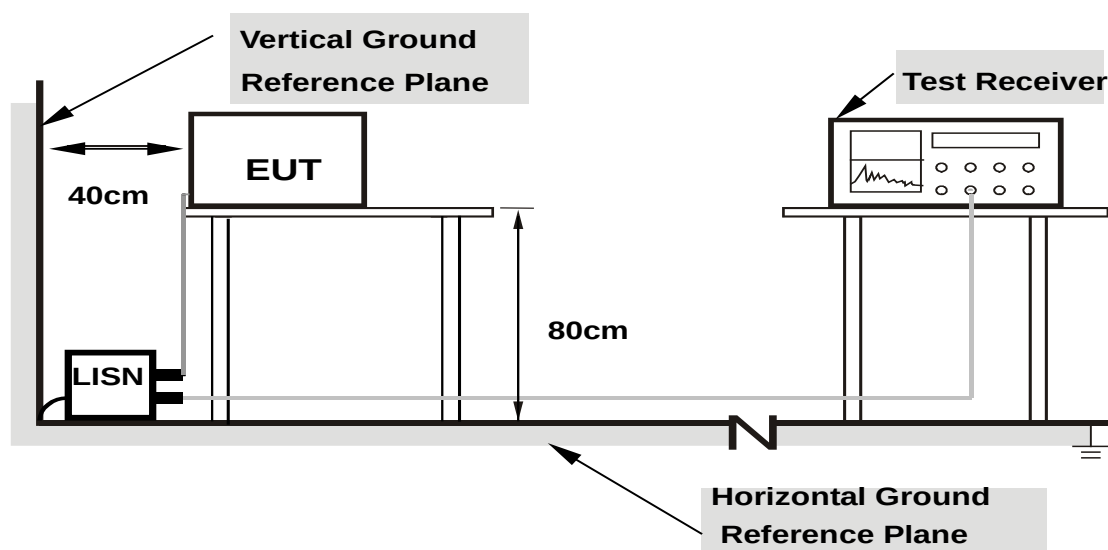
4.1.3 TEST PROCEDURES

- a. 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.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded. RBW of 9kHz and VBW of 30kHz were used during measurement.

4.1.4 DEVIATIONS

No deviations from the standard.

4.1.5 TEST SETUP



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

For the actual test configuration, please refer to Test Setup Photos exhibit.

4.1.6 EUT OPERATING CONDITIONS

- a. EUT was operated according to manufacturer's specifications.



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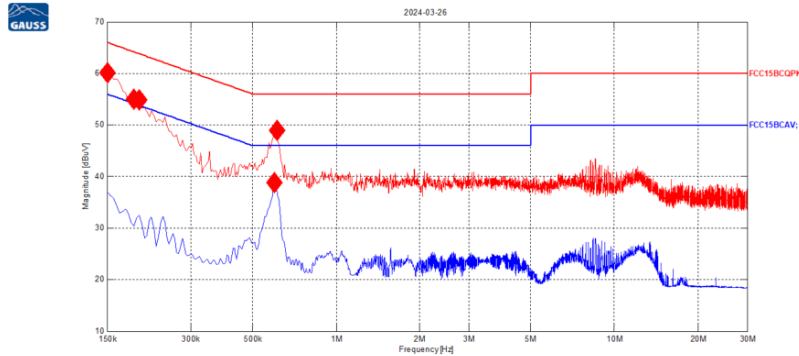


4.1.7 TEST RESULTS

Test Date: 03/26/2024, Environmental Conditions: 21.0C, 36.8% RH, 1017mbar

Power supply: SWI18-12-N

EUT Mode: 908.4MHz, 9.6kbps, FSK, Line



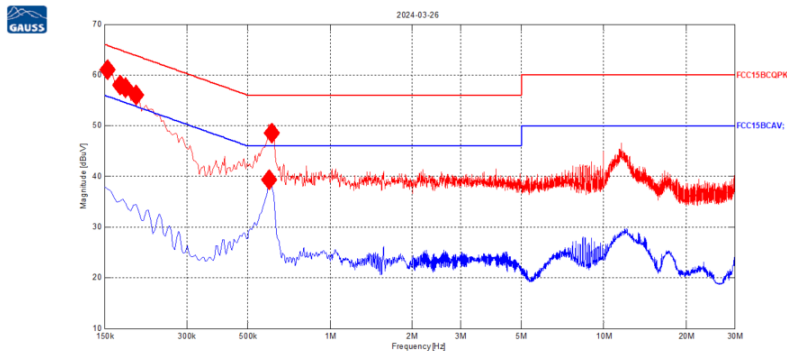
Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
150 kHz	60.09	66.00	5.91	20.31	FCC15BCQPK
187.54715 kHz	54.96	64.14	9.19	20.32	FCC15BCQPK
195.890961 kHz	54.87	63.78	8.91	20.32	FCC15BCQPK
613.081512 kHz	48.99	56.00	7.01	20.35	FCC15BCQPK

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s CAV, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
600.565796 kHz	38.80	46.00	7.20	20.36	FCC15BCAV;

EUT Mode: 908.4MHz, 9.6kbps, FSK, Neutral



Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1727_Neutral-N

f	Mag [dBuV]	Limit	Diff	Trans	Name
154.171906 kHz	61.03	65.77	4.74	20.32	FCC15BCQPK
170.859528 kHz	57.96	64.92	6.96	20.33	FCC15BCQPK
179.203339 kHz	57.46	64.52	7.07	20.33	FCC15BCQPK
195.890961 kHz	55.96	63.78	7.82	20.33	FCC15BCQPK
613.081512 kHz	48.58	56.00	7.42	20.35	FCC15BCQPK

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s CAV, Att AutodB, LISN-LISN_1727_Neutral-N

f	Mag [dBuV]	Limit	Diff	Trans	Name
600.565796 kHz	39.30	46.00	6.70	20.36	FCC15BCAV;



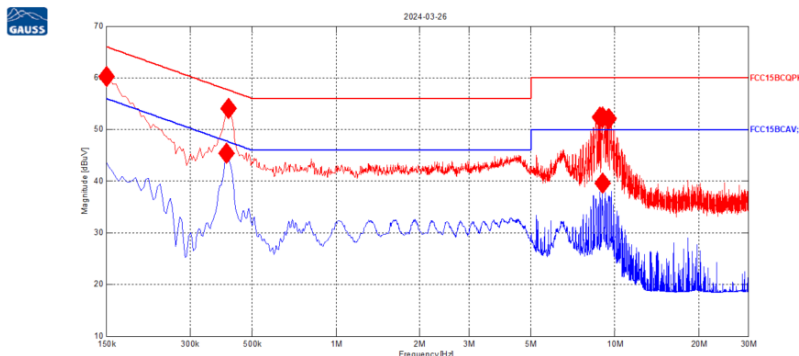
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Power supply: SWI25-12-N

EUT Mode: 908.4MHz, 9.6kbps, FSK, Line



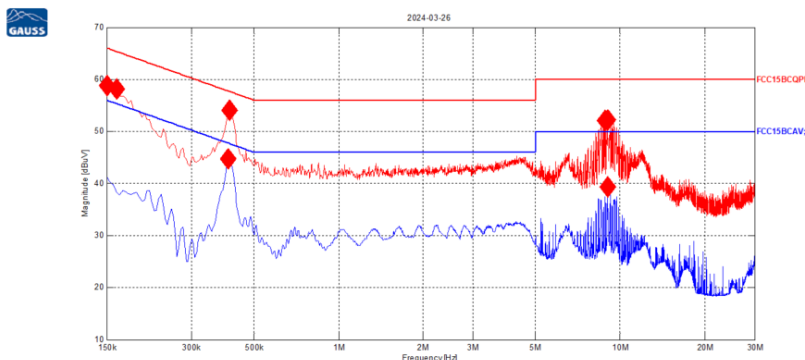
Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
150 kHz	60.18	66.00	5.82	20.31	FCC15BCQPK
412.830048 kHz	53.99	57.59	3.60	20.34	FCC15BCQPK
8.848423 MHz	52.39	60.00	7.61	20.40	FCC15BCQPK
9.04033066 MHz	52.41	60.00	7.59	20.40	FCC15BCQPK
9.50341217 MHz	52.04	60.00	7.96	20.38	FCC15BCQPK

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s CAV, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
404.486237 kHz	45.41	47.76	2.36	20.34	FCC15BCAV;
9.03615875 MHz	39.57	50.00	10.43	20.40	FCC15BCAV;

EUT Mode: 908.4MHz, 9.6kbps, FSK, Neutral



Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1727_Neutral-N

f	Mag [dBuV]	Limit	Diff	Trans	Name
150 kHz	58.76	66.00	7.24	20.32	FCC15BCQPK
162.515717 kHz	58.11	65.33	7.22	20.32	FCC15BCQPK
408.658142 kHz	54.00	57.68	3.68	20.35	FCC15BCQPK
8.848423 MHz	52.11	60.00	7.89	20.39	FCC15BCQPK
9.04033066 MHz	52.24	60.00	7.76	20.39	FCC15BCQPK

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s CAV, Att AutodB, LISN-LISN_1727_Neutral-N

f	Mag [dBuV]	Limit	Diff	Trans	Name
404.486237 kHz	44.67	47.76	3.09	20.35	FCC15BCAV;
9.03615875 MHz	39.33	50.00	10.67	20.39	FCC15BCAV;



4.2 FUNDAMENTAL FIELD STRENGTH

4.2.1 LIMITS

Per 15.249(a) and RSS-210 Issue 10 Annex B.10 Table B2
902-928MHz: 50mW/m at 3m (equivalent to 94dBuV/m at 3m)

4.2.2 TEST SETUP

Same as radiated spurious emissions setup for 30MHz-1GHz (Section 4.3.5).

4.2.3 TEST EQUIPMENT USED

Same as Section 4.3.2.

4.2.4 TEST PROCEDURES

Same as Section 4.3.3.

4.2.5 DEVIATIONS

No deviations from the standard.

4.2.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.



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4.2.7 TEST RESULTS

LTE Version

Bureau Veritas Consumer Product Services Inc.					Work Order - X0965				
Radiated Emissions Electric Field 3m Distance					EUT Power Input - 120V 60Hz				
Fundamental Field Strength					Test Site - CH2				
Notes:					Conditions - 18.4°C; 37.2%RH; 1010mBar				
Zigbee/BLE installed and idle.					Test Engineer - Yunus Faziloglu				
WiFi installed and idle.					Date of Test - 2/26/2024				
LTE version.									
Frequency (MHz)	QPeak Reading (dBµV)	Correction Factor (dB/m)	Adjusted QPeak Amplitude (dBµV/m)	Lim1: FCC 15.249 (dBµV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
908.4MHz FSK 9.6kbps									
Horz	93.3	-1.6	91.7	94	-2.3	PASS		100	136.1
Vert	88.8	-1.6	87.2	94	-6.8	PASS		121	181
908.4MHz FSK 40kbps									
Horz	93.2	-1.6	91.6	94	-2.4	PASS		100	136.1
Vert	88.7	-1.6	87.1	94	-6.9	PASS		121	181
916MHz GFSK 100kbps									
Horz	94.3	-1.5	92.8	94	-1.2	PASS	-1.2	100	133.5
Vert	86.7	-1.5	85.2	94	-8.8	PASS		100	28.3

Non-LTE Version

Bureau Veritas Consumer Product Services Inc.					Work Order - X0965				
Radiated Emissions Electric Field 3m Distance					EUT Power Input - 120V 60Hz				
Fundamental Field Strength					Test Site - CH2				
Notes:					Conditions - 19°C; 39.8%RH; 996mBar				
Zigbee/BLE installed and idle.					Test Engineer - Yunus Faziloglu				
WiFi installed and idle.					Date of Test - 3/20/2024				
Non-LTE version.									
Frequency (MHz)	QPeak Reading (dBµV)	Correction Factor (dB/m)	Adjusted QPeak Amplitude (dBµV/m)	Lim1: FCC 15.249 (dBµV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
908.4MHz FSK 9.6kbps									
Horz	86.2	6	92.2	94	-1.8	PASS		100	0
Vert	80	6	86	94	-8	PASS		114	111
908.4MHz FSK 40kbps									
Horz	86.4	6	92.4	94	-1.6	PASS		164	121
Vert	78.4	6	84.4	94	-9.6	PASS		113	250
916MHz GFSK 100kbps									
Horz	86.8	6	92.8	94	-1.2	PASS	-1.2	170	351
Vert	78.6	6	84.6	94	-9.4	PASS		116	96

4.3 RADIATED SPURIOUS EMISSIONS

4.3.1 LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emissions limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- Lower limit applies at the transition frequencies.
- $\text{dB}\mu\text{V/m} = 20 \cdot \log(\mu\text{V/m})$.
- As specified in 15.35(b), for frequencies above 1000MHz, field strength limits are based on the use of measurement instrumentation employing an average detector function. However, there is also a limit on the peak level of the emissions that is 20 dB above the maximum permitted average emission limit.
- Limit conversion below 30MHz is done by using the square of an inverse linear distance extrapolation factor (40 dB/decade) as allowed in FCC 15.31(f)(2).
 $\text{Limit}(3\text{m}) = \text{Limit}(30\text{m}) + 40 \cdot \log(30/3) = \text{Limit}(30\text{m}) + 40$
 $\text{Limit}(3\text{m}) = \text{Limit}(300\text{m}) + 40 \cdot \log(300/3) = \text{Limit}(300\text{m}) + 80$
- RSS-GEN Table 6 H-field limits are 51.5dB lower than FCC 15.209(a) E-field limits. Measurements are performed in terms of magnetic field and converted to electric field using the free space impedance of 377Ω (E-field = H-field +51.5). Therefore resulting pass/fail margin would be the same if an E-field reading is compared to an E-field limit or an H-field reading is compared to an H-field limit.



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4.3.2 TEST EQUIPMENT USED

Rev. 4/5/2024

Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz	1685	I	11/29/2024	11/29/2022
EMI Chamber 1	719150	2762A-6	A-0015	1-18GHz	1685	I	12/29/2024	12/29/2022
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz	1686	I	12/28/2024	12/28/2022
EMI Chamber 2	719150	2762A-7	A-0015	1-18GHz	1686	I	12/28/2024	12/28/2022
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Black Bilog	30-2000MHz	JB1	Sunol	A091604-2	1106	I	10/2/2025	10/2/2023
Blue Horn	1-18GHz	3117	ETS	157647	1861	I	3/27/2025	3/27/2023
2615 Active Loop Antenna	9KHz-30MHz	6502	EMCO	2049	2615	I	1/18/2025	1/18/2023
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental MXE EMI Receiver(1170725)	20Hz-26.5GHz	N9038A	Agilent	MY51210151	1170725	I	2/15/2025	2/15/2024
Rental MXE EMI Receiver (1274541)	20Hz-26.5GHz	N9038A	Keysight	MY53220101	1274541	1	6/19/2024	6/19/2023
Gauss TDEMI Ultra 40	9KHz-40GHz	TDEMI Ultra 40	Gauss	2305001	2558	1	7/9/2024	7/9/2023
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2054	9kHz - 18GHz		Florida RF			II	11/2/2024	11/2/2023
Asset #2466	9KHz-18GHz		MegaPhase			II	11/2/2024	11/2/2023
Asset #2474	9KHz-18GHz		MegaPhase			II	11/2/2024	11/2/2023
Asset #2608	9KHz-18GHz		Pasternack			II	11/2/2024	11/2/2023
Asset #2681	9KHz-18GHz		Pasternack			II	12/7/2024	12/7/2023
Asset #3011	9KHz-18GHz		Pasternack			II	11/2/2024	11/2/2023
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2111 HF Preamp	0.5-18GHz	PAM-118A	COM-POWER	551063	2111	II	10/18/2024	10/18/2023
8447F Rental PA	9KHz-1.3GHz	84477F	HP	3113A05395		II	10/18/2024	10/18/2023
2130 BRF	9KHz-10GHz	BRM18770	Micro-Tronics	1	2130	II	4/30/2024	1/3/2023
Meteorological Meters/Chambers		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	12/15/2025	12/15/2022
Asset #2654		1235C97	Control Company	200477432	2654	I	8/18/2025	8/18/2022

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

4.3.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber.
- b. For below 30MHz, a loop antenna with its lowest point 1m above the ground was placed 3m away from the EUT and it was rotated 0 and 90 degrees around its vertical axis.
- c. In 30MHz-1GHz range, a biconilog antenna was mounted on a variable-height antenna tower and placed 3m away from the EUT. Antenna height was varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were investigated. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. In 1GHz-10GHz range, a horn antenna was mounted on a variable-height antenna tower and placed 3m away from the EUT. Antenna height was varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were investigated. The table was rotated 360 degrees to determine the position of the highest radiation.
- e. Following bandwidths were used during emissions testing:

Freq. (MHz)	RBW	VBW	Pre-scan	Final
0.009-0.15	200Hz	1kHz	Peak	Quasi Peak
0.15-30	9kHz	30kHz	Peak	Quasi Peak
30-1000	120kHz	300kHz	Peak	Quasi Peak
>1000	1MHz	3MHz	Peak	Peak Max Hold and RMS Power Avg (Trace Avg)

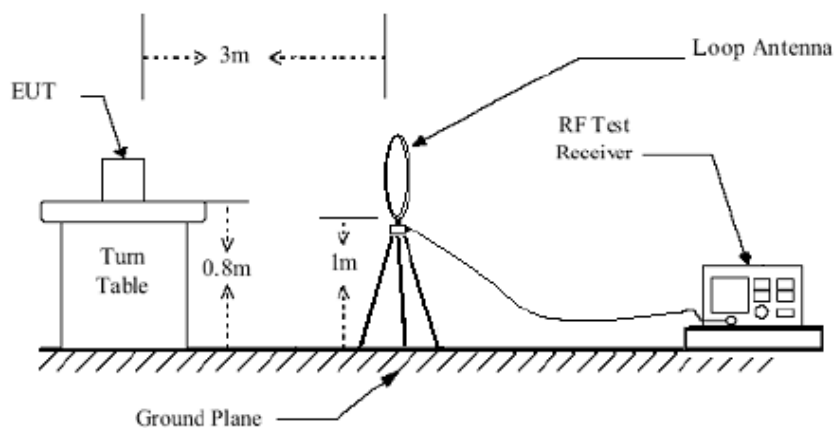
Per FCC §15.209(d), limits §15.209(a) are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. If peak measurements in these frequency bands were below the applicable limits, QPk and RMS measurements were not performed.

4.3.4 DEVIATIONS

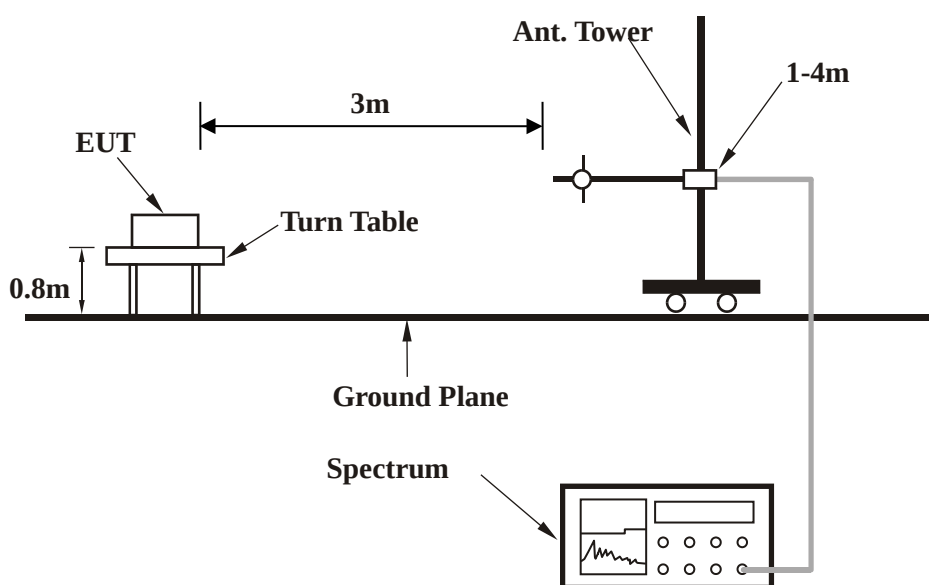
No deviations from the standard.

4.3.5 TEST SETUP

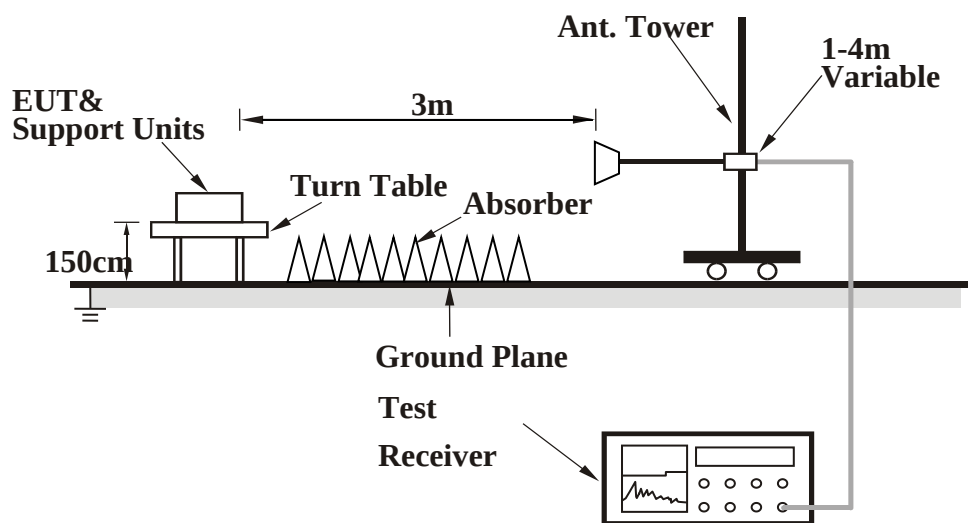
Below 30MHz Test Setup



30MHz - 1GHz Test Setup



1GHz – 10GHz Test Setup



Note: For the actual test configuration, please refer to the Test Setup Photos exhibit.

4.3.6 EUT OPERATING CONDITIONS

EUT was operated according to the manufacturer's specifications.



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



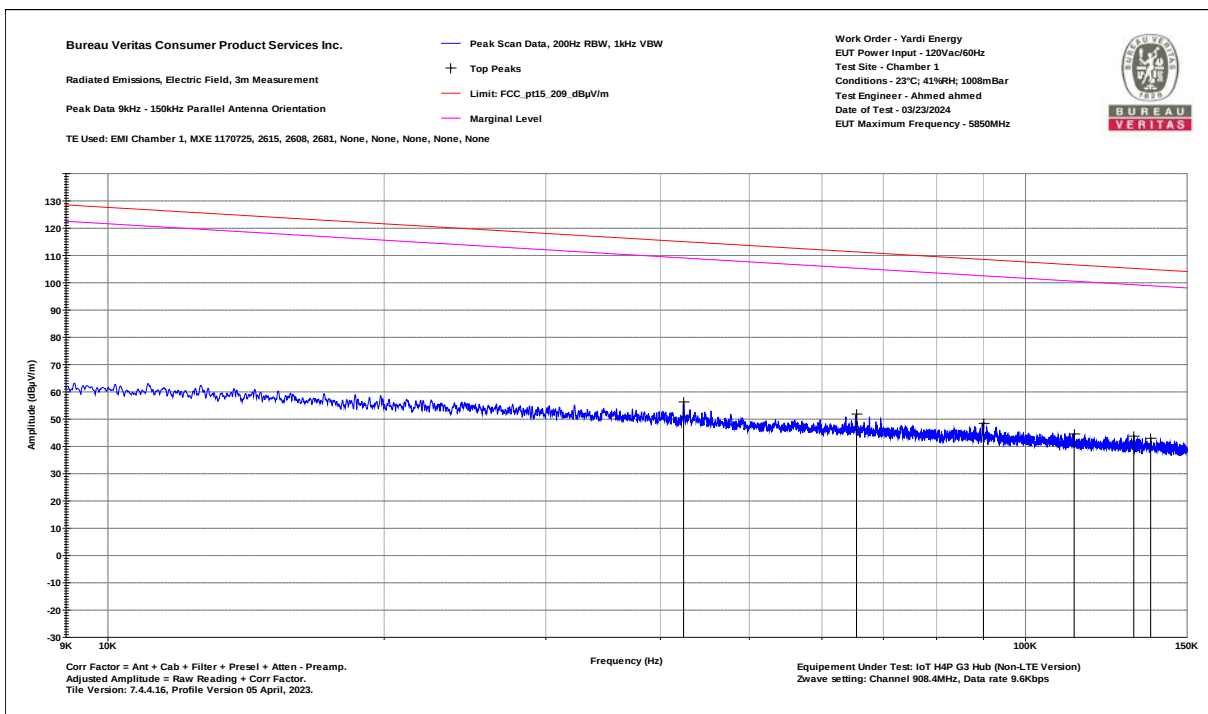
4.3.7 TEST RESULTS

Below 30MHz

EUT Mode: 908.4MHz, 9.6kbps, FSK

Bureau Veritas Consumer Product Services Inc. Radiated Emissions, Electric Field, 3m Measurement Top Peaks Parallel 9-150kHz Notes: Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version) Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps	Work Order - Yardi Energy EUT Power Input - 120Vac/60Hz Test Site - Chamber 1 Conditions - 23°C; 41%RH; 1008mBar Test Engineer - Ahmed ahmed Date of Test - 03/23/2024
--	---

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_2 09_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
0.042392	44.7	11.8	56.4	115.1	-58.7	PASS	-58.7	15
0.065442	41.1	10.6	51.7	111.3	-59.6	PASS		0
0.089983	38	10.5	48.5	108.5	-60	PASS		345
0.112991	34.5	10.1	44.6	106.6	-62	PASS		150
0.131229	33.8	10	43.8	105.2	-61.4	PASS		315
0.136905	32.9	10.1	43	104.9	-61.9	PASS		90



0.009-0.15MHz Parallel



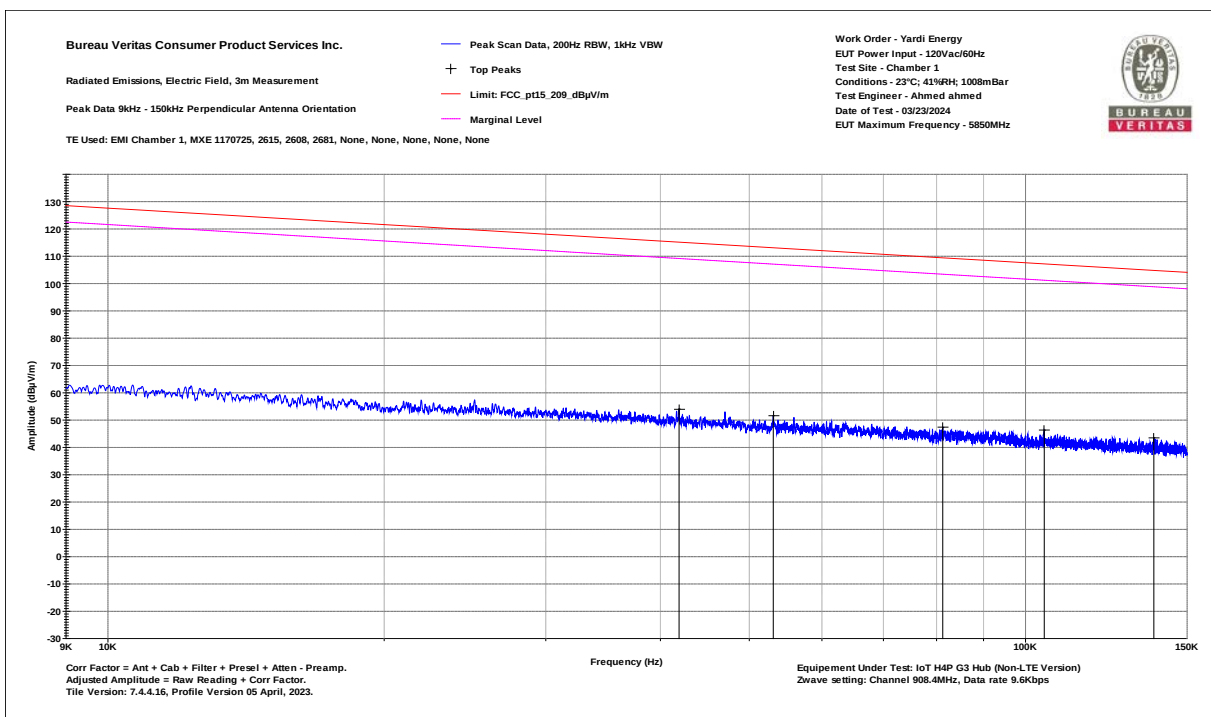
Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.
Radiated Emissions, Electric Field, 3m Measurement
Top Peaks Perpendicular 9-150kHz
Notes:
Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version)
Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps

Work Order - Yardi Energy
EUT Power Input - 120Vac/60Hz
Test Site - Chamber 1
Conditions - 23°C; 41%RH; 1008mBar
Test Engineer - Ahmed ahmed
Date of Test - 03/23/2024

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_2 09_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
0.04192	42.2	11.8	54	115.2	-61.1	PASS		345
0.053101	40.7	10.9	51.6	113.1	-61.5	PASS		345
0.081241	36.9	10.5	47.3	109.4	-62.1	PASS		45
0.104824	36.2	10.1	46.3	107.2	-60.9	PASS	-60.9	300
0.138001	33.5	10.1	43.5	104.8	-61.3	PASS		90



0.009-0.15MHz Perpendicular



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

Top Peaks Parallel 150-1000kHz

Notes:

Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version)

Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps

Work Order - X0965

EUT Power Input - 120VAC/60Hz

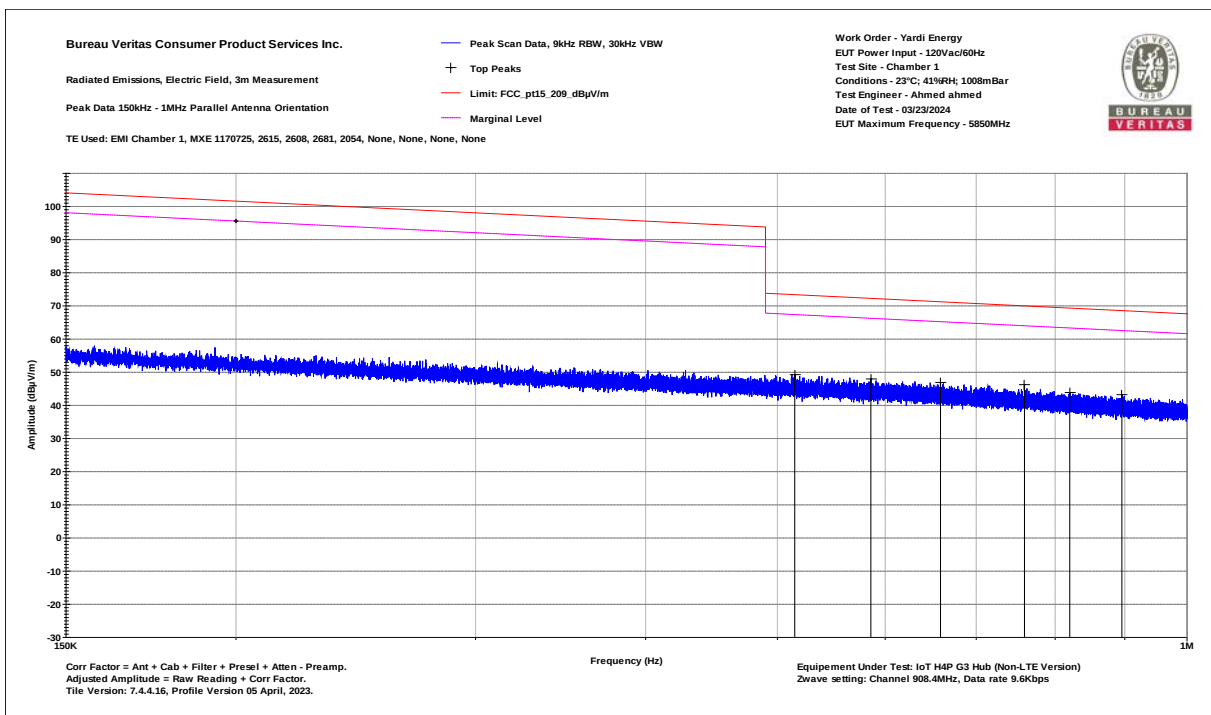
Test Site - Chamber 1

Conditions - 23°C; 41%RH; 1008mBar

Test Engineer - Ahmed ahmed

Date of Test - 03/23/2024

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_209_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
0.515	39	10.2	49.2	73.4	-24.2	PASS		0
0.586	37.8	10.3	48.1	72.3	-24.2	PASS		195
0.659	36.5	10.4	46.8	71.3	-24.4	PASS		345
0.76	35.8	10.4	46.2	70	-23.8	PASS	-23.8	315
0.82	33.4	10.4	43.8	69.3	-25.5	PASS		75
0.896	32.8	10.4	43.3	68.6	-25.3	PASS		15



0.15-1MHz Parallel



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

Top Peaks Perpendicular 150-1000kHz

Notes:

Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version)

Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps

Work Order - X0965

EUT Power Input - 120VAC/60Hz

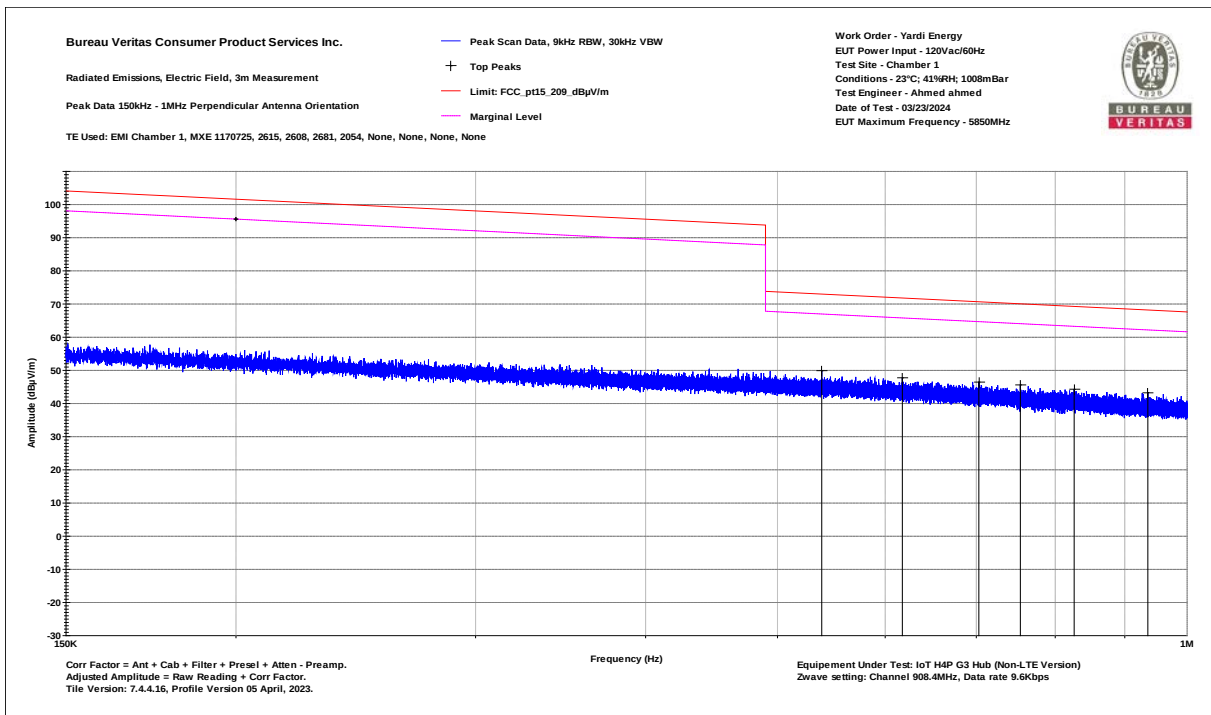
Test Site - Chamber 1

Conditions - 23°C; 41%RH; 1008mBar

Test Engineer - Ahmed ahmed

Date of Test - 03/23/2024

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_2 09_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
0.539	39.6	10.2	49.8	73	-23.2	PASS	-23.2	105
0.618	37.4	10.3	47.7	71.8	-24.1	PASS		75
0.703	36	10.4	46.4	70.7	-24.2	PASS		255
0.754	35.2	10.4	45.6	70.1	-24.5	PASS		285
0.826	33.8	10.4	44.2	69.3	-25	PASS		150
0.936	32.7	10.5	43.3	68.2	-24.9	PASS		315



0.15-1MHz Perpendicular

Bureau Veritas Consumer Product
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One Distribution Center Circle, #1
Littleton, MA

Tel.: (978) 486-8880
Fax: (978) 486-8828



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.

Radiated Emissions Electric Field 3m Distance

Top Peaks Parallel 1-30MHz

Notes:

Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version)

Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps

Work Order - X0965

EUT Power Input - 120VAC/60Hz

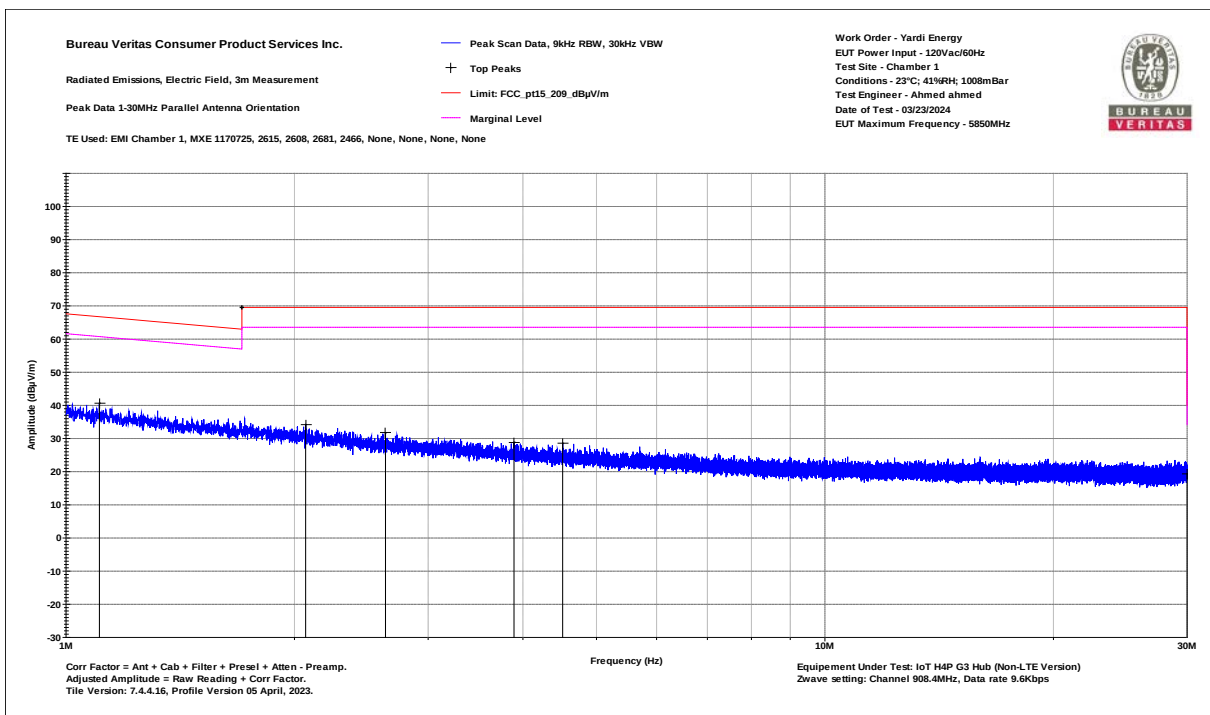
Test Site - Chamber 1

Conditions - 23°C; 41%RH; 1008mBar

Test Engineer - Ahmed ahmed

Date of Test - 03/23/2024

Frequency (MHz)	Raw Peak Reading (dBμV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBμV/m)	Lim: FCC_pt15_209_dBμV/m (dBμV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
1.107	30	10.7	40.7	66.7	-26.1	PASS		285
2.069	23.7	10.5	34.2	69.5	-35.3	PASS		345
2.636	21.2	10.5	31.7	69.5	-37.8	PASS		315
3.893	18.2	10.7	28.9	69.5	-40.6	PASS		90
4.513	17.9	10.7	28.6	69.5	-41	PASS		30
30	11.3	8.1	19.3	40	-20.7	PASS	-20.7	330



1-30MHz Parallel

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Littleton, MA

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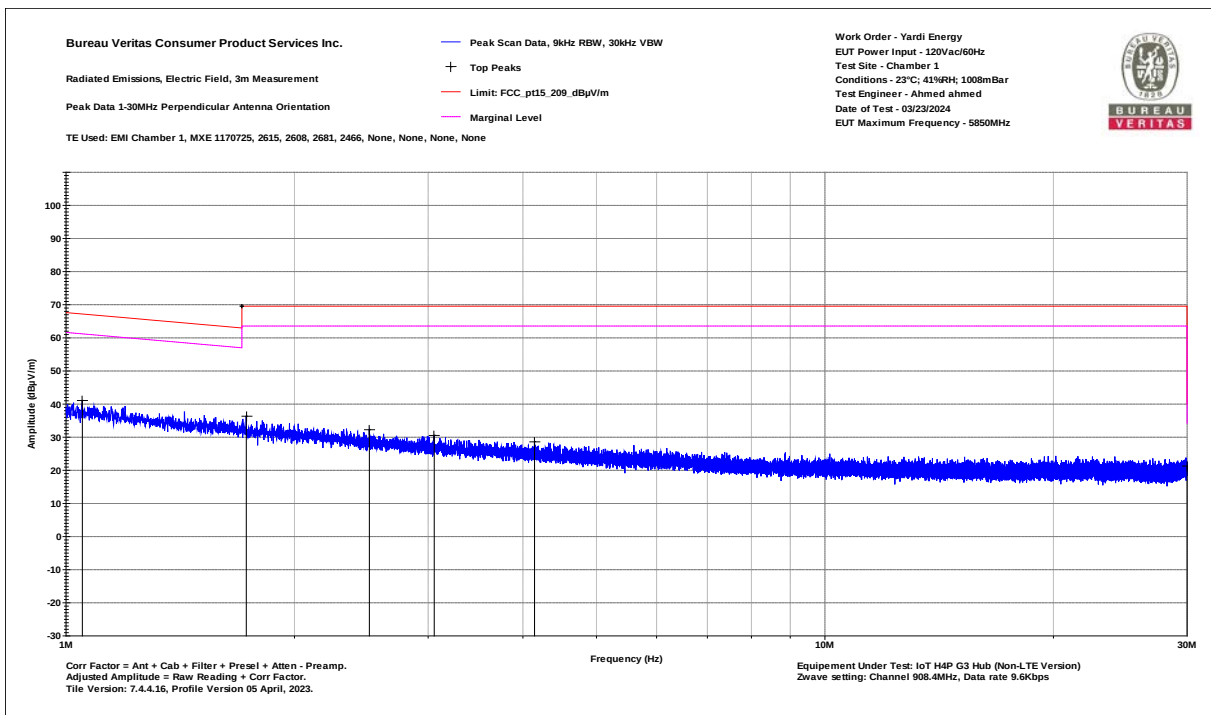
Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
Top Peaks Perpendicular 1-30MHz
Notes:
Equipment Under Test: IoT H4P G3 Hub (Non-LTE Version)
Zwave setting: Channel 908.4MHz, Data rate 9.6Kbps

Work Order - X0965
EUT Power Input - 120VAC/60Hz
Test Site - Chamber 1
Conditions - 23°C; 41%RH; 1008mBar
Test Engineer - Ahmed ahmed
Date of Test - 03/23/2024

Frequency (MHz)	Raw Peak Reading (dBµV)	Correction Factor (dB/s)	Adjusted Peak Amplitude (dBµV/m)	Lim: FCC_pt15_2 09_dBµV/m (dBµV/m)	Peak Margin (dB)	Peak Test Results (Pass/Fail)	Worst Margin (dB)	EUT Azimuth (degrees)
1.051	30.4	10.7	41.1	67.2	-26.1	PASS		150
1.728	25.7	10.6	36.3	69.5	-33.2	PASS		60
2.51	21.7	10.5	32.2	69.5	-37.3	PASS		60
3.056	20.1	10.5	30.6	69.5	-39	PASS		90
4.143	18	10.7	28.7	69.5	-40.9	PASS		180
30	13.2	8.1	21.2	40	-18.8	PASS	-18.8	150



1-30MHz Perpendicular



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Test Report for Yardi Systems Inc. Report No. EX0965-2 Issue 3

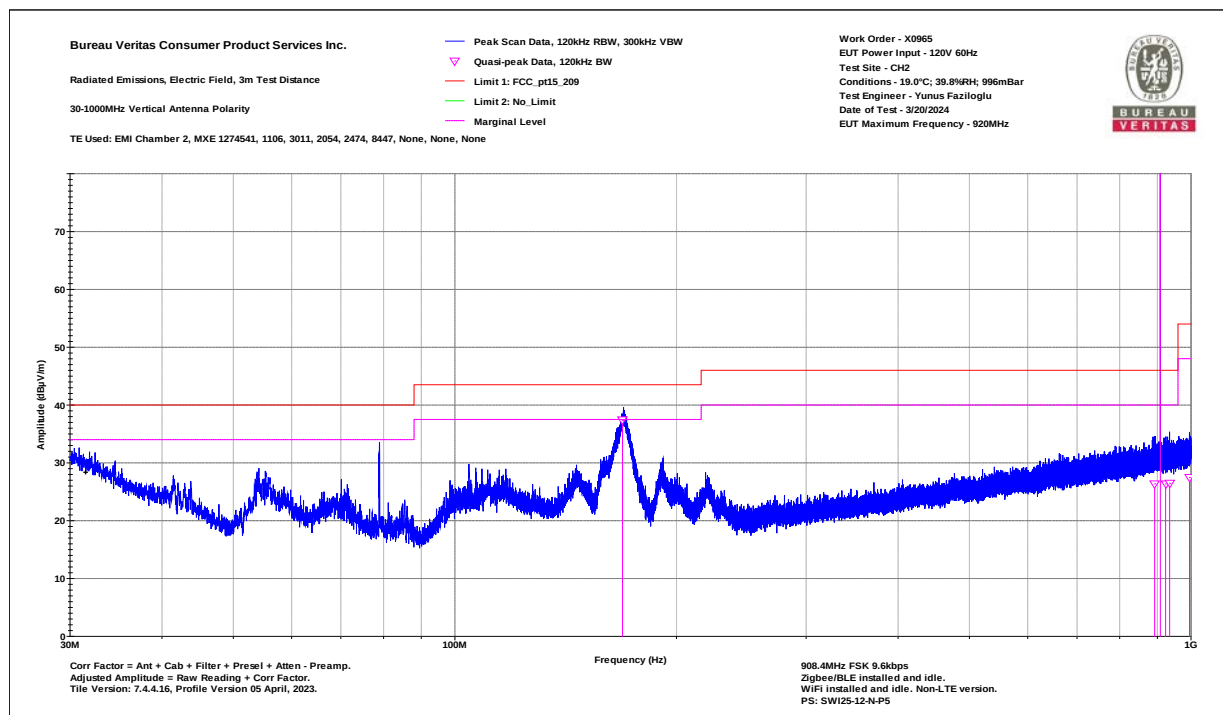


30MHz-1GHz

908.4MHz FSK 9.6kbps

Bureau Veritas Consumer Product Services Inc.	Work Order - X0965
Radiated Emissions Electric Field 3m Distance	EUT Power Input - 120V 60Hz
30-1000MHz Vertical Data	Test Site - CH2
Notes:	Conditions - 19.0°C; 39.8%RH; 996mBar
908.4MHz FSK 9.6kbps	Test Engineer - Yunus Faziloglu
Zigbee/BLE installed and idle.	Date of Test - 3/20/2024
WiFi installed and idle. Non-LTE version.	

Frequency (MHz)	Raw QP Reading (dBμV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBμV/m)	Lim1: FCC_pt15_2 09 (dBμV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
168.927	44	-6.7	37.3	43.5	-6.2	PASS	-6.2	100	275
892.408	20.6	5.8	26.4	46	-19.6	PASS		159	164
908.396	Fundamental								
923.421	20.3	6.1	26.4	46	-19.6	PASS		100	181
935.073	20.2	6.3	26.5	46	-19.5	PASS		225	155
995.226	20	7.5	27.4	54	-26.6	PASS		202	25



30MHz-1GHz Vertical

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Littleton, MA

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Fax: (978) 486-8828

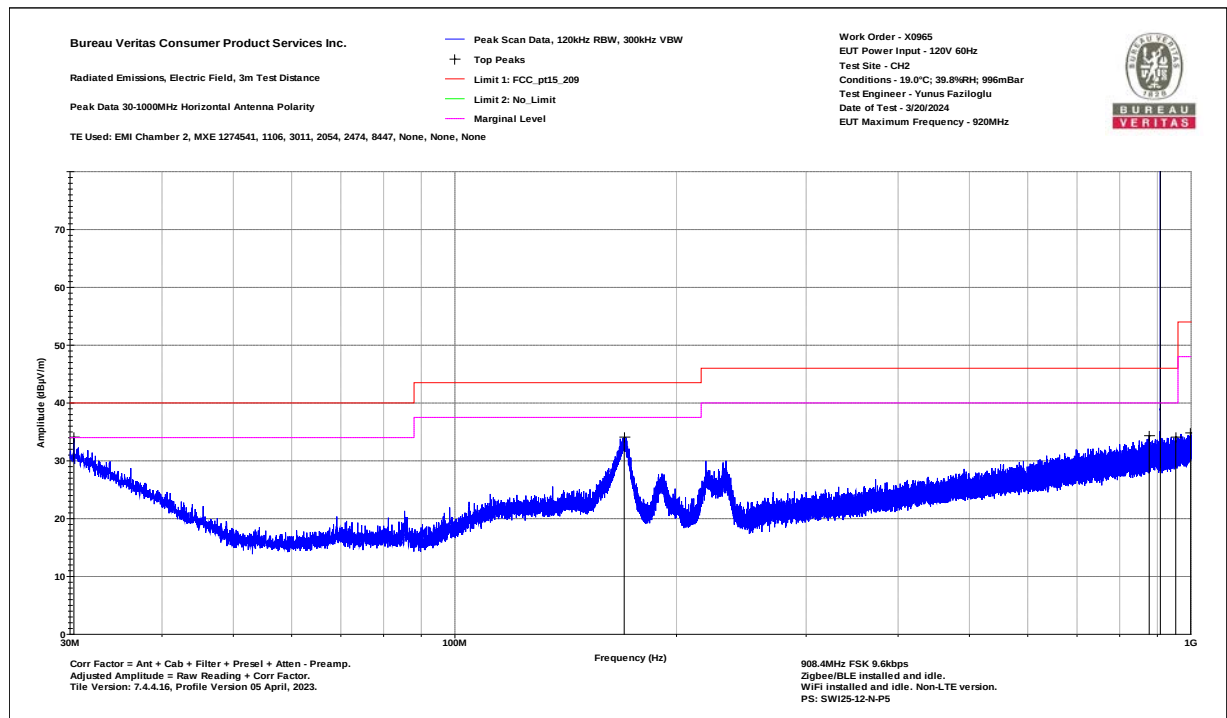


Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.	Work Order - X0965
Radiated Emissions Electric Field 3m Distance	EUT Power Input - 120V 60Hz
Top Peaks Horizontal 30-1000MHz	Test Site - CH2
Notes:	Conditions - 19.0°C; 39.8%RH; 996mBar
908.4MHz FSK 9.6kbps	Test Engineer - Yunus Faziloglu
Zigbee/BLE installed and idle.	Date of Test - 3/20/2024
WiFi installed and idle. Non-LTE version.	

Frequency (MHz)	Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim1: FCC_pt15_2 09 (dBµV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
30.364	32.5	1.6	34.1	40	-5.9	PASS	-5.9	250	135
169.826	40.8	-6.7	34	43.5	-9.5	PASS		150	270
877.392	28.9	5.4	34.3	46	-11.7	PASS		200	90
908.384	Fundamental								
953.319	27.5	6.6	34.1	46	-11.9	PASS		250	0
998.788	27.2	7.6	34.8	54	-19.2	PASS		100	315



30MHz-1GHz Horizontal



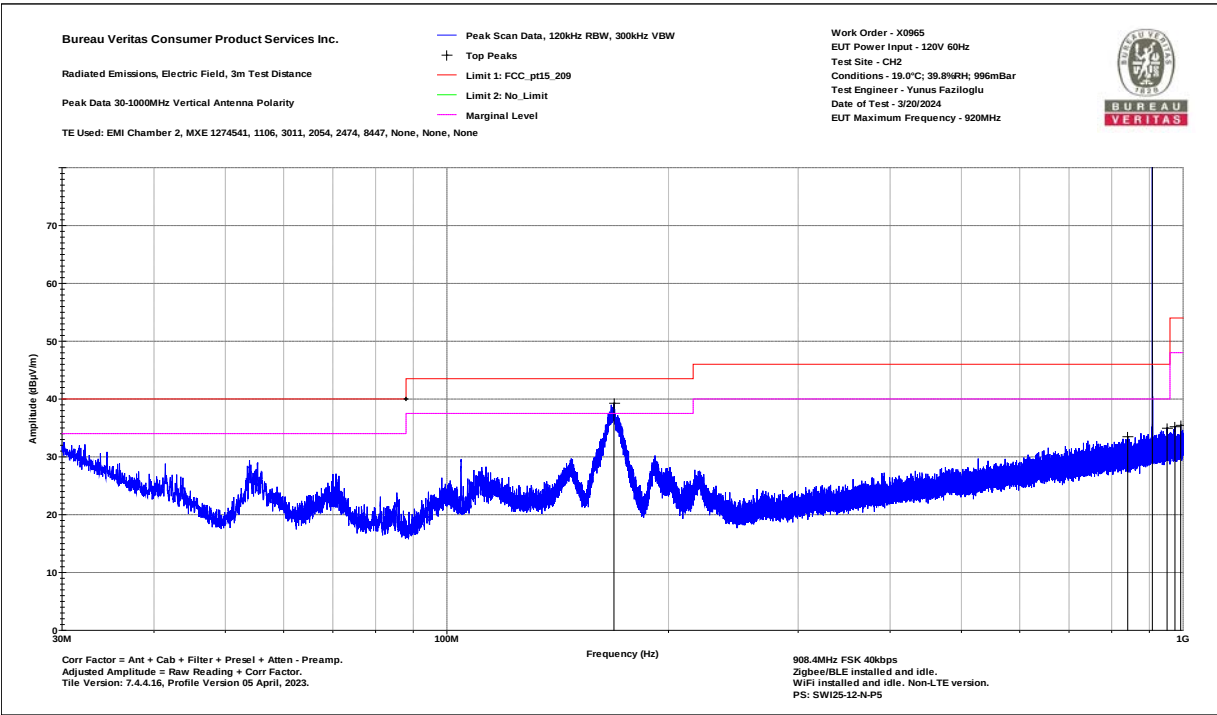
Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



908.4MHz FSK 40kbps

Bureau Veritas Consumer Product Services Inc. Radiated Emissions Electric Field 3m Distance Top Peaks Vertical 30-1000MHz Notes: 908.4MHz FSK 40kbps Zigbee/BLE installed and idle. WiFi installed and idle. Non-LTE version.	Work Order - X0965 EUT Power Input - 120V 60Hz Test Site - CH2 Conditions - 19.0°C; 39.8%RH; 996mBar Test Engineer - Yunus Faziloglu Date of Test - 3/20/2024
---	--

Frequency (MHz)	Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim1: FCC_pt15_2 09 (dBµV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	Turntable Azimuth (degrees)
168.613	45.9	-6.7	39.3	43.5	-4.2	PASS	-4.2	100	270
841.041	28.8	4.6	33.4	46	-12.6	PASS		200	135
908.384	Fundamental								
951.233	28.4	6.6	35	46	-11	PASS		100	135
974.998	28.3	6.9	35.2	54	-18.8	PASS		150	270
992.41	28.1	7.4	35.5	54	-18.5	PASS		200	0



30MHz-1GHz Vertical

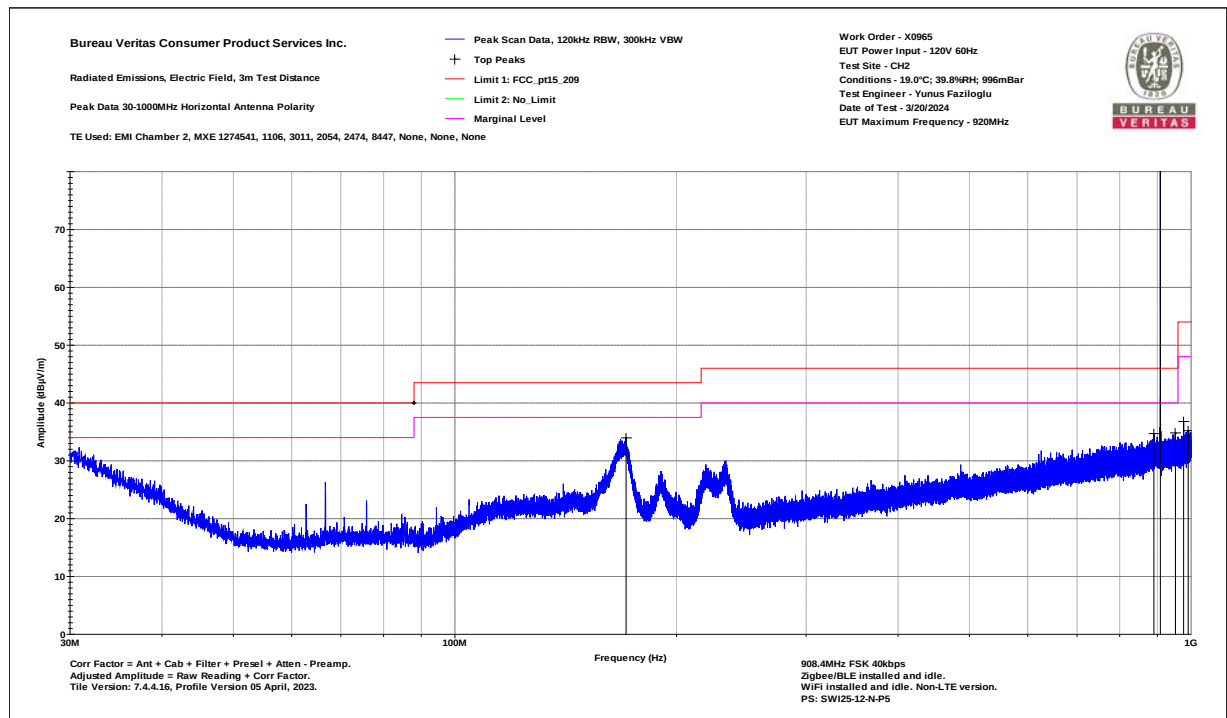


Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.	Work Order - X0965
Radiated Emissions Electric Field 3m Distance	EUT Power Input - 120V 60Hz
Top Peaks Horizontal 30-1000MHz	Test Site - CH2
Notes:	Conditions - 19.0°C; 39.8%RH; 996mBar
908.4MHz FSK 40kbps	Test Engineer - Yunus Faziloglu
Zigbee/BLE installed and idle.	Date of Test - 3/20/2024
WiFi installed and idle. Non-LTE version.	

Frequency (MHz)	Peak Reading (dBµV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBµV/m)	Lim1: FCC_pt15_2 09 (dBµV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
170.82	40.8	-6.8	34	43.5	-9.5	PASS	-9.5	200	45
890.123	28.9	5.8	34.7	46	-11.3	PASS		150	135
908.408	Fundamental								
952.349	28.2	6.6	34.8	46	-11.2	PASS		150	90
976.841	29.9	6.9	36.8	54	-17.2	PASS		150	225
991.076	27.9	7.3	35.2	54	-18.8	PASS		150	135



30MHz-1GHz Horizontal



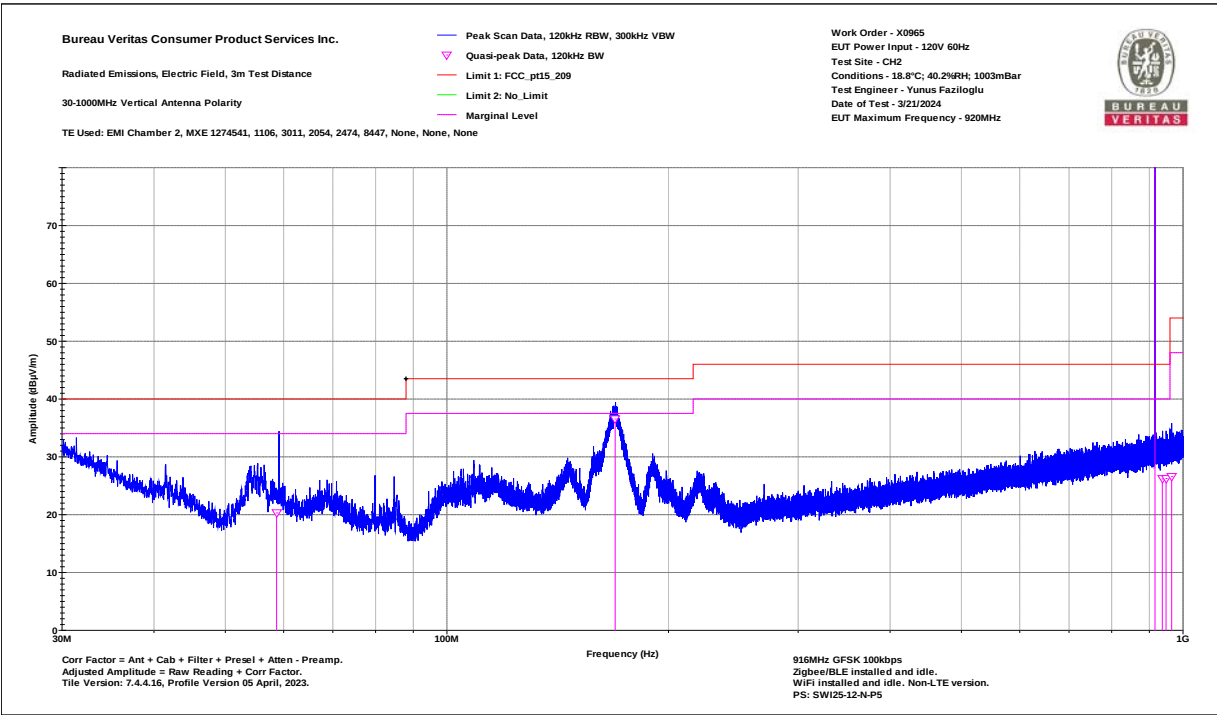
Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



916MHz GFSK 100kbps

Bureau Veritas Consumer Product Services Inc. Radiated Emissions Electric Field 3m Distance 30-1000MHz Vertical Data Notes: 916MHz GFSK 100kbps Zigbee/BLE installed and idle. WiFi installed and idle. Non-LTE version.	Work Order - X0965 EUT Power Input - 120V 60Hz Test Site - CH2 Conditions - 18.8°C; 40.2%RH; 1003mBar Test Engineer - Yunus Faziloglu Date of Test - 3/21/2024
--	---

Frequency (MHz)	Raw QP Reading (dBµV)	Correction Factor (dB/m)	Adjusted QP Amplitude (dBµV/m)	Lim1: FCC_pt15_2 09 (dBµV/m)	Margin to Lim1 (dB)	Test Results Lim1 (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
58.709	32.5	-12.2	20.3	40	-19.7	PASS		159	242
169.259	43.2	-6.7	36.5	43.5	-7	PASS	-7	102	257
916.015	Fundamental								
937.22	19.9	6.3	26.2	46	-19.8	PASS		194	110
948.262	19.7	6.6	26.3	46	-19.7	PASS		172	175
964.883	19.7	6.9	26.6	54	-27.4	PASS		225	25



30MHz-1GHz Vertical



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Test Report for Yardi Systems Inc. Report No. EX0965-2 Issue 3



Bureau Veritas Consumer Product Services Inc.
Radiated Emissions Electric Field 3m Distance
Top Peaks Horizontal 30-1000MHz

Notes:

916MHz GFSK 100kbps

Zigbee/BLE installed and idle.

WiFi installed and idle. Non-LTE version.

Work Order - X0965

EUT Power Input - 120V 60Hz

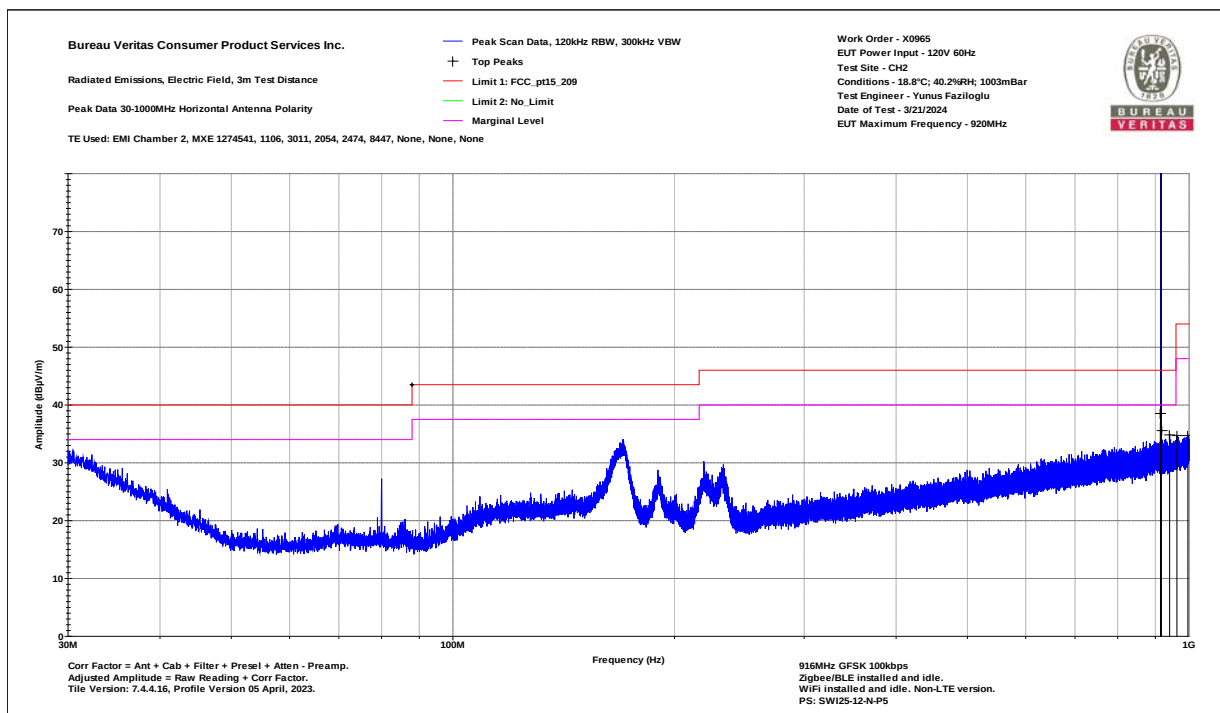
Test Site - CH2

Conditions - 18.8°C; 40.2%RH; 1003mBar

Test Engineer - Yunus Faziloglu

Date of Test - 3/21/2024

Frequency (MHz)	Peak Reading (dBμV)	Correction Factor (dB/m)	Adjusted Peak Amplitude (dBμV/m)	Lim1: FCC_pt15_2 09 (dBμV/m)	Lim1 Margin (dB)	Lim1 Test Results (Pass/Fail)	Worst Margin Lim1 (dB)	Antenna Height (cm)	EUT Azimuth (degrees)
914.64	32.5	6	38.5	46	-7.5	PASS	-7.5	250	135
915.974	Fundamental								
917.041	29.6	6	35.6	46	-10.4	PASS		250	180
940.879	28.5	6.4	34.9	46	-11.1	PASS		250	90
962.606	27.8	6.9	34.7	54	-19.3	PASS		150	45
996.241	27.2	7.5	34.8	54	-19.2	PASS		250	45



30MHz-1GHz Horizontal

Bureau Veritas Consumer Product
Services Inc.

One Distribution Center Circle, #1
Littleton, MA

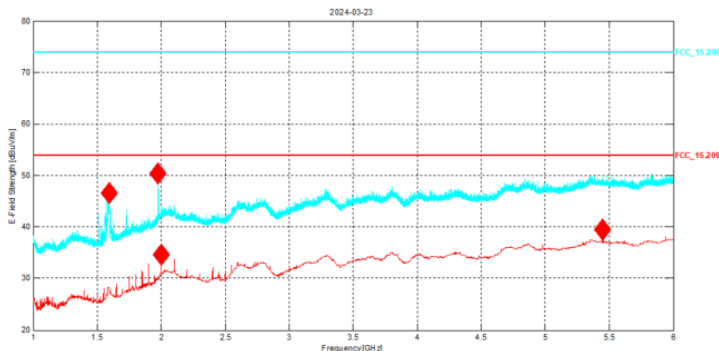
Tel.: (978) 486-8880
Fax: (978) 486-8828

1GHz-10GHz

Test Date: 3/23/2024, Environmental Conditions: 23.0C, 41.0% RH, 1008mbar

908.4MHz FSK 9.6kbps

Notes: BLE/Zigbee and WiFi modules are idle



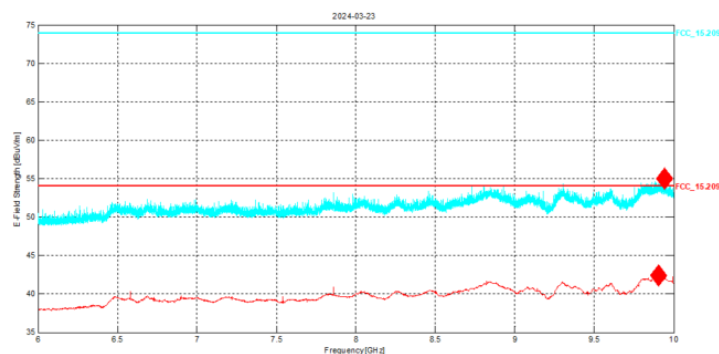
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.59275 GHz	46.65	74.00	27.35	V	100	114.017	-10.01	FCC_15.209
1.97525 GHz	50.41	74.00	23.59	V	100	271.055	-5.81	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
2 GHz	34.63	54.00	19.37	V	250	207.49	-5.05	FCC_15.209
5.45025 GHz	39.47	54.00	14.53	V	200	329.562	-0.14	FCC_15.209

1-6GHz Vertical



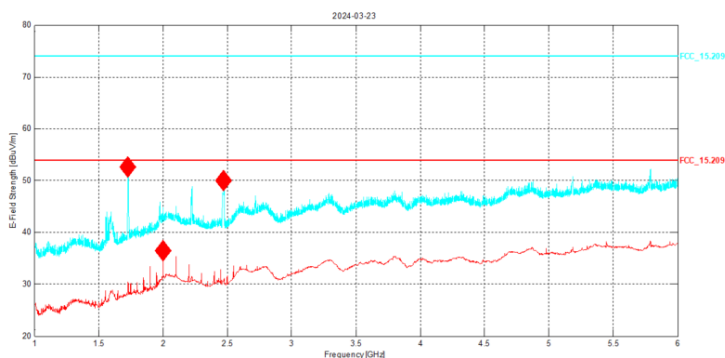
Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.945 GHz	55.01	74.00	18.99	V	100	288.2	3.80	FCC_15.209

Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.905 GHz	42.37	54.00	11.63	V	100	0	3.85	FCC_15.209

6-10GHz Vertical



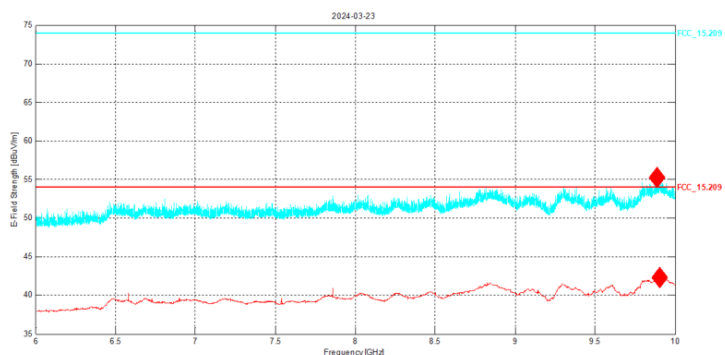
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.72775 GHz	52.58	74.00	21.42	H	200	18.011	-9.15	FCC_15.209
2.47125 GHz	49.98	74.00	24.02	H	200	18.011	-6.46	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
2 GHz	36.49	54.00	17.51	H	200	234.563	-5.05	FCC_15.209

1-6GHz Horizontal



Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.8895 GHz	55.29	74.00	18.71	H	300	359	3.85	FCC_15.209

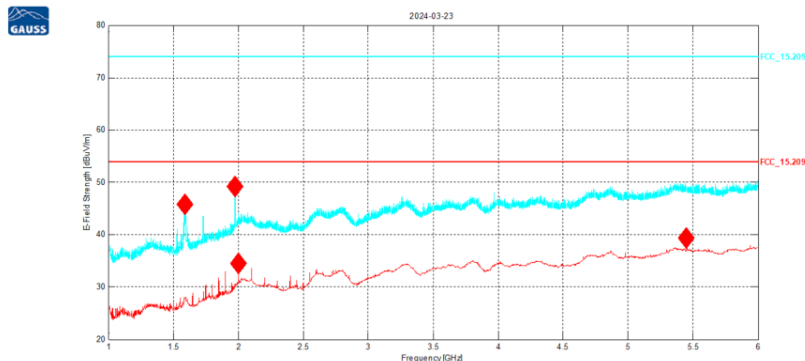
Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.90625 GHz	42.35	54.00	11.65	H	100	331.5	3.85	FCC_15.209

6-10GHz Horizontal

908.4MHz FSK 40kbps

Notes: BLE/Zigbee and WiFi modules are idle



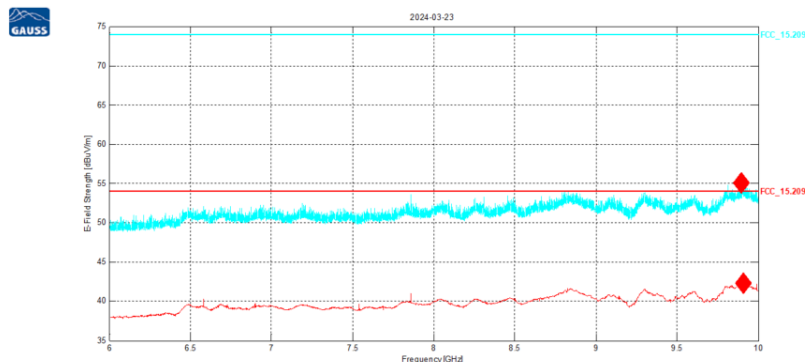
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.59075 GHz	45.76	74.00	28.24	V	250	116.548	-10.01	FCC_15.209
1.97675 GHz	49.17	74.00	24.83	V	100	90.638	-5.78	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
2 GHz	34.45	54.00	19.55	V	250	203.162	-5.05	FCC_15.209
5.45025 GHz	39.37	54.00	14.63	V	200	328.659	-0.14	FCC_15.209

1-6GHz Vertical



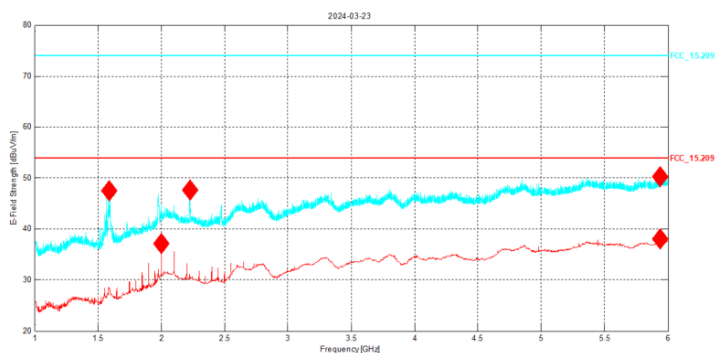
Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.8975 GHz	55.06	74.00	18.94	V	100	291.756	3.85	FCC_15.209

Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.9075 GHz	42.35	54.00	11.65	V	150	0	3.85	FCC_15.209

6-10GHz Vertical



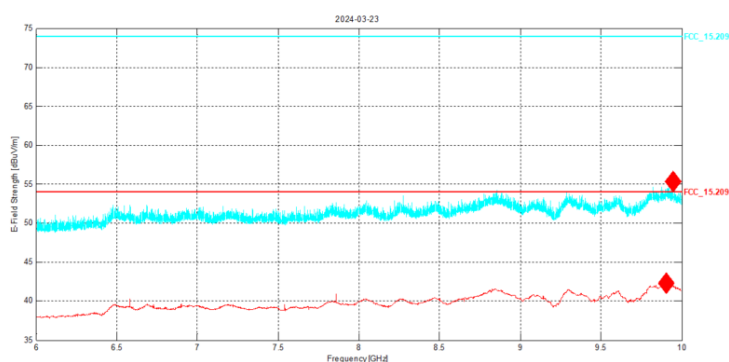
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.588 GHz	47.53	74.00	26.47	H	350	181.552	-10.02	FCC_15.209
2.2275 GHz	47.59	74.00	26.41	H	300	156.683	-6.58	FCC_15.209
5.9415 GHz	50.20	74.00	23.80	H	400	0	0.30	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
2 GHz	37.12	54.00	16.88	H	350	59.014	-5.05	FCC_15.209
5.93875 GHz	38.06	54.00	15.94	H	400	291.583	0.28	FCC_15.209

1-6GHz Horizontal



Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.947 GHz	55.37	74.00	18.63	H	100	0	3.80	FCC_15.209

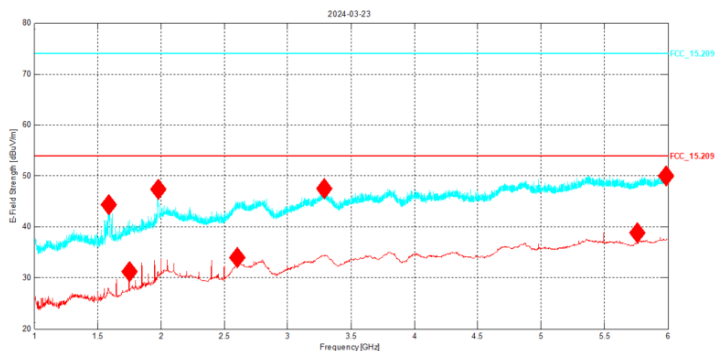
Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.90625 GHz	42.35	54.00	11.65	H	100	345.6	3.85	FCC_15.209

6-10GHz Horizontal

916MHz GFSK 100kbps

Notes: BLE/Zigbee and WiFi modules are idle



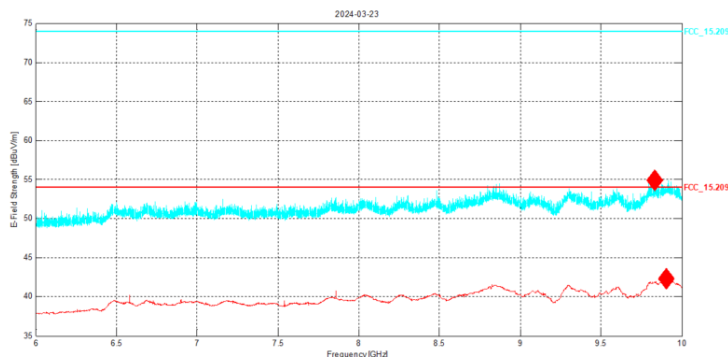
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.58675 GHz	44.29	74.00	29.71	V	250	40.876	-10.02	FCC_15.209
1.97925 GHz	47.42	74.00	26.58	V	150	251.086	-5.71	FCC_15.209
3.29025 GHz	47.51	74.00	26.49	V	200	359	-3.86	FCC_15.209
5.98425 GHz	50.04	74.00	23.96	V	400	359	0.55	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.74975 GHz	31.17	54.00	22.83	V	250	108.283	-8.69	FCC_15.209
2.6 GHz	33.95	54.00	20.05	V	200	162.776	-5.04	FCC_15.209
5.75875 GHz	38.88	54.00	15.12	V	250	150.476	0.05	FCC_15.209

1-6GHz Vertical



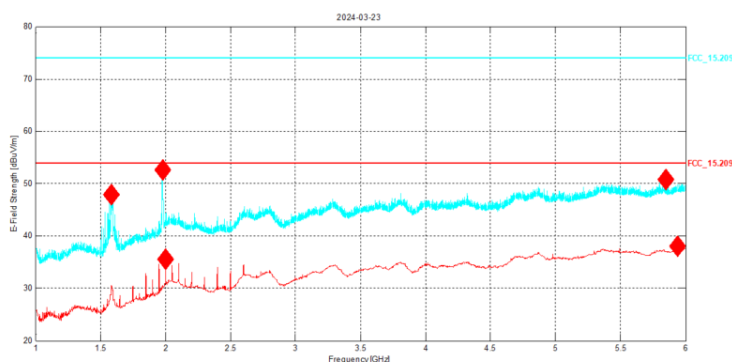
Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.8335 GHz	54.96	74.00	19.04	V	100	66.611	3.98	FCC_15.209

Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.90625 GHz	42.29	54.00	11.71	V	100	18.4	3.85	FCC_15.209

6-10GHz Vertical



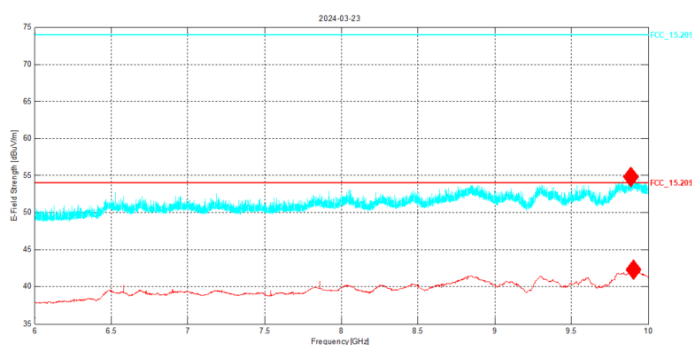
Scan1: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
1.586 GHz	47.85	74.00	26.15	H	400	180.588	-10.03	FCC_15.209
1.97775 GHz	52.59	74.00	21.41	H	250	64.546	-5.75	FCC_15.209
5.85075 GHz	50.76	74.00	23.24	H	400	350.267	0.09	FCC_15.209

Scan2: 1.0 GHz, 50.0 kHz, 6.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
2 GHz	35.55	54.00	18.45	H	350	64.546	-5.05	FCC_15.209
5.93875 GHz	38.08	54.00	15.92	H	150	31.358	0.28	FCC_15.209

1-6GHz Horizontal



Scan1: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.88625 GHz	54.81	74.00	19.19	H	100	330.711	3.85	FCC_15.209

Scan2: 6.0 GHz, 50.0 kHz, 10.0 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.907 GHz	42.28	54.00	11.72	H	100	14.767	3.85	FCC_15.209

6-10GHz Horizontal



4.4 20dB CHANNEL BANDWIDTH & 99% OBW

4.4.1 LIMITS

20dB BW: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. [15.215(c)]

99% OBW: When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is its 99% emission bandwidth, as calculated or measured. [RSS-Gen Issue 5 Section 6.7].

4.4.2 TEST SETUP

Same as radiated spurious emissions setup 30MHz-1GHz (Section 4.3.5).

4.4.3 TEST EQUIPMENT USED

See Section 4.3.2.

4.4.4 TEST PROCEDURES

20dB BW: ANSI C63.10-2013 Section 6.9

99% OBW: RSS-Gen Issue 5 Section 6.7

4.4.5 DEVIATIONS

No deviations from the standard.

4.4.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.

4.4.7 TEST RESULTS

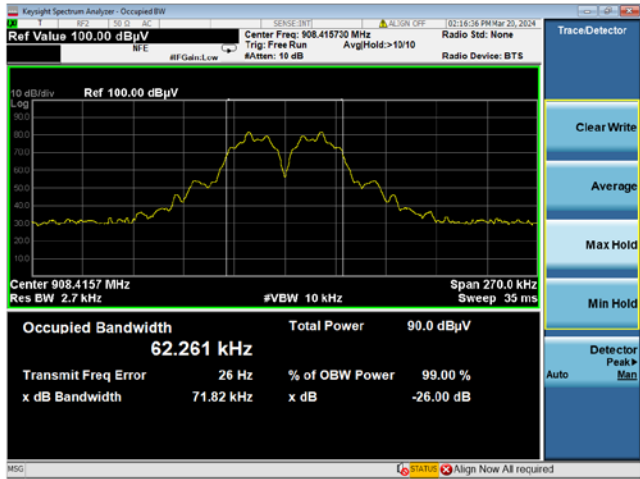
Test Date: 03/20/2024, Environmental Conditions: 19.0C, 39.8% RH, 996mbar

26dB BW was measured as worst-case to represent 20dB BW.

Channel and Data Rate	26dB BW (kHz)	99% OBW (kHz)
908.4MHz 9.6kbps	71.82	62.261
908.4MHz 40kbps	99.05	83.691
916MHz 100kbps	198.4	113.91



Test Report for Yardi Systems Inc.
Report No. EX0965-2 Issue 3



908.4MHz 9.6kbps



908.4MHz 40kbps



916MHz 100kbps



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the Test Setup Photos exhibit.

6 APPENDIX A – MODIFICATIONS

No modifications were made to the EUT during testing.

---END OF REPORT---