



Test Report for Yardi Systems Inc.
Report No. EX0965-3 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	Apr 9 – Apr 11, 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 15.247
- ☒ ISED Canada RSS-247 Issue 3

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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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
2 MEASUREMENT UNCERTAINTY	6
3 GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	8
3.3 MEASUREMENT PROCEDURES USED	10
3.4 DESCRIPTION OF SUPPORT EQUIPMENT	10
4 TEST RESULTS	11
4.1 AC LINE CONDUCTED EMISSIONS	11
4.1.1 LIMITS	11
4.1.2 TEST EQUIPMENT USED	11
4.1.3 TEST PROCEDURES	12
4.1.4 DEVIATIONS	12
4.1.5 TEST SETUP	13
4.1.6 EUT OPERATING CONDITIONS	13
4.1.7 TEST RESULTS	14
4.2 RADIATED SPURIOUS EMISSIONS	17
4.2.1 LIMITS	17
4.2.2 TEST EQUIPMENT USED	18
4.2.3 TEST PROCEDURES	19
4.2.4 DEVIATIONS	20
4.2.5 TEST SETUP	20
4.2.6 EUT OPERATING CONDITIONS	21
4.2.7 TEST RESULTS	22
4.3 6dB CHANNEL BANDWIDTH & 99% OBW	31
4.3.1 LIMITS	31
4.3.2 TEST SETUP	31
4.3.3 TEST EQUIPMENT USED	31
4.3.4 TEST PROCEDURES	31
4.3.5 DEVIATIONS	32
4.3.6 EUT OPERATING CONDITIONS	32
4.3.7 TEST RESULTS	33
4.4 CONDUCTED OUTPUT POWER	34
4.4.1 LIMITS	34



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



4.4.2	TEST SETUP	34
4.4.3	TEST EQUIPMENT USED	34
4.4.4	TEST PROCEDURES	34
4.4.5	DEVIATIONS	34
4.4.6	EUT OPERATING CONDITIONS	34
4.4.7	TEST RESULTS	35
4.5	POWER SPECTRAL DENSITY	36
4.5.1	LIMITS	36
4.5.2	TEST SETUP	36
4.5.3	TEST EQUIPMENT USED	36
4.5.4	TEST PROCEDURES	36
4.5.5	DEVIATIONS	36
4.5.6	EUT OPERATING CONDITIONS	36
4.5.7	TEST RESULTS	37
4.6	CONDUCTED SPURIOUS EMISSIONS AND BAND-EDGES	38
4.6.1	LIMITS	38
4.6.2	TEST SETUP	38
4.6.3	TEST EQUIPMENT USED	38
4.6.4	TEST PROCEDURES	38
4.6.5	DEVIATIONS	39
4.6.6	EUT OPERATING CONDITIONS	39
4.6.7	TEST RESULTS	40
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	41
6	APPENDIX A – MODIFICATIONS	42



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 15.247), RSS-247				
STANDARD SECTION		TEST TYPE AND LIMIT	APPLICABLE	RESULT
47CFR15	RSS			
15.207	Gen 8.8	AC Power Line Conducted Emissions	Y	PASS
15.205 15.209	247 3.3 247 5.5 Gen 8.9 Gen 8.10	Radiated Spurious Emissions	Y	PASS
15.247(d)	247 5.5	Conducted Spurious Emissions	Y	PASS
15.247(a)(2)	247 5.2(a)	6dB Bandwidth	Y	PASS
--	Gen 6.7	99% Occupied Bandwidth	Y	PASS
15.247(b)(3)	247 5.4(d)	Conducted Output Power	Y	PASS
15.247(e)	247 5.2(b)	Power Spectral Density	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	OQPSK
DATA RATES	100kbps
OPERATING FREQUENCY	912MHz, 920MHz
EUT Power Setting	140 (max setting)
OUTPUT POWER	16.9mW (Peak Conducted)
ANTENNA TYPE	Surface-mount patch antenna with 0.3dBi peak gain

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:

- For a more detailed description of the EUT, please refer to the manufacturer's specifications or the user's manual.
- 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	912
2	920

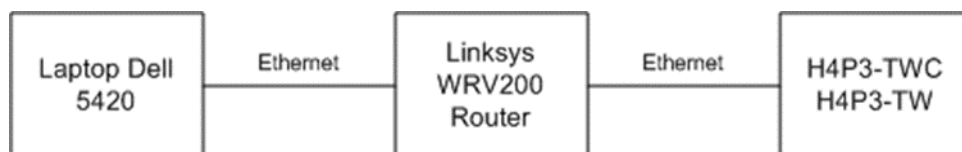
1 radiated sample of each the LTE and non-LTE versions of the EUT were provided for testing. Also 1 conducted antenna port sample of the LTE version was provided. External control software was supplied by the customer to put the units into required test modes.

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 912MHz, OQPSK, 100kbps (100% Duty-cycle)
B	Continuous Transmit at 920MHz, OQPSK, 100kbps (100% Duty-cycle)

EUT SETUP BLOCK DIAGRAMS



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

TEST	TEST MODE	Notes
COP	A, B	5, 6
PSD	A, B	5, 6
CBE	A, B	5, 6
6DB	A, B	5, 6
OBW	A, B	5, 6
CSE	A, B	5, 6
RSE<30MHz	B	1, 2, 3, 5
RSE<1G	A, B	1, 2, 5
RSE≥1G	A, B	1, 2, 5
PLCE	B	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 and antenna port tests.

Note 6: Due to identical transmitter circuitry between the EUT versions, only LTE version was tested for antenna port measurements.

COP: Conducted Output Power

PSD: Power Spectral Density

CBE: Conducted Band-edge

6DB: 6dB Bandwidth

OBW: 99% Occupied Bandwidth

CSE: Conducted Spurious Emissions

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:

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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#2507)	9kHz-2GHz	PE7014-20	Pasternack	2030	2507	II	18-Oct-24	18-Oct-23
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.								



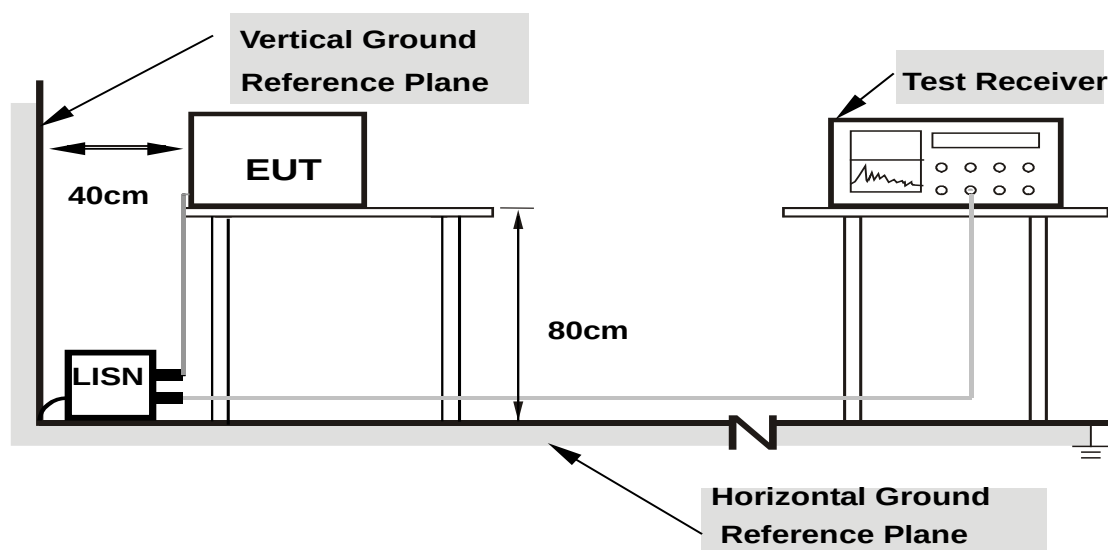
4.1.3 TEST PROCEDURES

- 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

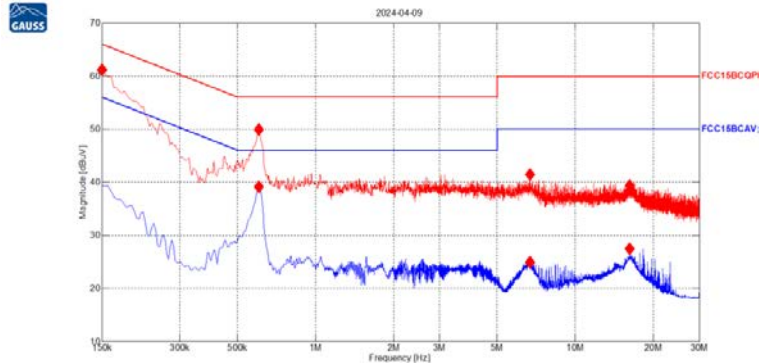
- a. EUT was operated according to manufacturer's specifications.

4.1.7 TEST RESULTS

Test Date: 04/09/2024, Environmental Conditions: 20.7C, 35.9% RH, 1008mbar

Power supply: SW18-12-N

EUT Mode: 920MHz, 100kbps, OQPSK, Line



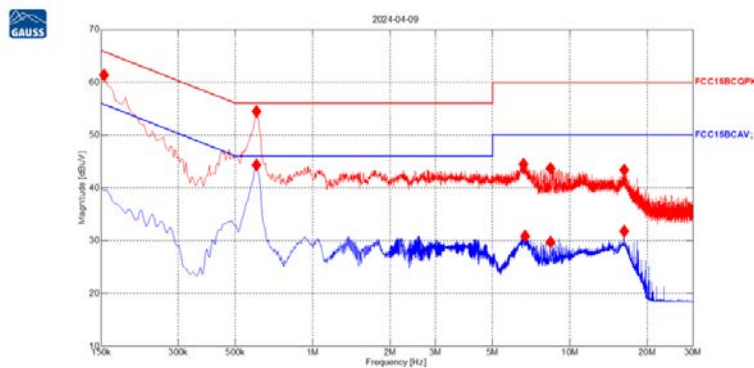
Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
150 kHz	61.13	66.00	4.87	20.19	FCC15BCQPK
604.737701 kHz	49.88	56.00	6.12	20.23	FCC15BCQPK
6.67903214 MHz	41.43	60.00	18.57	20.27	FCC15BCQPK
16.1659453 MHz	39.30	60.00	20.70	20.29	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
604.737701 kHz	39.11	46.00	6.89	20.23	FCC15BCAV;
6.67903214 MHz	24.91	50.00	25.09	20.27	FCC15BCAV;
16.1659453 MHz	27.38	50.00	22.62	20.29	FCC15BCAV;

EUT Mode: 920MHz, 100kbps, OQPSK, 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	61.34	65.77	4.43	20.20	FCC15BCQPK
604.737701 kHz	54.43	56.00	1.57	20.23	FCC15BCQPK
6.58307831 MHz	44.40	60.00	15.60	20.23	FCC15BCQPK
8.38534149 MHz	43.58	60.00	16.42	20.24	FCC15BCQPK
16.2285239 MHz	43.33	60.00	16.67	20.29	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
604.737701 kHz	44.25	46.00	1.75	20.23	FCC15BCAV;
6.69989166 MHz	30.71	50.00	19.29	20.24	FCC15BCAV;



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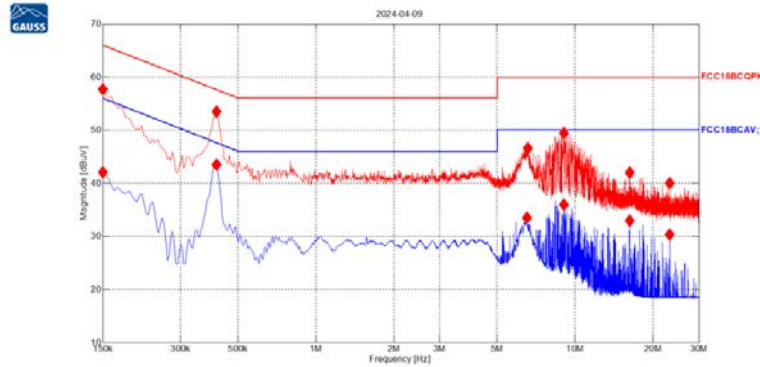
Test Report for Yardi Systems Inc. Report No. EX0965-3 Issue 3



8.38534149 MHz	29.65	50.00	20.35	20.24	FCC15BCAV;
16.2285239 MHz	31.67	50.00	18.33	20.29	FCC15BCAV;

Power supply: SWI25-12-N

EUT Mode: 920MHz, 100kbps, OQPSK, Line



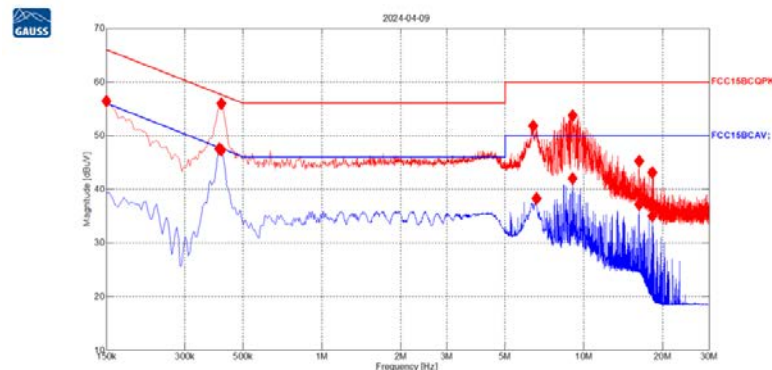
Scan1: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s MaxPeak, Att AutodB, LISN-LISN_1726_Line-L

f	Mag [dBuV]	Limit	Diff	Trans	Name
150 kHz	57.64	66.00	8.36	20.19	FCC15BCQPK
412.830048 kHz	53.45	57.59	4.14	20.21	FCC15BCQPK
6.56221878 MHz	46.56	60.00	13.44	20.27	FCC15BCQPK
9.04867447 MHz	49.38	60.00	10.62	20.28	FCC15BCQPK
16.2285239 MHz	41.94	60.00	18.06	20.29	FCC15BCQPK
23.1288556 MHz	39.99	60.00	20.01	20.30	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
150 kHz	42.02	56.00	13.98	20.19	FCC15BCAV;
412.830048 kHz	43.47	47.59	4.12	20.21	FCC15BCAV;
6.51632782 MHz	33.46	50.00	16.54	20.27	FCC15BCAV;
9.04867447 MHz	35.91	50.00	14.09	20.28	FCC15BCAV;
16.2285239 MHz	32.92	50.00	17.08	20.29	FCC15BCAV;
23.1288556 MHz	30.31	50.00	19.69	20.30	FCC15BCAV;

EUT Mode: 920MHz, 100kbps, OQPSK, 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	56.39	66.00	9.61	20.20	FCC15BCQPK
412.830048 kHz	55.93	57.59	1.66	20.22	FCC15BCQPK
6.40785828 MHz	51.76	60.00	8.24	20.21	FCC15BCQPK
9.04033066 MHz	53.67	60.00	6.33	20.27	FCC15BCQPK

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



16.2285239 MHz	45.23	60.00	14.77	20.29	FCC15BCQPK
18.2435542 MHz	43.08	60.00	16.92	20.28	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	47.46	47.76	0.30	20.22	FCC15BCAV;
412.830048 kHz	47.27	47.59	0.32	20.22	FCC15BCAV;
6.5789064 MHz	38.19	50.00	11.81	20.23	FCC15BCAV;
9.04033066 MHz	41.96	50.00	8.04	20.27	FCC15BCAV;
16.2285239 MHz	37.14	50.00	12.86	20.29	FCC15BCAV;
18.2435542 MHz	34.92	50.00	15.08	20.28	FCC15BCAV;

4.2 RADIATED SPURIOUS EMISSIONS

4.2.1 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:

1. Lower limit applies at the transition frequencies.
2. $\text{dB}\mu\text{V/m} = 20 \cdot \log(\mu\text{V/m})$.
3. 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.
4. 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).
 $\text{Limit}(3\text{m}) = \text{Limit}(30\text{m}) + 40 \cdot \log(30/3) = \text{Limit}(30\text{m}) + 40$
 $\text{Limit}(3\text{m}) = \text{Limit}(300\text{m}) + 40 \cdot \log(300/3) = \text{Limit}(300\text{m}) + 80$
5. 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.



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



4.2.2 TEST EQUIPMENT USED

Rev. 4/17/2024								
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
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
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-White Bilog	30-2000MHz	JB1	Sunol	A091604-1	1105	I	11/2/2025	11/2/2023
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
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2466	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
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2311 PA	1-1000MHz	PAM-103	COM-POWER	441174	2311	II	10/18/2024	10/18/2023
2111 HF Preamp	0.5-18GHz	PAM-118A	COM-POWER	551063	2111	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 #2847		1235C97	Control Company	200435382	2847	I	8/18/2025	8/18/2022
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.								

4.2.3 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)

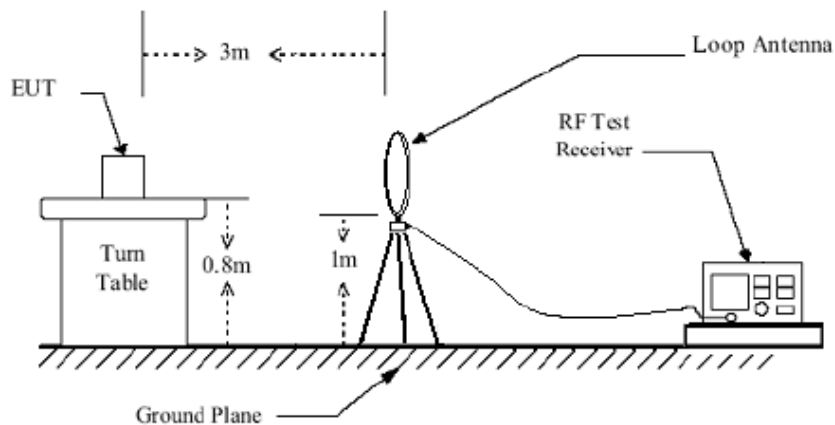
Per FCC §15.209(d), limits §15.209(a) are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. If peak measurements in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

4.2.4 DEVIATIONS

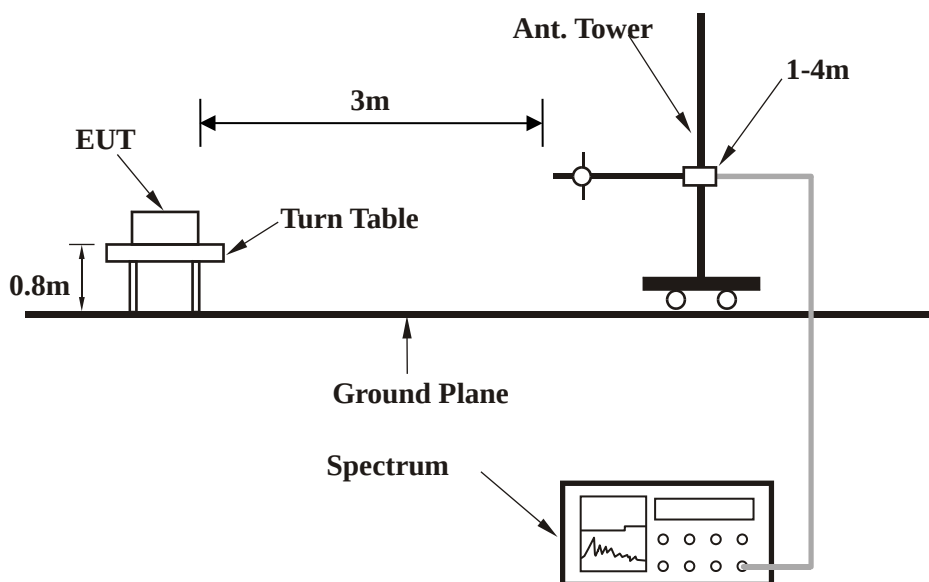
No deviations from the standard.

4.2.5 TEST SETUP

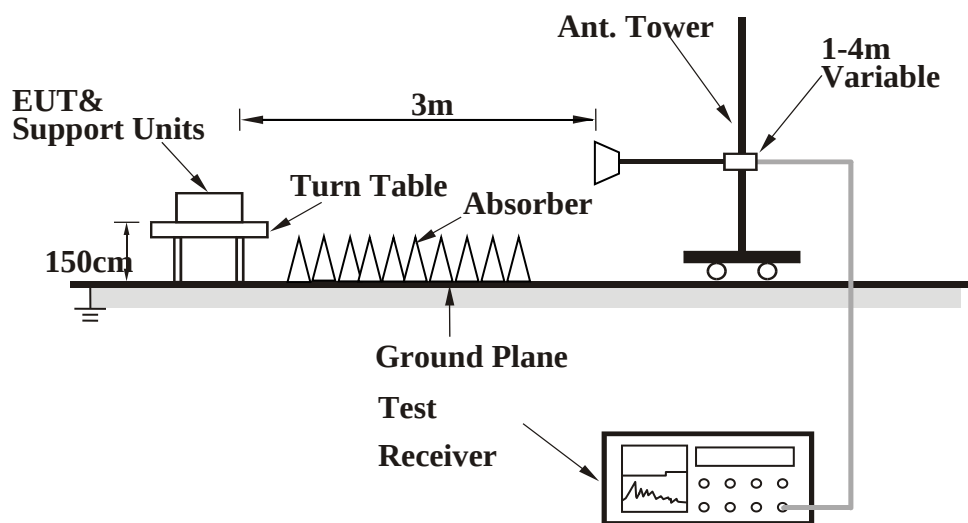
Below 30MHz Test Setup



30MHz - 1GHz Test Setup



1GHz – 10GHz Test Setup



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

4.2.6 EUT OPERATING CONDITIONS

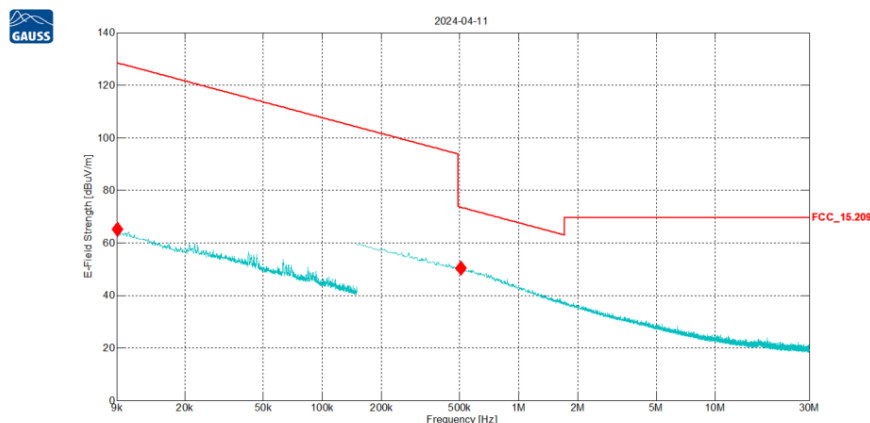
EUT was operated according to the manufacturer's specifications.

4.2.7 TEST RESULTS

Test Date: 4/11/2024, Environmental Conditions: 20.2C, 41.2% RH, 1010mbar

Below 30MHz

EUT Mode: 920MHz, 100kbps, OQPSK



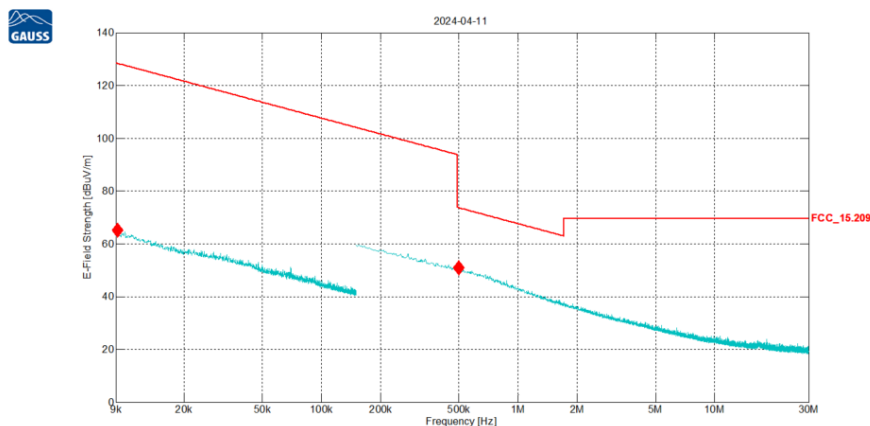
Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.1 kHz	65.08	128.41	63.34	Parallel	100	359	19.12	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
507.5 kHz	50.36	73.49	23.14	Parallel	100	71.463	10.10	FCC_15.209

0.009-0.15MHz Parallel



Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.2 kHz	65.05	128.32	63.27	Perpendicular	100	272.481	19.07	FCC_15.209

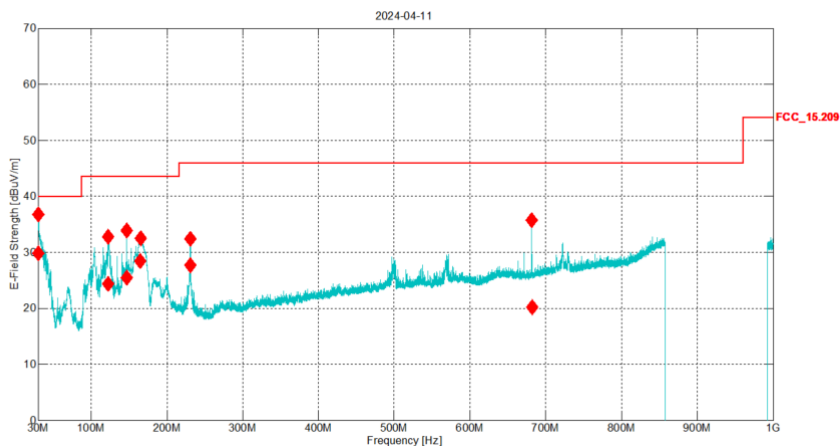
Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
500 kHz	50.80	73.62	22.82	Perpendicular	100	5.901	10.08	FCC_15.209

0.009-0.15MHz Perpendicular

30MHz-1GHz

EUT Mode: 912MHz, 100kbps, OQPSK



Scan1: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 100.0 ms MaxPeak, Att 10dB

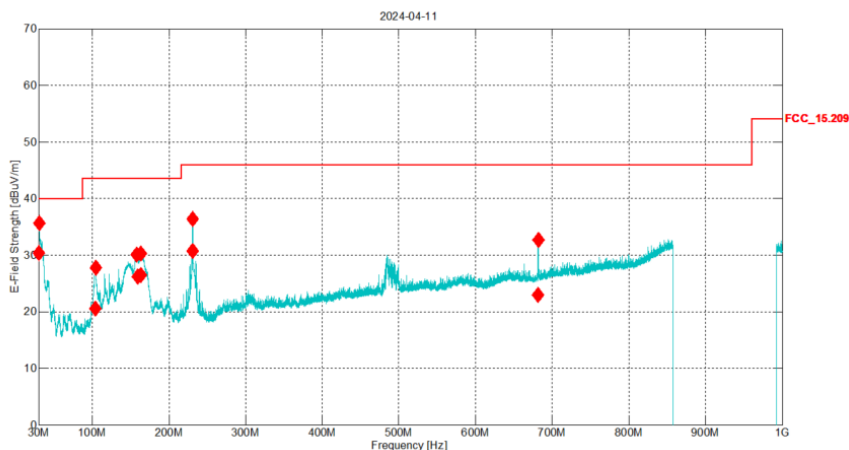
f	Mag [dBuV/m]	Polarization	Height [cm]	Angle [°]	Trans
30.575 MHz	36.72	V	100	226.272	-8.14
122.625 MHz	32.73	V	100	316.912	-15.36
146.925 MHz	33.84	V	100	42.15	-16.15
165.35 MHz	32.50	V	100	255.723	-16.97
231.325 MHz	32.32	V	100	226.272	-17.22
681.225 MHz	35.69	V	100	42.15	-6.47

Final 1: 30.0 MHz, 50.0 kHz, 683.2 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.25 MHz	29.79	40.00	10.21	V	226.272	112.356	-7.66	FCC_15.209
122.4 MHz	24.28	43.50	19.22	V	316.912	113.705	-15.53	FCC_15.209
146.875 MHz	25.42	43.50	18.08	V	42.15	100.011	-16.08	FCC_15.209
165.125 MHz	28.40	43.50	15.10	V	255.723	100	-16.76	FCC_15.209
231.25 MHz	27.68	46.00	18.32	V	226.272	100	-17.30	FCC_15.209
682.25 MHz	20.11	46.00	25.89	V	42.15	165	-6.51	FCC_15.209

30MHz – 1GHz Vertical

Note: No emissions detected in notch filter range.



Scan1: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Polarization	Height [cm]	Angle [°]	Trans
30.9 MHz	35.62	H	100	273.192	-8.39
104.65 MHz	27.76	H	200	315.268	-18.12
158 MHz	30.02	H	200	114.006	-16.62
163.225 MHz	30.19	H	200	247.969	-16.75
231.275 MHz	36.38	H	100	296.255	-17.22
682.05 MHz	32.61	H	100	191.339	-6.46

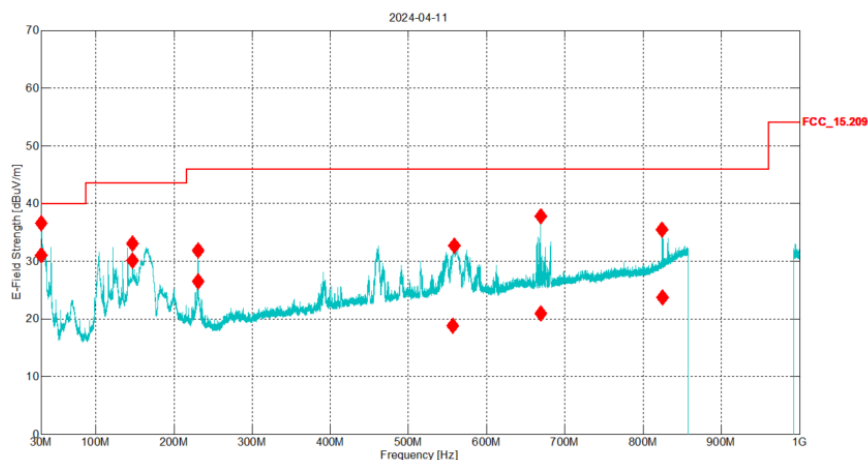
Final 1: 30.0 MHz, 50.0 kHz, 684.0 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.5 MHz	30.36	40.00	9.64	H	273.192	158.1	-7.66	FCC_15.209
104 MHz	20.55	43.50	22.95	H	315.268	187.05	-18.66	FCC_15.209
159.1 MHz	26.12	43.50	17.38	H	114.006	164	-16.51	FCC_15.209
163.575 MHz	26.41	43.50	17.09	H	247.969	227.944	-16.73	FCC_15.209
231.2 MHz	30.66	46.00	15.34	H	296.255	142.3	-17.31	FCC_15.209
681.9 MHz	22.91	46.00	23.09	H	191.339	181.525	-6.49	FCC_15.209

30MHz-1GHz Horizontal

Note: No emissions detected in notch filter range.

EUT Mode: 920MHz, 100kbps, OQPSK



Scan1: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Polarization	Height [cm]	Angle [°]	Trans
30.65 MHz	36.53	V	100	215.706	-8.20
147.125 MHz	32.98	V	100	3.056	-16.16
231.1 MHz	31.83	V	100	204.19	-17.23
558.4 MHz	32.62	V	200	360	-8.95
669.3 MHz	37.76	V	300	0	-6.63
824.425 MHz	35.39	V	300	0	-2.71

Final 1: 30.0 MHz, 50.0 kHz, 826.4 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.5 MHz	31.00	40.00	9.00	V	215.706	166.1	-7.66	FCC_15.209
146.95 MHz	30.05	43.50	13.45	V	3.056	132.04	-16.09	FCC_15.209
231.2 MHz	26.44	46.00	19.56	V	204.19	100.567	-17.33	FCC_15.209
556.4 MHz	18.74	46.00	27.26	V	360	243.125	-9.09	FCC_15.209
669.3 MHz	20.84	46.00	25.16	V	0	315.2	-6.64	FCC_15.209
825 MHz	23.65	46.00	22.35	V	0	199.956	-2.82	FCC_15.209

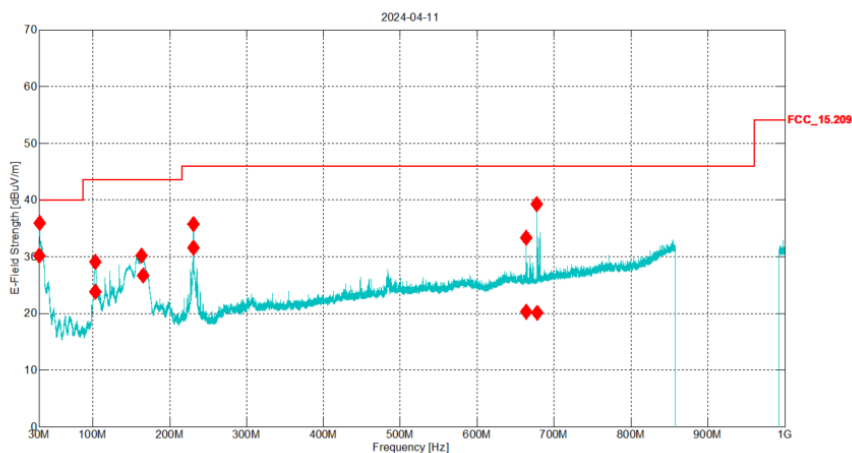
30MHz – 1GHz Vertical

Note: No emissions detected in notch filter range.



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



Scan1: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Polarization	Height [cm]	Angle [°]	Trans
30.9 MHz	35.87	H	100	55.397	-8.39
103.35 MHz	29.04	H	200	121.584	-18.50
163.675 MHz	30.18	H	200	285.458	-16.80
231.175 MHz	35.69	H	100	133.684	-17.23
663.875 MHz	33.28	H	100	328.67	-6.61
677.575 MHz	39.18	H	100	321.376	-6.53

Final 1: 30.0 MHz, 50.0 kHz, 679.6 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

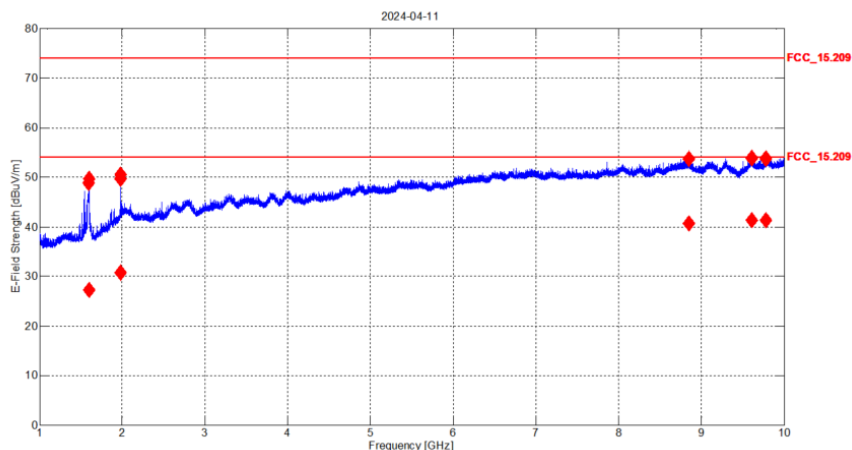
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.325 MHz	30.15	40.00	9.85	H	55.397	103.178	-7.66	FCC_15.209
103.55 MHz	23.72	43.50	19.78	H	121.584	188.111	-18.94	FCC_15.209
165.275 MHz	26.61	43.50	16.89	H	285.458	208.553	-16.73	FCC_15.209
231.2 MHz	31.57	46.00	14.43	H	133.684	140.8	-17.32	FCC_15.209
663.9 MHz	20.25	46.00	25.75	H	328.67	135.1	-6.51	FCC_15.209
677.925 MHz	20.02	46.00	25.98	H	321.376	165.25	-6.55	FCC_15.209

30MHz-1GHz Horizontal

Note: No emissions detected in notch filter range.

Emissions above 1GHz

EUT Mode: 912MHz, 100kbps, OQPSK



Final 1: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.59525 GHz	48.82	74.00	25.18	V	212.358	226.2	-10.00	FCC_15.209
1.9785 GHz	50.49	74.00	23.51	V	219.35	100	-5.79	FCC_15.209
8.849 GHz	53.75	74.00	20.25	V	71.762	199.809	4.78	FCC_15.209
9.6085 GHz	53.83	74.00	20.17	V	217.561	400.05	4.96	FCC_15.209
9.7835 GHz	53.72	74.00	20.28	V	344.405	140.57	3.93	FCC_15.209

Final 2: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

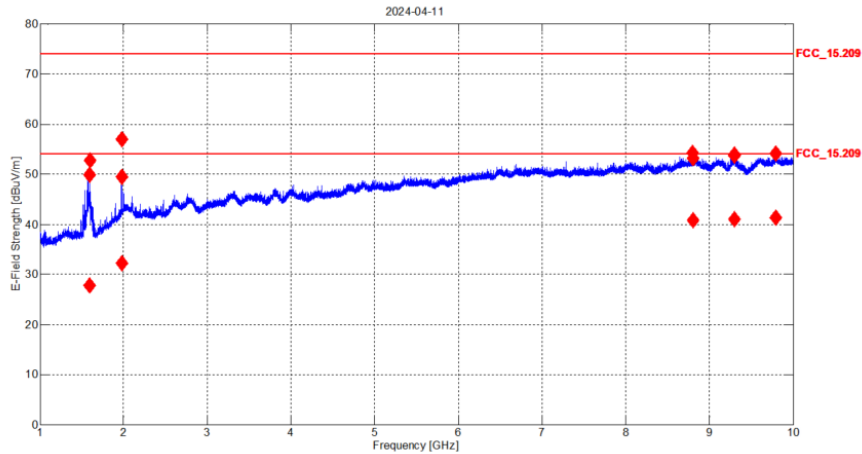
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.5955 GHz	27.24	54.00	26.76	V	212.358	163.875	-10.00	FCC_15.209
1.978 GHz	30.77	54.00	23.23	V	219.35	100	-5.79	FCC_15.209
8.84875 GHz	40.73	54.00	13.27	V	71.762	100	4.78	FCC_15.209
9.60925 GHz	41.30	54.00	12.70	V	217.561	200	4.96	FCC_15.209
9.7835 GHz	41.33	54.00	12.67	V	344.405	176.451	3.93	FCC_15.209

1-10GHz Vertical



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



Final 1: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

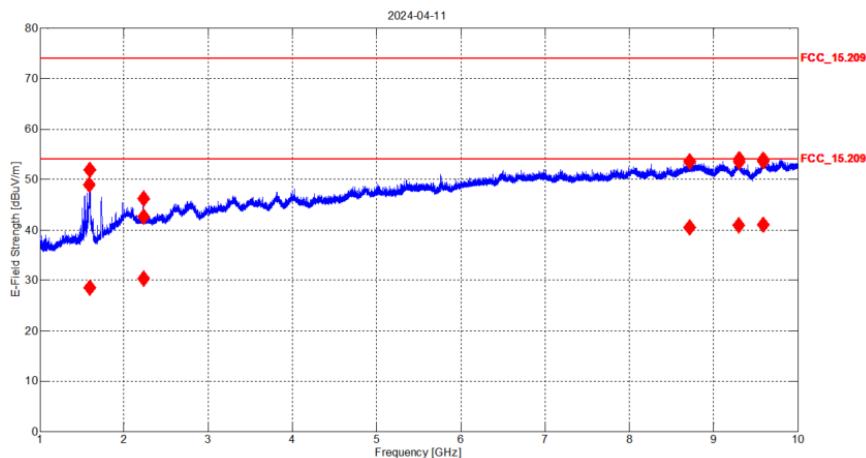
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.59675 GHz	52.76	74.00	21.24	H	282.075	230.612	-10.01	FCC_15.209
1.97675 GHz	56.94	74.00	17.06	H	64.425	269.526	-5.83	FCC_15.209
8.80425 GHz	53.14	74.00	20.86	H	0	224.952	4.82	FCC_15.209
9.30075 GHz	53.70	74.00	20.30	H	360	165.905	5.02	FCC_15.209
9.7915 GHz	54.13	74.00	19.87	H	8.106	122.397	3.99	FCC_15.209

Final 2: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.59425 GHz	27.78	54.00	26.22	H	282.075	230.612	-10.01	FCC_15.209
1.978 GHz	32.27	54.00	21.73	H	64.425	188.304	-5.83	FCC_15.209
8.80425 GHz	40.76	54.00	13.24	H	0	100	4.82	FCC_15.209
9.298 GHz	40.98	54.00	13.02	H	360	168.811	5.02	FCC_15.209
9.79475 GHz	41.34	54.00	12.66	H	8.106	100	3.99	FCC_15.209

1-10GHz Horizontal

EUT Mode: 920MHz, 100kbps, OQPSK



Final 1: 1.6 GHz, 50.0 kHz, 9.6 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.5895 GHz	51.91	74.00	22.09	V	280.275	296.325	-10.03	FCC_15.209
2.231 GHz	42.64	74.00	31.36	V	174.725	313.575	-6.58	FCC_15.209
8.71675 GHz	53.46	74.00	20.54	V	273.023	180.105	4.28	FCC_15.209
9.30425 GHz	53.54	74.00	20.46	V	0	284.269	5.02	FCC_15.209
9.5945 GHz	53.55	74.00	20.45	V	281.047	179.789	4.92	FCC_15.209

Final 2: 1.6 GHz, 50.0 kHz, 9.6 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

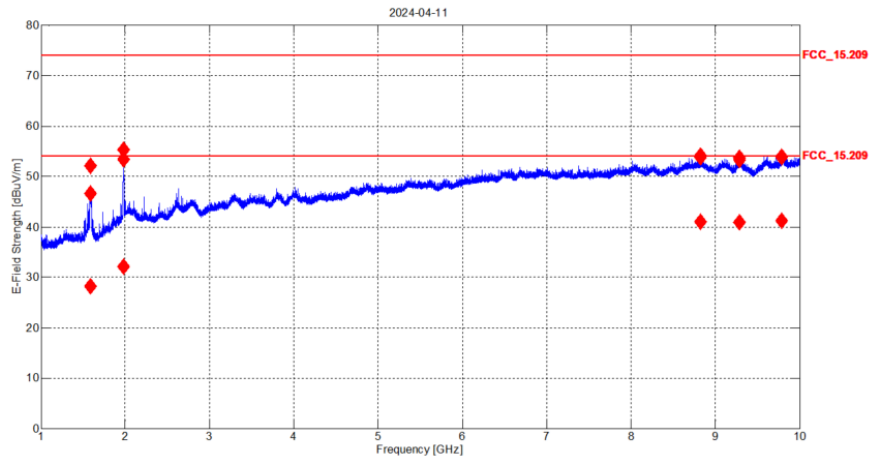
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.5895 GHz	28.56	54.00	25.44	V	280.275	296.325	-10.03	FCC_15.209
2.231 GHz	30.30	54.00	23.70	V	174.725	217.307	-6.58	FCC_15.209
8.71675 GHz	40.53	54.00	13.47	V	273.023	191.119	4.28	FCC_15.209
9.3015 GHz	40.89	54.00	13.11	V	0	200	5.02	FCC_15.209
9.5905 GHz	41.04	54.00	12.96	V	281.047	200	4.92	FCC_15.209

1-10GHz Vertical



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



Final 1: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.583 GHz	52.16	74.00	21.84	H	341.674	200	-10.04	FCC_15.209
1.9795 GHz	55.30	74.00	18.70	H	29.451	243.517	-5.76	FCC_15.209
8.82225 GHz	54.08	74.00	19.92	H	72.15	174.065	4.84	FCC_15.209
9.28675 GHz	53.32	74.00	20.68	H	80.4	182.635	4.93	FCC_15.209
9.78875 GHz	53.85	74.00	20.15	H	267.775	199.492	3.97	FCC_15.209

Final 2: 1.6 GHz, 50.0 kHz, 9.8 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
1.583 GHz	28.22	54.00	25.78	H	341.674	215.792	-10.04	FCC_15.209
1.9775 GHz	32.13	54.00	21.87	H	29.451	243.517	-5.76	FCC_15.209
8.82225 GHz	41.06	54.00	12.94	H	72.15	122.937	4.84	FCC_15.209
9.2875 GHz	40.89	54.00	13.11	H	80.4	185.835	4.93	FCC_15.209
9.7875 GHz	41.22	54.00	12.78	H	267.775	100	3.97	FCC_15.209

1-10GHz Horizontal

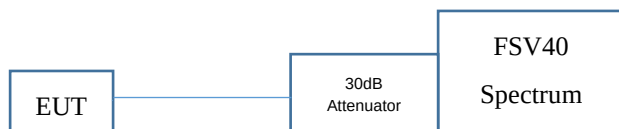


4.3 6dB CHANNEL BANDWIDTH & 99% OBW

4.3.1 LIMITS

The minimum 6 dB bandwidth shall be 500 kHz.

4.3.2 TEST SETUP



4.3.3 TEST EQUIPMENT USED

Rev. 4/17/2024								
Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
FSV40 Spectrum Analyzer	10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200	I	10/9/2024	10/9/2023
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2595	9KHz-40GHz		Carlisle			II	2/17/2025	2/17/2024
Attenuators	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	II	2/16/2025	2/16/2024
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	2E+08	2657	I	8/18/2025	8/18/2022
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.								

Test Date: 04/12/2024

Environmental Conditions: 20.4C, 41.5%, 1008mbar

4.3.4 TEST PROCEDURES

6dB CHANNEL BANDWIDTH

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) ≥ 3 RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

99% OBW

- a. The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d. Step a) through step c) might require iteration to adjust within the specified range.
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

4.3.5 DEVIATIONS

No deviations from the standard.

4.3.6 EUT OPERATING CONDITIONS

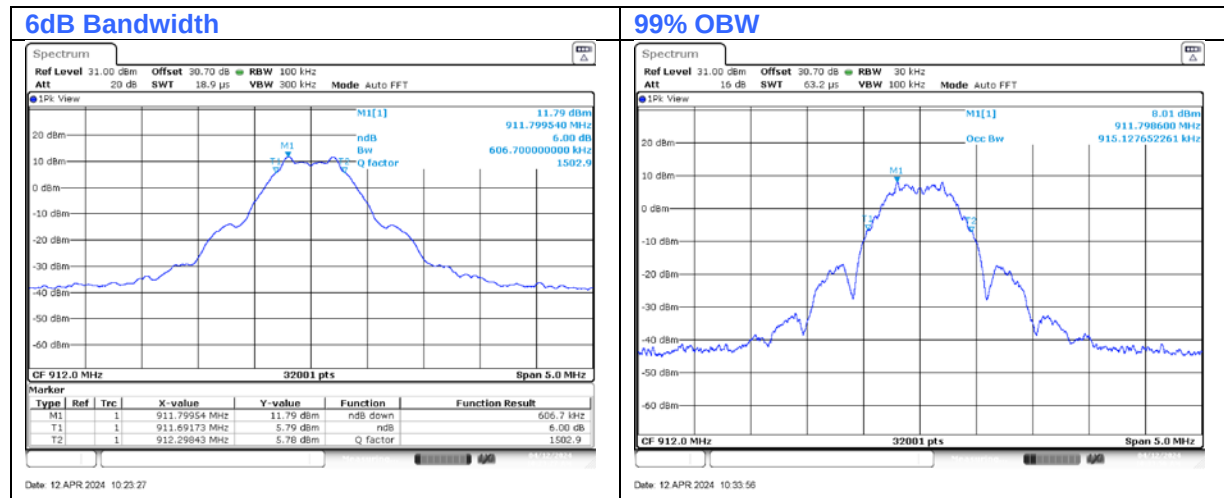
EUT was operated according to manufacturer's specifications.

4.3.7 TEST RESULTS

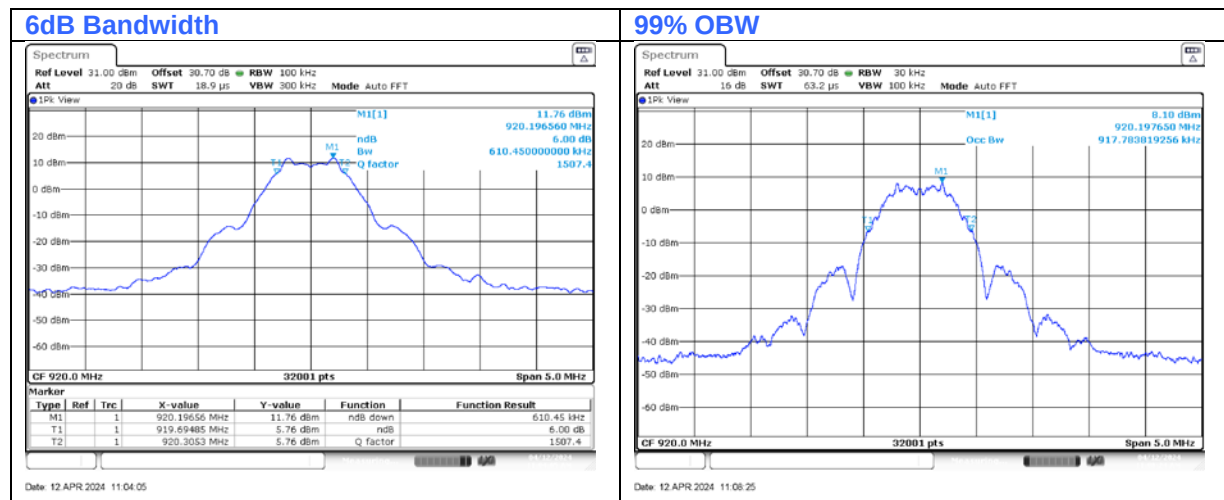
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (kHz)	99% OBW (kHz)	PASS / FAIL
912	606.70	915.13	Pass
920	610.45	917.78	Pass

Note: All insertion losses in the measurement are included in the reference level offset to the spectrum analyzer.

912MHz



920MHz





4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.4.2 TEST SETUP

Refer to section 4.3.2.

4.4.3 TEST EQUIPMENT USED

Refer to section 4.3.3.

4.4.4 TEST PROCEDURES

Peak conducted output power was measured in accordance with ANSI C63.10 - 2013 Section 11.9.1.1 (RBW $\geq$ DTS bandwidth).

4.4.5 DEVIATIONS

No deviations from the standard.

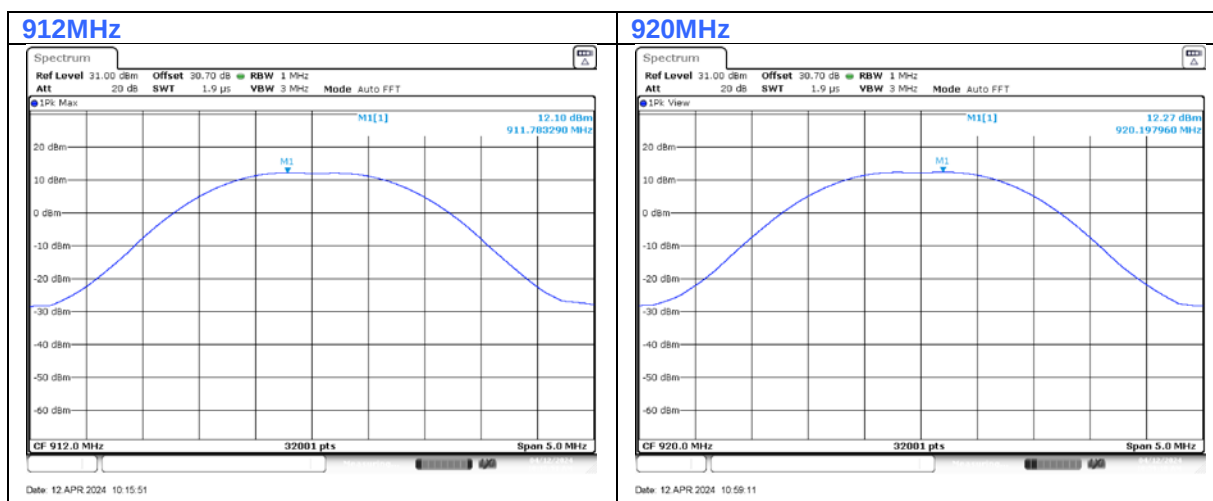
4.4.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications

4.4.7 TEST RESULTS

CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
912	12.10	16.2	1	Pass
920	12.27	16.9	1	Pass

Note: All insertion losses in the measurement are included in the reference level offset to the spectrum analyzer.



4.5 POWER SPECTRAL DENSITY

4.5.1 LIMITS

The limit for Power Spectral Density is 8dBm/3KHz.

4.5.2 TEST SETUP

Refer to section 4.3.2.

4.5.3 TEST EQUIPMENT USED

Refer to section 4.3.3.

4.5.4 TEST PROCEDURES

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATIONS

No deviations from the standard.

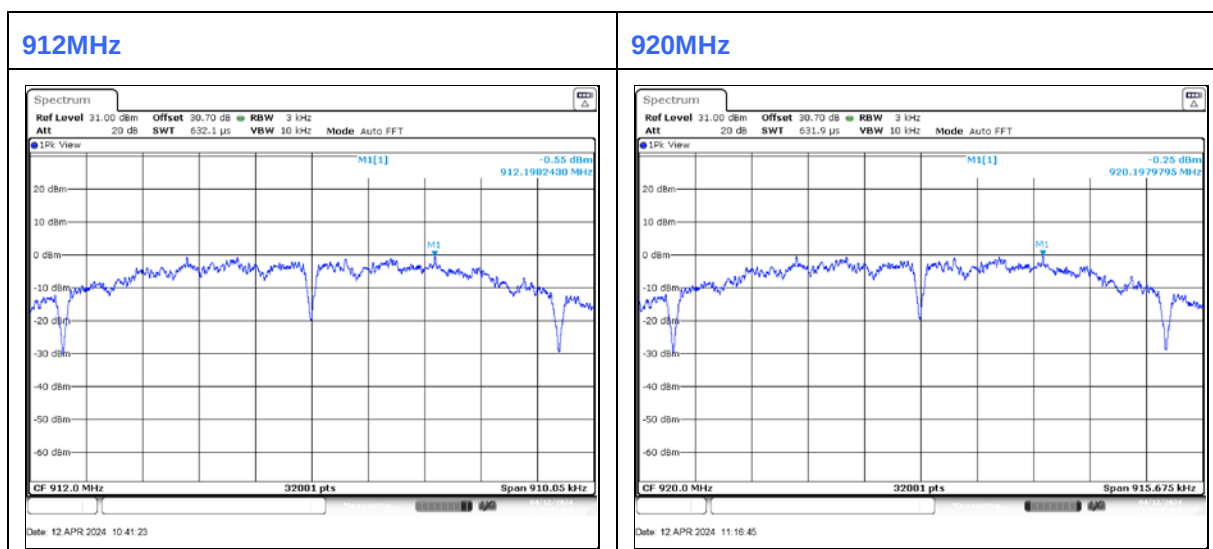
4.5.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.

4.5.7 TEST RESULTS

FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
912	-0.55	8	Pass
920	-0.25	8	Pass

Note: All insertion losses in the measurement are included in the reference level offset to the spectrum analyzer.





4.6 CONDUCTED SPURIOUS EMISSIONS AND BAND-EDGES

4.6.1 LIMITS

20dB below the highest emission level in the operating band (in 100kHz RBW).

4.6.2 TEST SETUP

Refer to section 4.3.2.

4.6.3 TEST EQUIPMENT USED

Refer to section 4.3.3.

4.6.4 TEST PROCEDURES

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.6.5 DEVIATIONS

No deviations from the standard.

4.6.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.

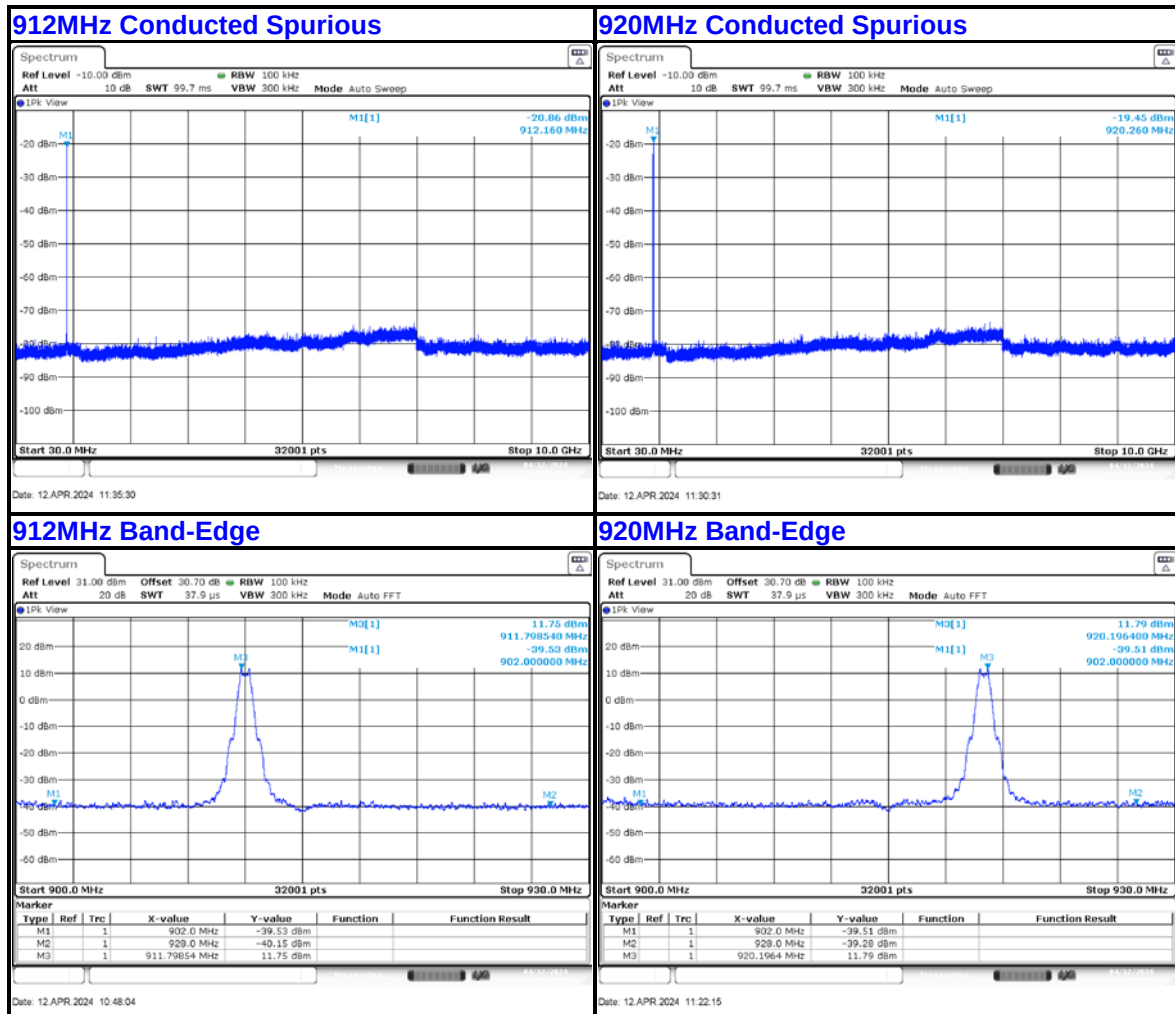


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Test Report for Yardi Systems Inc.
Report No. EX0965-3 Issue 3



4.6.7 TEST RESULTS





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---