

TEST REPORT


Application No.: GZCR2204000454AT
Applicant: Comba Telecom Ltd.
Address of Applicant: No.10 Shenzhou Road Guangzhou Science City, Guangzhou, Guangdong, China
Manufacturer: Comba Telecom Technology (Guangzhou) Ltd.
Address of Manufacturer: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, P.R. China
Factory: Comba Telecom Technology (Guangzhou) Ltd.
Address of Factory: No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, P.R. China

Equipment Under Test (EUT):
EUT Name: Multi Internal Remote Control Unit
Model No.: MIRCU-S24, MIRCU-S22 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: Comba
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2022-04-20
Date of Test: 2022-04-24 to 2022-05-11
Date of Issue: 2022-06-22

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
 EMC Laboratory Manager



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 Guangzhou Branch Technical Services Co., Ltd. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Revision Record			
Version	Report No.	Date	Remark
01	GZCR220400045401	2022-06-22	Original

Authorized for issue by:			
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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.107(a); Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4:2014	15.109(a); Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g); Class B	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.

✦ Declaration of EUT Family Grouping:

Model No.: MIRCU-S24, MIRCU-S22

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 designation, appearance and connector.

Therefore only one model **MIRCU-S24** was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 10-30V
Cable(s):	AC 120V, 60Hz powered by DC power supply refer to section 4.2 with output DC 24V (the worst case during the pretesting from DC 10-30V)
Max Internal Source:	120 MHz
Cable:	About 3m×8wires unshielded cable supplied by client for supporting test.

4.2 Description of Support Units

Description	Manufacturer	Model No.	SN/Certificate NO
Mouse	DELL	MOC5UO	G1B02ZP5
Mouse	DELL	M-WDEL1	OT0943
NoteBook	Apple	A1370	C02GR7BPDJYD
DC Power supply(EMC 0008)	Instek	PS-6010	L9905E037.11

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m
Radiated Emissions (Above 1GHz)	5.12dB (1GHz-6GHz)
Remark: 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,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

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:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **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.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **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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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-05-16	2023-05-15
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2022-03-03	2025-03-02

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Limit:
 0.15MHz-0.5MHz: 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
 0.5MHz-5MHz: 56dB(μV) quasi-peak, 46dB(μV) average
 5MHz-30MHz: 60dB(μV) quasi-peak, 50dB(μV) average
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

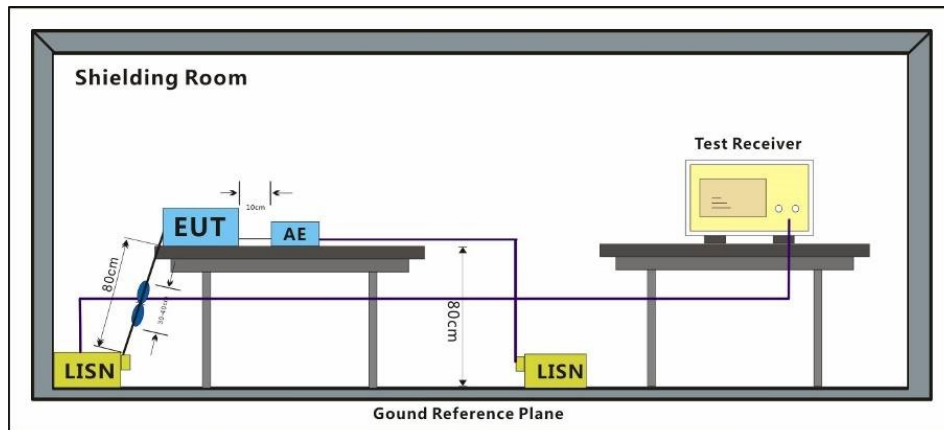
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 53.4 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Normal working with AC

6.1.3 Test Setup Diagram

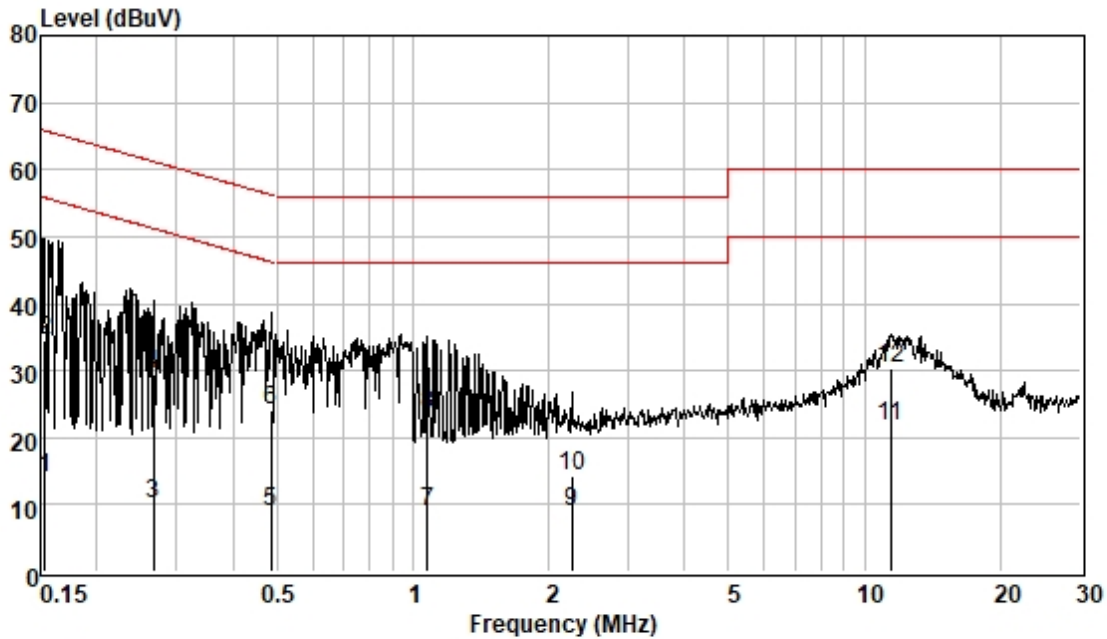


6.1.4 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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

Test Mode: 00; Line: Live line



Pol :LINE
Mode :
Model :

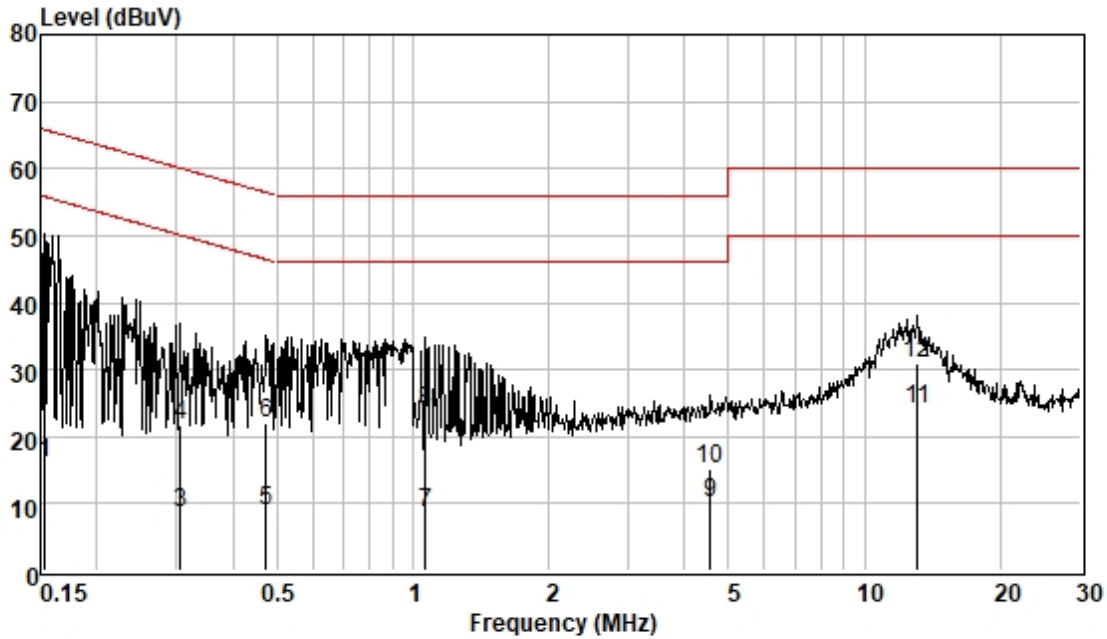
	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.153	4.36	0.06	9.54	13.96	55.82	-41.86	Average
2	0.153	24.92	0.06	9.54	34.52	65.82	-31.30	QP
3	0.267	0.52	0.06	9.57	10.15	51.20	-41.05	Average
4	0.267	19.69	0.06	9.57	29.32	61.20	-31.88	QP
5	0.486	-0.69	0.07	9.59	8.97	46.23	-37.26	Average
6	0.486	14.38	0.07	9.59	24.04	56.23	-32.19	QP
7	1.077	-0.78	0.08	9.60	8.90	46.00	-37.10	Average
8	1.077	13.95	0.08	9.60	23.63	56.00	-32.37	QP
9	2.249	-0.91	0.13	9.60	8.82	46.00	-37.18	Average
10	2.249	4.67	0.13	9.60	14.40	56.00	-41.60	QP
11	11.438	11.59	0.26	9.79	21.64	50.00	-28.36	Average
12	11.438	20.22	0.26	9.79	30.27	60.00	-29.73	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :

	Freque MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.153	6.38	0.06	9.53	15.97	55.82	-39.85	Average
2	0.153	32.27	0.06	9.53	41.86	65.82	-23.96	QP
3	0.307	-1.02	0.06	9.57	8.61	50.06	-41.45	Average
4	0.307	12.20	0.06	9.57	21.83	60.06	-38.23	QP
5	0.474	-0.74	0.07	9.58	8.91	46.45	-37.54	Average
6	0.474	12.45	0.07	9.58	22.10	56.45	-34.35	QP
7	1.065	-0.90	0.07	9.59	8.76	46.00	-37.24	Average
8	1.065	14.14	0.07	9.59	23.80	56.00	-32.20	QP
9	4.549	0.30	0.18	9.65	10.13	46.00	-35.87	Average
10	4.549	5.33	0.18	9.65	15.16	56.00	-40.84	QP
11	13.057	13.95	0.28	9.83	24.06	50.00	-25.94	Average
12	13.057	20.75	0.28	9.83	30.86	60.00	-29.14	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Limit:	Class B
Test Distance:	10m
30MHz -88MHz	29.5(dBμV/m) quasi-peak
88MHz-216MHz	33.1(dBμV/m) quasi-peak
216MHz-960MHz	35.6(dBμV/m) quasi-peak
960MHz-1000MHz	43.5(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

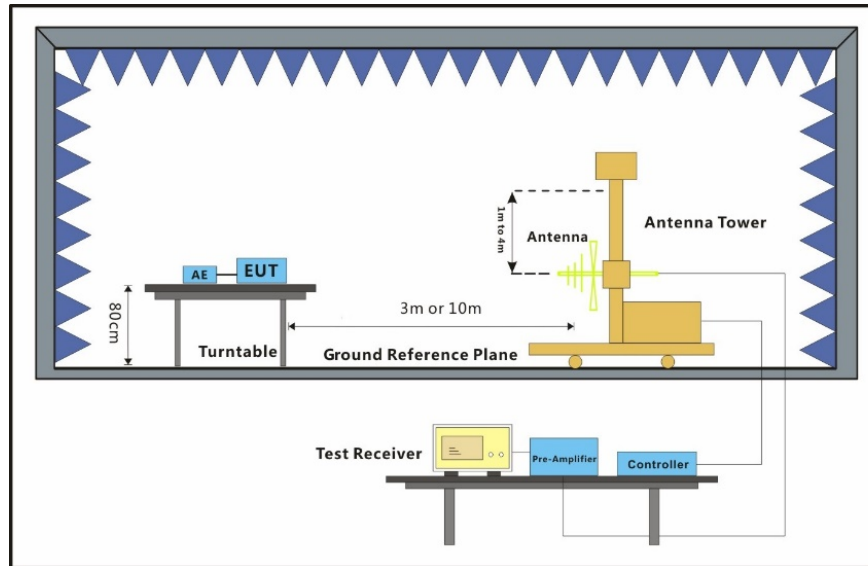
6.2.1 E.U.T. Operation

Operating Environment:			
Temperature:	24.5 °C	Humidity:	52 % RH
		Atmospheric Pressure:	1020 mbar

6.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Normal working with AC

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

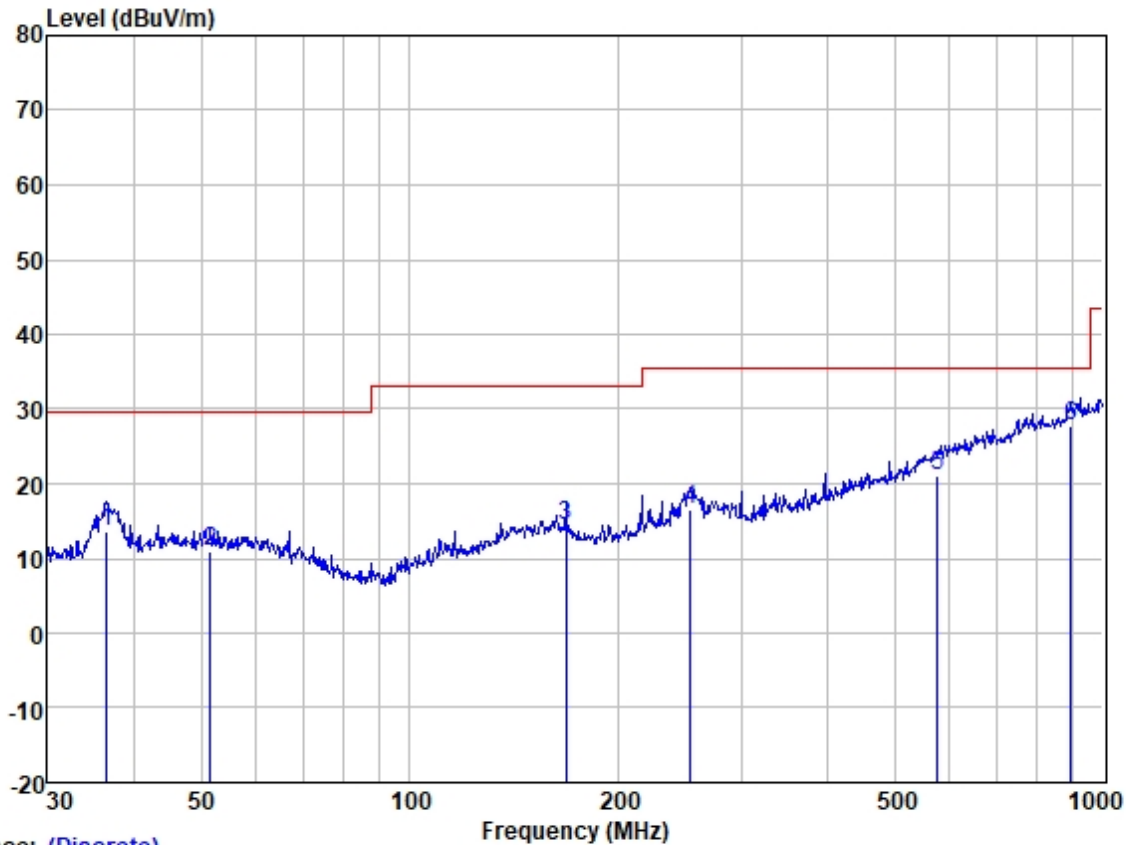
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

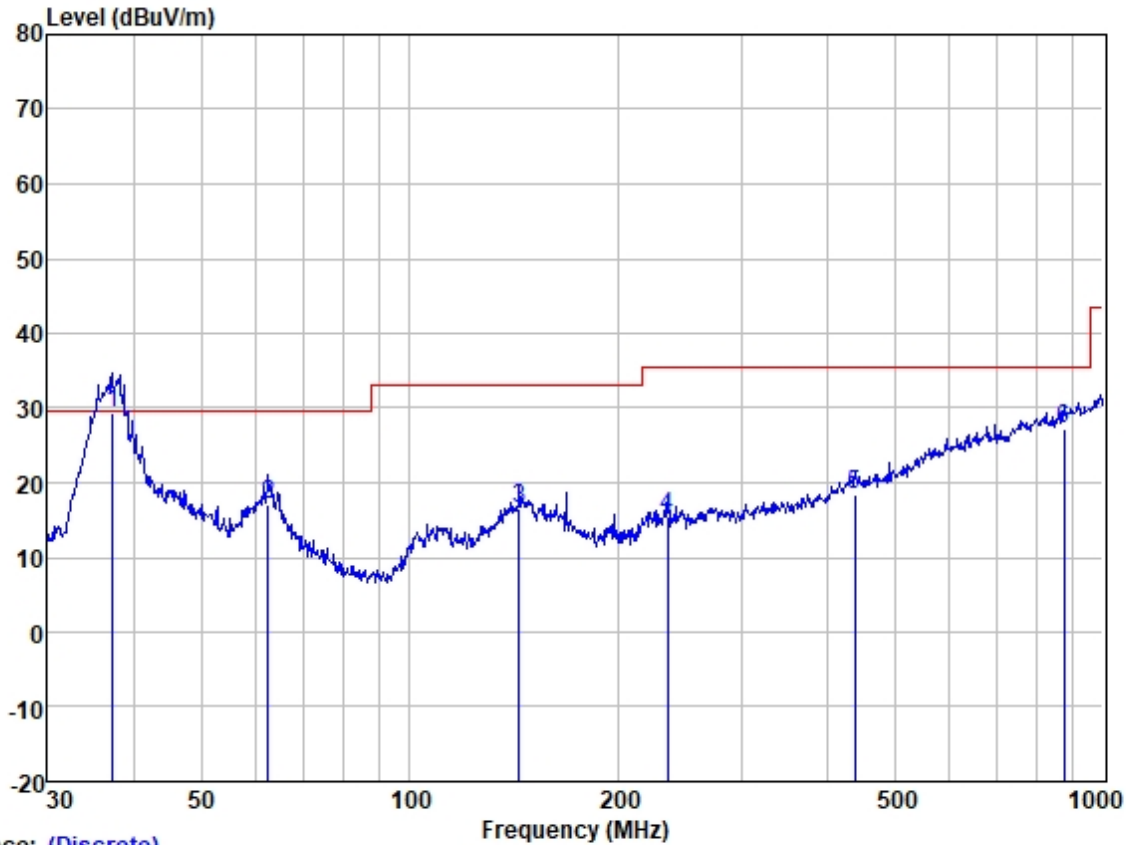
Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna 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	36.509	26.94	12.68	1.08	27.18	13.52	29.50	-15.98	HORIZONTAL	QP
2	51.481	23.45	13.59	1.16	27.17	11.03	29.50	-18.47	HORIZONTAL	QP
3	167.824	25.88	12.87	2.38	26.78	14.35	33.10	-18.75	HORIZONTAL	QP
4	253.837	28.60	11.64	2.94	26.61	16.57	35.60	-19.03	HORIZONTAL	QP
5	576.644	25.28	19.08	5.02	28.18	21.20	35.60	-14.40	HORIZONTAL	QP
6	896.997	25.46	23.25	6.92	27.85	27.78	35.60	-7.82	HORIZONTAL	QP



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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna 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	37.286	42.70	12.76	1.08	27.18	29.36	29.50	-0.14	VERTICAL	QP
2	62.431	30.24	12.56	1.30	27.15	16.95	29.50	-12.55	VERTICAL	QP
3	143.830	28.05	13.10	2.15	26.88	16.42	33.10	-16.68	VERTICAL	QP
4	234.991	28.43	10.94	2.76	26.67	15.46	35.60	-20.14	VERTICAL	QP
5	438.655	25.32	16.55	4.13	27.56	18.44	35.60	-17.16	VERTICAL	QP
6	878.322	25.41	22.80	6.79	27.88	27.12	35.60	-8.48	VERTICAL	QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Limit:
 Class B
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

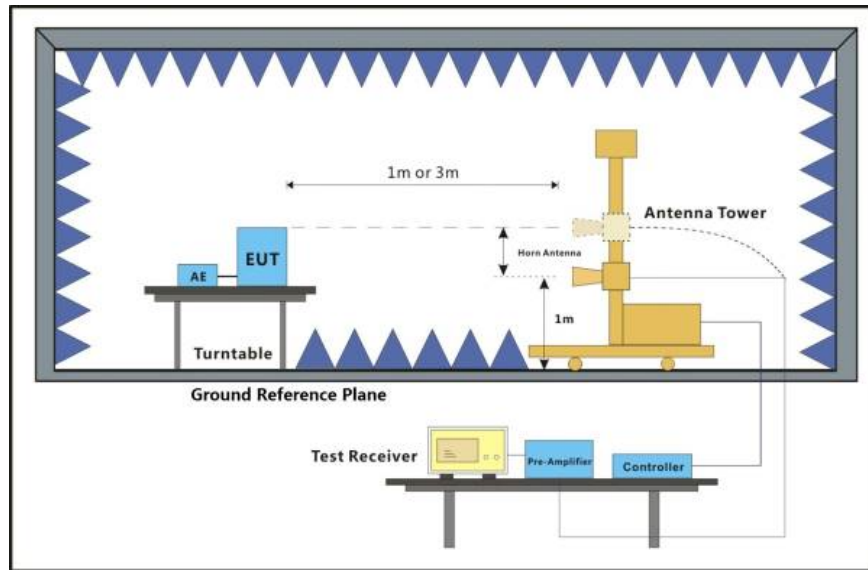
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 61.6 % RH Atmospheric Pressure: 1005 mbar

6.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Normal working with AC

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

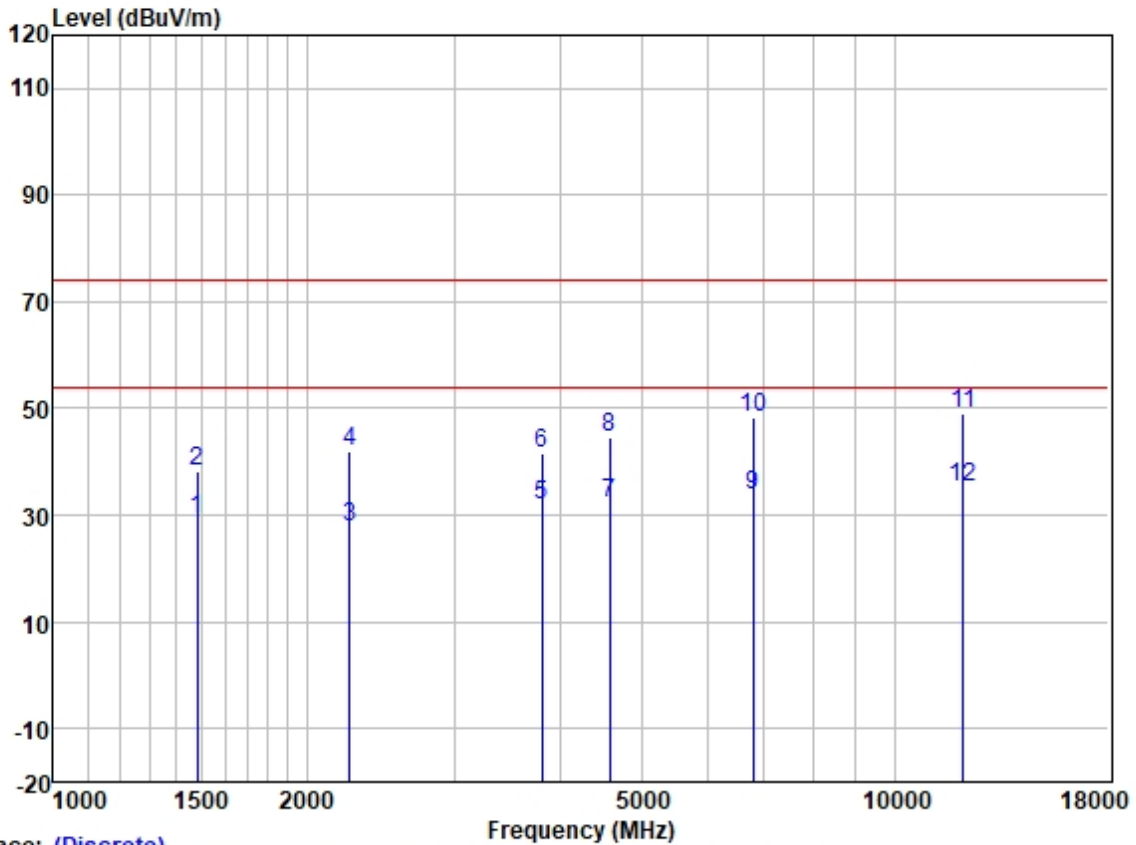
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal



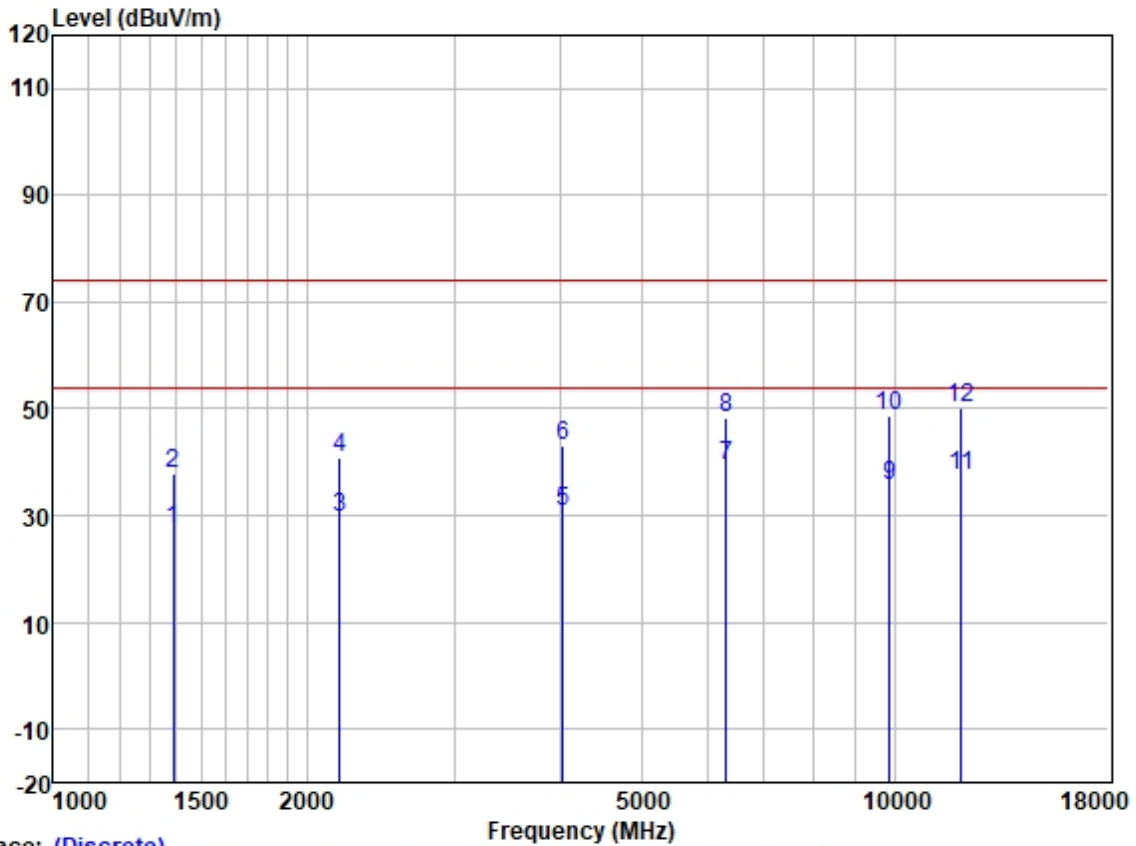
Trace: (Discrete)

	Freq	ReadAntenna Level	Cable Preamp	Limit	Over	Pol/Phase	Remark		
	MHz	dBuV	dB/m	Loss	Factor	Level	dBuV/m	dB	
1	1481.553	38.27	25.48	2.86	37.47	29.14	54.00	-24.86	HORIZONTAL Average
2	1481.553	47.32	25.48	2.86	37.47	38.19	74.00	-35.81	HORIZONTAL Peak
3	2252.846	32.21	26.92	5.95	37.16	27.92	54.00	-26.08	HORIZONTAL Average
4	2252.846	46.36	26.92	5.95	37.16	42.07	74.00	-31.93	HORIZONTAL Peak
5	3812.336	34.26	29.55	4.59	36.63	31.77	54.00	-22.23	HORIZONTAL Average
6	3812.336	44.24	29.55	4.59	36.63	41.75	74.00	-32.25	HORIZONTAL Peak
7	4586.999	32.79	30.93	5.29	36.62	32.39	54.00	-21.61	HORIZONTAL Average
8	4586.999	45.17	30.93	5.29	36.62	44.77	74.00	-29.23	HORIZONTAL Peak
9	6795.879	29.45	34.66	6.34	36.73	33.72	54.00	-20.28	HORIZONTAL Average
10	6795.879	43.93	34.66	6.34	36.73	48.20	74.00	-25.80	HORIZONTAL Peak
11	12079.390	38.53	38.85	8.60	36.76	49.22	74.00	-24.78	HORIZONTAL Peak
12	12079.390	24.38	38.85	8.60	36.76	35.07	54.00	-18.93	HORIZONTAL Average



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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1390.276	36.92	25.38	2.77	37.54	27.53	54.00	-26.47	VERTICAL Average
2	1390.276	47.35	25.38	2.77	37.54	37.96	74.00	-36.04	VERTICAL Peak
3	2188.663	33.69	26.56	6.41	37.17	29.49	54.00	-24.51	VERTICAL Average
4	2188.663	45.23	26.56	6.41	37.17	41.03	74.00	-32.97	VERTICAL Peak
5	4039.212	32.38	29.85	5.27	36.60	30.90	54.00	-23.10	VERTICAL Average
6	4039.212	44.58	29.85	5.27	36.60	43.10	74.00	-30.90	VERTICAL Peak
7	6303.890	36.28	33.44	6.20	36.71	39.21	54.00	-14.79	VERTICAL Average
8	6303.890	45.22	33.44	6.20	36.71	48.15	74.00	-25.85	VERTICAL Peak
9	9866.789	27.20	38.60	6.96	37.19	35.57	54.00	-18.43	VERTICAL Average
10	9866.789	40.48	38.60	6.96	37.19	48.85	74.00	-25.15	VERTICAL Peak
11	12009.760	27.09	38.90	8.47	36.79	37.67	54.00	-16.33	VERTICAL Average
12	12009.760	39.77	38.90	8.47	36.79	50.35	74.00	-23.65	VERTICAL Peak



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7 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR220400045401



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2204000454AT

- End of the Report -



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