

TEST REPORT

Application No.: GZCR2311001138LM
Applicant: Gardyn Inc
Address of Applicant: 8120 Woodmont Avenue, Suite #640, Bethesda, Maryland, USA
Manufacturer: VS Industry Berhad
Address of Manufacturer: PTD 90370 (Lot 76803 PLO 161 & 162), Jalan Murni 12, Kawasan Perindustrian Murni, 81400 Senai, Johor Darul Takzim, Malaysia
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

Equipment Under Test (EUT):

EUT Name: Gardyn Home
Model No.: GH-A02, GH A02 *

* Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Trade Mark: Gardyn
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-11-07
Date of Test: 2023-11-14 to 2023-11-20
Date of Issue: 2023-12-18

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



Ricky Liu
Manager

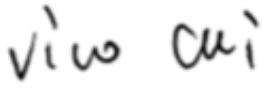
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Revision Record			
Version	Report No.	Date	Remark
01	GZCR220600084702	2022-09-08	Original
02	GZCR220600084705	2023-12-18	Copy report: Updated manufacturer's information, factory's information; Added trademark; Alternative seals, new version (Rev 1.5)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

Authorized for issue by:			
	 Kevin Zhang	Kevin Zhang/Project Engineer	
	 Vico 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, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions Below 1GHz		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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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 24 V powered by AC/DC adapter as below:
	Model: FY1802407500
	Input: AC 100-240 V, 50/60 Hz, 2.6 A Max
	Output: DC 24 V, 7500 mA
Rated Power:	180W
Test Voltage:	AC 120 V, 60 Hz
Cable:	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
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
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

4.2 Description of Support Units

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



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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,
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.



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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, IEC600 01 and Rules of procedure IEC600 02, and the relevant IEC600 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 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	2023-05-19	2024-05-18
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	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2023-02-20	2024-02-19
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12
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	2022-04-06	2024-04-05

General used equipment					
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 Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1016 mbar

6.1.2 Test Mode Description

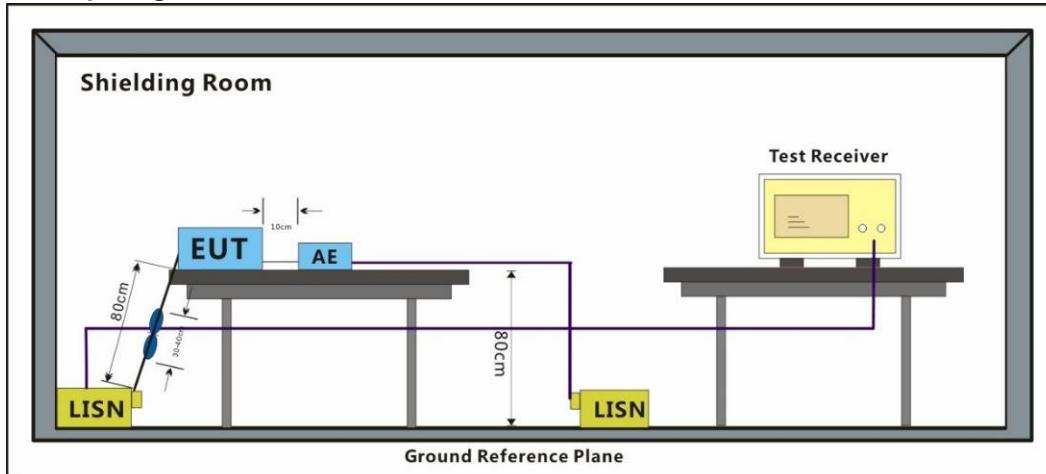
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation of control PCB (Rev 1.6).
Final test	01	TX mode _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type 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 of control PCB (Rev 1.6).
Final test	05	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation of control PCB (Rev 1.5).
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 of control PCB (Rev 1.5).

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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.

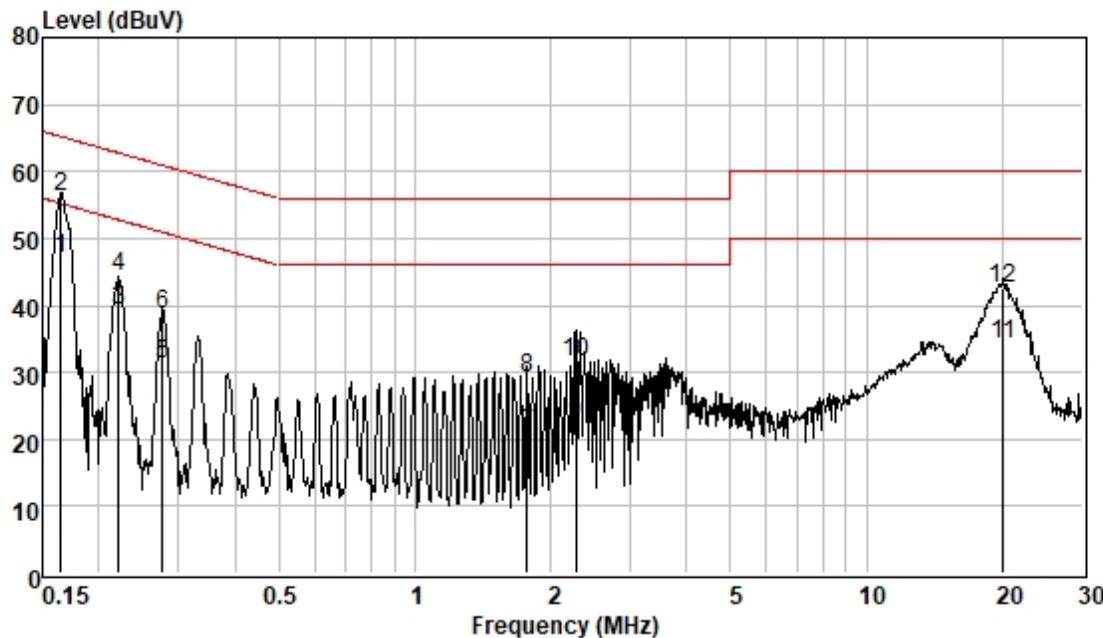
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



Pol :LINE

Mode :

Model :

Power :

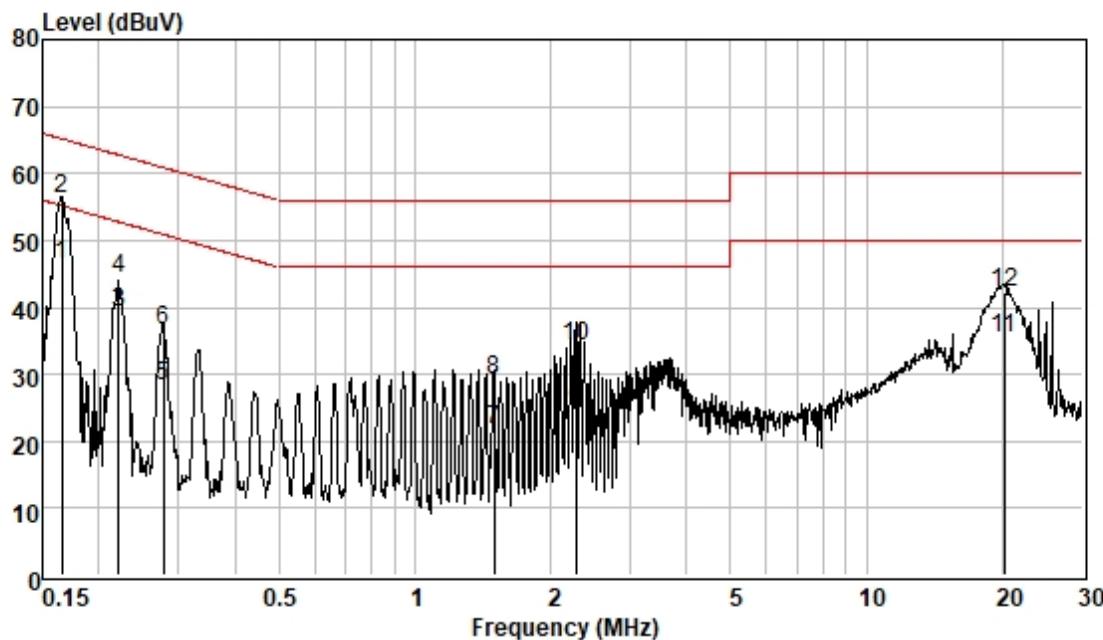
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.165	37.32	0.04	9.55	46.91	55.21	-8.30	Average
2	0.165	46.71	0.04	9.55	56.30	65.21	-8.91	QP
3	0.221	29.63	0.04	9.55	39.22	52.79	-13.57	Average
4	0.221	34.74	0.04	9.55	44.33	62.79	-18.46	QP
5	0.276	21.59	0.04	9.56	31.19	50.94	-19.75	Average
6	0.276	29.02	0.04	9.56	38.62	60.94	-22.32	QP
7	1.772	11.22	0.12	9.57	20.91	46.00	-25.09	Average
8	1.772	19.42	0.12	9.57	29.11	56.00	-26.89	QP
9	2.273	12.60	0.13	9.57	22.30	46.00	-23.70	Average
10	2.273	21.88	0.13	9.57	31.58	56.00	-24.42	QP
11	20.056	23.87	0.38	9.85	34.10	50.00	-15.90	Average
12	20.056	32.16	0.38	9.85	42.39	60.00	-17.61	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

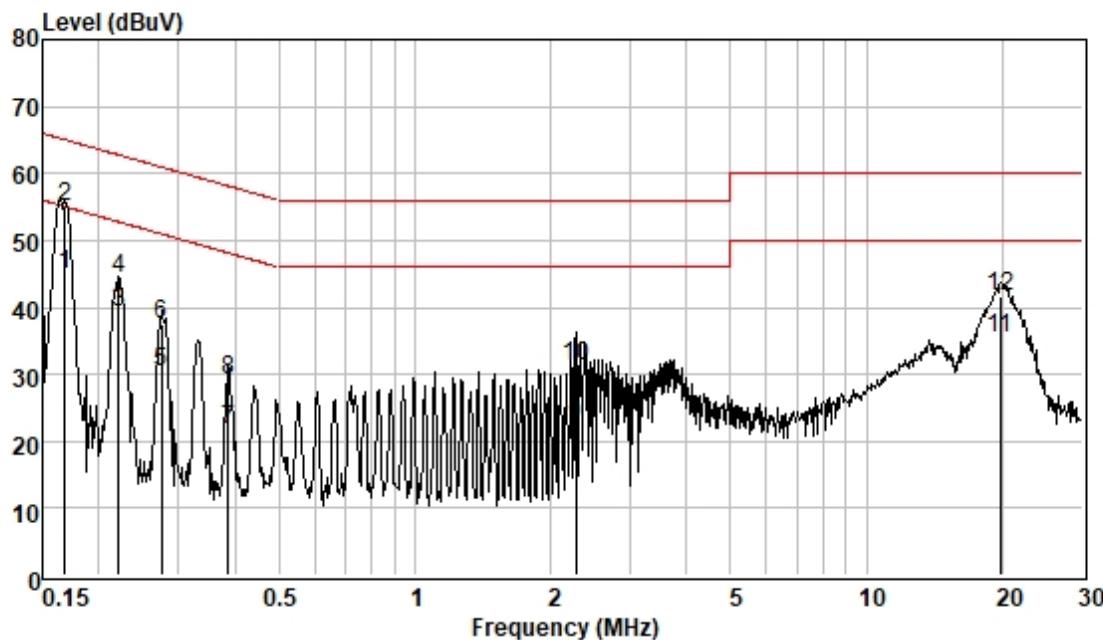
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	36.86	0.04	9.52	46.42	55.16	-8.74	Average
2	0.166	46.64	0.04	9.52	56.20	65.16	-8.96	QP
3	0.221	29.61	0.04	9.53	39.18	52.79	-13.61	Average
4	0.221	34.73	0.04	9.53	44.30	62.79	-18.49	QP
5	0.277	18.61	0.04	9.53	28.18	50.90	-22.72	Average
6	0.277	26.92	0.04	9.53	36.49	60.90	-24.41	QP
7	1.495	12.00	0.10	9.55	21.65	46.00	-24.35	Average
8	1.495	19.53	0.10	9.55	29.18	56.00	-26.82	QP
9	2.273	14.58	0.13	9.56	24.27	46.00	-21.73	Average
10	2.273	24.42	0.13	9.56	34.11	56.00	-21.89	QP
11	20.162	25.15	0.38	9.91	35.44	50.00	-14.56	Average
12	20.162	31.98	0.38	9.91	42.27	60.00	-17.73	QP



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Test Mode: 01; Line: Live line



Pol : LINE

Mode :

Model :

Power :

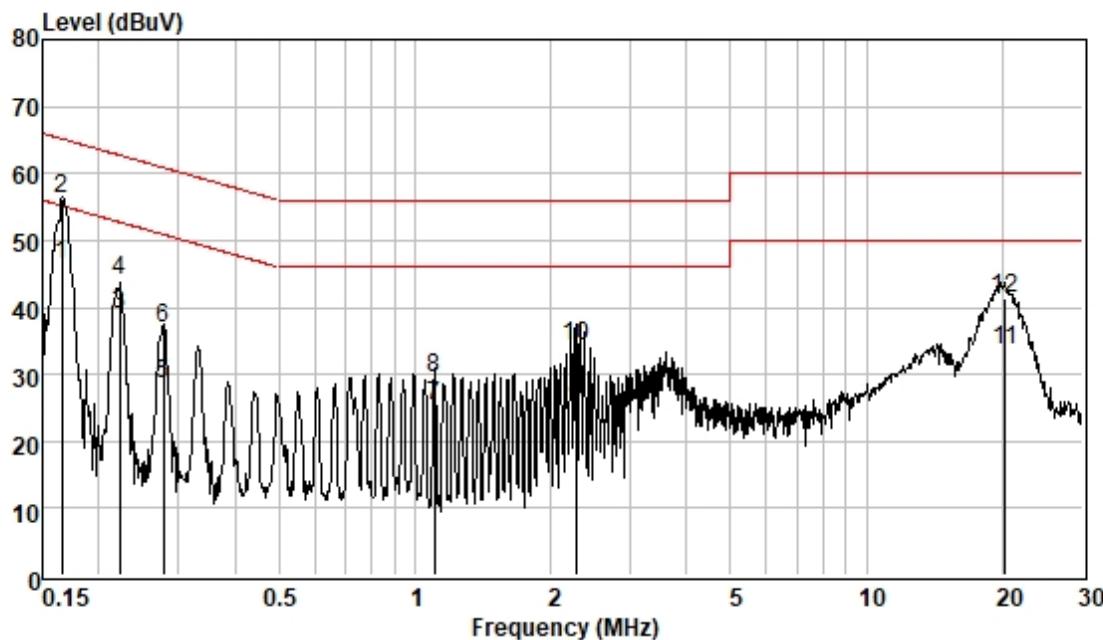
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.169	35.42	0.04	9.55	45.01	55.03	-10.02	Average
2	0.169	45.52	0.04	9.55	55.11	65.03	-9.92	QP
3	0.221	29.57	0.04	9.55	39.16	52.79	-13.63	Average
4	0.221	34.67	0.04	9.55	44.26	62.79	-18.53	QP
5	0.274	20.72	0.04	9.56	30.32	50.98	-20.66	Average
6	0.274	27.80	0.04	9.56	37.40	60.98	-23.58	QP
7	0.387	12.16	0.05	9.56	21.77	48.12	-26.35	Average
8	0.387	19.60	0.05	9.56	29.21	58.12	-28.91	QP
9	2.273	12.47	0.13	9.57	22.17	46.00	-23.83	Average
10	2.273	21.56	0.13	9.57	31.26	56.00	-24.74	QP
11	19.740	25.11	0.38	9.85	35.34	50.00	-14.66	Average
12	19.740	31.45	0.38	9.85	41.68	60.00	-18.32	QP



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Test Mode: 01; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

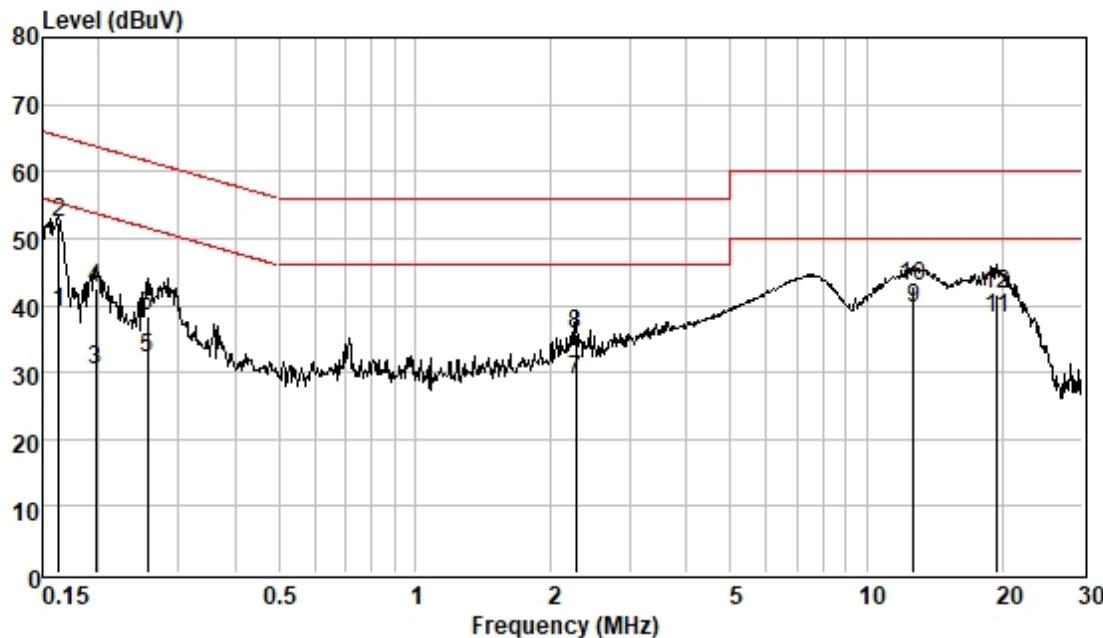
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	36.91	0.04	9.52	46.47	55.16	-8.69	Average
2	0.166	46.74	0.04	9.52	56.30	65.16	-8.86	QP
3	0.222	29.30	0.04	9.53	38.87	52.74	-13.87	Average
4	0.222	34.31	0.04	9.53	43.88	62.74	-18.86	QP
5	0.277	18.95	0.04	9.53	28.52	50.90	-22.38	Average
6	0.277	27.17	0.04	9.53	36.74	60.90	-24.16	QP
7	1.106	15.69	0.08	9.55	25.32	46.00	-20.68	Average
8	1.106	19.94	0.08	9.55	29.57	56.00	-26.43	QP
9	2.273	15.21	0.13	9.56	24.90	46.00	-21.10	Average
10	2.273	24.63	0.13	9.56	34.32	56.00	-21.68	QP
11	20.270	23.43	0.38	9.91	33.72	50.00	-16.28	Average
12	20.270	31.13	0.38	9.91	41.42	60.00	-18.58	QP



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Test Mode: 05; Line: Live line



Pol :LINE

Mode :

Model :

Power :

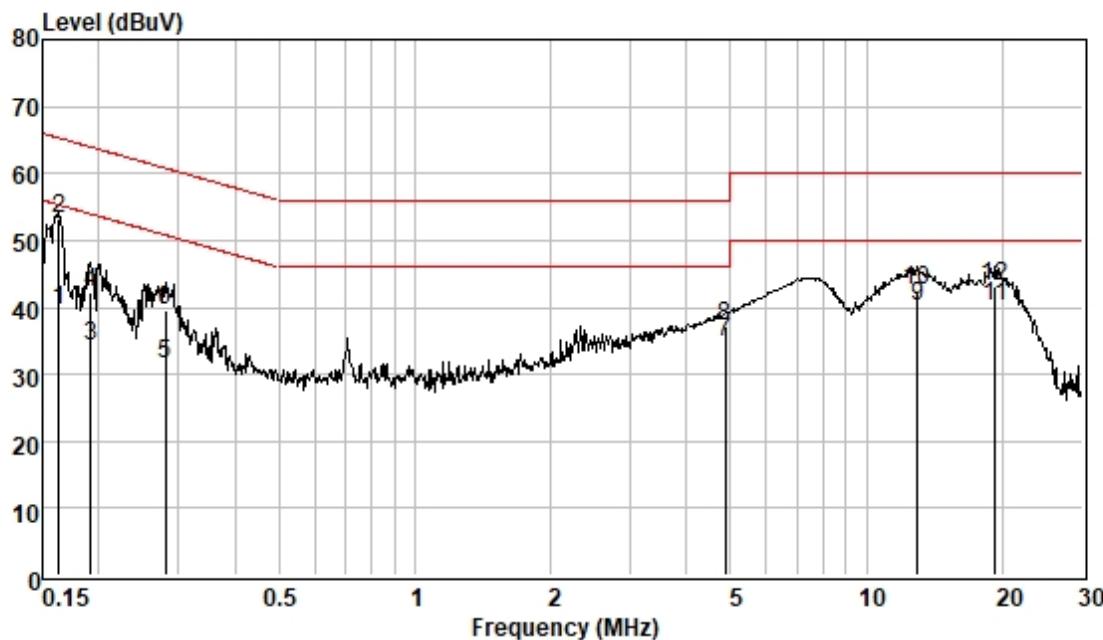
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.163	29.38	0.04	9.55	38.97	55.30	-16.33	Average
2	0.163	42.87	0.04	9.55	52.46	65.30	-12.84	QP
3	0.197	20.83	0.04	9.55	30.42	53.76	-23.34	Average
4	0.197	32.98	0.04	9.55	42.57	63.76	-21.19	QP
5	0.256	22.44	0.04	9.56	32.04	51.56	-19.52	Average
6	0.256	28.87	0.04	9.56	38.47	61.56	-23.09	QP
7	2.273	19.24	0.13	9.57	28.94	46.00	-17.06	Average
8	2.273	25.93	0.13	9.57	35.63	56.00	-20.37	QP
9	12.716	29.50	0.29	9.82	39.61	50.00	-10.39	Average
10	12.716	32.60	0.29	9.82	42.71	60.00	-17.29	QP
11	19.428	27.98	0.38	9.85	38.21	50.00	-11.79	Average
12	19.428	31.27	0.38	9.85	41.50	60.00	-18.50	QP



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Test Mode: 05; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

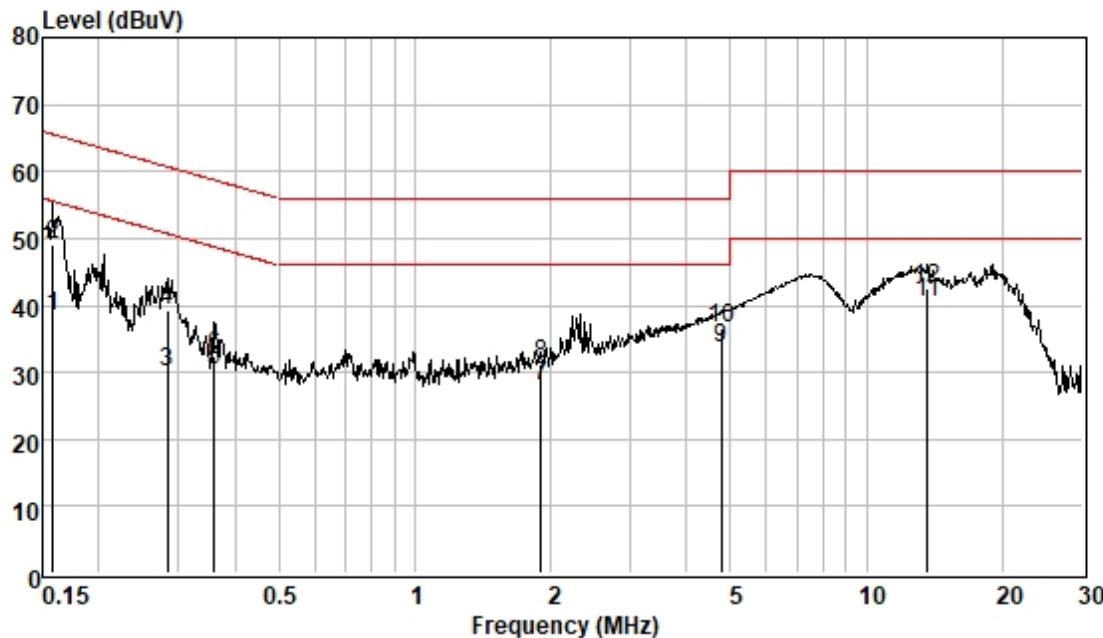
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.163	30.13	0.04	9.52	39.69	55.30	-15.61	Average
2	0.163	43.63	0.04	9.52	53.19	65.30	-12.11	QP
3	0.191	24.51	0.04	9.53	34.08	53.98	-19.90	Average
4	0.191	32.52	0.04	9.53	42.09	63.98	-21.89	QP
5	0.280	22.02	0.04	9.53	31.59	50.81	-19.22	Average
6	0.280	30.11	0.04	9.53	39.68	60.81	-21.13	QP
7	4.874	25.00	0.19	9.63	34.82	46.00	-11.18	Average
8	4.874	27.22	0.19	9.63	37.04	56.00	-18.96	QP
9	12.920	30.01	0.30	9.84	40.15	50.00	-9.85	Average
10	12.920	32.43	0.30	9.84	42.57	60.00	-17.43	QP
11	19.224	29.94	0.38	9.91	40.23	50.00	-9.77	Average
12	19.224	32.89	0.38	9.91	43.18	60.00	-16.82	QP



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Test Mode: 06; Line: Live line



Pol : LINE

Mode :

Model :

Power :

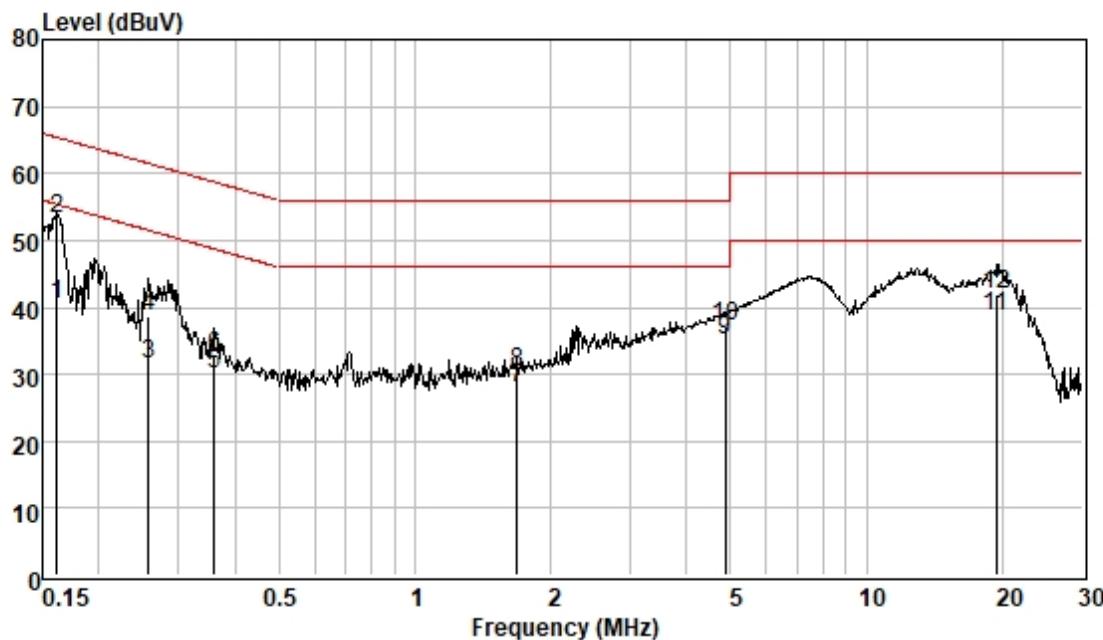
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	28.86	0.04	9.55	38.45	55.56	-17.11	Average
2	0.158	39.52	0.04	9.55	49.11	65.56	-16.45	QP
3	0.283	20.53	0.04	9.56	30.13	50.72	-20.59	Average
4	0.283	29.56	0.04	9.56	39.16	60.72	-21.56	QP
5	0.360	20.60	0.05	9.57	30.22	48.74	-18.52	Average
6	0.360	22.79	0.05	9.57	32.41	58.74	-26.33	QP
7	1.898	18.14	0.12	9.57	27.83	46.00	-18.17	Average
8	1.898	21.47	0.12	9.57	31.16	56.00	-24.84	QP
9	4.772	23.90	0.19	9.62	33.71	46.00	-12.29	Average
10	4.772	26.89	0.19	9.62	36.70	56.00	-19.30	QP
11	13.623	30.39	0.31	9.85	40.55	50.00	-9.45	Average
12	13.623	32.34	0.31	9.85	42.50	60.00	-17.50	QP



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Test Mode: 06; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	30.88	0.04	9.52	40.44	55.38	-14.94	Average
2	0.162	43.59	0.04	9.52	53.15	65.38	-12.23	QP
3	0.258	21.99	0.04	9.53	31.56	51.51	-19.95	Average
4	0.258	28.96	0.04	9.53	38.53	61.51	-22.98	QP
5	0.360	20.58	0.05	9.54	30.17	48.74	-18.57	Average
6	0.360	22.98	0.05	9.54	32.57	58.74	-26.17	QP
7	1.680	18.29	0.11	9.55	27.95	46.00	-18.05	Average
8	1.680	20.55	0.11	9.55	30.21	56.00	-25.79	QP
9	4.874	25.16	0.19	9.63	34.98	46.00	-11.02	Average
10	4.874	27.22	0.19	9.63	37.04	56.00	-18.96	QP
11	19.326	28.36	0.38	9.91	38.65	50.00	-11.35	Average
12	19.326	31.51	0.38	9.91	41.80	60.00	-18.20	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: 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 Environment:

Temperature: 23.0 °C Humidity: 49.1 % RH Atmospheric Pressure: 1016 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 of control PCB (Rev 1.6).
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 of control PCB (Rev 1.6).
Final test	05	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation of control PCB (Rev 1.5).
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 of control PCB (Rev 1.5).

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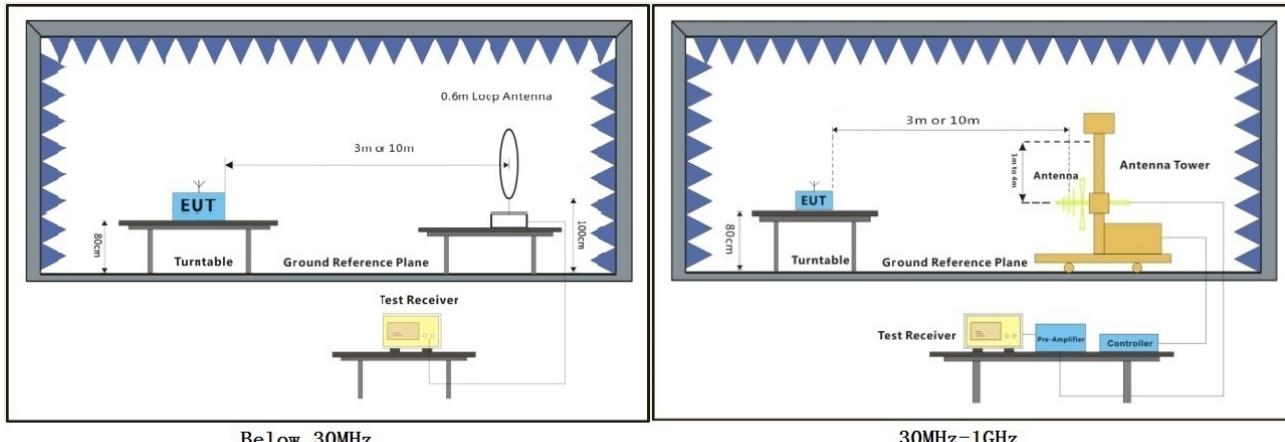
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6.2.3 Test Setup Diagram

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t (86-20) 82155555 sgs.china@sgs.com

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:

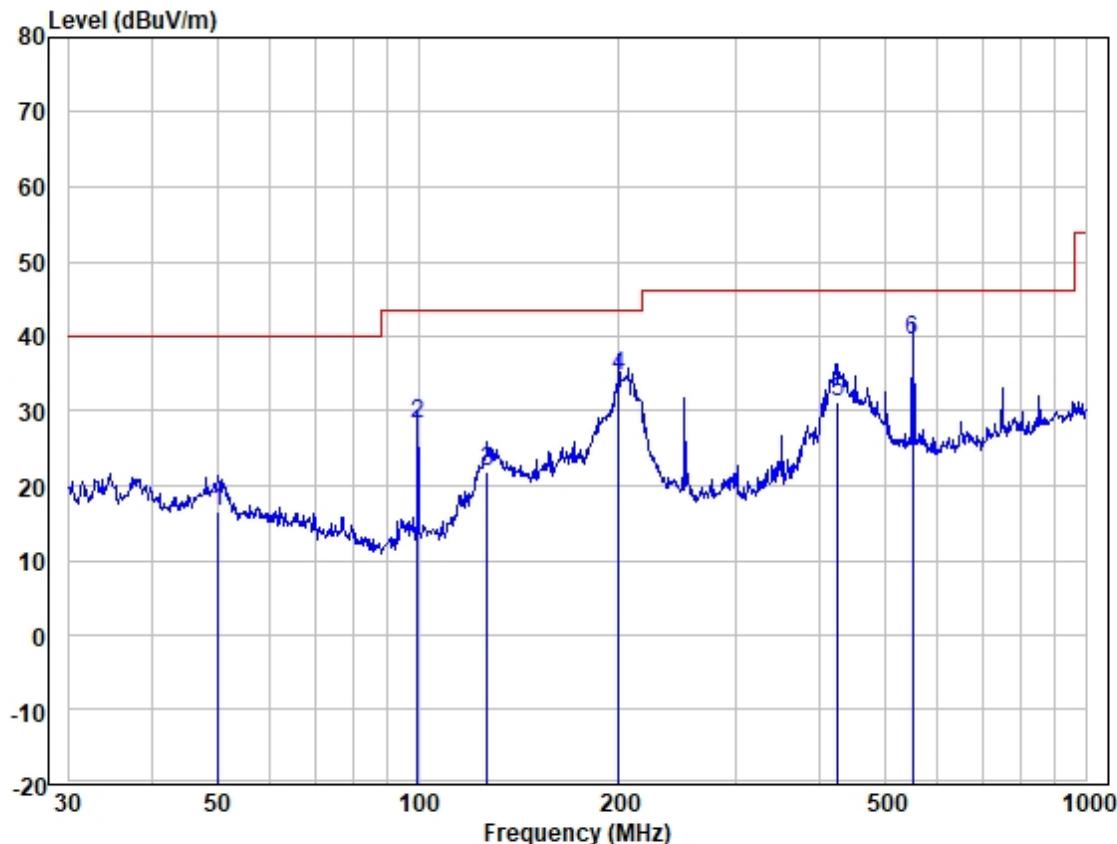
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 00; Polarity: Horizontal



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

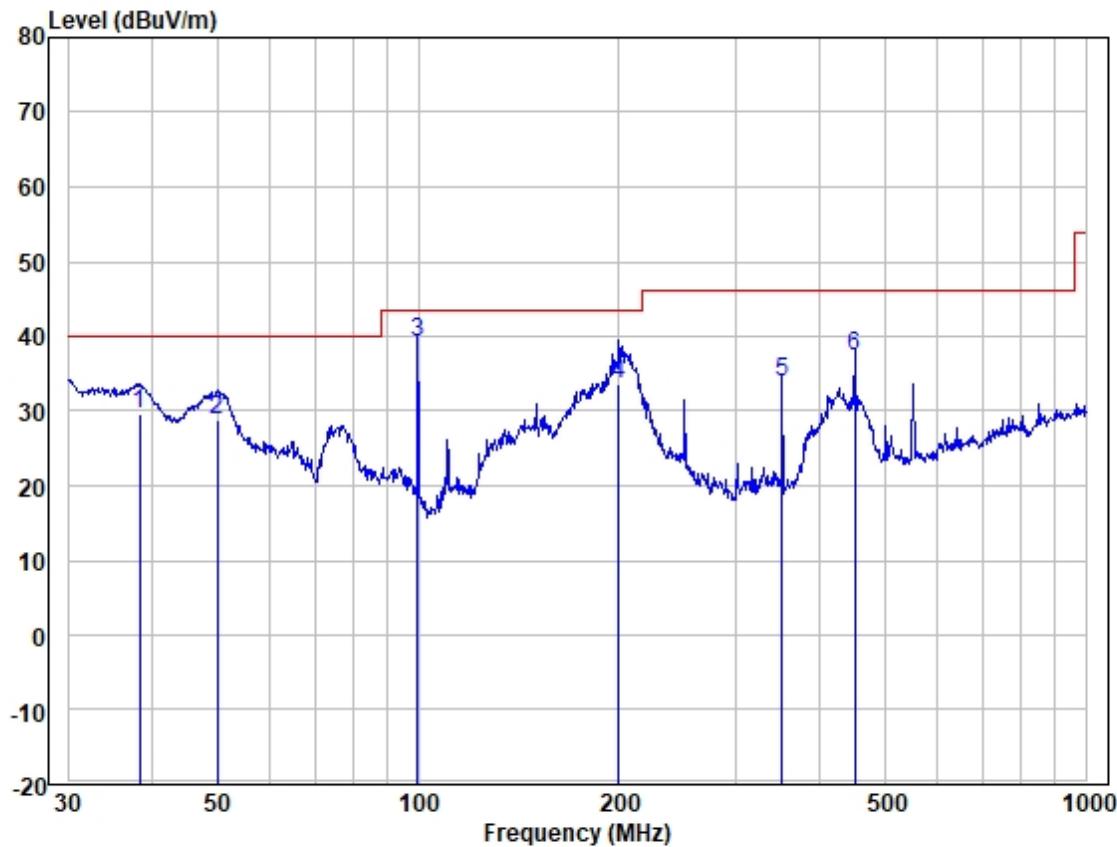
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 50.232	29.29	19.55	0.39	32.80	16.43	40.00	-23.57	HORIZONTAL	QP
2 99.878	45.87	14.55	0.54	32.80	28.16	43.52	-15.36	HORIZONTAL	QP
3 126.772	36.19	17.83	0.61	32.80	21.83	43.52	-21.69	HORIZONTAL	QP
4 199.986	50.87	15.80	0.79	32.80	34.66	43.52	-8.86	HORIZONTAL	QP
5 425.028	40.91	21.96	1.18	32.82	31.23	46.02	-14.79	HORIZONTAL	QP
6 550.948	46.76	24.34	1.36	32.90	39.56	46.02	-6.46	HORIZONTAL	QP

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Test Mode: 00; Polarity: Vertical



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

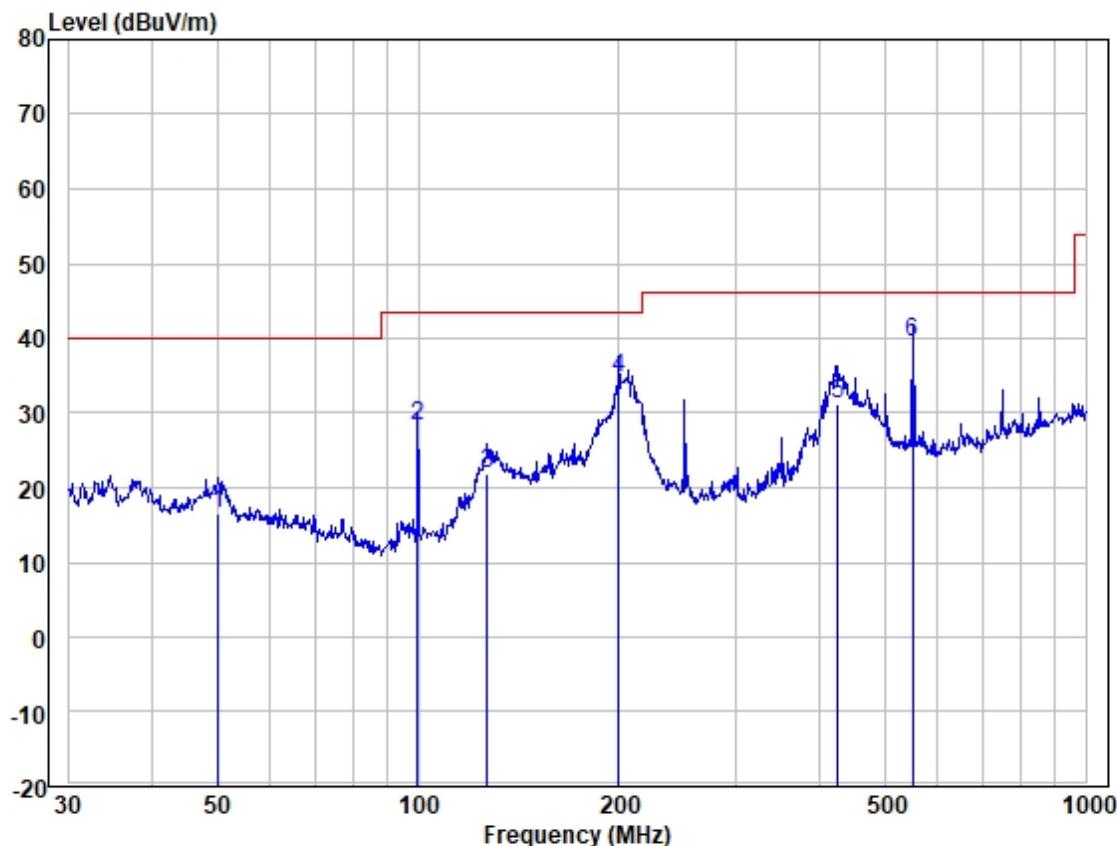
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	38.346	43.26	18.93	0.34	32.84	29.69	40.00	-10.31	VERTICAL QP
2	50.057	41.63	19.55	0.39	32.80	28.77	40.00	-11.23	VERTICAL QP
3	99.878	56.98	14.55	0.54	32.80	39.27	43.52	-4.25	VERTICAL QP
4	199.986	49.80	15.80	0.79	32.80	33.59	43.52	-9.93	VERTICAL QP
5	350.477	45.38	20.29	1.07	32.80	33.94	46.02	-12.08	VERTICAL QP
6	451.135	46.24	22.75	1.23	32.85	37.37	46.02	-8.65	VERTICAL QP

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Test Mode: 01; Polarity: Horizontal



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

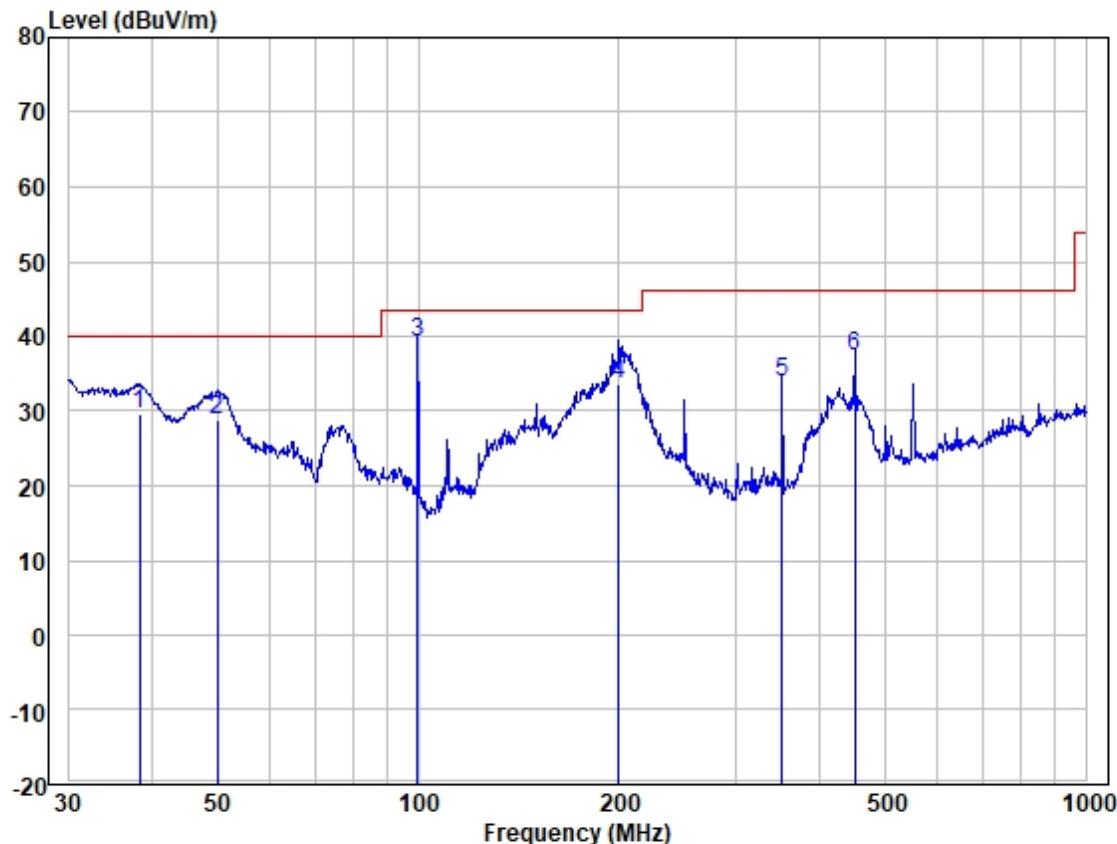
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 50.232	29.29	19.55	0.39	32.80	16.43	40.00	-23.57	HORIZONTAL	QP
2 99.878	45.87	14.55	0.54	32.80	28.16	43.52	-15.36	HORIZONTAL	QP
3 126.772	36.19	17.83	0.61	32.80	21.83	43.52	-21.69	HORIZONTAL	QP
4 199.986	50.87	15.80	0.79	32.80	34.66	43.52	-8.86	HORIZONTAL	QP
5 425.028	40.91	21.96	1.18	32.82	31.23	46.02	-14.79	HORIZONTAL	QP
6 550.948	46.76	24.34	1.36	32.90	39.56	46.02	-6.46	HORIZONTAL	QP

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Test Mode: 01; Polarity: Vertical



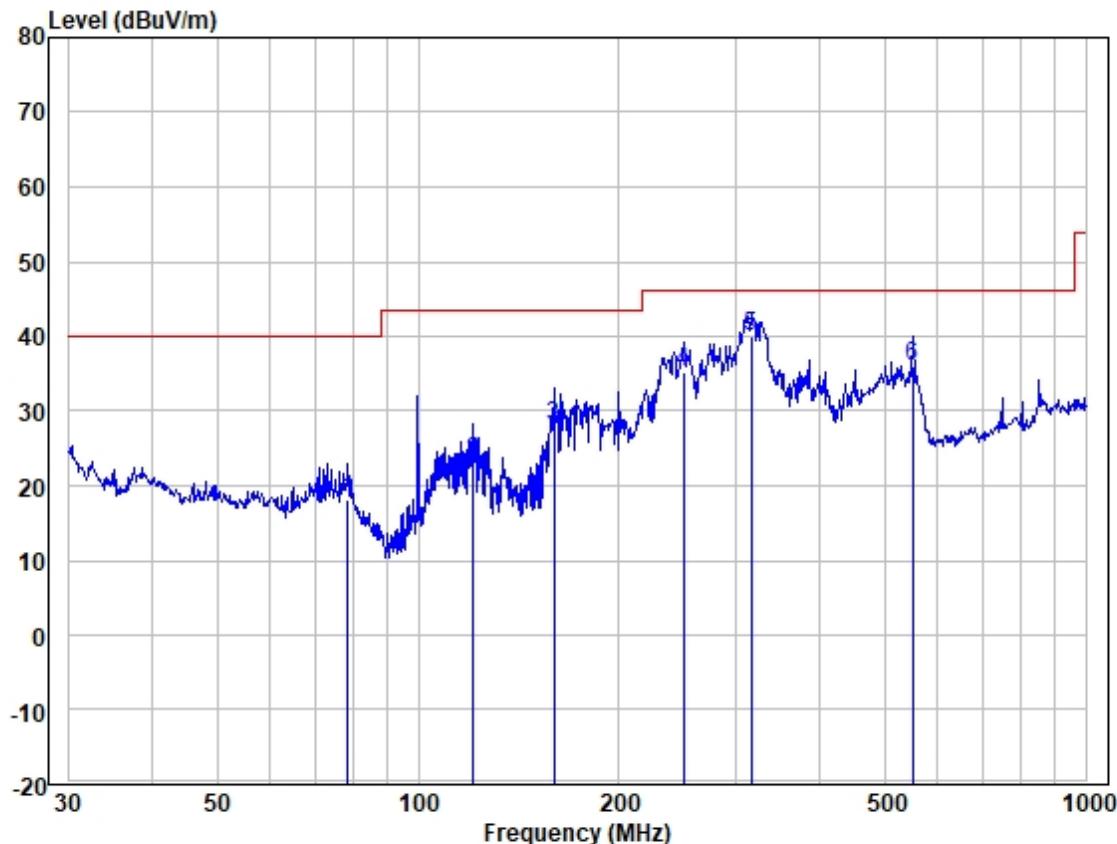
Site : 966 Chamber
 Job :
 Model :
 Power :
 Test Mode : TX

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 38.346	43.26	18.93	0.34	32.84	29.69	40.00	-10.31	VERTICAL	QP
2 50.057	41.63	19.55	0.39	32.80	28.77	40.00	-11.23	VERTICAL	QP
3 99.878	56.98	14.55	0.54	32.80	39.27	43.52	-4.25	VERTICAL	QP
4 199.986	49.80	15.80	0.79	32.80	33.59	43.52	-9.93	VERTICAL	QP
5 350.477	45.38	20.29	1.07	32.80	33.94	46.02	-12.08	VERTICAL	QP
6 451.135	46.24	22.75	1.23	32.85	37.37	46.02	-8.65	VERTICAL	QP


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Test Mode: 05; Polarity: Horizontal



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

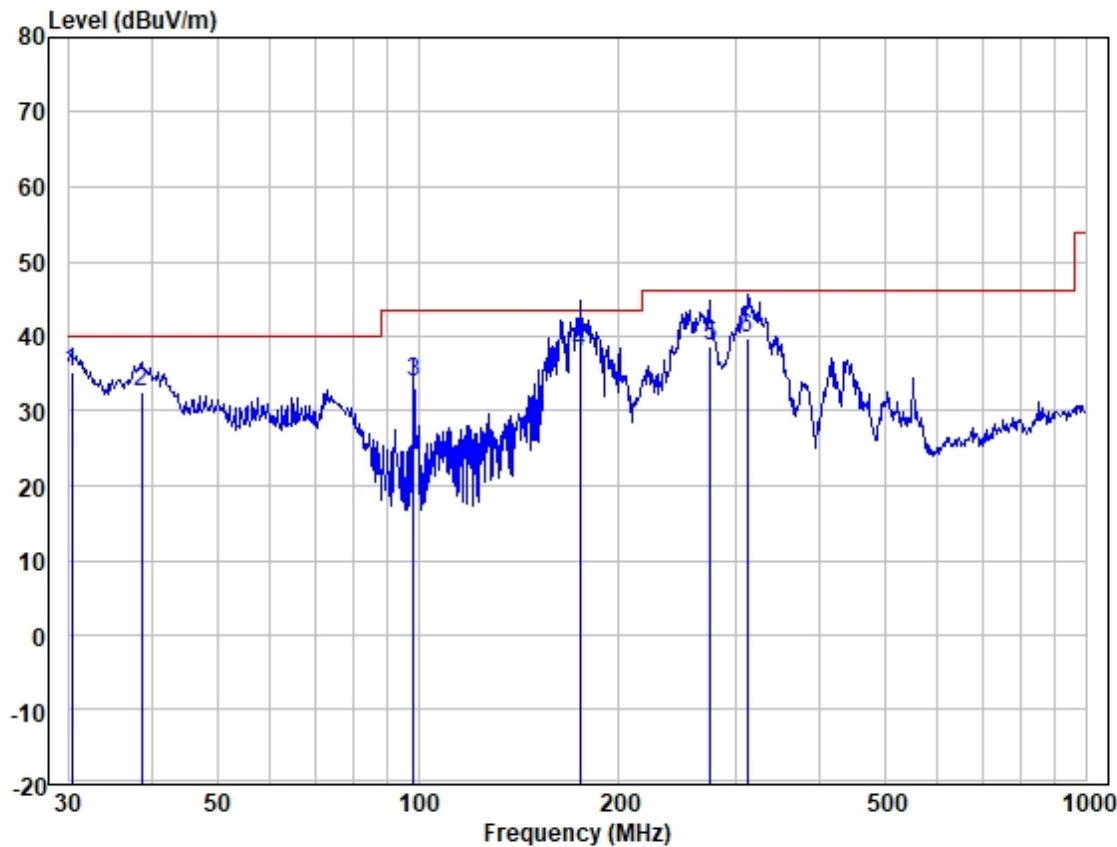
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	78.413	34.81	15.53	0.49	32.80	18.03	40.00	-21.97	HORIZONTAL QP
2	121.123	38.05	17.35	0.60	32.80	23.20	43.52	-20.32	HORIZONTAL QP
3	159.784	40.88	19.21	0.70	32.80	27.99	43.52	-15.53	HORIZONTAL QP
4	249.425	49.52	17.59	0.88	32.80	35.19	46.02	-10.83	HORIZONTAL QP
5	315.481	52.05	19.64	0.99	32.80	39.88	46.02	-6.14	HORIZONTAL QP
6	550.948	43.26	24.34	1.36	32.90	36.06	46.02	-9.96	HORIZONTAL QP

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Test Mode: 05; Polarity: Vertical



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

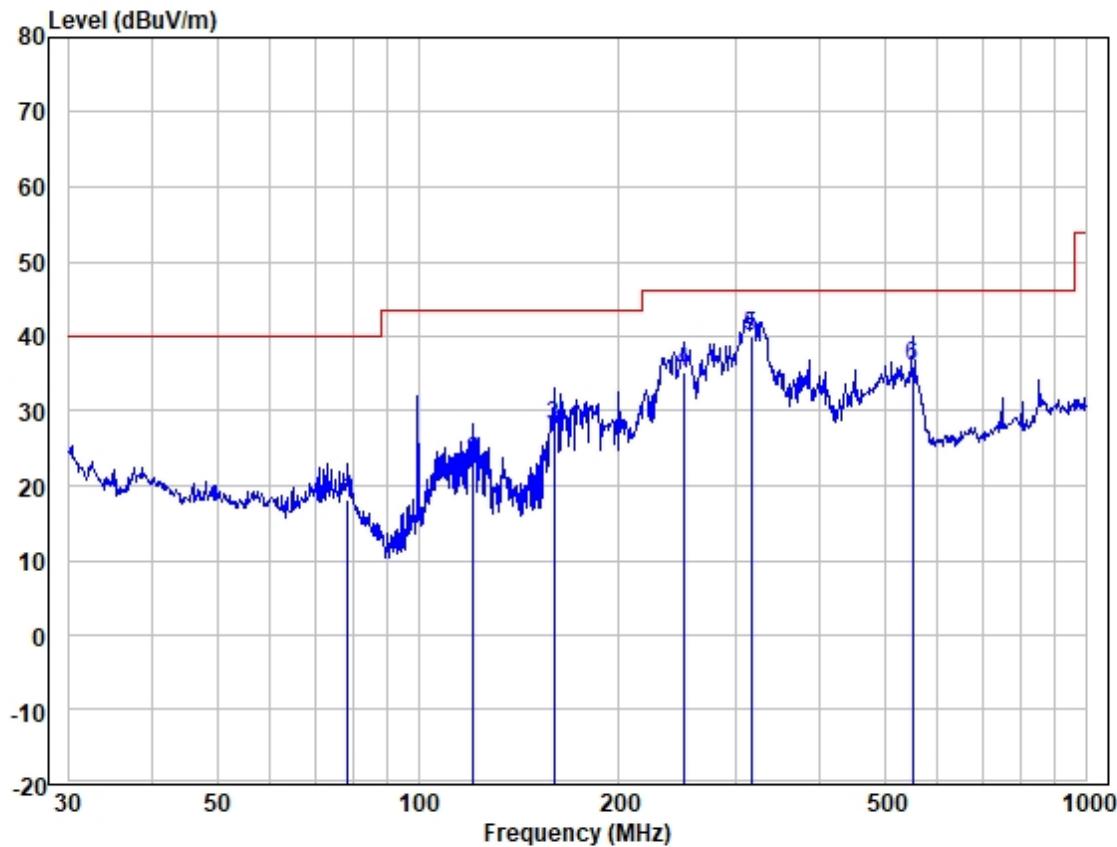
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 30.317	50.55	17.23	0.30	32.87	35.21	40.00	-4.79	VERTICAL	QP
2 38.616	46.10	18.93	0.35	32.83	32.55	40.00	-7.45	VERTICAL	QP
3 98.487	51.81	14.41	0.54	32.80	33.96	43.52	-9.56	VERTICAL	QP
4 174.424	51.66	18.31	0.74	32.80	37.91	43.52	-5.61	VERTICAL	QP
5 274.194	52.07	18.52	0.95	32.80	38.74	46.02	-7.28	VERTICAL	QP
6 311.087	51.90	19.52	0.99	32.80	39.61	46.02	-6.41	VERTICAL	QP

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Test Mode: 06; Polarity: Horizontal



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

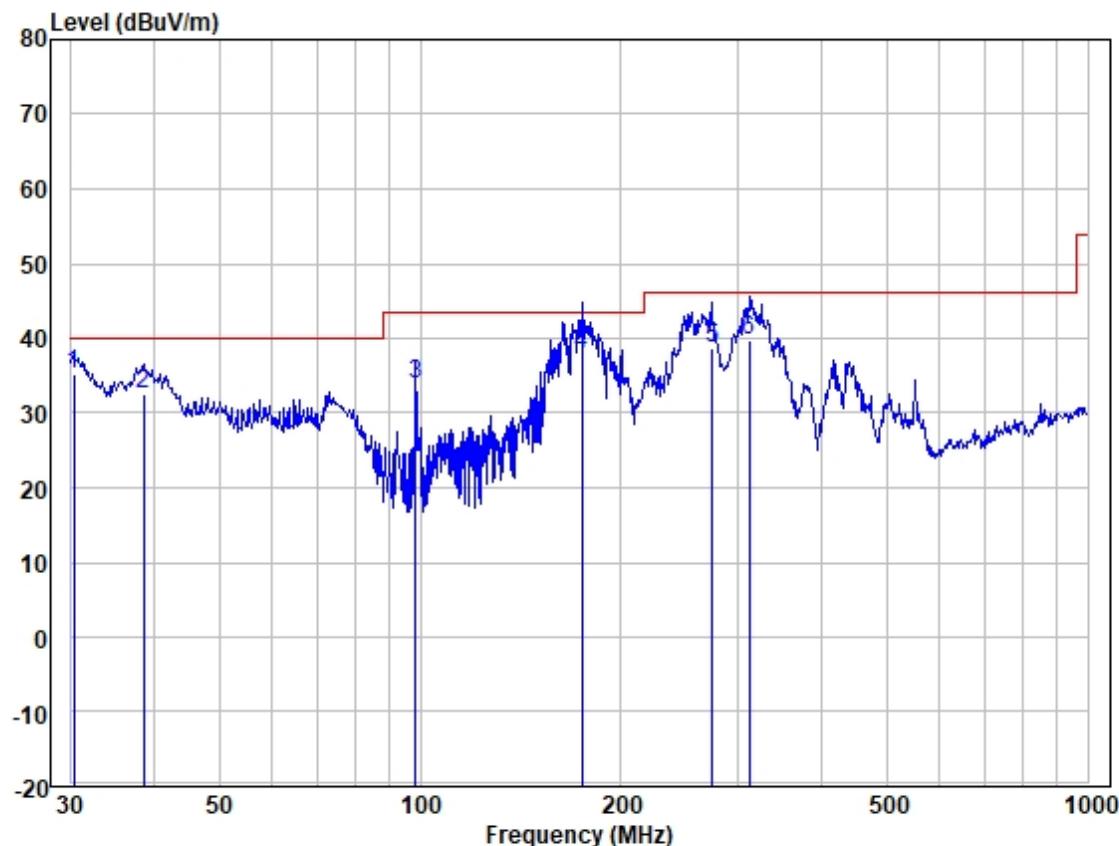
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 78.413	34.81	15.53	0.49	32.80	18.03	40.00	-21.97	HORIZONTAL	QP
2 121.123	38.05	17.35	0.60	32.80	23.20	43.52	-20.32	HORIZONTAL	QP
3 159.784	40.88	19.21	0.70	32.80	27.99	43.52	-15.53	HORIZONTAL	QP
4 249.425	49.52	17.59	0.88	32.80	35.19	46.02	-10.83	HORIZONTAL	QP
5 315.481	52.05	19.64	0.99	32.80	39.88	46.02	-6.14	HORIZONTAL	QP
6 550.948	43.26	24.34	1.36	32.90	36.06	46.02	-9.96	HORIZONTAL	QP



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Test Mode: 06; Polarity: Vertical



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 30.317	50.55	17.23	0.30	32.87	35.21	40.00	-4.79	VERTICAL	QP
2 38.616	46.10	18.93	0.35	32.83	32.55	40.00	-7.45	VERTICAL	QP
3 98.487	51.81	14.41	0.54	32.80	33.96	43.52	-9.56	VERTICAL	QP
4 174.424	51.66	18.31	0.74	32.80	37.91	43.52	-5.61	VERTICAL	QP
5 274.194	52.07	18.52	0.95	32.80	38.74	46.02	-7.28	VERTICAL	QP
6 311.087	51.90	19.52	0.99	32.80	39.61	46.02	-6.41	VERTICAL	QP

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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220600084705



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t (86-20) 82155555 sgs.china@sgs.com

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2311001138LM

- End of the Report -



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