

EMC-TRF-01 Rev 1.1

Report No.: GZCR220600084708 Page: 1 of 23 FCC ID: 2AVEEGHA02

TEST REPORT

Application No.:	GZCR2404000421LM
Applicant:	Gardyn Inc
Address of Applicant:	8120 Woodmont Avenue, Suite #640, Bethesda, MD 20814, U.S.A.
Manufacturer:	Gardyn Inc
Address of Manufacturer:	8120 Woodmont Avenue, Suite #640, Bethesda, MD 20814, U.S.A.
Factory:	VS Industry Berhad
Address of Factory:	PTD 90370 (Lot 76803 PLO 161 & 162), Jalan Murni 12, Kawasan Perindustrian Murni, 81400 Senai, Johor Darul Takzim, Malaysia
Product Name:	Gardyn Home, Gardyn Studio
Model No.:	Gardyn Home: GH-A02, GH A02,
	Gardyn Studio: GS A02 🔹
Trade Mark:	Gardyn
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-04-25
Date of Test:	2024-04-29 to 2024-05-06
Date of Issue:	2024-06-06
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

2) day Lin

Ricky Liu



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Revision Record				
Version	Report No.	Date	Remark	
01	GZCR220600084702	2022-09-08	Original	
02	GZCR220600084705	2023-12-18	Copy report: Updated manufacturer's information, factory's information; Added trademark; Alternative seals, new version (Rev 1.5) of control PCB, pump and updated LED stripe.	
03	GZCR220600084708	2024-06-06	Amendment report: Updated manufacturer's information; added new product name and model.	

Authorized for issue by:		
	Kevin zhang	
	Kevin Zhang/Project Engineer	
	vivo cui	
	Vico Cui/Reviewer	



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2 Test Summary

Radio Spectrum Matter Part

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions Below 1GHz	Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark for original report GZCR220600084702:

***** Declaration of EUT Family Grouping:

Model No.: GH-A02, GH A02

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name and outer decoration.

Therefore only one model GH-A02 was tested in this report.

Remark for report GZCR220600084705:

This report GZCR220600084705 is based on original report GZCR220600084702, with the follow changes:

- 1. Updated manufacturer's information, factory's information.
- 2. Added trademark to Gardyn.
- 3. Alternative a new version (Rev 1.5) of control PCB without any change in RF module;
- 4. Added a seal between the modules;
- 5. Added a seal between the first column module and the LID;
- 6. Updated the LED stripe from GH3.0(140 LEDs) to GH4.0(32 LEDs)
- 7. Alternative a new pump (B0001-01-01).

Considering to above changes, only Conducted Emissions at AC Power Line (150kHz-30MHz)

Radiated Spurious Emissions Below 1GHz were performed to both control PCBs of model GH-A02 with new components and recorded the new test results in this report GZCR220600084705.

Other tests please refer to original report GZCR220600084702 for details.



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Remark for the report GZCR220600084708:

This test report GZCR220600084708 based on and only valid with the previous test report GZCR220600084805, just with the following changes:

1. Updated manufacturer's information

2. Added new model: GS A02 with new PCBA, LED strip and 96W supply

According to the declaration of the applicant, the Model GS A02 supplemented in this report GZCR220600084708 is different from the Model in the previous report GZCR220600084805, with only the same RF module (including antenna). There are two options of control PCBA as below:

PCBA 1 = Original BOM "2Col PCBA Rev 1.1"

PCBA 2 = Using 3 alternate components:

- 1. Chip C Cap 0.1uF 50V 10% 0603 X7R, 0603B104K500CT, Walsin
- 2. MOSFET N-CH 30V 39A 8HSMT, RQ3E180GNTB, Rohm
- IC CURRENT MONITOR VSSOP-10, INA220AIDGST, Texas Instruments

Considering to the difference above, only Conducted Emissions at AC Power Line (150kHz-30MHz) Radiated Spurious Emissions Below 1GHz were performed to both control PCBs of model GS A02 and recorded the new test results in this report GZCR220600084708.

Other tests please refer to original report GZCR220600084702, GZCR220600084705 for details.



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General Information 4

4.1 Details of E.U.T.

Power supply:	DC 24 V powered by AC/DC adapter as below:
	Model: FY1802404000
	Input: AC 100-240 V, 50/60 Hz, 1.5 A, 130VA
	Output: DC 24 V, 4.0A, 96 W
Cable(s):	DC input ports for main unit
	For AC/DC adapter:
	AC mains (unshielded, 0.8 m)
	DC output cables (unshielded, 1.5m)
For BT	
Antenna Gain	1 dBi according to the antenna specification
Antenna Type	PCB Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz
For Wi-Fi	
Antenna Gain	1 dBi according to the antenna specification
Antenna Type	PCB Antenna
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	802.11b/g/n(HT20):11
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz
Remark: The information to the accuracy, suitabili	n in this section is provided by the applicant or manufacturer, SGS is not liable ity, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Remark:	

The U_{lab} (lab Uncertainty) is less than U_{ETSI} (ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-04	2024-08-03
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2023-09-08	2024-09-07
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-05-13	2025-05-12
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2023-06-14	2025-06-13
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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6 Radio Spectrum Matter Test Results

6.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Pa	n 15, Subpart C 15.207
Test Method: ANSI C63.7	10 (2013) Section 6.2

Limit:

Frequency of emission	Conducted limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	24.0 °C	Humidity:	54.4 % RH	Atmospheric Pressure:	1020	mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for PCBA 1.
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report for PCBA 1.
Final test	05	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for PCBA 2.
Final test	06	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report for PCBA 2.



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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Mode :M1 Model : Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.165	26.82	0.04	9.55	36.41	55.21	-18.80	Average
2	0.165	45.16	0.04	9.55	54.75	65.21	-10.46	QP
3	0.255	20.13	0.04	9.56	29.73	51.60	-21.87	Average
4	0.255	35.83	0.04	9.56	45.43	61.60	-16.17	QP
5	0.350	16.59	0.05	9.57	26.21	48.96	-22.75	Average
6	0.350	28.59	0.05	9.57	38.21	58.96	-20.75	QP
7	1.359	8.54	0.09	9.56	18.19	46.00	-27.81	Average
8	1.359	19.18	0.09	9.56	28.83	56.00	-27.17	QP
9	1.980	4.72	0.12	9.57	14.41	46.00	-31.59	Average
10	1.980	16.02	0.12	9.57	25.71	56.00	-30.29	QP
11	19.950	2.07	0.38	9.85	12.30	50.00	-37.70	Average
12	19.950	8.84	0.38	9.85	19.07	60.00	-40.93	QP



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Test Mode: 00 & 01; Line: Neutral Line

Mode :M1 Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	21.41	0.04	9.52	30.97	55.69	-24.72	Average
2	0.156	40.17	0.04	9.52	49.73	65.69	-15.96	QP
3	0.266	14.69	0.04	9.53	24.26	51.25	-26.99	Average
4	0.266	28.02	0.04	9.53	37.59	61.25	-23.66	QP
5	0.513	23.32	0.05	9.54	32.91	46.00	-13.09	Average
6	0.513	30.05	0.05	9.54	39.64	56.00	-16.36	QP
7	1.296	9.13	0.09	9.55	18.77	46.00	-27.23	Average
8	1.296	19.04	0.09	9.55	28.68	56.00	-27.32	QP
9	2.346	4.70	0.14	9.56	14.40	46.00	-31.60	Average
10	2.346	15.10	0.14	9.56	24.80	56.00	-31.20	QP
11	25.055	0.06	0.43	9.97	10.46	50.00	-39.54	Average
12	25.055	9.06	0.43	9.97	19.46	60.00	-40.54	QP



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Mode :M2 Model : Power :

		Read	Cable	LISN	Measured	Limit	Over	
	Frequenc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	23.05	0.04	9.55	32.64	55.78	-23.14	Average
2	0.154	37.50	0.04	9.55	47.09	65.78	-18.69	QP
3	0.252	12.75	0.04	9.56	22.35	51.69	-29.34	Average
4	0.252	25.63	0.04	9.56	35.23	61.69	-26.46	QP
5	0.513	28.95	0.05	9.56	38.56	46.00	-7.44	Average
6	0.513	31.02	0.05	9.56	40.63	56.00	-15.37	QP
7	1.060	8.06	0.07	9.57	17.70	46.00	-28.30	Average
8	1.060	17.26	0.07	9.57	26.90	56.00	-29.10	QP
9	2.012	3.13	0.13	9.57	12.83	46.00	-33.17	Average
10	2.012	13.33	0.13	9.57	23.03	56.00	-32.97	QP
11	27.127	0.28	0.44	9.87	10.59	50.00	-39.41	Average
12	27.127	8.64	0.44	9.87	18.95	60.00	-41.05	QP



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Test Mode: 05 & 06; Line: Neutral Line

Pol Mode :M2 Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	28.55	0.04	9.52	38.11	55.65	-17.54	Average
2	0.156	45.16	0.04	9.52	54.72	65.65	-10.93	QP
3	0.252	19.18	0.04	9.53	28.75	51.69	-22.94	Average
4	0.252	33.98	0.04	9.53	43.55	61.69	-18.14	QP
5	0.381	14.53	0.05	9.54	24.12	48.25	-24.13	Average
6	0.381	26.65	0.05	9.54	36.24	58.25	-22.01	QP
7	1.100	9.04	0.08	9.55	18.67	46.00	-27.33	Average
8	1.100	16.85	0.08	9.55	26.48	56.00	-29.52	QP
9	2.237	5.79	0.13	9.56	15.48	46.00	-30.52	Average
10	2.237	13.73	0.13	9.56	23.42	56.00	-32.58	QP
11	23.636	0.47	0.42	9.96	10.85	50.00	-39.15	Average
12	23.636	8.07	0.42	9.96	18.45	60.00	-41.55	QP



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6.2 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Test Distance:

ANSI 603.1	0 (2013) Section 0.4;0.5	
3 m		

Frequency (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
960-1000	500	3

6.2.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	25.3 °C	Humidity:	46.8 % RH	Atmospheric Pressure:	1008	mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for PCBA 1.
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report for PCBA 1.
Final test	05	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation for PCBA 2.
Final test	06	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report for PCBA 2.



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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Site	:	966	Chamber
Job	:		
Model	:	A1	
Power	:		
Test Mode	:		

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.881	38.94	19.53	0.39	32.80	26.06	40.00	-13.94	HORIZONTAL	QP
2	99.878	46.26	14.55	0.54	32.80	28.55	43.52	-14.97	HORIZONTAL	QP
3	150.011	40.16	19.04	0.67	32.80	27.07	43.52	-16.45	HORIZONTAL	QP
4	199.986	46.05	15.80	0.79	32.80	29.84	43.52	-13.68	HORIZONTAL	QP
5	250.301	52.11	17.62	0.88	32.80	37.81	46.02	-8.21	HORIZONTAL	QP
6	550.948	44.55	24.34	1.36	32.90	37.35	46.02	-8.67	HORIZONTAL	QP



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	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.881	51.69	19.53	0.39	32.80	38.81	40.00	-1.19	VERTICAL	QP
2	99.878	58.89	14.55	0.54	32.80	41.18	43.52	-2.34	VERTICAL	QP
3	150.011	39.07	19.04	0.67	32.80	25.98	43.52	-17.54	VERTICAL	QP
4	199.986	49.51	15.80	0.79	32.80	33.30	43.52	-10.22	VERTICAL	QP
5	250.301	50.36	17.62	0.88	32.80	36.06	46.02	-9.96	VERTICAL	QP
6	550.948	39.04	24.34	1.36	32.90	31.84	46.02	-14.18	VERTICAL	QP



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Site	:	966	Chamber
Job	:		
Model	:	A2	
Power	:		
Test Mode	:		

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.881	46.16	19.53	0.39	32.80	33.28	40.00	-6.72	HORIZONTAL	QP
2	99.878	47.40	14.55	0.54	32.80	29.69	43.52	-13.83	HORIZONTAL	QP
3	150.011	42.45	19.04	0.67	32.80	29.36	43.52	-14.16	HORIZONTAL	QP
4	199.986	49.17	15.80	0.79	32.80	32.96	43.52	-10.56	HORIZONTAL	QP
5	250.301	53.07	17.62	0.88	32.80	38.77	46.02	-7.25	HORIZONTAL	QP
6	350.477	48.21	20.29	1.07	32.80	36.77	46.02	-9.25	HORIZONTAL	QP



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Test Mode: 05 & 06; Polarity: Vertical



Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
49.881	48.84	19.53	0.39	32.80	35.96	40.00	-4.04	VERTICAL	QP
99.878	52.34	14.55	0.54	32.80	34.63	43.52	-8.89	VERTICAL	QP
150.011	44.45	19.04	0.67	32.80	31.36	43.52	-12.16	VERTICAL	QP
199.986	52.52	15.80	0.79	32.80	36.31	43.52	-7.21	VERTICAL	QP
250.301	51.10	17.62	0.88	32.80	36.80	46.02	-9.22	VERTICAL	QP
550.948	40.99	24.34	1.36	32.90	33.79	46.02	-12.23	VERTICAL	QP
	Freq MHz 49.881 99.878 150.011 199.986 250.301 550.948	Read Freq Level MHz dBuV 49.881 48.84 99.878 52.34 150.011 44.45 199.986 52.52 250.301 51.10 550.948 40.99	Read Anterna Freq Level Factor MHz dBuV dB/m 49.881 48.84 19.53 99.878 52.34 14.55 150.011 44.45 19.04 199.986 52.52 15.80 250.301 51.10 17.62 550.948 40.99 24.34	Read Anterna Cable Freq Level Factor Loss MHz dBuV dB/m dB 49.881 48.84 19.53 0.39 99.878 52.34 14.55 0.54 150.011 44.45 19.04 0.67 199.986 52.52 15.80 0.79 250.301 51.10 17.62 0.88 550.948 40.99 24.34 1.36	Read Anterna Cable Preamp Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 49.881 48.84 19.53 0.39 32.80 99.878 52.34 14.55 0.54 32.80 150.011 44.45 19.04 0.67 32.80 199.986 52.52 15.80 0.79 32.80 250.301 51.10 17.62 0.88 32.80 550.948 40.99 24.34 1.36 32.90	Read Anterna Cable Preamp Measured Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 49.881 48.84 19.53 0.39 32.80 35.96 99.878 52.34 14.55 0.54 32.80 34.63 150.011 44.45 19.04 0.67 32.80 31.36 199.986 52.52 15.80 0.79 32.80 36.31 250.301 51.10 17.62 0.88 32.80 36.80 550.948 40.99 24.34 1.36 32.90 33.79	Read Anterna Cable Preamp Measured Limit Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 49.881 48.84 19.53 0.39 32.80 35.96 40.00 99.878 52.34 14.55 0.54 32.80 34.63 43.52 150.011 44.45 19.04 0.67 32.80 31.36 43.52 199.986 52.52 15.80 0.79 32.80 36.31 43.52 250.301 51.10 17.62 0.88 32.80 36.80 46.02 550.948 40.99 24.34 1.36 32.90 33.79 46.02	Read Anterna Cable Preamp Measured Limit Over Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 49.881 48.84 19.53 0.39 32.80 35.96 40.00 -4.04 99.878 52.34 14.55 0.54 32.80 34.63 43.52 -8.89 150.011 44.45 19.04 0.67 32.80 31.36 43.52 -12.16 199.986 52.52 15.80 0.79 32.80 36.31 43.52 -7.21 250.301 51.10 17.62 0.88 32.80 36.80 46.02 -9.22 550.948 40.99 24.34 1.36 32.90 33.79 46.02 -12.23	Read Anterna Cable Preamp Measured Limit Over Pol/ Freq Level Factor Loss Factor Level Line Limit Phase MHz dBuV dB/m dB dB dBuV/m dBuV/m dB dB 49.881 48.84 19.53 0.39 32.80 35.96 40.00 -4.04 VERTICAL 99.878 52.34 14.55 0.54 32.80 34.63 43.52 -8.89 VERTICAL 150.011 44.45 19.04 0.67 32.80 31.36 43.52 -12.16 VERTICAL 199.986 52.52 15.80 0.79 32.80 36.31 43.52 -7.21 VERTICAL 250.301 51.10 17.62 0.88 32.80 36.80 46.02 -9.22 VERTICAL 550.948 40.99 24.34 1.36 32.90 33.79 46.02 -12.23 VERTICAL



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Test Setup Photo 7

Refer to Appendix - Test Setup Photo for GZCR240400042108



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EUT Constructional Details (EUT Photos) 8

Refer to External and Internal Photos for GZCR2404000421LM

- End of the Report -



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