



TEST REPORT

Application No.: SZEM2012013550CR
Applicant: Shenzhen DO Intelligent Technology Co., Ltd.
Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Manufacturer: Shenzhen DO Intelligent Technology Co., Ltd.
Address of Manufacturer: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Factory: Shenzhen DO Intelligent Technology Co., Ltd.
Address of Factory: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Watch
Model No.: ID206 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: IDO
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020-12-30
Date of Test: 2020-12-30 to 2021-01-04
Date of Issue: 2021-01-06

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

Keny Xu

Keny Xu
EMC Laboratory Manager

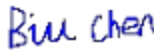


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-01-06		Original

Authorized for issue by:			
			
		<hr/> Bill Chen/Project Engineer	
			
		<hr/> Eric Fu/Reviewer	

2 Test Summary

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

Remark:

Model No.: ID206

There are two kinds of samples for the above model.

Only the sample 1 was tested fully, and the sample 2 was performed the Radiated Disturbance test for discrepancy, since according to the declaration of the applicant, the electrical circuit design, PCB layout, components used and internal wiring were identical for the above model, with only difference on display screen.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable battery: DC 3.8V 300mAh (Charged by USB)
Cable(s):	USB cable:60cm unshielded

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D09B

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.0\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 4.5\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

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
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

6 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average

0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average

5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

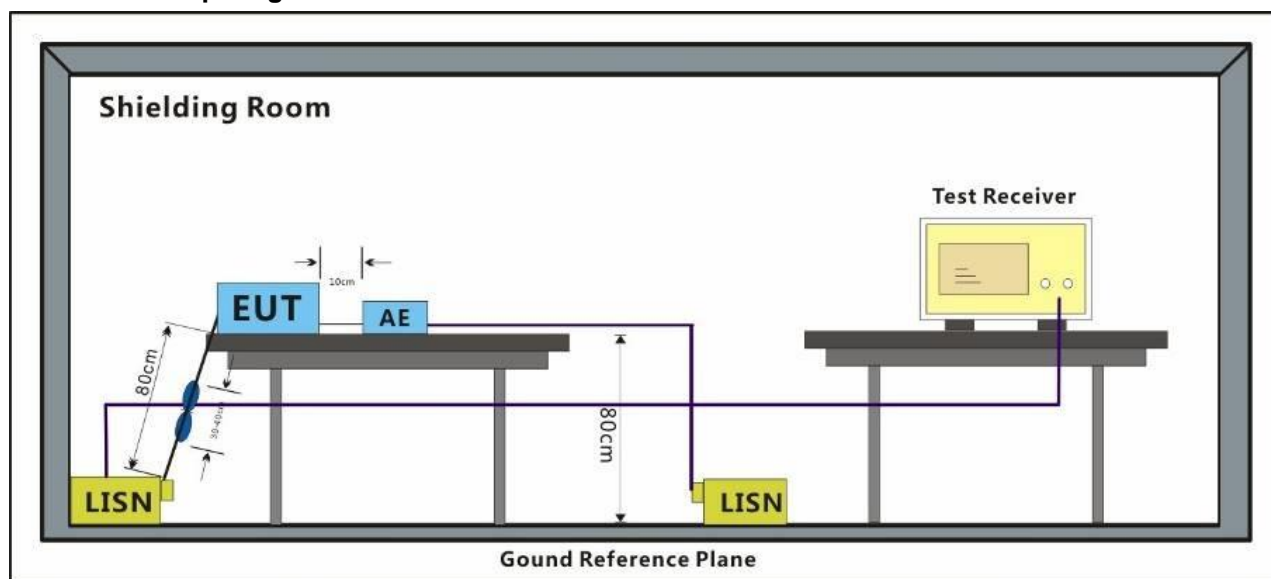
Humidity: 43.6 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charging mode_ Keep the EUT with charging and adapter

6.1.3 Test Setup Diagram



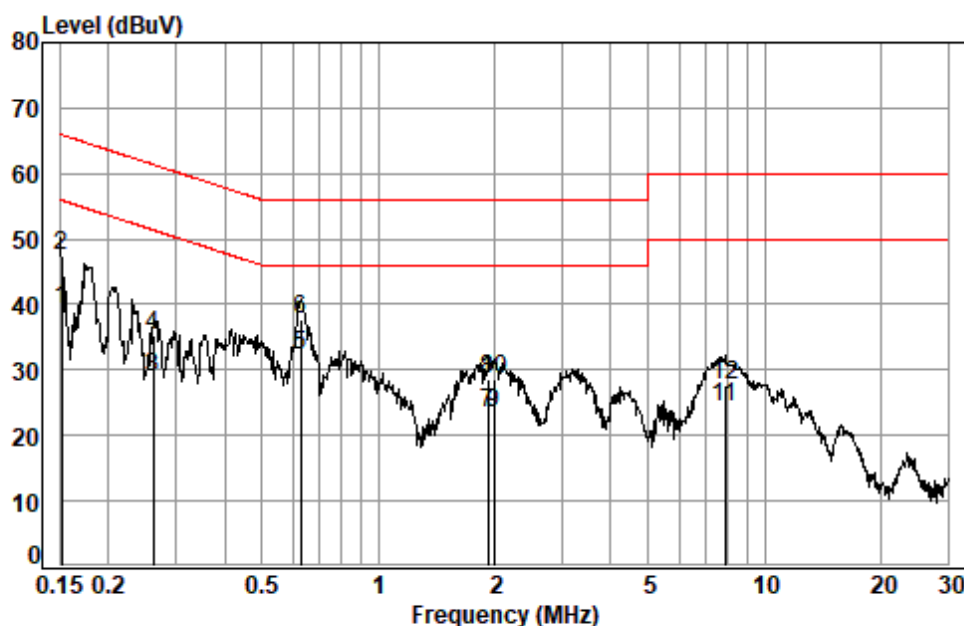


6.1.4 Measurement Procedure and Data

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



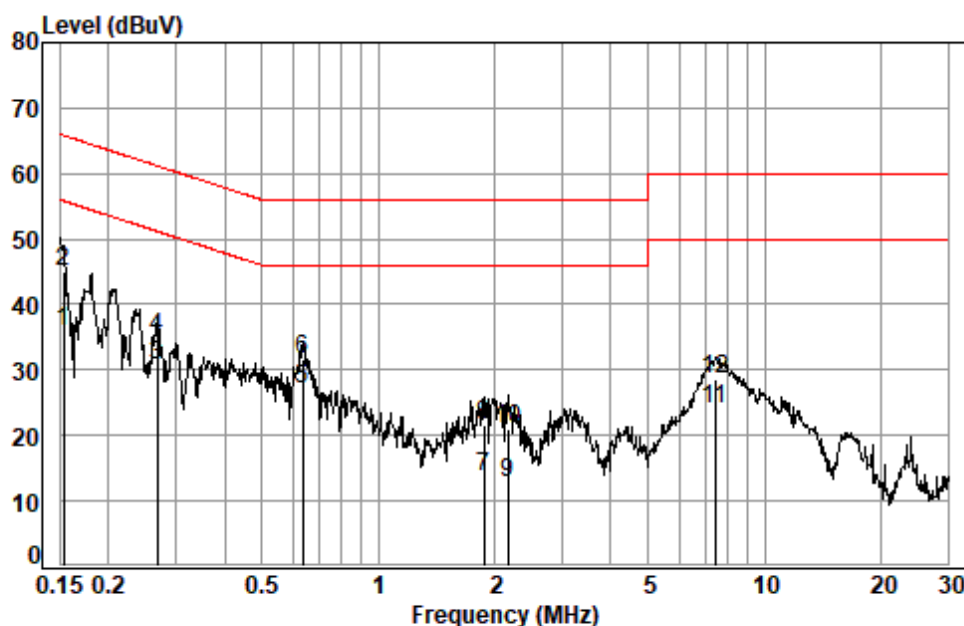
Test Mode: 01; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 13550CR
Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1516	0.03	9.70	29.44	39.17	55.91	Average
2	0.1516	0.03	9.70	37.87	47.60	65.91	QP
3	0.2616	0.05	9.74	19.02	28.81	51.38	Average
4	0.2616	0.05	9.74	25.51	35.30	61.38	QP
5	0.6305	0.08	9.77	22.48	32.33	46.00	Average
6	0.6305	0.08	9.77	28.00	37.85	56.00	QP
7	1.9284	0.12	9.81	13.34	23.27	46.00	Average
8	1.9284	0.12	9.81	18.80	28.73	56.00	QP
9	1.9906	0.13	9.81	13.42	23.36	46.00	Average
10	1.9906	0.13	9.81	18.63	28.57	56.00	QP
11	7.8934	0.16	10.08	14.24	24.48	50.00	Average
12	7.8934	0.16	10.08	17.36	27.60	60.00	QP

Test Mode: 01; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 13550CR
Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1532	0.03	9.71	26.28	36.02	55.82	Average
2	0.1532	0.03	9.71	35.30	45.04	65.82	QP
3	0.2672	0.05	9.73	21.07	30.85	51.20	Average
4	0.2672	0.05	9.73	25.22	35.00	61.20	QP
5	0.6372	0.08	9.77	17.19	27.04	46.00	Average
6	0.6372	0.08	9.77	21.77	31.62	56.00	QP
7	1.8779	0.12	9.81	3.71	13.64	46.00	Average
8	1.8779	0.12	9.81	11.72	21.65	56.00	QP
9	2.1668	0.13	9.81	2.77	12.71	46.00	Average
10	2.1668	0.13	9.81	11.08	21.02	56.00	QP
11	7.4465	0.16	10.07	13.72	23.95	50.00	Average
12	7.4465	0.16	10.07	18.46	28.69	60.00	QP

6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

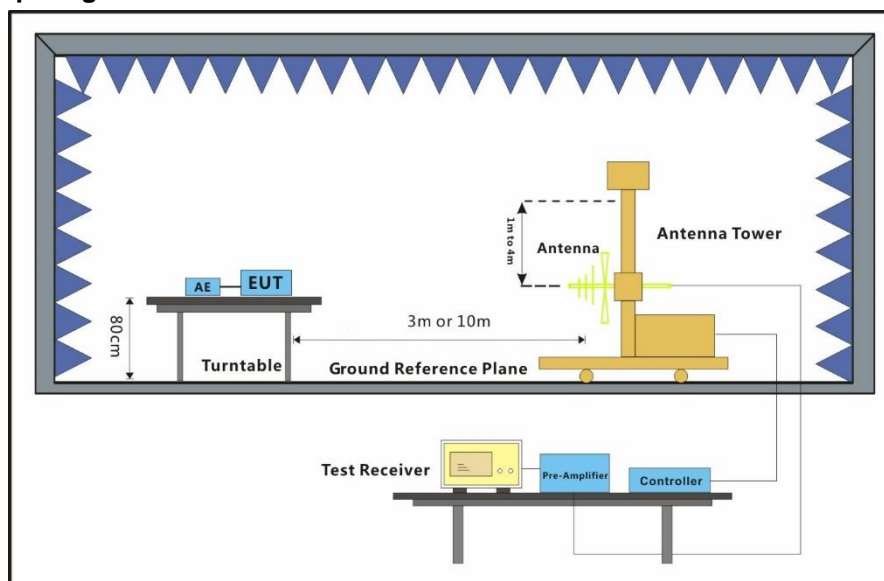
Humidity: 51.4 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charging mode_ Keep the EUT with charging and adapter

6.2.3 Test Setup Diagram

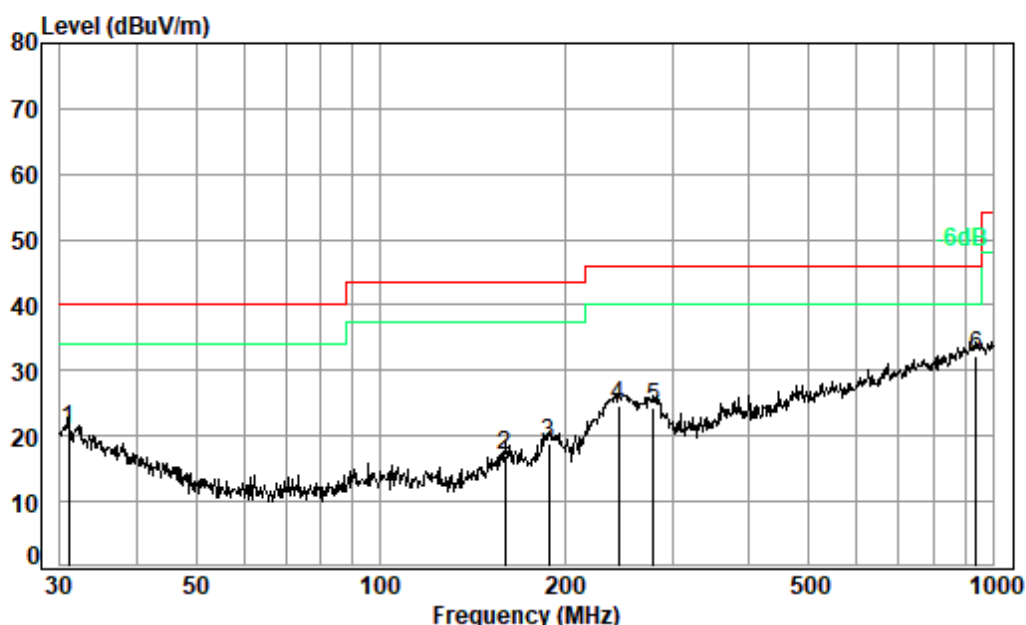


6.2.4 Measurement Procedure and Data

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

the sample 1

Test Mode: 01; Polarity: Horizontal



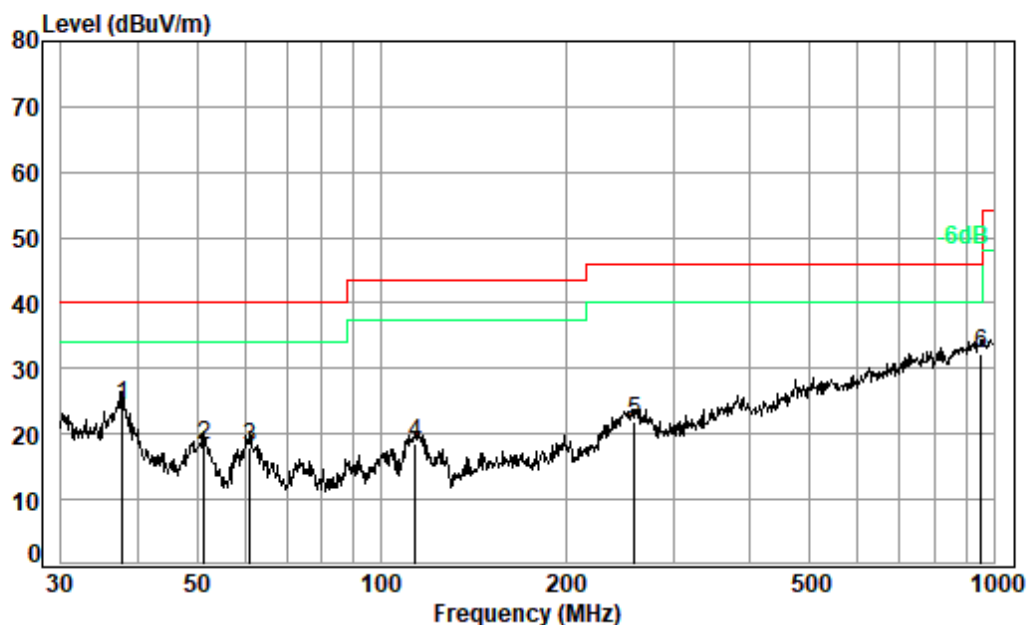
Condition: 3m HORIZONTAL

Job No. : 13550CR

Test mode: 01

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.61	22.27	27.73	25.97	21.12	40.00 -18.88 QP
2	159.78	1.17	15.39	27.29	27.77	17.04	43.50 -26.46 QP
3	188.41	1.19	15.48	27.18	29.31	18.80	43.50 -24.70 QP
4	245.09	1.60	18.01	27.01	31.94	24.54	46.00 -21.46 QP
5	279.04	1.86	18.42	26.92	30.91	24.27	46.00 -21.73 QP
6 pp	938.83	3.54	29.20	26.96	26.50	32.28	46.00 -13.72 QP

Test Mode: 01; Polarity: Vertical



Condition: 3m VERTICAL

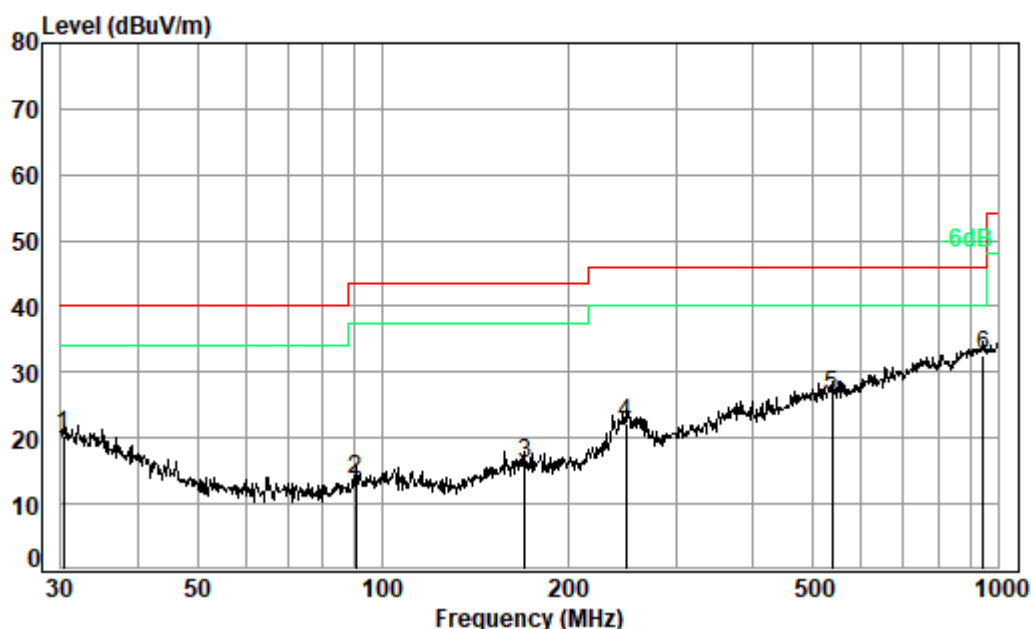
Job No. : 13550CR

Test mode: 01

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.81	0.68	19.25	27.71	32.20	24.42	40.00	-15.58	QP
2	51.30	0.71	13.71	27.68	31.49	18.23	40.00	-21.77	QP
3	61.13	0.80	12.91	27.66	31.88	17.93	40.00	-22.07	QP
4	113.71	1.12	13.43	27.52	31.44	18.47	43.50	-25.03	QP
5	259.23	1.71	18.11	26.97	29.00	21.85	46.00	-24.15	QP
6 pp	952.09	3.55	29.38	26.90	26.20	32.23	46.00	-13.77	QP

the sample 2

Test Mode: 01; Polarity: Horizontal



Condition: 3m HORIZONTAL

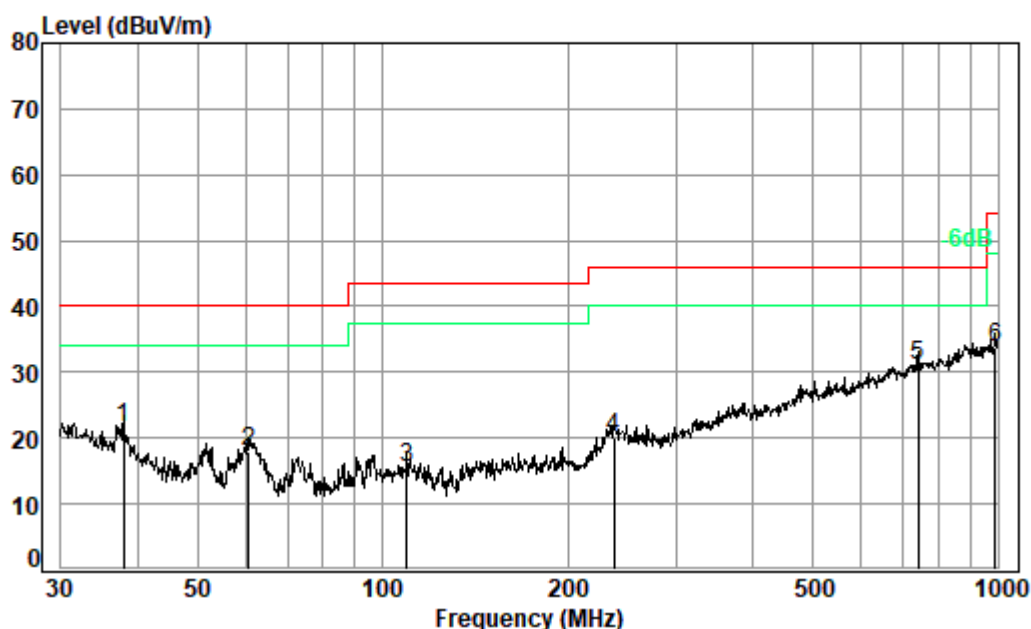
Job No. : 13550CR

Test mode: 01

: different

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.32	0.60	22.76	27.73	24.61	20.24	40.00	-19.76	QP
2	90.54	1.29	13.21	27.62	26.96	13.84	43.50	-29.66	QP
3	170.19	1.18	15.60	27.25	26.45	15.98	43.50	-27.52	QP
4	248.55	1.63	18.14	27.00	29.54	22.31	46.00	-23.69	QP
5	537.59	2.58	24.93	27.93	26.92	26.50	46.00	-19.50	QP
6 pp	945.44	3.55	29.28	26.93	26.78	32.68	46.00	-13.32	QP

Test Mode: 01; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 13550CR

Test mode: 01

: different

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.94	0.68	19.21	27.71	29.36	21.54	40.00	-18.46	QP
2	60.49	0.80	12.85	27.66	32.08	18.07	40.00	-21.93	QP
3	109.41	1.11	13.72	27.55	28.26	15.54	43.50	-27.96	QP
4	237.48	1.54	17.68	27.03	27.78	19.97	46.00	-26.03	QP
5 pp	742.26	3.08	27.99	27.83	27.82	31.06	46.00	-14.94	QP
6	989.54	3.59	29.64	26.71	27.37	33.89	54.00	-20.11	QP

7 Test Setup Photo

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



Radiated Emissions (30MHz-1GHz)





8 EUT Constructional Details (EUT Photos)

Refer to external and internal photos.

- End of the Report -



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