

TEST REPORT

Application No.:

GZEM2502001100HS

Applicant:

Guangdong Galanz Enterprises Co., Ltd.

Address of Applicant:

25 Ronggui Nan.Rd., Shunde, Foshan, Guangdong., China

Manufacturer:

Guangdong Galanz Appliances Manufacturing Co., Ltd.

Address of Manufacturer:

No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China

Factory:

Guangdong Galanz Appliances Manufacturing Co., Ltd.

Address of Factory:

No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China

Product Name:

Microwave oven

Model No.:

D90D25ASPRIII-WF(L2), D90D25(X)RIII-(Y), D90D25(X)RIII-(Y)(L2)

Variable (X) may be AL, AP, APH, DAPH, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9.

SMC0985KS, SMC0985KSC, ZSMC0985KS ♣

♣

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

Trade Mark:

Galanz, SHARP

Standard(s) :

47 CFR Part 18

Date of Receipt:

2025-02-24

Date of Test:

2025-03-03 to 2025-07-31

Date of Issue:

2025-08-11

Test Result:

Pass*

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

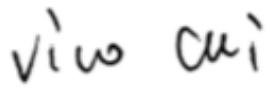


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Revision Record			
Version	Report No.	Date	Remark
01	GZEM250200110002	2025-08-11	Original

Authorized for issue by:			
Tested By	 Damon Guan/Project Engineer		
Approved By	 Vico Cui/Reviewer		



2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC/OST MP-5:1986	18.307	Pass
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (30MHz-1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (above 1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Output Power Measurement		FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement		FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test		FCC OST/MP-5:1986	1 mW/cm ²	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.:** D90D25ASPRIII-WF(L2), D90D25(X)RIII-(Y), D90D25(X)RIII-(Y)(L2)

Variable (X) may be AL, AP, APH, DAPH, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9.

SMC0985KS, SMC0985KSC, ZSMC0985KS

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 the outer appearance, model name.

There are two kinds of DC motor

Manufacture	Model
ZHAOLI	D6T30H2B02
Galanz	GAL-WBLDC001

Therefore only one model D90D25ASPRIII-WF(L2) with D6T30H2B02 motor was test full items, one model D90D25ASPRIII-WF(L2) with GAL-WBLDC001 motor was tested Conducted Emissions at Mains Terminals (150kHz-30MHz), Radiated Emissions (30MHz-1GHz) in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V 60Hz
Test voltage: AC 120V 60Hz
Microwave frequency: 2450MHz±50MHz
Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

1000mL of water in the beaker for power output and frequency measurement.
One of 700 and the other of 300mL of water for second and third harmonic radiation measurement.
700mL of water for all other measurement

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.22dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)	± 3.12dB
Radiated Emissions (30MHz-1GHz)	5.14dB (30MHz-1GHz):3m; 4.90dB (30MHz-1GHz):10m
Radiated Emissions (above 1GHz)	4.88dB (1GHz-6GHz); 5.06dB (6GHz-18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

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, 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 Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23
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	2024-09-02	2025-09-01
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2024-10-14	2025-10-13

Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2025-03-22	2028-03-21
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A



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Radiated Emissions (above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Output Power Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital thermometer	FLUKE	51_2	EMC2200	2025-07-10	2026-07-09
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2024-12-04	2025-12-03
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2024-12-04	2025-12-03
NET.Control	EMTEST	Ver 3.2.3	GZE100-80	N/A	N/A

Operating Frequency Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiation Hazard Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Electric Field Probe(100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2025-05-14	2026-05-13

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General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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6 Emission Test Results

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

Test Requirement:	47 CFR Part 18
Test Method:	FCC/OST MP-5:1986
Limit:	
Frequency Range:	150kHz to 30MHz
0.15 to 0.5 MHz:	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5 to 5 MHz:	56dB(μV) quasi-peak, 46dB(μV) average
5 to 30 MHz:	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

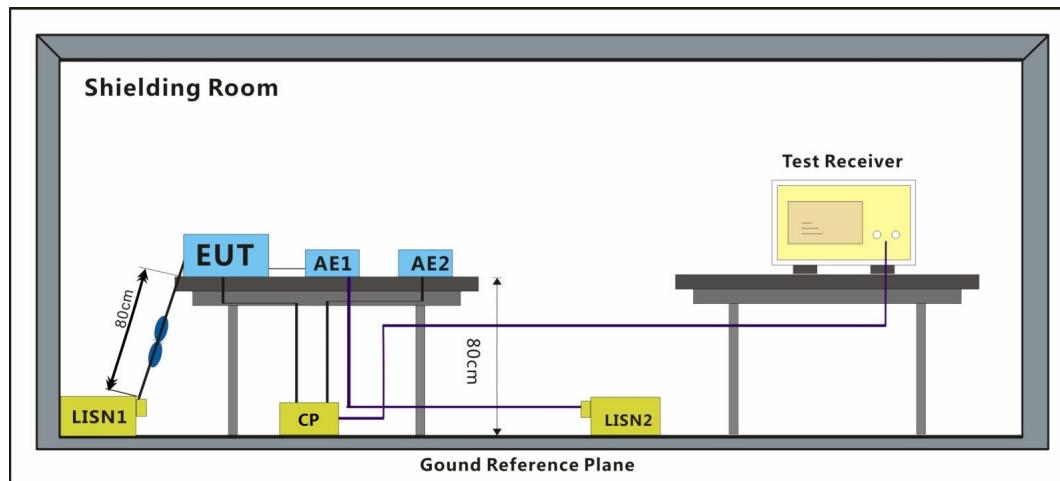
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.7 °C Humidity: 57.1 % RH Atmospheric Pressure: 1012 mbar

6.1.2 Test Mode Description

Pre-scan / Mode	Final test	Code	Description
Final test	00		Test the EUT in microwave mode with maximum power.
Pre-scan	01		Test the EUT in microwave mode with middle power.
Pre-scan	02		Test the EUT in microwave mode with lowest power.

6.1.3 Test Setup Diagram



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6.1.4 Measurement Procedure and Data

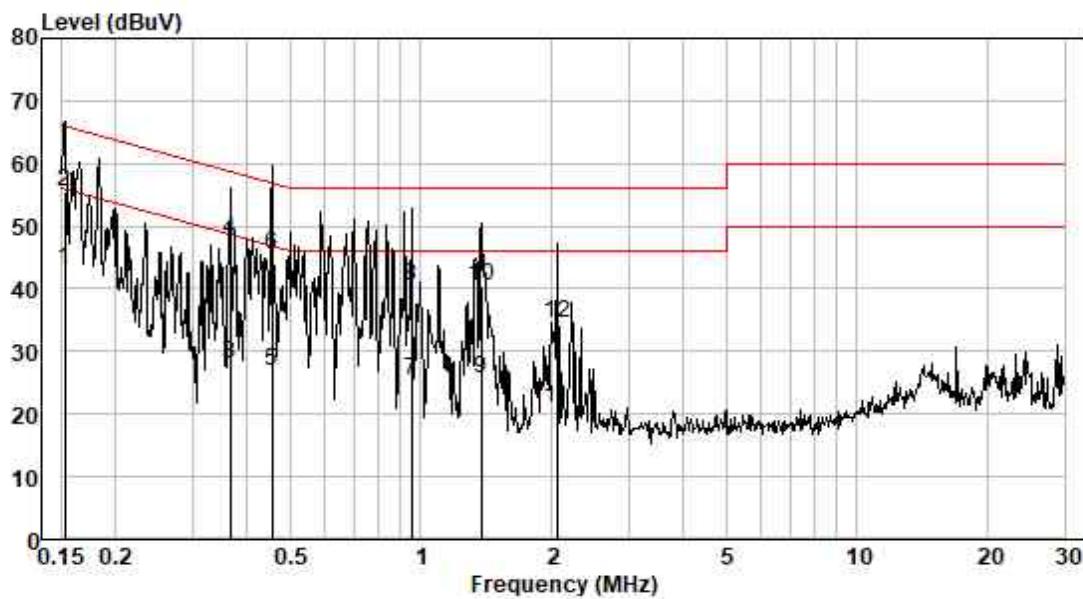
Frequency range: 150KHz-30MHz

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.

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

Measured Level = Read level + Cable Loss + LISN Factor

Test Mode: 00; Line: Live line; with D6T30H2B02 motor



Pol : LINE

Mode :

Model :

Power :

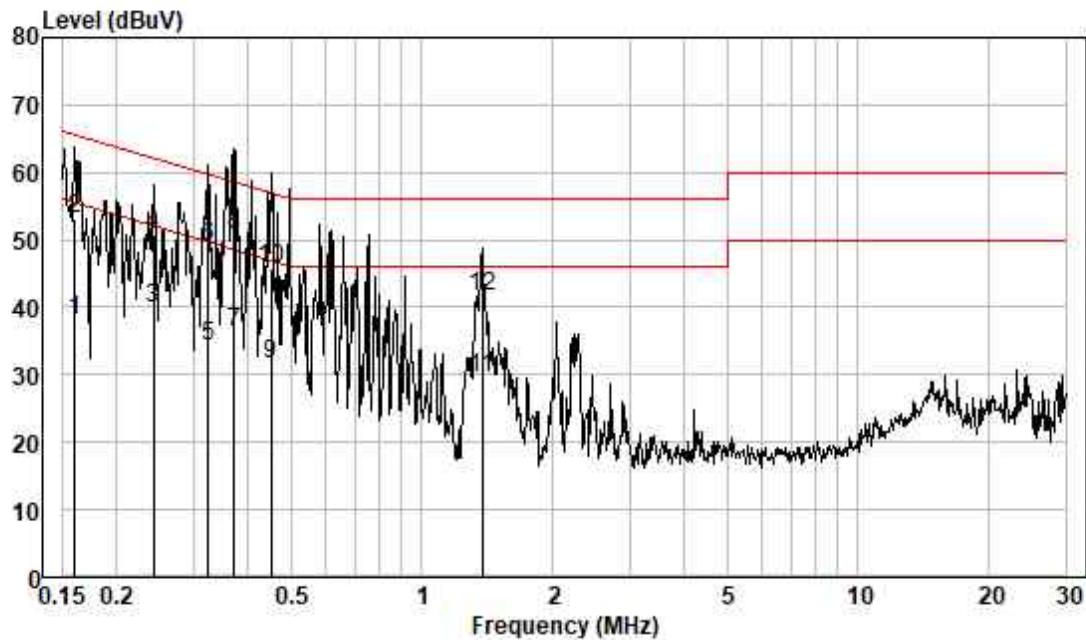
Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1 0.152	33.35	0.04	9.57	42.96	55.87	-12.91	Average
2 0.152	45.89	0.04	9.57	55.50	65.87	-10.37	QP
3 0.365	18.54	0.05	9.57	28.16	48.61	-20.45	Average
4 0.365	38.15	0.05	9.57	47.77	58.61	-10.84	QP
5 0.456	17.37	0.05	9.57	26.99	46.76	-19.77	Average
6 0.456	35.73	0.05	9.57	45.35	56.76	-11.41	QP
7 0.953	15.73	0.07	9.57	25.37	46.00	-20.63	Average
8 0.953	30.76	0.07	9.57	40.40	56.00	-15.60	QP
9 1.374	15.97	0.10	9.57	25.64	46.00	-20.36	Average
10 1.374	30.71	0.10	9.57	40.38	56.00	-15.62	QP
11 2.055	11.18	0.13	9.60	20.91	46.00	-25.09	Average
12 2.055	24.83	0.13	9.60	34.56	56.00	-21.44	QP



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Test Mode: 00; Line: Neutral Line; with D6T30H2B02 motor



Pol :NEUTRAL

Mode :

Model :

Power :

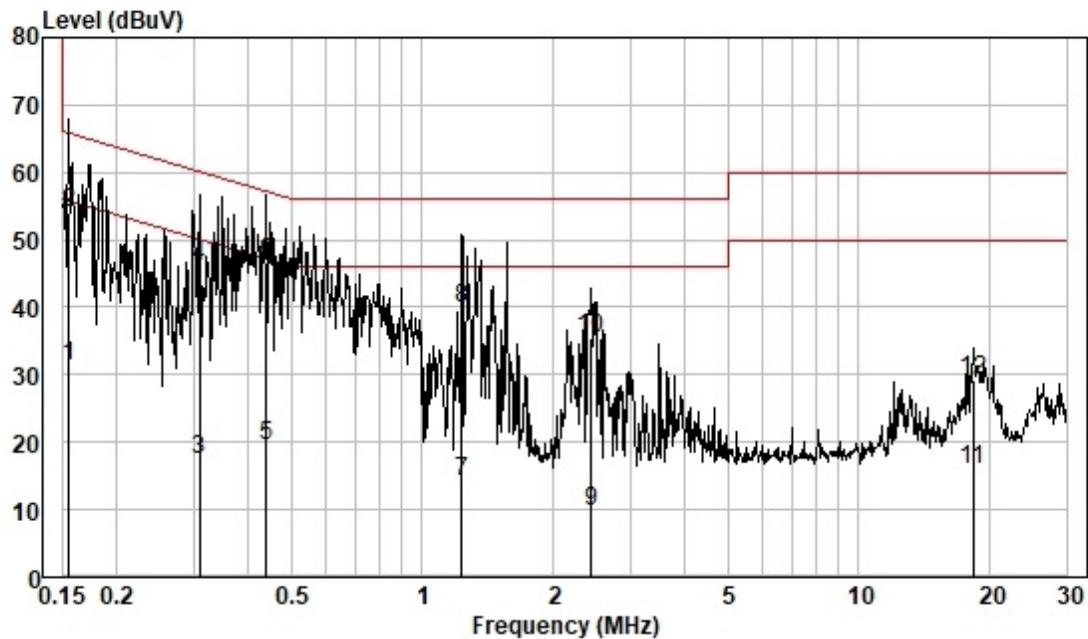
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.160	28.38	0.04	9.53	37.95	55.47	-17.52	Average
2	0.160	43.51	0.04	9.53	53.08	65.47	-12.39	QP
3	0.243	30.15	0.04	9.53	39.72	52.00	-12.28	Average
4	0.243	41.16	0.04	9.53	50.73	62.00	-11.27	QP
5	0.323	24.78	0.04	9.52	34.34	49.62	-15.28	Average
6	0.323	39.41	0.04	9.52	48.97	59.62	-10.65	QP
7	0.371	26.75	0.05	9.52	36.32	48.47	-12.15	Average
8	0.371	41.06	0.05	9.52	50.63	58.47	-7.84	QP
9	0.452	21.98	0.05	9.56	31.59	46.85	-15.26	Average
10	0.452	36.25	0.05	9.56	45.86	56.85	-10.99	QP
11	1.374	19.82	0.10	9.54	29.46	46.00	-16.54	Average
12	1.374	31.88	0.10	9.54	41.52	56.00	-14.48	QP



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Test Mode: 00; Line: Live line; with GAL-WBLDC001 motor



Pol : LINE

Mode :

Model :

Power :

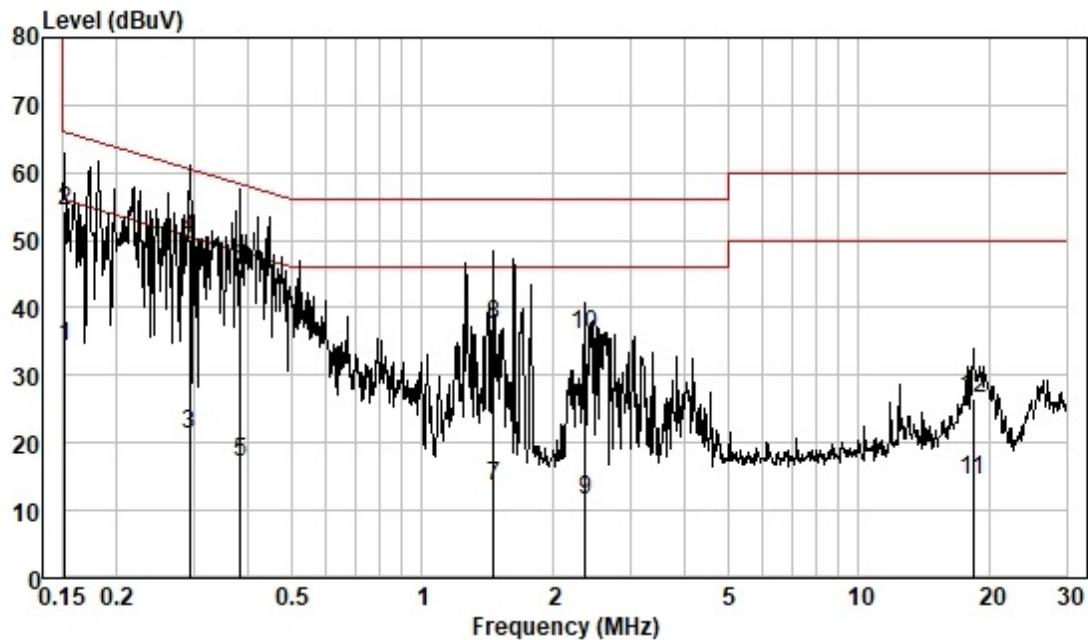
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.155	21.73	0.04	9.55	31.32	55.74	-24.42	Average
2	0.155	44.55	0.04	9.55	54.14	65.74	-11.60	QP
3	0.308	7.91	0.04	9.56	17.51	50.02	-32.51	Average
4	0.308	36.53	0.04	9.56	46.13	60.02	-13.89	QP
5	0.440	9.81	0.05	9.56	19.42	47.07	-27.65	Average
6	0.440	36.99	0.05	9.56	46.60	57.07	-10.47	QP
7	1.229	4.52	0.09	9.56	14.17	46.00	-31.83	Average
8	1.229	30.19	0.09	9.56	39.84	56.00	-16.16	QP
9	2.435	0.13	0.14	9.57	9.84	46.00	-36.16	Average
10	2.435	25.77	0.14	9.57	35.48	56.00	-20.52	QP
11	18.232	5.58	0.36	9.86	15.80	50.00	-34.20	Average
12	18.232	19.01	0.36	9.86	29.23	60.00	-30.77	QP



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Test Mode: 00; Line: Neutral Line; with GAL-WBLDC001 motor



Pol : NEUTRAL

Mode :

Model :

Power :

	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
Frequenc MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 0.152	24.73	0.04	9.52	34.29	55.91	-21.62	Average
2 0.152	44.80	0.04	9.52	54.36	65.91	-11.55	QP
3 0.292	11.63	0.04	9.53	21.20	50.46	-29.26	Average
4 0.292	40.70	0.04	9.53	50.27	60.46	-10.19	QP
5 0.383	7.56	0.05	9.54	17.15	48.21	-31.06	Average
6 0.383	36.11	0.05	9.54	45.70	58.21	-12.51	QP
7 1.456	3.83	0.10	9.55	13.48	46.00	-32.52	Average
8 1.456	27.87	0.10	9.55	37.52	56.00	-18.48	QP
9 2.358	1.80	0.14	9.56	11.50	46.00	-34.50	Average
10 2.358	26.42	0.14	9.56	36.12	56.00	-19.88	QP
11 18.232	4.21	0.36	9.91	14.48	50.00	-35.52	Average
12 18.232	16.32	0.36	9.91	26.59	60.00	-33.41	QP



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6.2 Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)

Test Requirement: 47 CFR Part 18

Test Method: FCC/OST MP-5:1986

Limit:

Measurement Distance: 3 m

Frequency Range: 9kHz to 30MHz

Detector: Peak for pre-scan, Average for the final result

(200Hz Resolution Bandwidth for 9kHz to 150kHz;

9kHz Resolution Bandwidth for 150kHz to 30MHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit
			dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	856.6	Limit=20lg(25*SQRT(power/500))+20lg(300/3)= 70.3 dBuV/m @ 3m distance.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 59.2 % RH Atmospheric Pressure: 1012 mbar

6.2.2 Test Mode Description

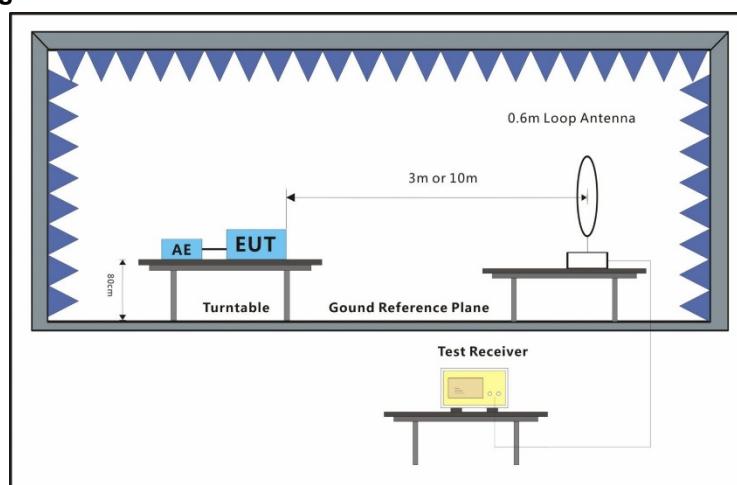
Pre-scan / Mode Final test Description

Final test 00 Test the EUT in microwave mode with maximum power.

Pre-scan 01 Test the EUT in microwave mode with middle power.

Pre-scan 02 Test the EUT in microwave mode with lowest power.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

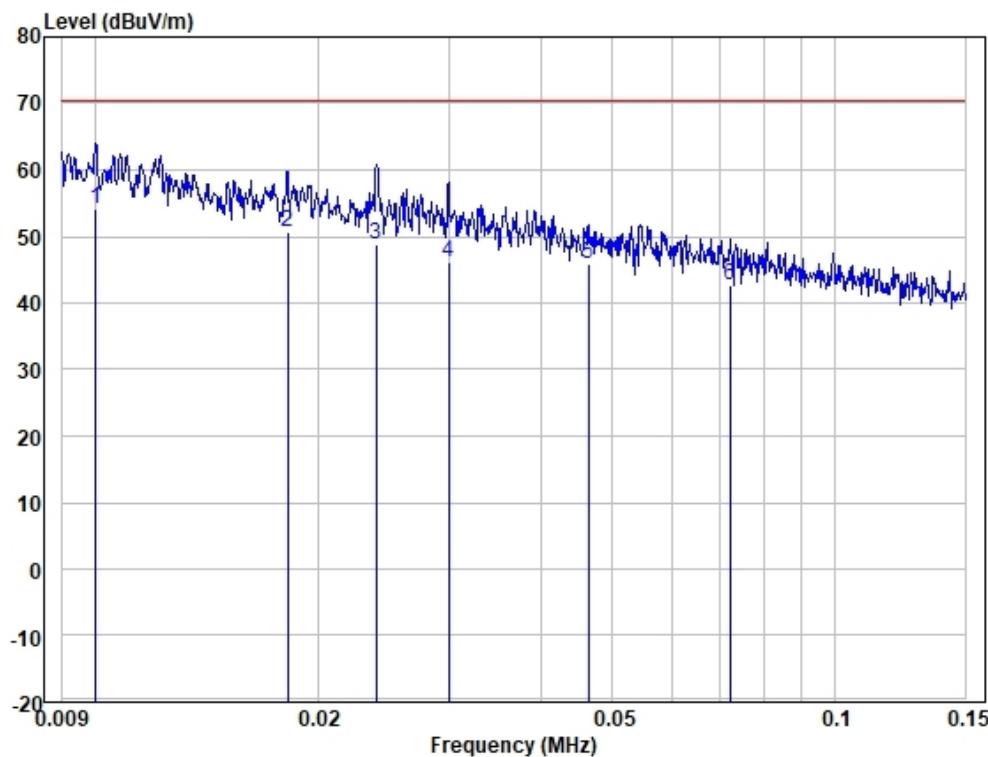
Frequency range: 9KHz-30MHz

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 loop antenna with 2 orthogonal polarities.

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

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

Test Mode: 00; Polarity: Horizontal



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.010	65.23	21.52	0.01	32.72	54.04	70.30	-16.26	HORIZONTAL	Average
2 0.018	66.09	17.29	0.01	32.72	50.67	70.30	-19.63	HORIZONTAL	Average
3 0.024	65.18	16.46	0.01	32.72	48.93	70.30	-21.37	HORIZONTAL	Average
4 0.030	63.14	15.73	0.01	32.72	46.16	70.30	-24.14	HORIZONTAL	Average
5 0.046	63.49	15.01	0.01	32.72	45.79	70.30	-24.51	HORIZONTAL	Average
6 0.072	60.58	14.82	0.01	32.72	42.69	70.30	-27.61	HORIZONTAL	Average

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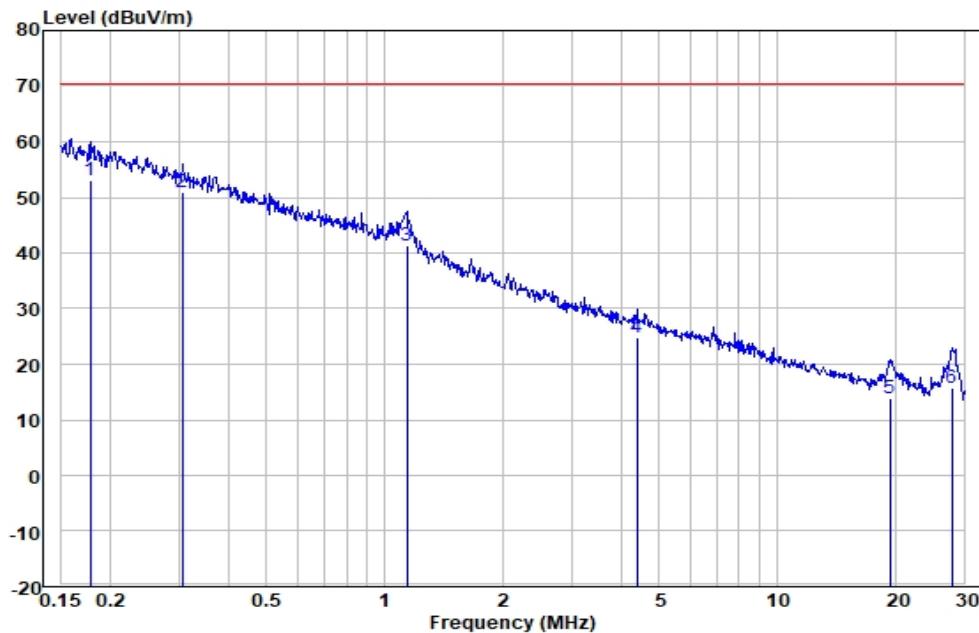
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Test Mode: 00; Polarity: Horizontal



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.178	70.97	14.68	0.01	32.72	52.94	70.30	-17.36	HORIZONTAL	Average
2 0.305	68.95	14.64	0.01	32.72	50.88	70.30	-19.42	HORIZONTAL	Average
3 1.141	60.69	13.38	0.05	32.70	41.42	70.30	-28.88	HORIZONTAL	Average
4 4.407	44.63	12.89	0.08	32.70	24.90	70.30	-45.40	HORIZONTAL	Average
5 19.428	36.80	9.48	0.23	32.72	13.79	70.30	-56.51	HORIZONTAL	Average
6 27.855	42.45	5.85	0.29	32.74	15.85	70.30	-54.45	HORIZONTAL	Average



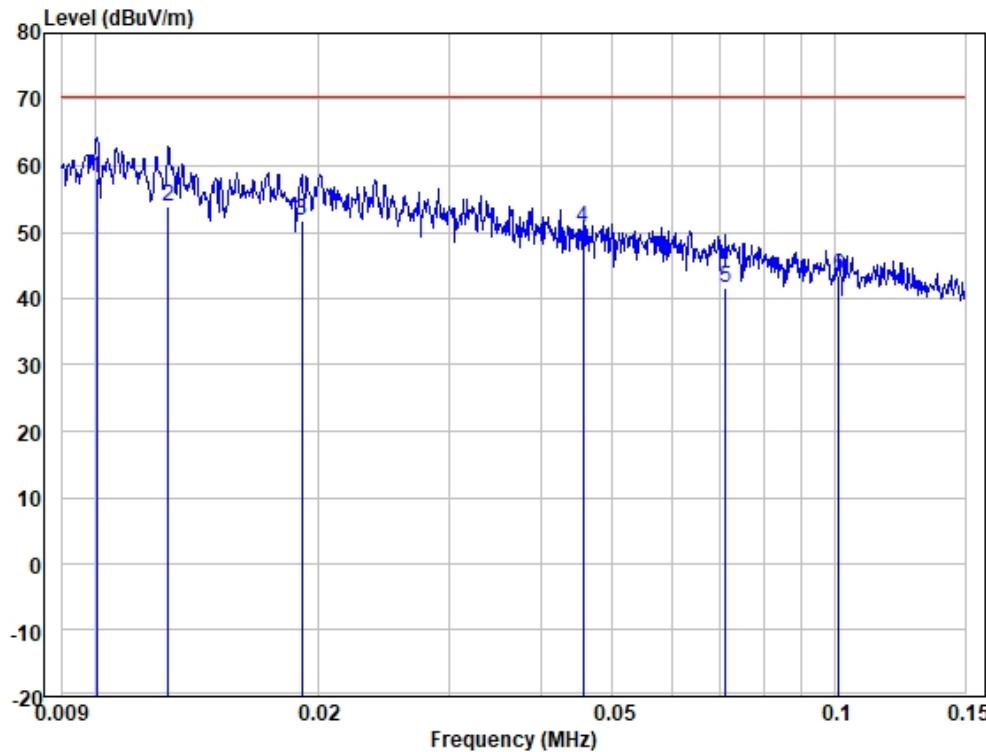
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Test Mode: 00; Polarity: Vertical



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	—	—
1 0.010	69.45	21.52	0.01	32.72	58.26	70.30	-12.04	VERTICAL	Average
2 0.013	66.45	20.24	0.01	32.72	53.98	70.30	-16.32	VERTICAL	Average
3 0.019	67.21	17.16	0.01	32.72	51.66	70.30	-18.64	VERTICAL	Average
4 0.046	68.30	15.03	0.01	32.72	50.62	70.30	-19.68	VERTICAL	Average
5 0.071	59.37	14.82	0.01	32.72	41.48	70.30	-28.82	VERTICAL	Average
6 0.101	61.36	14.75	0.01	32.72	43.40	70.30	-26.90	VERTICAL	Average

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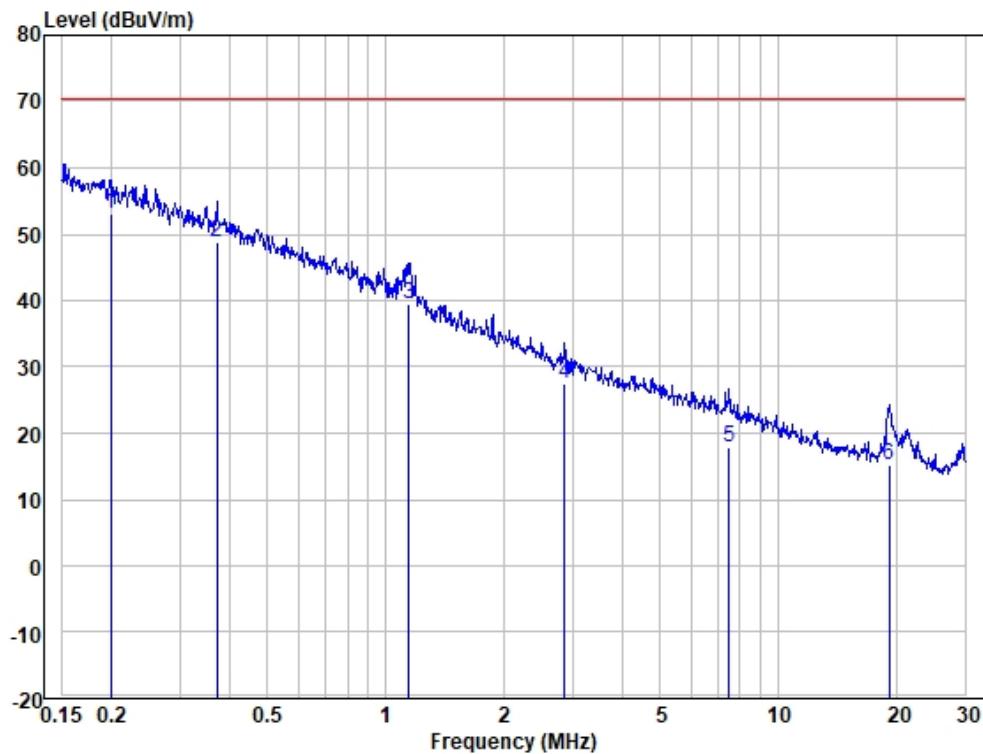
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Test Mode: 00; Polarity: Vertical



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	—	—
1 0.200	71.23	14.67	0.01	32.72	53.19	70.30	-17.11	VERTICAL	Average
2 0.371	67.01	14.57	0.01	32.72	48.87	70.30	-21.43	VERTICAL	Average
3 1.147	58.85	13.39	0.05	32.70	39.59	70.30	-30.71	VERTICAL	Average
4 2.854	46.61	13.52	0.07	32.70	27.50	70.30	-42.80	VERTICAL	Average
5 7.486	38.00	12.35	0.13	32.71	17.77	70.30	-52.53	VERTICAL	Average
6 19.224	38.18	9.49	0.23	32.72	15.18	70.30	-55.12	VERTICAL	Average

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6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18

Test Method: FCC/OST MP-5:1986

Limit:

Measurement Distance: 3 m

Frequency Range: 30 MHz to 1 GHz

Detector: Peak for pre-scan, average for the final result

(120 kHz Resolution Bandwidth for 30 MHz to 1 GHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	856.6	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.3 dBuV/m @ 3m distance.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.1 °C Humidity: 59.2 % RH Atmospheric Pressure: 1012 mbar

6.3.2 Test Mode Description

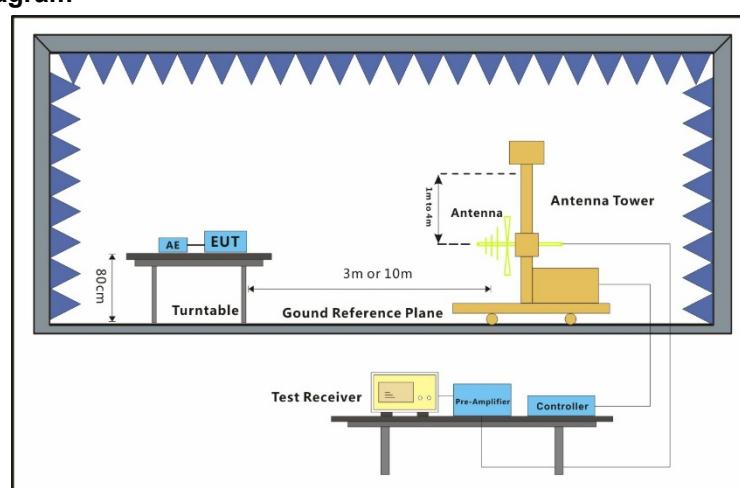
Pre-scan / Mode
Final test Code Description

Final test 00 Test the EUT in microwave mode with maximum power.

Pre-scan 01 Test the EUT in microwave mode with middle power.

Pre-scan 02 Test the EUT in microwave mode with lowest power.

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

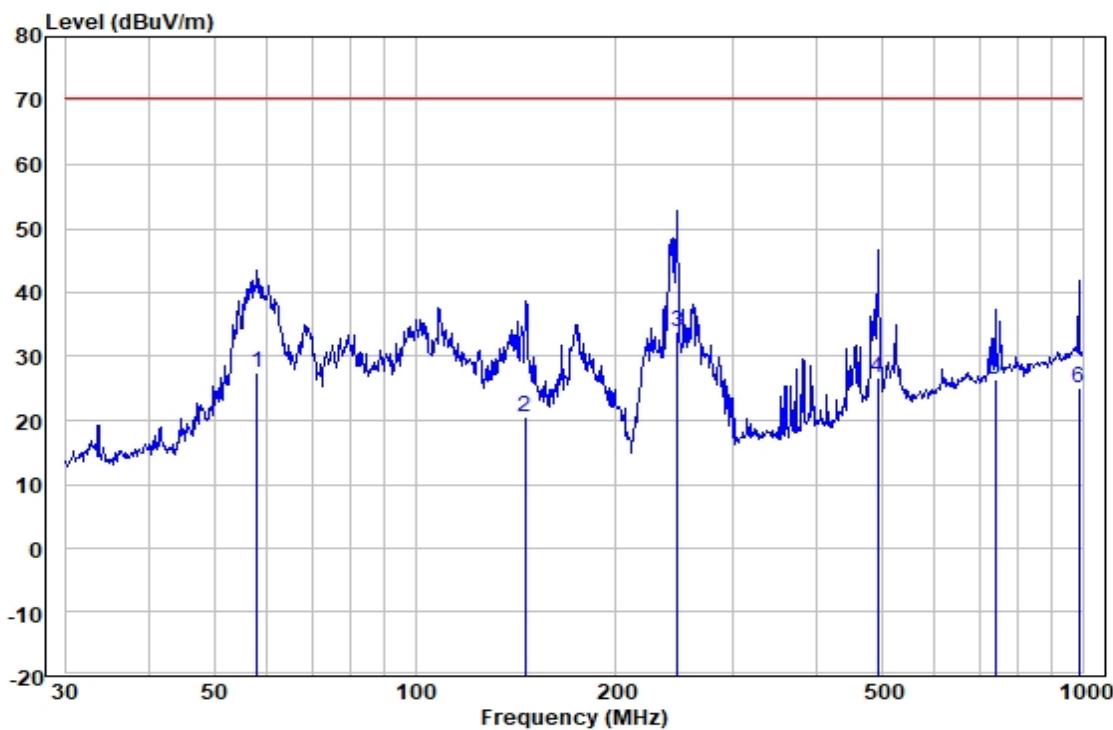
Frequency range: 30MHz-1GHz

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 BiConiLog antenna with 2 orthogonal polarities.

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

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

Test Mode: 00; Polarity: Horizontal; with D6T30H2B02 motor



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 57.999	40.91	18.99	0.41	32.78	27.53	70.30	-42.77	HORIZONTAL	Average
2 146.374	33.77	18.87	0.66	32.74	20.56	70.30	-49.74	HORIZONTAL	Average
3 246.815	48.19	17.52	0.87	32.84	33.74	70.30	-36.56	HORIZONTAL	Average
4 492.469	34.91	23.38	1.28	32.94	26.63	70.30	-43.67	HORIZONTAL	Average
5 739.661	28.87	27.71	1.58	31.72	26.44	70.30	-43.86	HORIZONTAL	Average
6 986.072	23.96	29.85	1.83	30.67	24.97	70.30	-45.33	HORIZONTAL	Average

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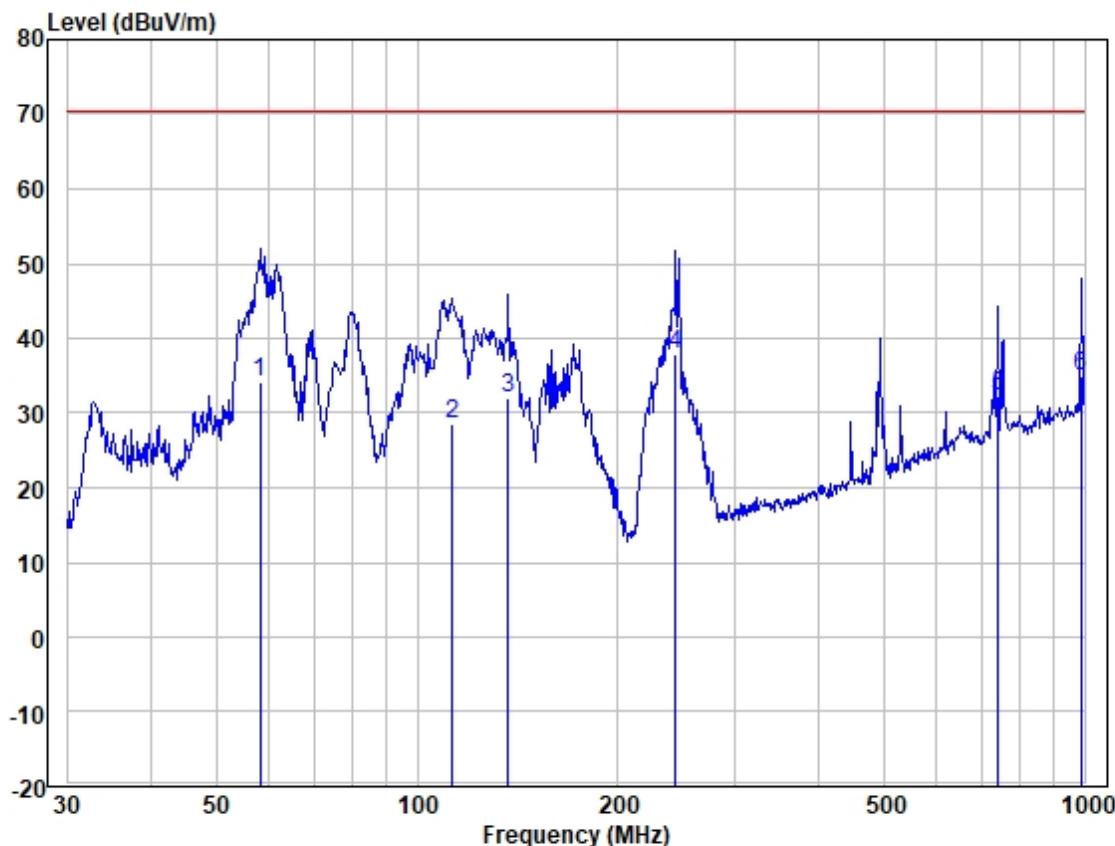
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Test Mode: 00; Polarity: Vertical; with D6T30H2B02 motor



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 58.203	47.44	18.99	0.41	32.78	34.06	70.30	-36.24	VERTICAL	Average
2 112.920	44.16	16.40	0.58	32.71	28.43	70.30	-41.87	VERTICAL	Average
3 136.939	45.59	18.50	0.64	32.73	32.00	70.30	-38.30	VERTICAL	Average
4 243.377	52.34	17.40	0.86	32.83	37.77	70.30	-32.53	VERTICAL	Average
5 742.259	34.64	27.81	1.58	31.72	32.31	70.30	-37.99	VERTICAL	Average
6 986.072	33.90	29.85	1.83	30.67	34.91	70.30	-35.39	VERTICAL	Average

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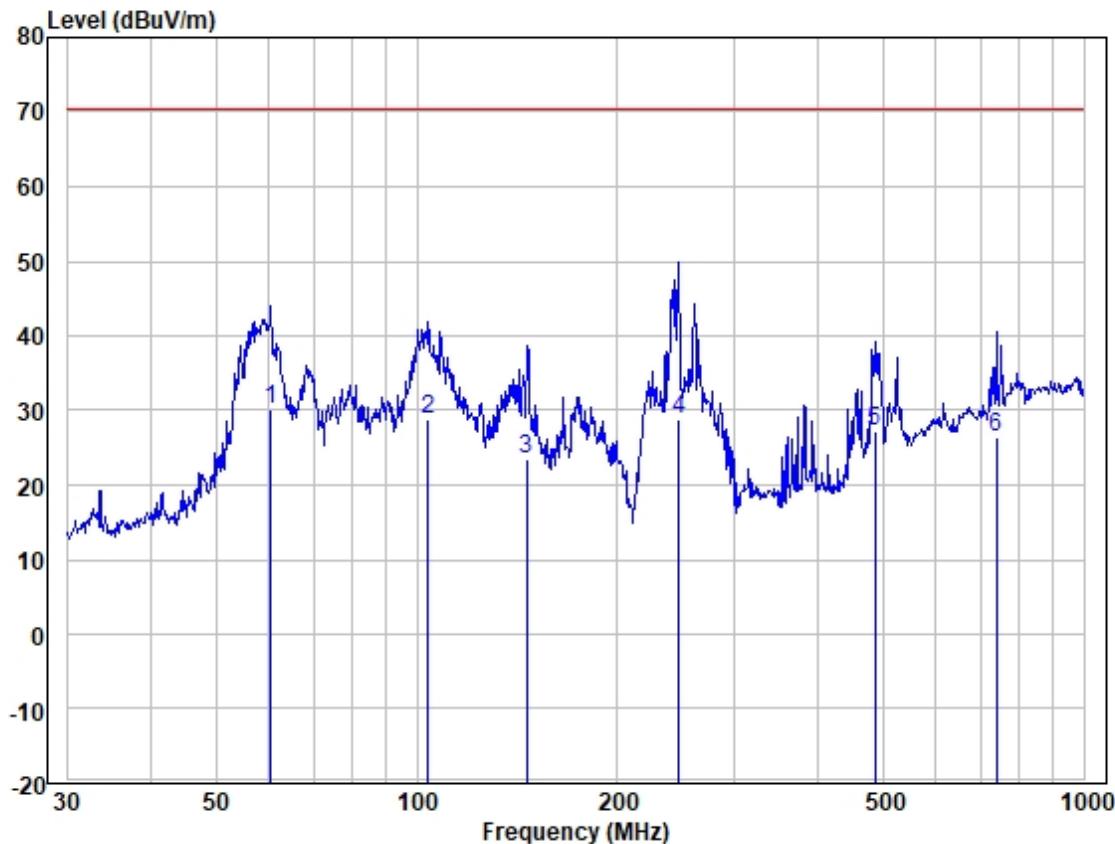
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Test Mode: 00; Polarity: Horizontal; with GAL-WBLDC001 motor



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	—	—
1 60.492	43.63	18.79	0.41	32.78	30.05	70.30	-40.25	HORIZONTAL	Average
2 104.170	45.72	15.18	0.55	32.70	28.75	70.30	-41.55	HORIZONTAL	Average
3 146.374	36.77	18.87	0.66	32.74	23.56	70.30	-46.74	HORIZONTAL	Average
4 246.815	43.19	17.52	0.87	32.84	28.74	70.30	-41.56	HORIZONTAL	Average
5 485.609	35.67	23.22	1.28	32.94	27.23	70.30	-43.07	HORIZONTAL	Average
6 739.661	28.87	27.71	1.58	31.72	26.44	70.30	-43.86	HORIZONTAL	Average

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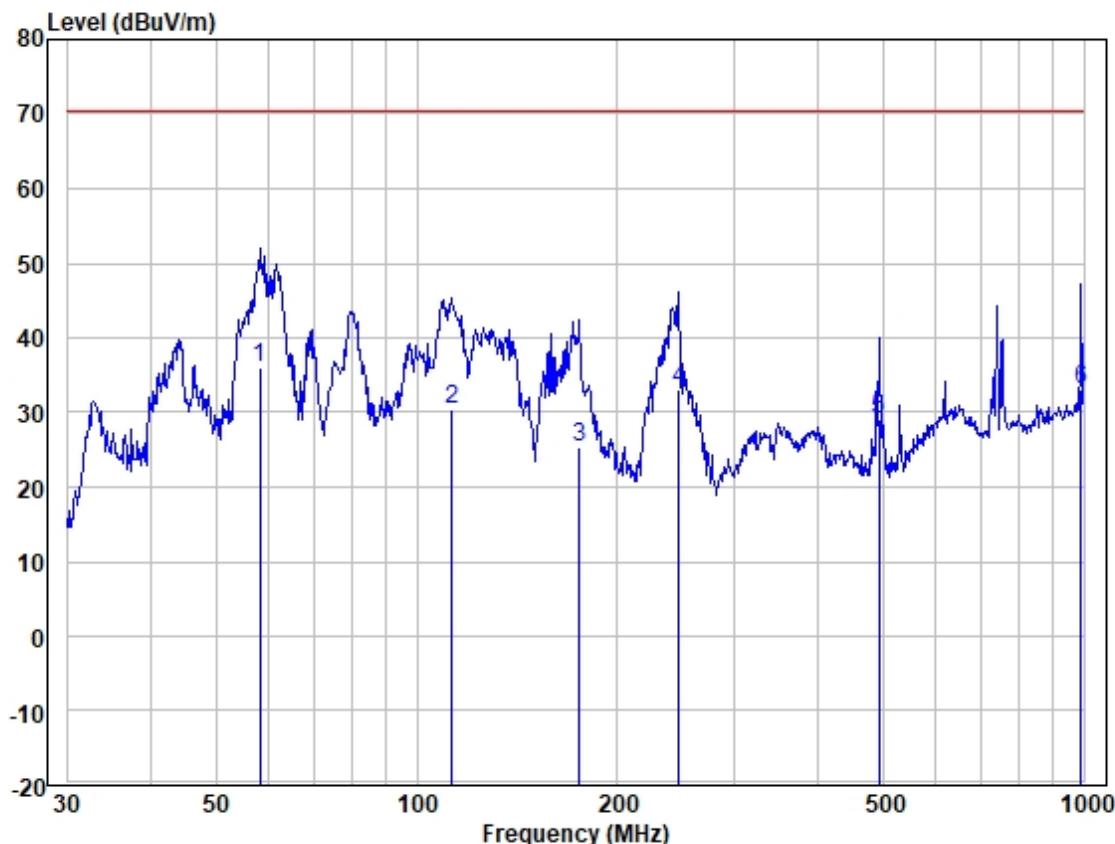
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Test Mode: 00; Polarity: Vertical; with GAL-WBLDC001 motor



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 58.203	49.44	18.99	0.41	32.78	36.06	70.30	-34.24	VERTICAL	Average
2 112.920	46.16	16.40	0.58	32.71	30.43	70.30	-39.87	VERTICAL	Average
3 175.037	39.19	18.20	0.74	32.79	25.34	70.30	-44.96	VERTICAL	Average
4 246.815	47.56	17.52	0.87	32.84	33.11	70.30	-37.19	VERTICAL	Average
5 492.469	37.25	23.38	1.28	32.94	28.97	70.30	-41.33	VERTICAL	Average
6 989.536	32.12	29.80	1.84	30.66	33.10	70.30	-37.20	VERTICAL	Average



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6.4 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18

Test Method: FCC/OST MP-5:1986

Limit:

Measurement Distance: 3 m

Frequency Range: Above 1GHz

Detector: Peak for pre-scan, Average for the final result

(1MHz Resolution Bandwidth for 1000MHz Above)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	856.6	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.3 dBuV/m @ 3m distance.

6.4.1 E.U.T. Operation

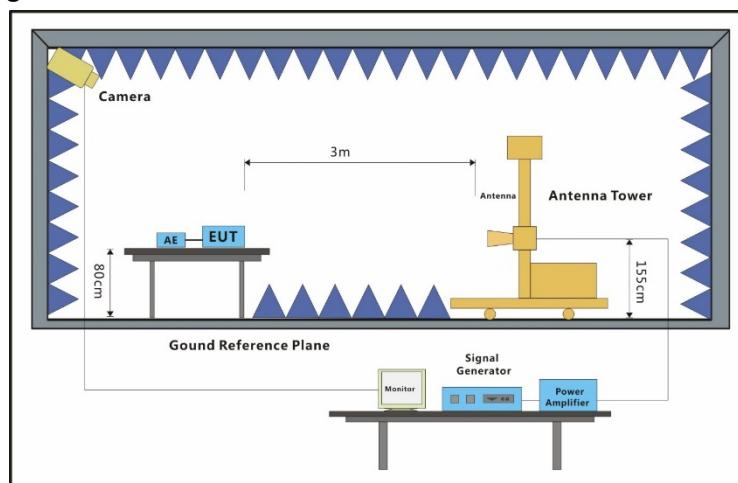
Operating Environment:

Temperature: 22.7 °C Humidity: 53.9 % RH Atmospheric Pressure: 1012 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.4.3 Test Setup Diagram



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6.4.4 Measurement Procedure and Data

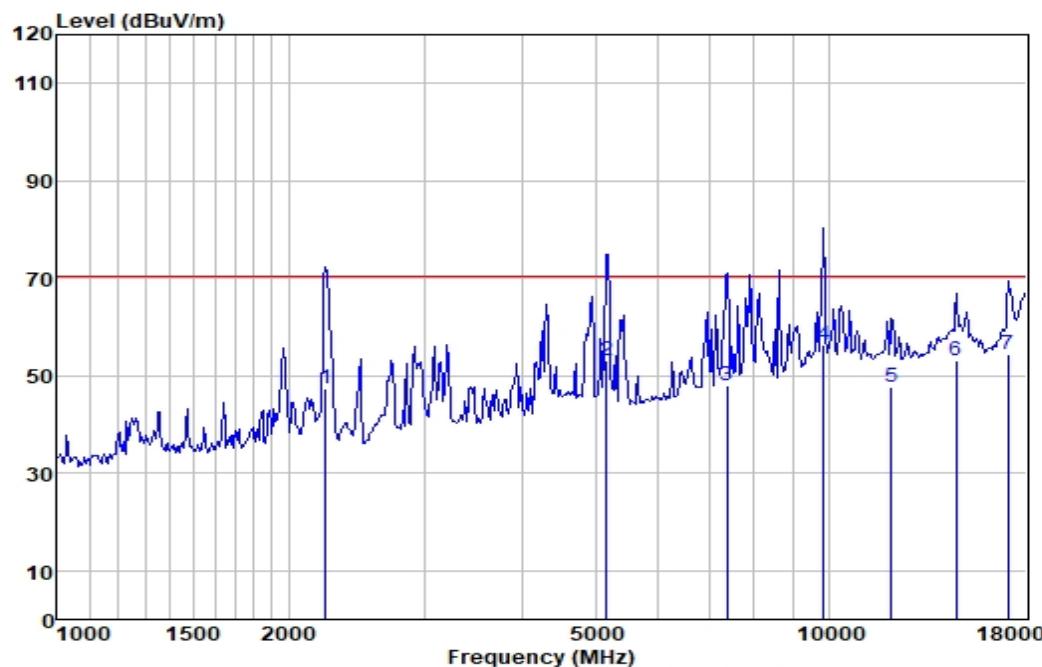
Frequency range: Above 1GHz

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.

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

Test Mode: 00; Polarity: Horizontal



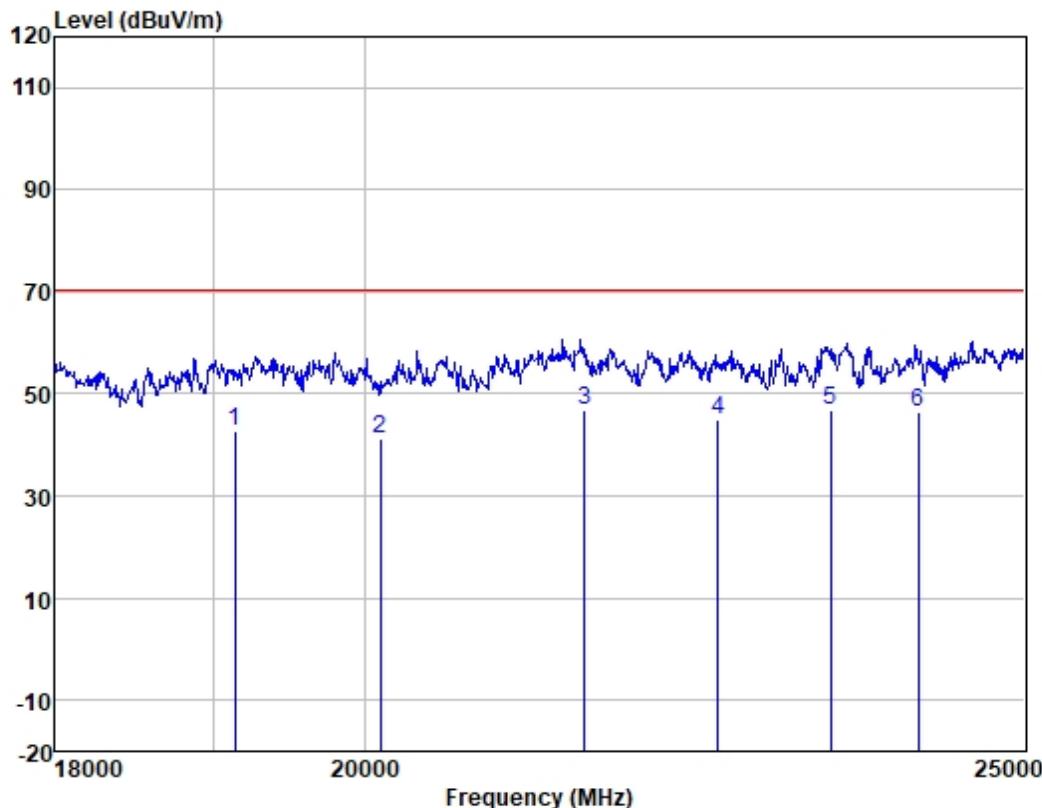
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark			
	Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Line	Limit	Pol/Phase	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2226.950	54.79	27.08	3.29	37.78	47.38	70.30	-22.92	HORIZONTAL	Average
2	5156.254	51.47	33.79	4.96	37.23	52.99	70.30	-17.31	HORIZONTAL	Average
3	7387.052	42.99	36.23	6.00	37.18	48.04	70.30	-22.26	HORIZONTAL	Average
4	9866.789	47.41	38.91	7.17	37.10	56.39	70.30	-13.91	HORIZONTAL	Average
5	12079.390	38.08	38.85	7.76	36.90	47.79	70.30	-22.51	HORIZONTAL	Average
6	14618.170	38.87	42.11	8.54	36.52	53.00	70.30	-17.30	HORIZONTAL	Average
7	17087.460	39.35	41.90	9.45	36.42	54.28	70.30	-16.02	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



Freq	ReadAntenna Level	Antenna Factor	Cable Loss		Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
			dB	dB/m						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	Phase	Remark
1 19134.130	41.74	37.06	3.19	39.41	42.58	70.30	-27.72	HORIZONTAL	Average	
2 20100.590	41.48	37.13	2.99	40.37	41.23	70.30	-29.07	HORIZONTAL	Average	
3 21543.270	45.43	37.59	3.28	39.44	46.86	70.30	-23.44	HORIZONTAL	Average	
4 22542.380	42.40	38.13	3.34	38.88	44.99	70.30	-25.31	HORIZONTAL	Average	
5 23417.970	42.86	38.59	3.38	38.04	46.79	70.30	-23.51	HORIZONTAL	Average	
6 24120.660	42.46	38.70	3.45	37.99	46.62	70.30	-23.68	HORIZONTAL	Average	

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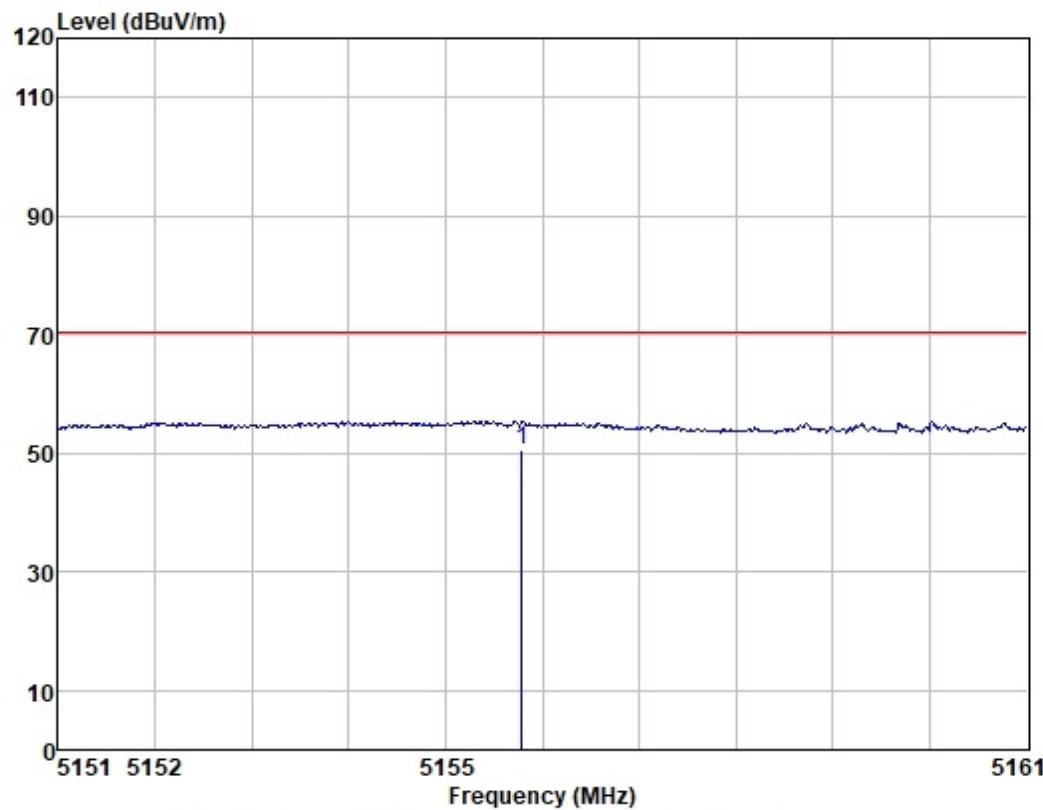
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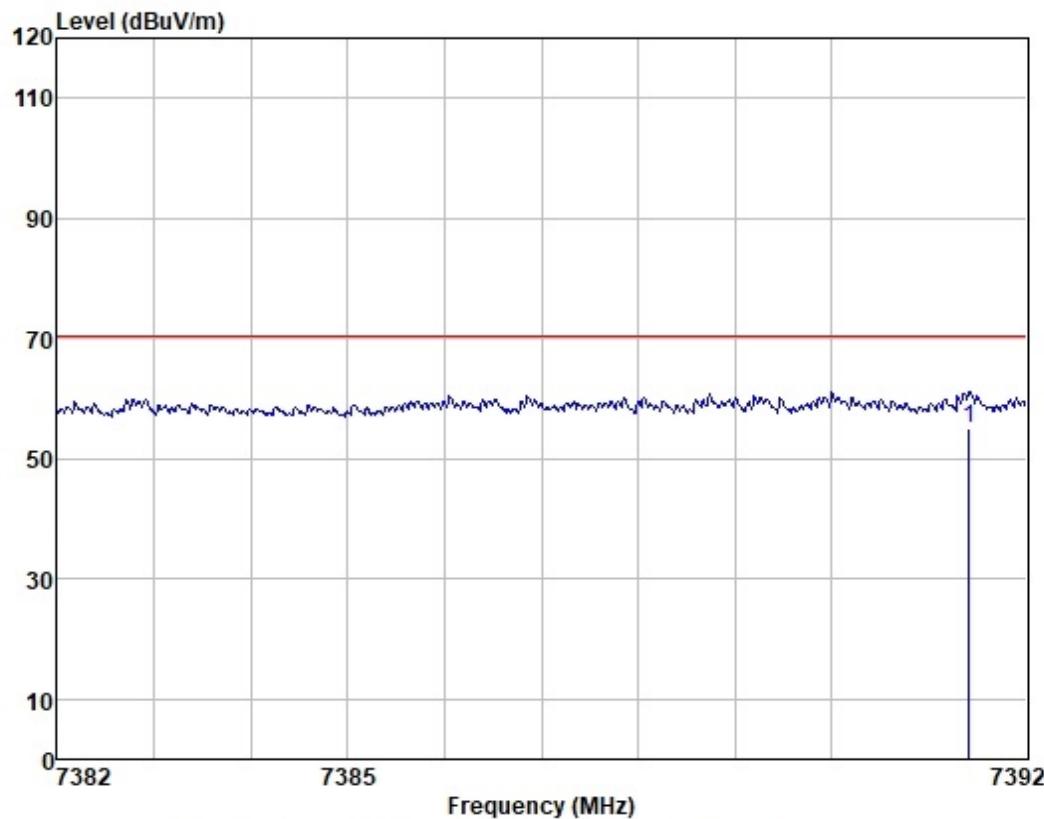
Test Mode: 00; Polarity: Horizontal



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Test Mode: 00; Polarity: Horizontal



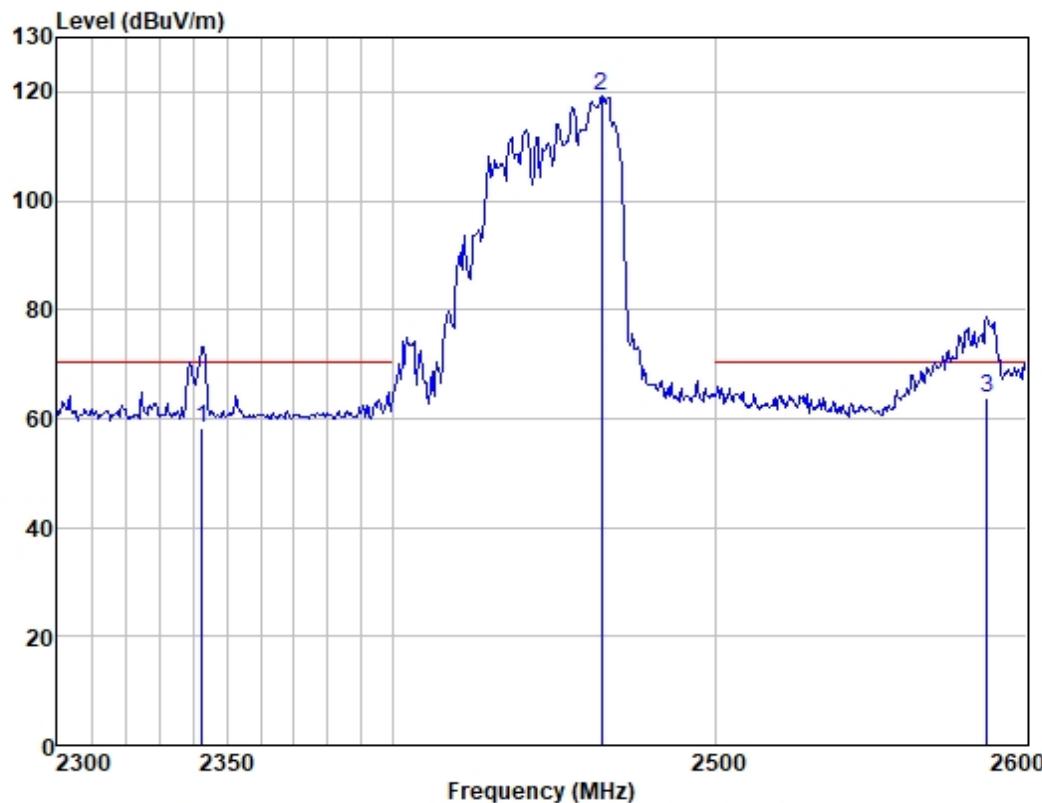
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 7391.419	50.15	36.23	6.00	37.18	55.20	70.30	-15.10	HORIZONTAL Average



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Test Mode: 00; Polarity: Horizontal



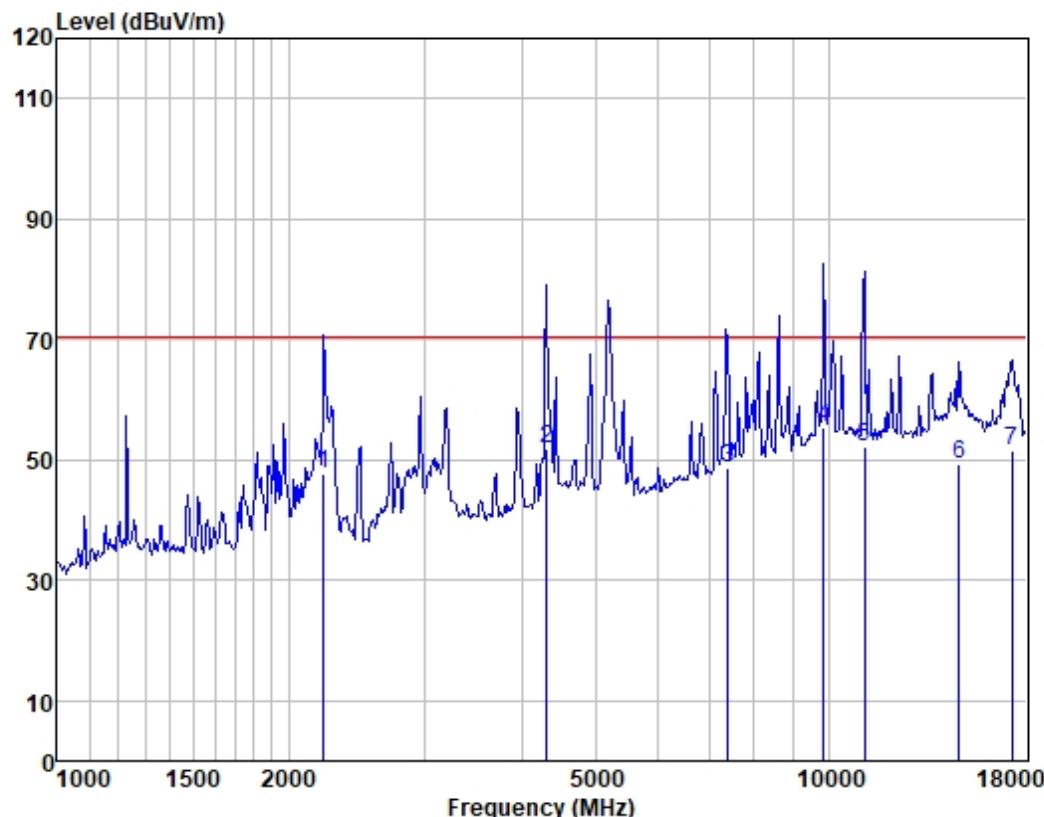
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Remark
	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2342.689	27.46	27.40	3.42	0.00	58.28	70.30	-12.02	HORIZONTAL Average
2	2464.063	88.18	27.72	3.48	0.00	119.38	-----	-----	HORIZONTAL peak
3	2587.281	31.96	28.15	3.53	0.00	63.64	70.30	-6.66	HORIZONTAL Average



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Test Mode: 00; Polarity: Vertical



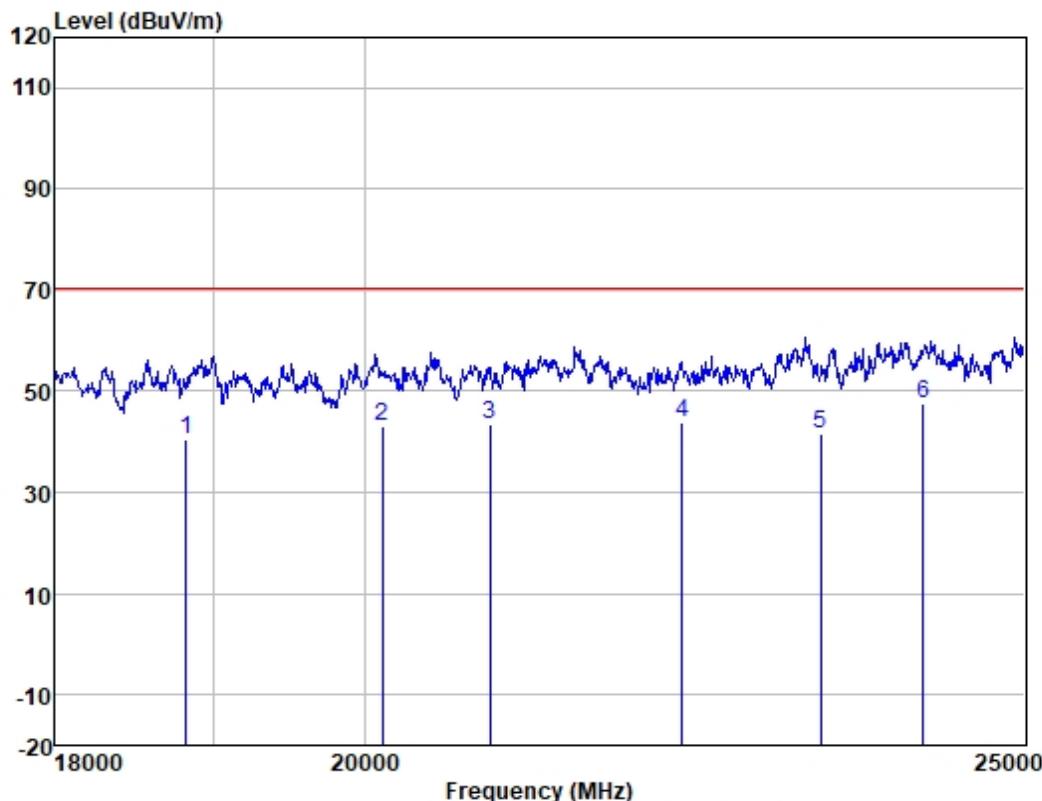
Freq	ReadAntenna		Cable Preamp		Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2214.114	55.19	27.00	3.27	37.79	47.67	70.30	-22.63 VERTICAL Average
2	4316.525	51.69	33.15	4.59	37.47	51.96	70.30	-18.34 VERTICAL Average
3	7401.567	43.54	36.28	6.01	37.18	48.65	70.30	-21.65 VERTICAL Average
4	9866.789	46.53	38.91	7.17	37.10	55.51	70.30	-14.79 VERTICAL Average
5	11140.310	41.35	40.38	7.54	36.97	52.30	70.30	-18.00 VERTICAL Average
6	14788.150	35.29	41.56	8.79	36.51	49.13	70.30	-21.17 VERTICAL Average
7	17286.170	35.81	42.72	9.52	36.41	51.64	70.30	-18.66 VERTICAL Average



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Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV/m	dB		
1 18816.230	39.60	37.03	3.20	39.29	40.54	70.30	-29.76	VERTICAL	Average	
2 20113.800	43.34	37.14	3.01	40.35	43.14	70.30	-27.16	VERTICAL	Average	
3 20860.760	41.53	37.61	3.21	38.86	43.49	70.30	-26.81	VERTICAL	Average	
4 22270.040	42.13	37.84	3.35	39.56	43.76	70.30	-26.54	VERTICAL	Average	
5 23341.160	37.87	38.57	3.37	38.08	41.73	70.30	-28.57	VERTICAL	Average	
6 24168.250	43.66	38.70	3.45	38.05	47.76	70.30	-22.54	VERTICAL	Average	

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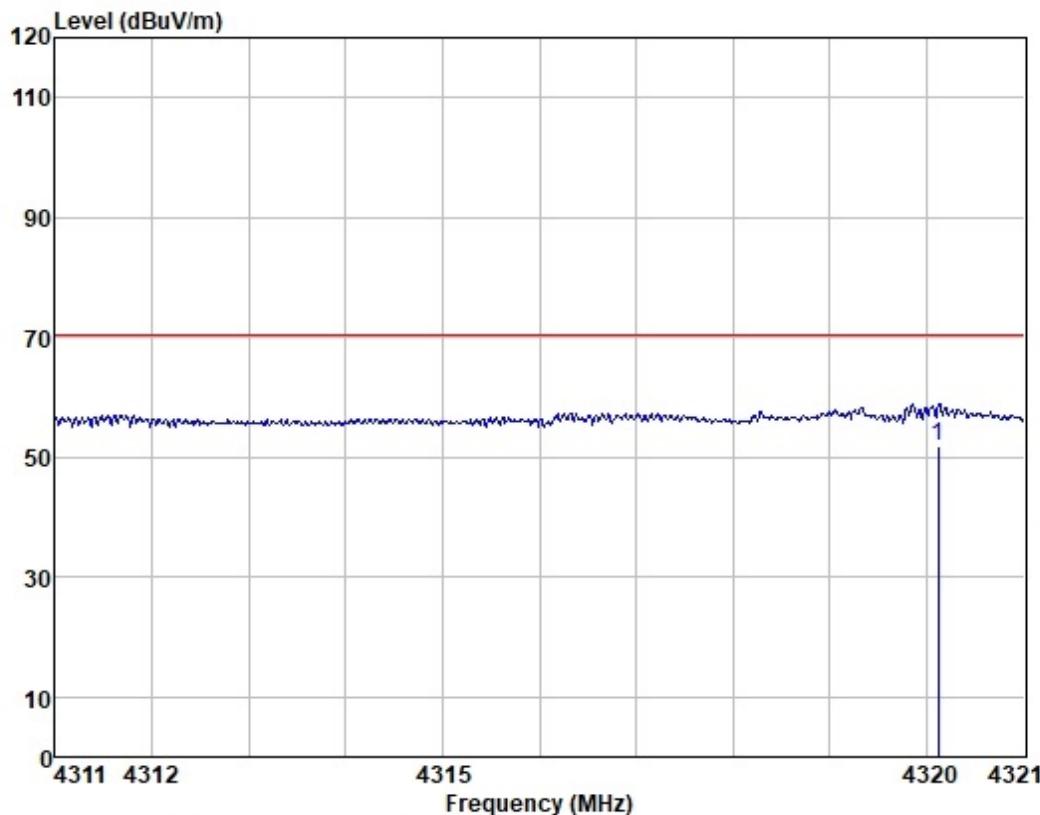
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Test Mode: 00; Polarity: Vertical



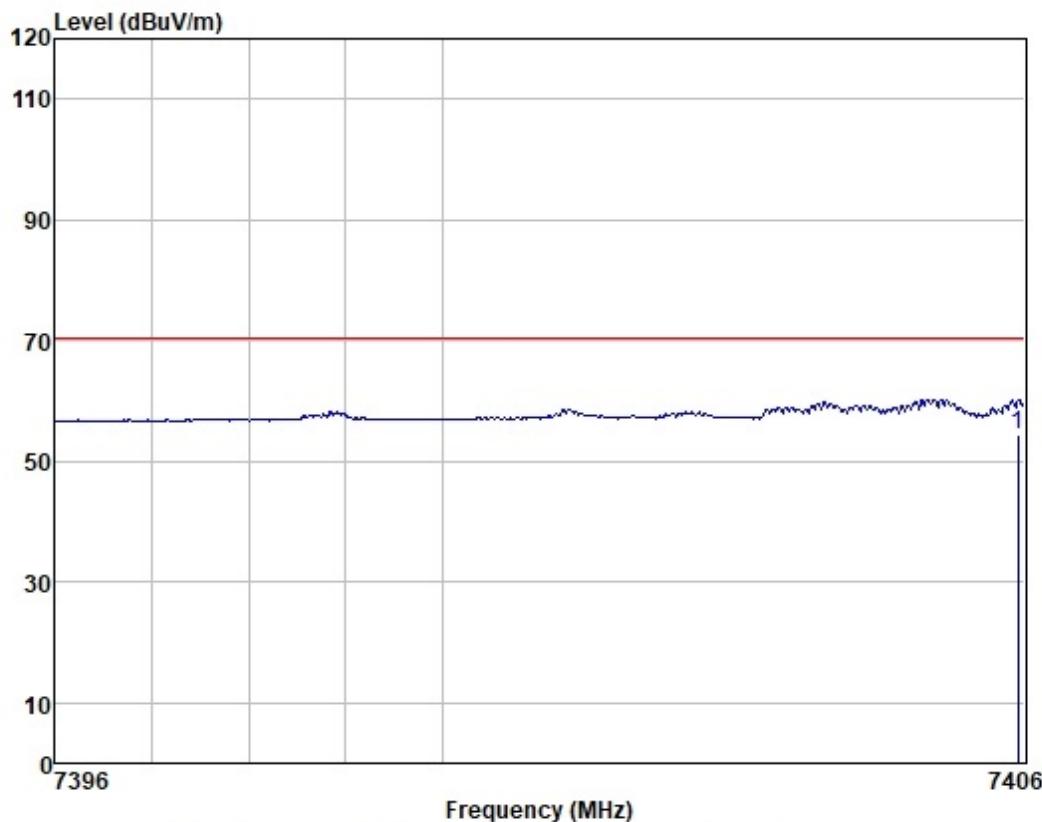
Freq MHz	Read Antenna Level dBuV	Antenna Factor	Cable Loss Factor	Preamp Factor	Limit Level dB	Line Limit dBuV/m	Over Line Limit dBuV/m	Over Line Pol/Phase	Remark
	MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 4320.119	51.76	33.15	4.59	37.47	52.03	70.30	-18.27	VERTICAL	Average



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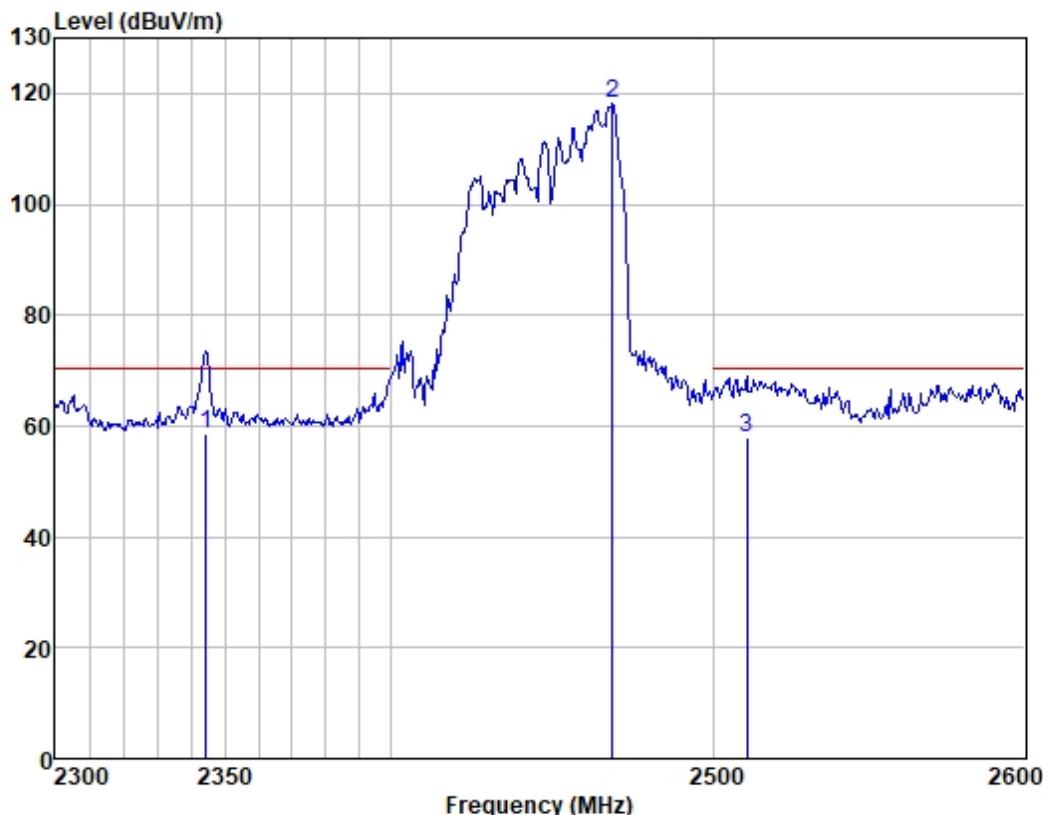
Test Mode: 00; Polarity: Vertical



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Test Mode: 00; Polarity: Vertical



Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2344.413	27.84	27.40	3.42	0.00	58.66	70.30 -11.64 VERTICAL Average
2	2468.296	86.85	27.75	3.48	0.00	118.08	----- ----- VERTICAL peak
3	2510.413	26.65	27.87	3.49	0.00	58.01	70.30 -12.29 VERTICAL Average



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6.5 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Limit:

Power output Measurement:

Formula:

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE :

P is the microwave power output, in watts

m_w is the mass of the water, in grams

m_c is the mass of the container, in grams

T_0 is the ambient temperature, in degrees Celsius

T_1 is the initial temperature of the water, in degrees Celsius

T_2 is the final temperature of the water, in degrees Celsius

t is the heating time, in seconds, excluding the magnetron filament heating-up time.

Input Power Measurement:

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1012 mbar

6.5.2 Test Mode Description

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

Final test	00	Test the EUT in microwave mode with maximum power.
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6.5.3 Measurement Procedure and Data**Output Power Data**

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1001	473	20.1	10.2	20.4	50	856.6

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.8	13.10	0.93	1460	1500



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6.6 Operating Frequency Measurement

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Limit:
Frequency Range: 2400-2500 MHz
Detector: Average for the final result for outside ISM band($2450\text{MHz} \pm 50\text{MHz}$)
Outside band limit:
(a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301,unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	$25 * \text{SQRT}(\text{power}/500)$

Power =**856.6 W** according to clause 6.1.2

Limit= $20\lg(25 * \text{SQRT}(\text{power}/500)) + 20\lg(300/3) = 70.3\text{dBuV/m} @ 3\text{m distance.}$

ISM band: ISM equipment may be operated on any frequency above 9 kHz.
And the frequency band 2400-2500MHz is allocated for use by ISM equipment.

(§18.301)

ISM frequency	Tolerance
6.78MHz	$\pm 15.0\text{kHz}$
13.56MHz	$\pm 7.0\text{kHz}$
27.12MHz	$\pm 163.0\text{kHz}$
40.68MHz	$\pm 20.0\text{kHz}$
915MHz	$\pm 13.0\text{MHz}$
2450MHz	$\pm 50.0\text{MHz}$
5800MHz	$\pm 75.0\text{MHz}$
24125MHz	$\pm 125.0\text{MHz}$
61.25GHz	$\pm 250.0\text{MHz}$
122.5GHz	$\pm 500.0\text{MHz}$
245.00GHz	$\pm 1.0\text{GHz}$



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6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 53.9 % RH Atmospheric Pressure: 1012 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Final test	01	Test the EUT in microwave mode with middle power.
Final test	02	Test the EUT in microwave mode with lowest power.

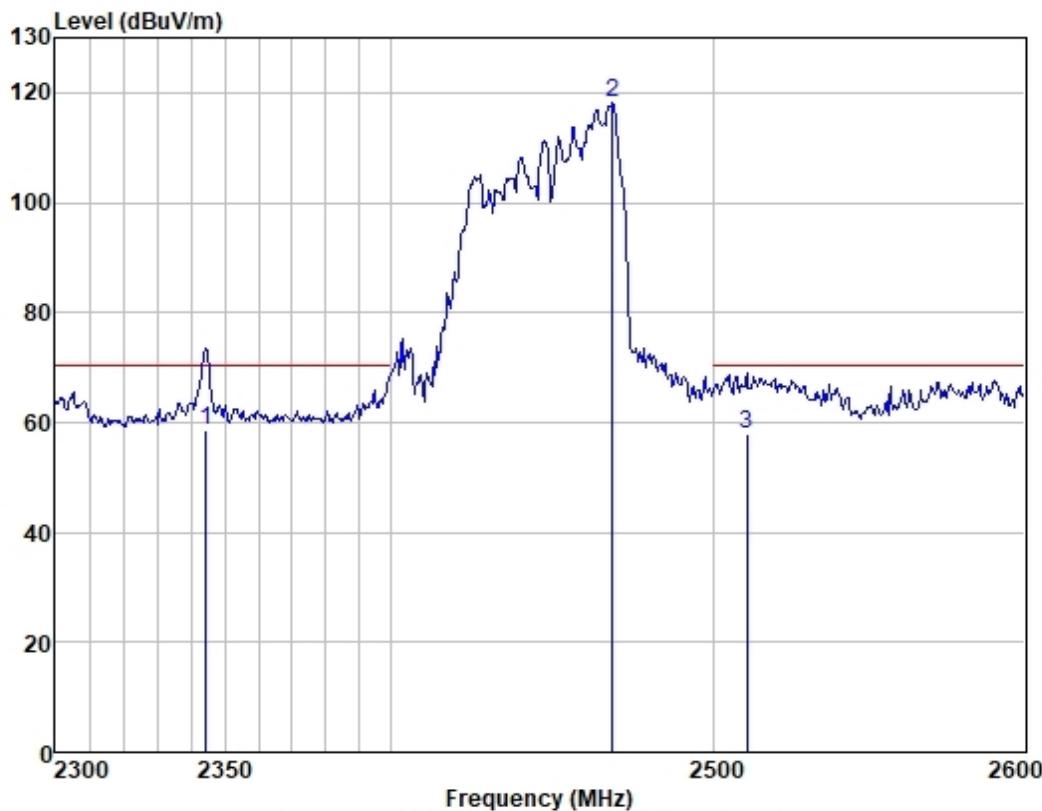


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6.6.3 Measurement Procedure and Data

Test Mode: 00; Polarity: Vertical



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2344.413	27.84	27.40	3.42	0.00	58.66	70.30	-11.64 VERTICAL Average
2	2468.296	86.85	27.75	3.48	0.00	118.08	-----	----- VERTICAL peak
3	2510.413	26.65	27.87	3.49	0.00	58.01	70.30	-12.29 VERTICAL Average

The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

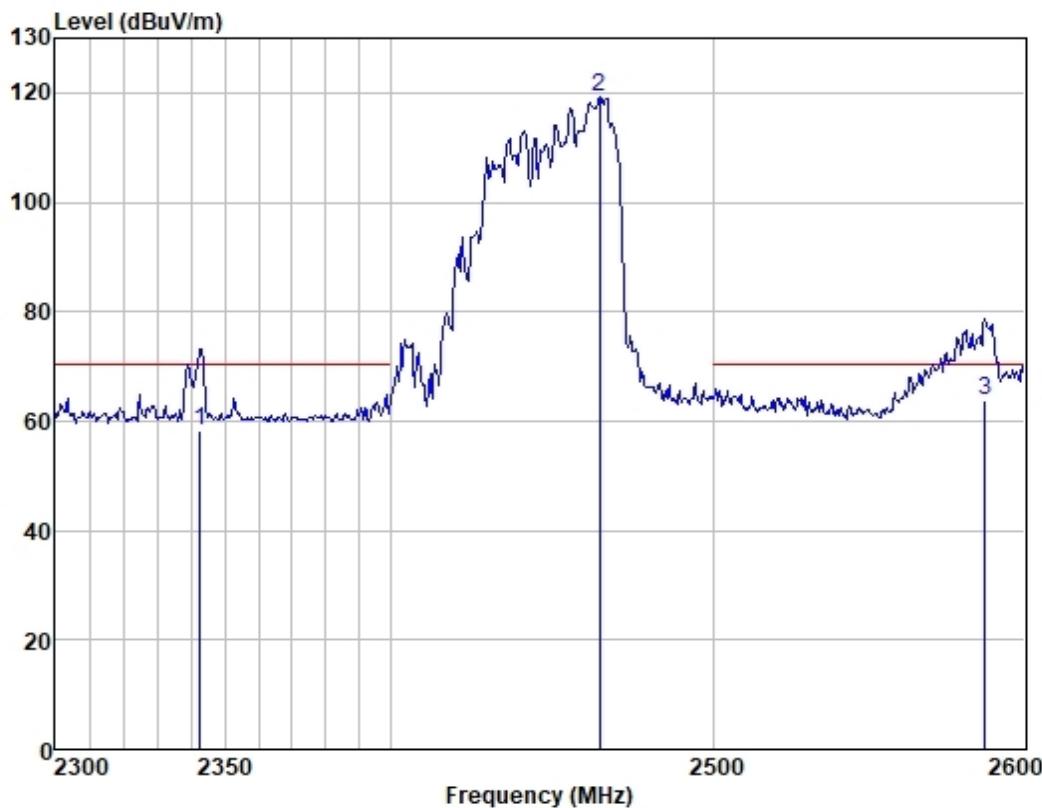
ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2468.296



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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2342.689	27.46	27.40	3.42	0.00	58.28	70.30	-12.02	HORIZONTAL Average
2	2464.063	88.18	27.72	3.48	0.00	119.38	-----	-----	HORIZONTAL peak
3	2587.281	31.96	28.15	3.53	0.00	63.64	70.30	-6.66	HORIZONTAL Average

The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was set at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm up at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2464.063



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6.7 Radiation Hazard Test

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C Humidity: 51.2 % RH Atmospheric Pressure: 1012 mbar

6.7.2 Test Mode Description

Pre-scan / Mode	Final test	Code	Description
Final test	00		Test the EUT in microwave mode with maximum power.
Pre-scan	01		Test the EUT in microwave mode with middle power.
Pre-scan	02		Test the EUT in microwave mode with lowest power.

6.7.3 Measurement Procedure and Data

Maximum measure level (mW/cm ²)	Limit (mW/cm ²)	Test Result
0.093	1	PASS



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM250200110002



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2502001100HS

- End of the Report -



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