

Report No.: GZCR210902103602

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TEST REPORT

Application No.: GZCR2109021036AT

Applicant: Traxxas LP

Address of Applicant: 6250 Traxxas Way Mckinney, Texas, 75070, USA

Manufacturer: Hi-Fortune Health Products Co., Ltd

Address of Manufacturer: No.301, Qinhe Road, Zhangpu Town, Kunshan City, Jiangsu

Factory: Hi-Fortune Health Products Co., Ltd

Address of Factory: No.301, Qinhe, Road, ZhangPu Town, Kunshan City, Jiangsu.

Equipment Under Test (EUT):

EUT Name: EZ-Peak Live Dual

Model No.: 2973
Trade mark: Traxxas

Standard(s): 47 CFR Part 15, Subpart C 15.225

Date of Receipt: 2021-09-01

Date of Test: 2021-09-02 to 2021-09-08

Date of Issue: 2021-09-10

Test Result: Pass*

Kobe Jian EMC Laboratory Manager



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



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	Revision Record						
Version	Version Chapter Date Modifier Remark						
01	01 2021-09-10			Original			

Authorized for issue by		
	Cof Vlu	
	Curry Wu /Project Engineer	-
	Riday Liu	
	Ricky Liu/Reviewer	-



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2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass			
Conducted Emissions at Mains Terminals (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
Emission Mask	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass			
Frequency tolerance	Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass			
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass			
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 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.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC100-240V, 50/60Hz

Test Voltage: AC 120V, 60Hz Antenna Type Loop Antenna

Channel Spacing N/A
Modulation Type ASK
Number of Channels 1

Operation Frequency 13.56MHz Function: 13.56MHz RFID

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.		
The EUT has been tested as an independent unit.					

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
20dB Bandwidth	± 3%		
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.12dB		
Emission Mask	± 4.5dB (Below 1GHz)		
Frequency tolerance	± 3%		
Radiated Emissions (30MHz-1GHz)	±5.06dB (3m); ±4.46dB (10m)		
Radiated Emissions (9kHz-30MHz)	± 4.5dB (Below 1GHz)		



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

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

No tests were sub-contracted.

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.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions



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5 Equipment List

20dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01	

Conducted Emissions at Mains Terminals (150kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A		
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06		
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24		
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08		
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A		
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31		

Emission Mask					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

Frequency tolerance						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16	
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14	
MI CABLE	SGS-EMC	M8.0	EMC2136	2019-11-02	2021-11-01	
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2021-07-04	2022-07-03	



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Radiated Emissions (30MHz-1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08			
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22			
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18			
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25			

Radiated Emissions (9kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08		
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18		
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26		
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19		
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A		
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25		

General used equipmen	nt				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

Operating Environment:

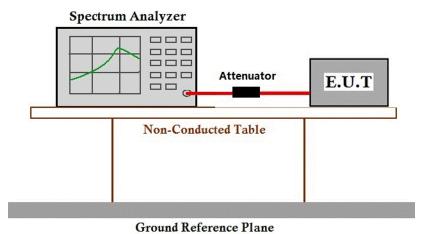
Temperature: 22.9 °C Humidity: 51.3 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Mode Pre-scan / **Description** Final test Code

TX mode with modulation in antenna 1 Final test 02 Final test 03 TX mode with modulation in antenna 2

7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

Remark: The setting of RBW was the minimum for the spectrum.

Cable Loss= 0.9dB

Antenna 1:

erating frequency	20dB Bandwidtl	h Limit	Result
13.560 MHz	0.855 kHz		Pass
Keysight Spectrum Analyzer - Oc IXI RL RF 50 Q Center Freq 13.5598	AC SENSE	: 13.559850 MHz Radio Std un Avg Hold: 10/10 B Radio Dev	rice: BTS
10 dB/div Ref -25.0 -35.0 -45.0 -56.0	00 dBm		09 dBm Clear Write
-65.0 -75.0 -85.0 -95.0			Average
Center 13.56 MHz #Res BW 300 Hz	#VBW	Sp 1 1 kHz Sweep	Max Hold pan 2 kHz 21.13 ms Min Hold
Occupied Band	width 726 Hz	otal Power -35.7 dBm	Detector Peak▶
Transmit Freq En		6 of OBW Power 99.00 % dB -20.00 dB	Auto <u>Man</u>
MSG		STATUS	



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Antenna 2:

rating frequency	20dB Bandwid	dth	Limit			Resu
13.560 MHz	0.856 kHz					Pas
Keysight Spectrum Analyzer - Occ	AC S		ALIGN OFF	11:20:17 Al Radio Std: Radio Dev		Trace/Detector
10 dB/div Ref -25.0 Log 35.0 -45.0 -66.0	00 dBm					Clear Writ
-76 0 -86 0 -96 0 -105						Averag Max Hol
Center 13.56 MHz #Res BW 300 Hz	#V	BW 1 kHz		Sp Sweep	an 2 kHz 21.13 ms	Min Hol
Occupied Band	727 Hz	Total Power	-38.3			Detecto Peak Auto Ma
Transmit Freq Err x dB Bandwidth	or -13 Hz 856 Hz	% of OBW Pov x dB		.00 % 00 dB		Auto <u>Ma</u>
MSG			STATUS			



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

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

Limit:

5 (411)	Limit (dBuV)				
Frequency range (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.

7.2.1 E.U.T. Operation

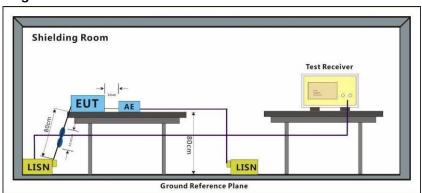
Operating Environment:

Temperature: 24.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1008 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode with modulation in antenna 1
Final test	03	TX mode with modulation in antenna 2

7.2.3 Test Setup Diagram



7.2.4 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.

Measured Level = Read level + Cable Loss + LISN Factor



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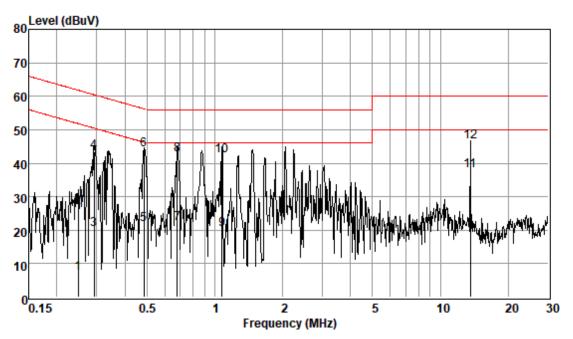
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Test Mode: 02; Line: Live line



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
0.25	-2.45	0.06	9.62	7.23	51.82	-44.59	Average
0.25	16.96	0.06	9.62	26.64	61.82	-35.18	QP
0.29	10.40	0.06	9.62	20.08	50.46	-30.38	Average
0.29	33.65	0.06	9.62	43.33	60.46	-17.13	QP
0.49	11.89	0.07	9.63	21.59	46.23	-24.64	Average
0.49	34.44	0.07	9.63	44.14	56.23	-12.09	QP
0.68	12.30	0.07	9.63	22.00	46.00	-24.00	Average
0.68	32.87	0.07	9.63	42.57	56.00	-13.43	QP
1.08	10.65	0.08	9.62	20.35	46.00	-25.65	Average
1.08	32.46	0.08	9.62	42.16	56.00	-13.84	QP
13.56	27.80	0.29	9.73	37.82	50.00	-12.18	Average
13.56	36.39	0.29	9.73	46.41	60.00	-13.59	OP _



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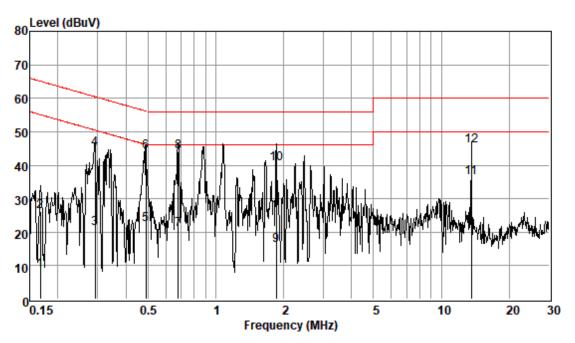
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Test Mode: 02; Line: Neutral Line



Pol :NEUTRAL

Mode Model:

	Read	Cable	LISN	Measured	Limit	0ver	
Frequenc	Level	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.17	-1.05	0.06	9.55	8.56	55.08	-46.52	Average
0.17	16.63	0.06	9.55	26.24	65.08	-38.84	QP
0.29	11.50	0.06	9.54	21.10	50.46	-29.36	Average
0.29	35.41	0.06	9.54	45.01	60.46	-15.45	QP
0.49	12.78	0.07	9.55	22.40	46.14	-23.74	Average
0.49	34.33	0.07	9.55	43.95	56.14	-12.19	QP
0.68	11.08	0.07	9.55	20.70	46.00	-25.30	Average
0.68	34.43	0.07	9.55	44.05	56.00	-11.95	QP
1.86	6.39	0.11	9.54	16.04	46.00	-29.96	Average
1.86	30.68	0.11	9.54	40.33	56.00	-15.67	QP
13.56	26.41	0.29	9.63	36.33	50.00	-13.67	Average
13.56	35.94	0.29	9.63	45.86	60.00	-14.14	QP



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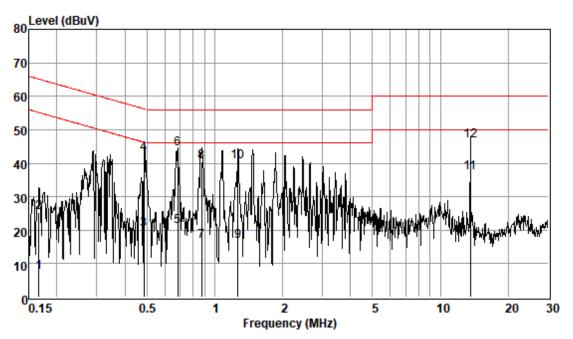
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Test Mode: 03; Line: Live line



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
0.17	-2.38	0.06	9.62	7.30	55.12	-47.82	Average
0.17	15.67	0.06	9.62	25.35	65.12	-39.77	QP
0.49	10.48	0.07	9.63	20.18	46.23	-26.05	Average
0.49	33.07	0.07	9.63	42.77	56.23	-13.46	QP
0.69	11.42	0.07	9.63	21.12	46.00	-24.88	Average
0.69	34.76	0.07	9.63	44.46	56.00	-11.54	QP
0.88	7.08	0.07	9.62	16.77	46.00	-29.23	Average
0.88	30.81	0.07	9.62	40.50	56.00	-15.50	QP
1.27	6.84	0.09	9.61	16.54	46.00	-29.46	Average
1.27	30.71	0.09	9.61	40.41	56.00	-15.59	QP _
13.56	27.16	0.29	9.73	37.18	50.00	-12.82	Average
13.56	36.71	0.29	9.73	46.73	60.00	-13.27	OP U



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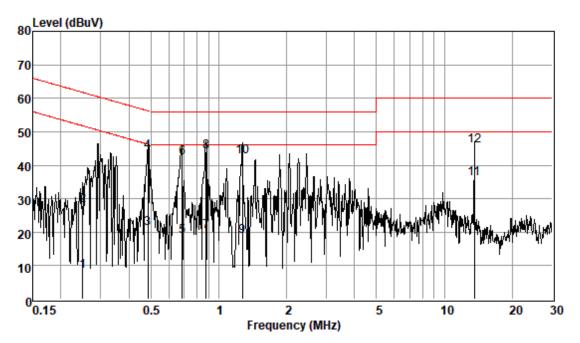
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Test Mode: 03; Line: Neutral Line



Pol :NEUTRAL

Mode Model:

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.25	-1.26	0.06	9.55	8.35	51.78	-43.43	Average
0.25	18.31	0.06	9.55	27.92	61.78	-33.86	QP
0.49	11.53	0.07	9.55	21.15	46.23	-25.08	Average
0.49	34.51	0.07	9.55	44.13	56.23	-12.10	QP
0.69	9.03	0.07	9.55	18.65	46.00	-27.35	Average
0.69	32.49	0.07	9.55	42.11	56.00	-13.89	QP
0.88	10.67	0.07	9.55	20.29	46.00	-25.71	Average
0.88	34.32	0.07	9.55	43.94	56.00	-12.06	QP
1.28	9.05	0.09	9.55	18.69	46.00	-27.31	Average
1.28	32.95	0.09	9.55	42.59	56.00	-13.41	QP
13.56	26.11	0.29	9.63	36.03	50.00	-13.97	Average
13.56	35.97	0.29	9.63	45.89	60.00	-14.11	QP

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7.3 Emission Mask

Test Requirement 47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3 m

Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Below 30MHz

The test was performed at a 3m test site.

The level at 30m test distance is below:

The factor calculated by the following equation:

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

 FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m

FS_{max} is the measured field strength, expressed in dBμV/m d_{measure} is the distance of the measurement point from the EUT is the reference distance or the distance of the $\lambda/2\pi$ point

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 55.5 % RH Atmospheric Pressure: 1008 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode with modulation in antenna 1
Final test	03	TX mode with modulation in antenna 2



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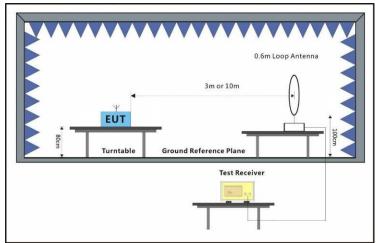
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst case (Vertical) was recorded in the report.

The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Measured Level I=Read Level + Antenna Factor + Cable Loss - Preamp Factor + Extrapolation Correction



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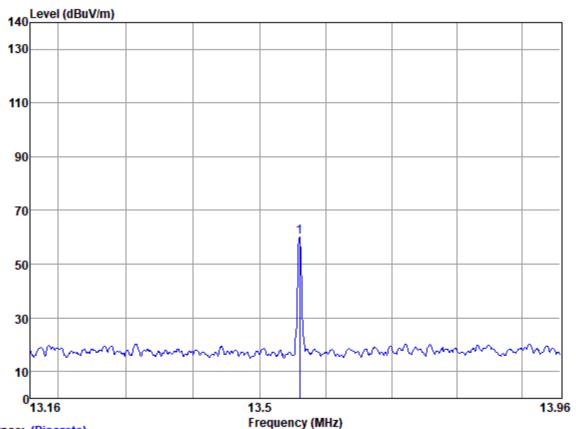
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Test Mode: 02



Trace: (Discrete)

1

Site : SGS Job Model Power Test Mode

				Measured Level			Remark
L		dB/m 8.96		dBuV/m 60.05	dBuV/m	dBuV	

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Over limit (dB)
13.560	60.05	84	40	20.05	-63.95

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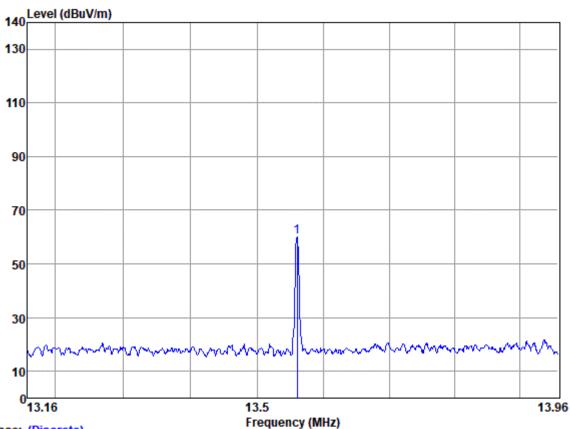
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Test Mode: 03



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq			Measured Level			_	Remark
1		 dB/m 8.96	 	dBuV/m	dBuV/m	dBuV	HORIZONTAL	

Frequency (MHz)	Level (dBuV/m) @3m	Limit (dBuV/m) @30m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Over limit (dB)
13.560	60.15	84	40	20.15	-63.85



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7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e) Test Method: ANSI C63.10 (2013) Section 6.8

Limit: $\pm 0.01\%(\pm 1.356 \text{kHz})$

7.4.1 E.U.T. Operation

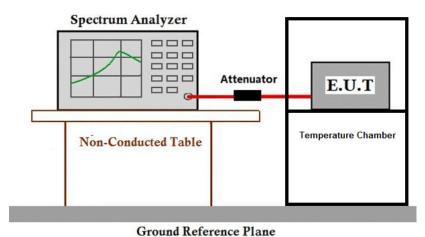
Operating Environment:

Temperature: 23.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1008 mbar

7.4.2 Test Mode Description

Mode Pre-scan / **Description** Final test Code TX mode with modulation in antenna 1 Final test 02 TX mode with modulation in antenna 2 Final test 03

7.4.3 Test Setup Diagram







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7.4.4 Measurement Procedure and Data

Test mode:02

Measure	ment Conditions	Limit: ±10	Limit: ±100ppm				
Voltage (V AC)	Temperature (℃)	Frequency Measured (MHz)	Test data (ppm)	Verdict			
	-20	13.560479	35.32	PASS			
	-10	13.560492	36.28	PASS			
	0	13.560465	34.29	PASS			
V - 100	+10	13.560328	24.19	PASS			
V _{norm} : 120	T _{normal} : +20	13.560000	0.00	PASS			
	+30	13.560286	21.09	PASS			
	+40	13.560203	14.97	PASS			
	+50	13.560334	24.63	PASS			
V _{max} : 132	Tnormal: +20	13.560212	15.63	PASS			
V _{min} : 108	I normal . +2U	13.560224	16.52	PASS			

Test mode:03

Measure	ment Conditions	Limit: ±10	Limit: ±100ppm					
Voltage (V AC)	Temperature (°C)	Frequency Measured (MHz)	Test data (ppm)	Verdict				
	-20	13.560425	31.34	PASS				
	-10	13.560436	32.15	PASS				
	0	13.560482	35.55	PASS				
V . 100	+10	13.560387	28.54	PASS				
V _{norm} : 120	T _{normal} : +20	13.560000	0.00	PASS				
	+30	13.560335	24.71	PASS				
	+40	13.560398	29.35	PASS				
	+50	13.560386	28.47	PASS				
V _{max} : 132	T _{normal} : +20	13.560374	27.58	PASS				
V _{min} : 108	I normal . +20	13.560359	26.47	PASS				



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3

7.5.1 E.U.T. Operation

Operating Environment:

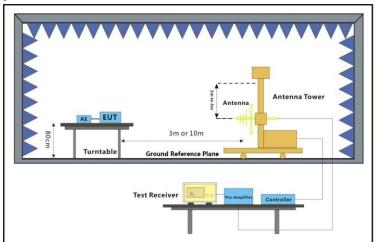
Temperature: 24.8 °C Humidity: 55.5 % RH Atmospheric Pressure: 1008 mbar

7.5.2 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 02 TX mode with modulation in antenna 1
Final test 03 TX mode with modulation in antenna 2

7.5.3 Test Setup Diagram





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7.5.4 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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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 peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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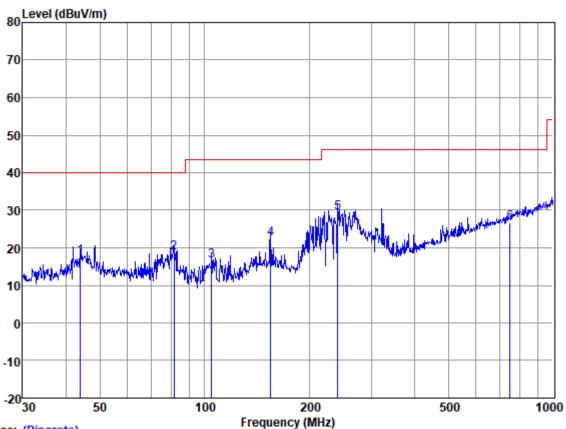
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Test Mode: 02; Polarity: Horizontal



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	43.97	29.89	13.80	1.12	27.17	17.64	40.00	-22.36	HORIZONTAL	QP
2	81.50	35.73	8.56	1.49	27.09	18.69	40.00	-21.31	HORIZONTAL	QP
3	104.54	32.07	9.83	1.76	27.07	16.59	43.50	-26.91	HORIZONTAL	QP
4	154.28	33.13	13.78	2.28	26.82	22.37	43.50	-21.13	HORIZONTAL	QP
5	240.83	41.32	11.92	2.81	26.66	29.39	46.00	-16.61	HORIZONTAL	QP
6	750.11	26.53	22.20	5.97	28.10	26.60	46.00	-19.40	HORIZONTAL	OP



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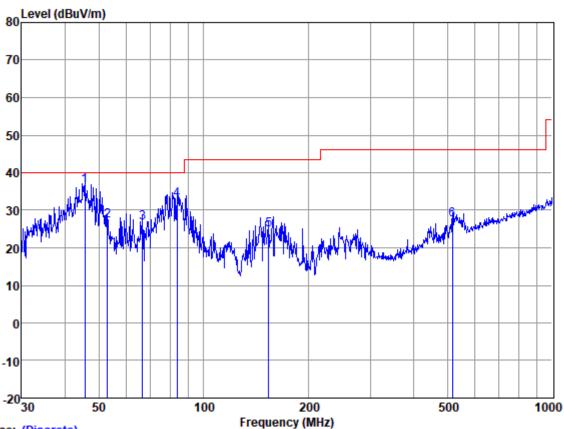
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Test Mode: 02; Polarity: Vertical



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	45.53	48.63	13.88	1.12	27.17	36.46	40.00	-3.54	VERTICAL	QP
2	52.95	39.19	13.90	1.17	27.17	27.09	40.00	-12.91	VERTICAL	QP
3	66.73	39.86	12.46	1.37	27.14	26.55	40.00	-13.45	VERTICAL	QP
4	83.82	50.42	8.04	1.53	27.09	32.90	40.00	-7.10	VERTICAL	QP
5	153.74	35.66	13.80	2.28	26.82	24.92	43.50	-18.58	VERTICAL	QP
6	517.25	32.70	18.17	4.51	28.01	27.37	46.00	-18.63	VERTICAL	QP



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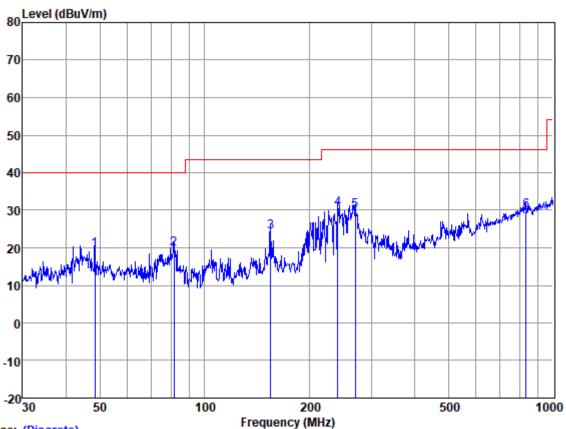
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Test Mode: 03; Polarity: Horizontal



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	48.33	31.55	13.99	1.13	27.17	19.50	40.00	-20.50	HORIZONTAL	QP
2	81.50	36.73	8.56	1.49	27.09	19.69	40.00	-20.31	HORIZONTAL	QP
3	154.28	35.13	13.78	2.28	26.82	24.37	43.50	-19.13	HORIZONTAL	QP
4	240.83	42.32	11.92	2.81	26.66	30.39	46.00	-15.61	HORIZONTAL	QP
5	270.37	40.70	12.70	3.04	26.58	29.86	46.00	-16.14	HORIZONTAL	QP
6	836.24	28.80	22.70	6.46	27.97	29.99	46.00	-16.01	HORIZONTAL	OP



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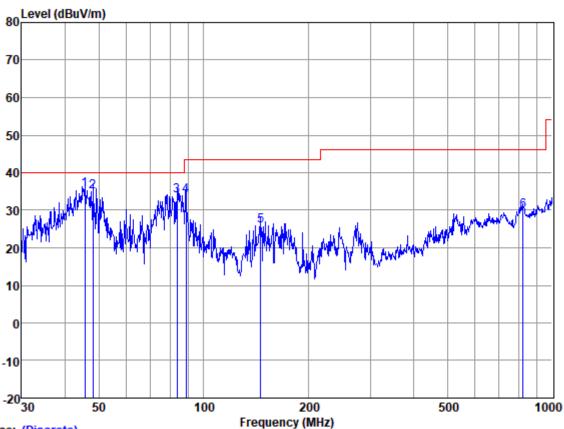
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Test Mode: 03; Polarity: Vertical



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	45.53	47.63	13.88	1.12	27.17	35.46	40.00	-4.54	VERTICAL	QP
2	47.99	47.05	14.00	1.13	27.17	35.01	40.00	-4.99	VERTICAL	QP
3	83.82	51.42	8.04	1.53	27.09	33.90	40.00	-6.10	VERTICAL	QP
4	88.96	51.63	7.75	1.61	27.09	33.90	43.50	-9.60	VERTICAL	QP
5	145.35	36.99	13.68	2.18	26.86	25.99	43.50	-17.51	VERTICAL	QP
6	824.60	28.77	22.75	6.30	27.99	29.83	46.00	-16.17	VERTICAL	QP



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7.6 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

According to ANSI C63.10 Section 6.4, the test data shall convert by below formula:

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{\text{limit}} = FS_{\text{max}} - 40\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right) \tag{4}$$

where

FS_{limit} is the calculation of field strength at the limit distance, expressed in dBμV/m

 FS_{max} is the measured field strength, expressed in $dB\mu V/m$

 $d_{\text{near field}}$ is the $\lambda/2\pi$ distance

 d_{measure} is the distance of the measurement point from the EUT d_{limit} is the reference distance or the distance of the $\lambda/2\pi$ point

Table 5—Relationship of frequency and wavelength (informative)

Frequency (MHz)	λ (m)	0.625λ (m)	$\lambda/2\pi$
0.009	33333.3	20833.3	5305.2
0.1	3000.0	1875.0	477.5
0.3	1000.0	625.0	159.2
1	300.0	187.5	47.7
4.76	63.0	39.4	10.0
16	18.8	11.7	3.0
30	10.0	6.3	1.6



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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 55.5 % RH Atmospheric Pressure: 1008 mbar

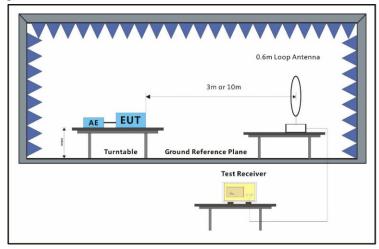
7.6.2 Test Mode Description

Pre-scan / Mode Final test Code Description

Final test 02 TX mode with modulation in antenna 1

Final test 03 TX mode with modulation in antenna 2

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Measurement distance: 3 m

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst case (horizontal) was recorded in the report.

The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Measured Level I=Read Level + Antenna Factor + Cable Loss - Preamp Factor + Extrapolation Correction

The fundamental operating frequency of the EUT is referred to section 7.3 for details.

All the test data below the background of emissions in the frequency band, and the peak field strength of any emission is not exceeding the maximum permitted average limits specified above. So, no measurement data was shown.



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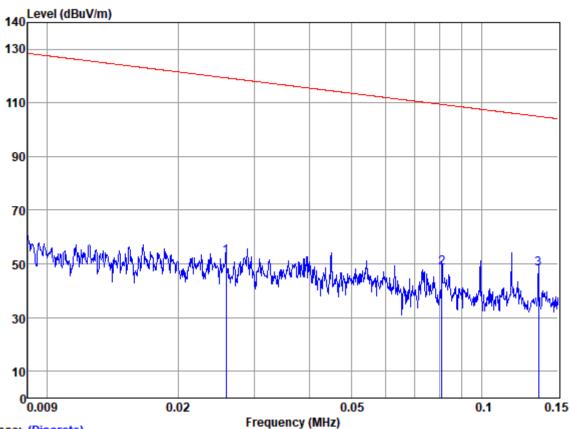
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Test Mode: 02



Trace: (Discrete)

Site : SGS Job Model Power Test Mode

	Freq					Measured Level			-	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.03	68.27	12.81	0.05	28.56	52.57	119.38	-66.81	HORIZONTAL	Average
2	0.08	67.19	10.70	0.05	29.43	48.51	109.43	-60.92	HORIZONTAL	Average
3	0.14	67.20	10.54	0.05	29.46	48.33	104.99	-56.66	HORIZONTAL	Average



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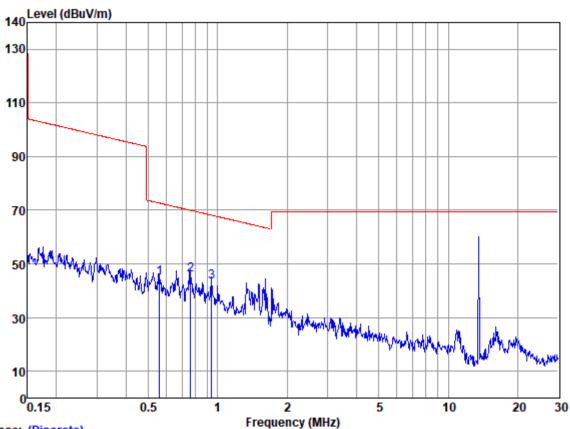
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Test Mode: 02



Trace: (Discrete)

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

	Freq					Measured Level			-	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.56	63.34	10.67	0.09	29.42	44.68	72.62	-27.94	HORIZONTAL	QP
2	0.76	64.71	10.49	0.12	29.41	45.91	69.95	-24.04	HORIZONTAL	QP
3	0.94	62.20	10.41	0.13	29.41	43.33	68.11	-24.78	HORIZONTAL	QP



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Frequency (MHz)	Level @ 3m (dBuV/m)	Limit @ 300m (dBuV/m)	Limit @ 30m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Level @ 30m (dBuV/m)	Margin (dB)
0.02578	52.57	39.38	-	80.00	-27.43	-	-66.81
0.08100	48.51	29.43	-	80.00	-31.49	-	-60.92
0.13517	48.33	24.99	-	80.00	-31.67	-	-56.66
0.56111	44.68	-	32.62	40.00	-	4.68	-27.94
0.76297	45.91	-	29.95	40.00	-	5.91	-24.04
0.94308	43.33	-	28.11	40.00	-	3.33	-24.78

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor.



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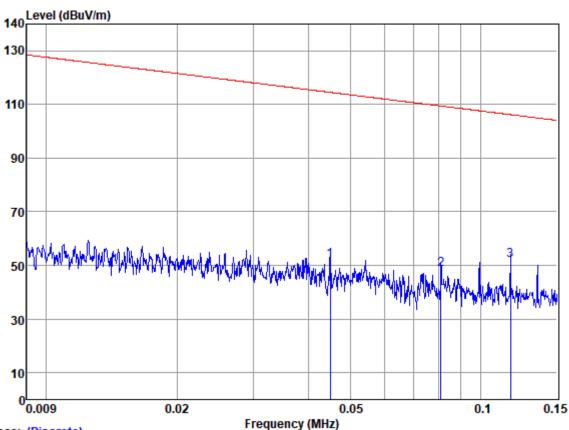
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Test Mode: 03



Trace: (Discrete)

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

	Freq					Measured Level			-	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.04	69.18	11.96	0.05	29.24	51.95	114.54	-62.59	HORIZONTAL	Average
2	0.08	67.39	10.70	0.05	29.43	48.71	109.43	-60.72	HORIZONTAL	Average
3	0.12	71.05	10.45	0.05	29.47	52.08	106.23	-54.15	HORIZONTAL	Average



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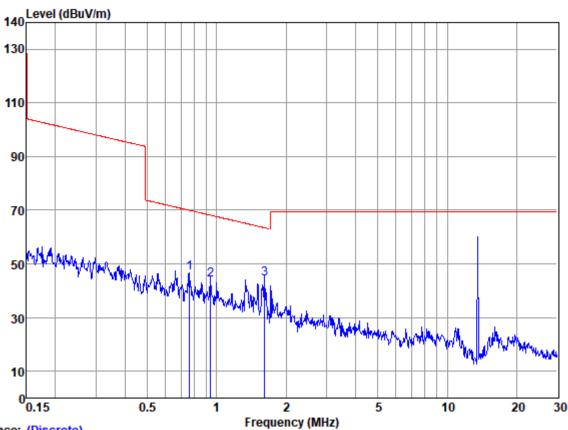
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Test Mode: 03



Trace: (Discrete)

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

Remark
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Frequency (MHz)	Level @ 3m (dBuV/m)	Limit @ 300m (dBuV/m)	Limit @ 30m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Level @ 30m (dBuV/m)	Margin (dB)
0.04499	51.95	34.54	-	80.00	-28.05	-	-62.59
0.08100	48.71	29.43	-	80.00	-31.29	-	-60.72
0.11710	52.08	26.23	-	80.00	-27.92	-	-54.15
0.76297	46.61	-	29.95	40.00	-	6.61	-23.34
0.94308	44.13	-	28.11	40.00	-	4.13	-23.98
1.61900	44.47	-	23.42	40.00	-	4.47	-18.95

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for GZCR2109021036AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - external and internal photos for GZCR2109021036AT

- End of the Report -



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