TEST REPORT

Application No.:	SZEM1904013177CR
Applicant:	SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD
Address of Applicant:	401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China
Manufacturer:	SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD
Address of Manufacturer:	401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China
Factory:	SHENZHEN YUCHANGTAI ELECTRONIC CO., LTD
Address of Factory:	401, Building 2000088, Shangwei industry, zhangge guanlan street, longhua new district, shenzhen city, China
Equipment Under Test (EUT):	
EUT Name:	Desk Organizer with wireless charging
Model No.:	YTC-WI05
Trade mark:	CADA
FCC ID:	2ATMX-YTCWI05
Standard(s) :	47 CFR Part 18
Date of Receipt:	2019-04-24
Date of Test:	2019-04-29 to 2019-05-06
Date of Issue:	2019-05-13
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2019-05-13		Original

Authorized for issue by:				
		Damon Su **Damon Su /Project Engineer**		
		Eric Fu **Eric Fu /Reviewer**		

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2 Test Summary

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted disturbance	47 CFR Part 18	FCC MP-5	Part 18.307	Pass
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	Input：5V 1.2A, Output: USB: 5V 1A; WPC: 5W(DC 5V/1A)
Cable:	USB Cable(Unshielded, 100cm)
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	108.65kHz to 139.58kHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
USB Adapter	Client supplied	KA1803A-EU	N/A

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Spurious emission test	± 4.5dB (below 1GHz)
		± 4.8dB (above 1GHz)
3	Temperature test	± 1℃
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

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4.4 Test Location

All tests were performed at:

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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:

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **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 disturbance					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Radiated emission					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31
Trilog-Broadband Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03

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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement Part 18.307
Test Method: FCC MP-5
Limit:

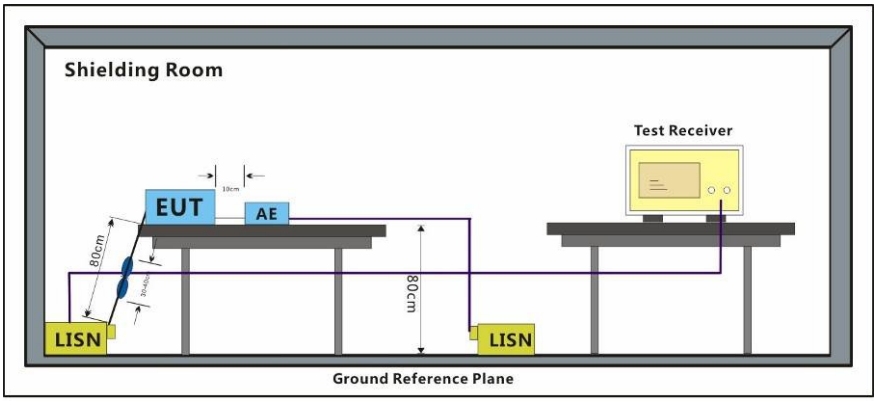
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar
Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

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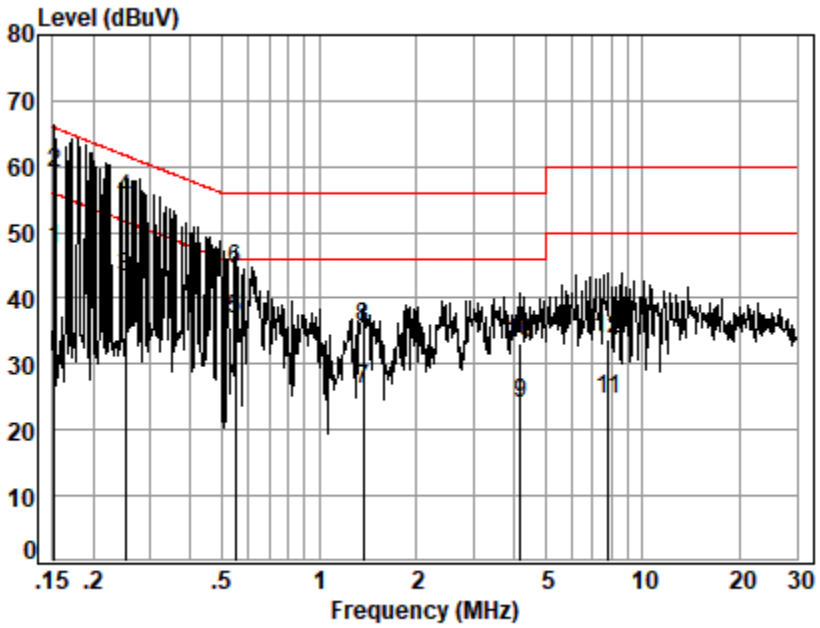
Mode:a; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 13177CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	37.66	47.33	55.91	-8.58	Average
2	0.15	0.01	9.66	49.26	58.93	65.91	-6.98	QP
3	0.25	0.03	9.67	33.36	43.06	51.69	-8.63	Average
4	0.25	0.03	9.67	45.42	55.12	61.69	-6.57	QP
5	0.55	0.06	9.67	27.13	36.86	46.00	-9.14	Average
6	0.55	0.06	9.67	34.53	44.26	56.00	-11.74	QP
7	1.37	0.12	9.73	16.23	26.08	46.00	-19.92	Average
8	1.37	0.12	9.73	25.87	35.72	56.00	-20.28	QP
9	4.18	0.16	9.72	14.24	24.12	46.00	-21.88	Average
10	4.18	0.16	9.72	23.22	33.10	56.00	-22.90	QP
11	7.81	0.17	9.80	14.70	24.67	50.00	-25.33	Average
12	7.81	0.17	9.80	23.87	33.84	60.00	-26.16	QP

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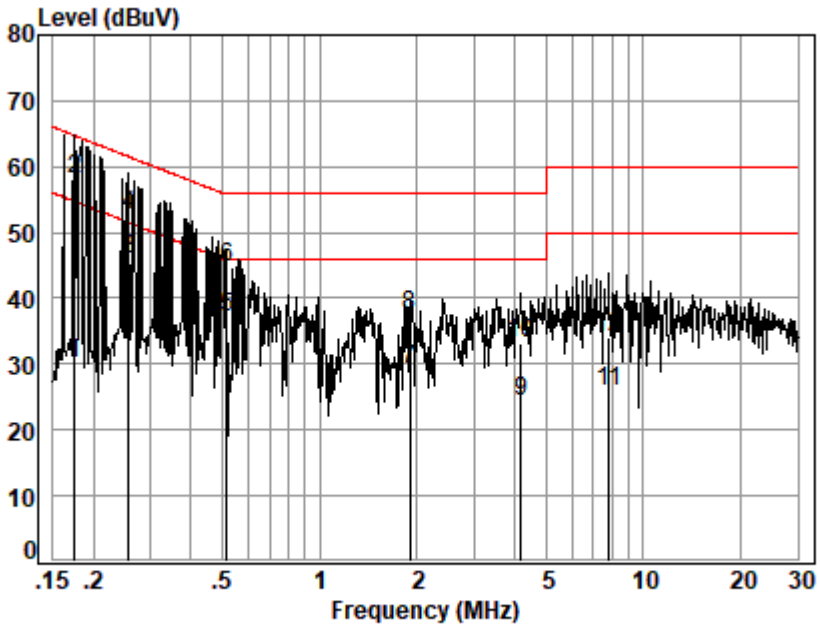
Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 13177CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.64	20.40	30.06	54.72	-24.66	Average
2	0.17	0.02	9.64	48.40	58.06	64.72	-6.66	QP
3	0.26	0.03	9.64	36.16	45.83	51.56	-5.73	Average
4	0.26	0.03	9.64	42.95	52.62	61.56	-8.94	QP
5	0.52	0.06	9.64	27.42	37.12	46.00	-8.88	Average
6	0.52	0.06	9.64	35.06	44.76	56.00	-11.24	QP
7	1.90	0.15	9.69	19.37	29.21	46.00	-16.79	Average
8	1.90	0.15	9.69	27.52	37.36	56.00	-18.64	QP
9	4.18	0.16	9.69	14.45	24.30	46.00	-21.70	Average
10	4.18	0.16	9.69	23.22	33.07	56.00	-22.93	QP
11	7.81	0.17	9.78	15.84	25.79	50.00	-24.21	Average
12	7.81	0.17	9.78	24.23	34.18	60.00	-25.82	QP

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6.2 Radiated emission

Test Requirement Part 18.305
Test Method: FCC MP-5
Measurement Distance: 3m
Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 × SQRT(power/500)	300 [1]300
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 [1]300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 ([2])	1,600 ([2])
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) × SQRT (power/500)	300 [3]300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	[4]30 [4]30

[1]Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

[2]Reduced to the greatest extent possible.

[3]Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

[4]Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Remark:

1 This product belongs to non-ISM equipment, the field strength limit is 15uV/m at 300 meter distance.

2 Limit: 20log(15uV/m) +20log (300/3) =23.52+40=63.52dBuV/m at 3 meters distance

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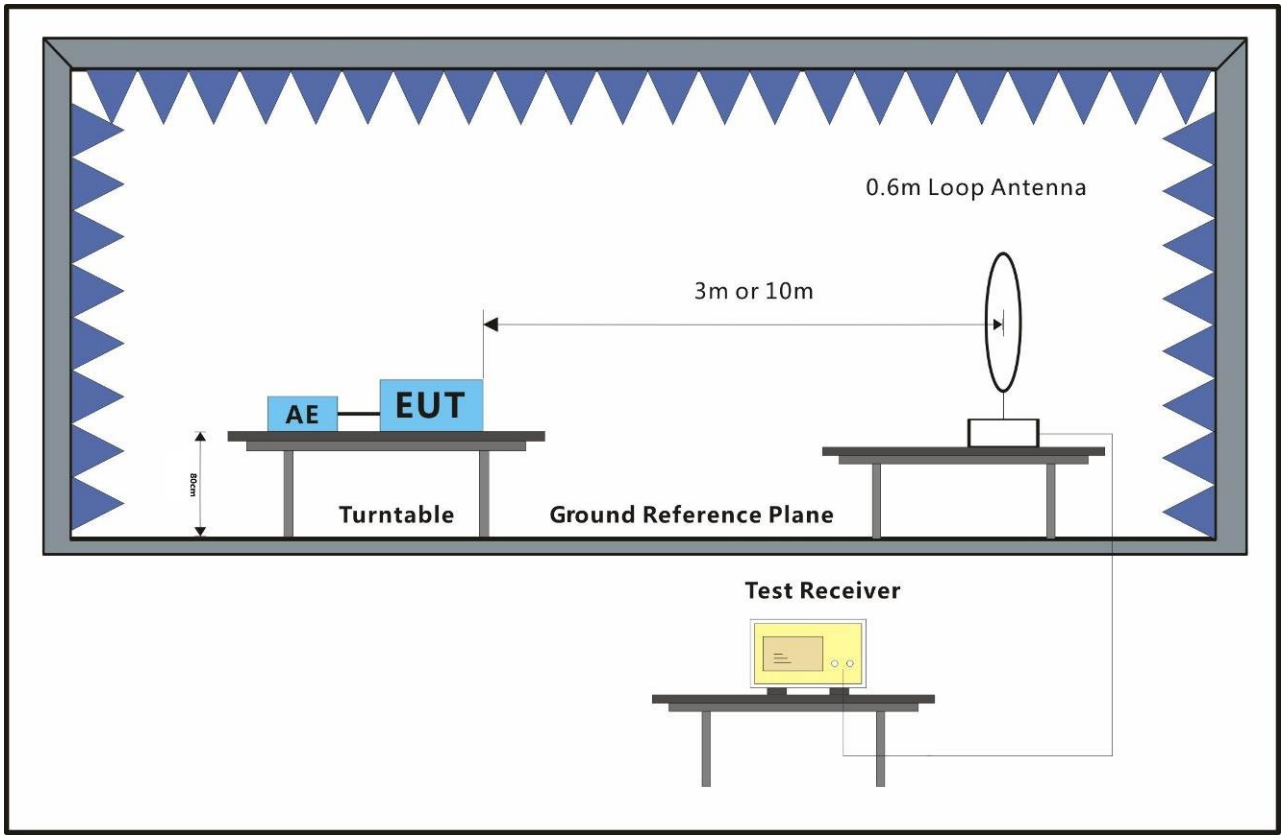
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

Test mode a:Charge mode_Keep the EUT charging

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

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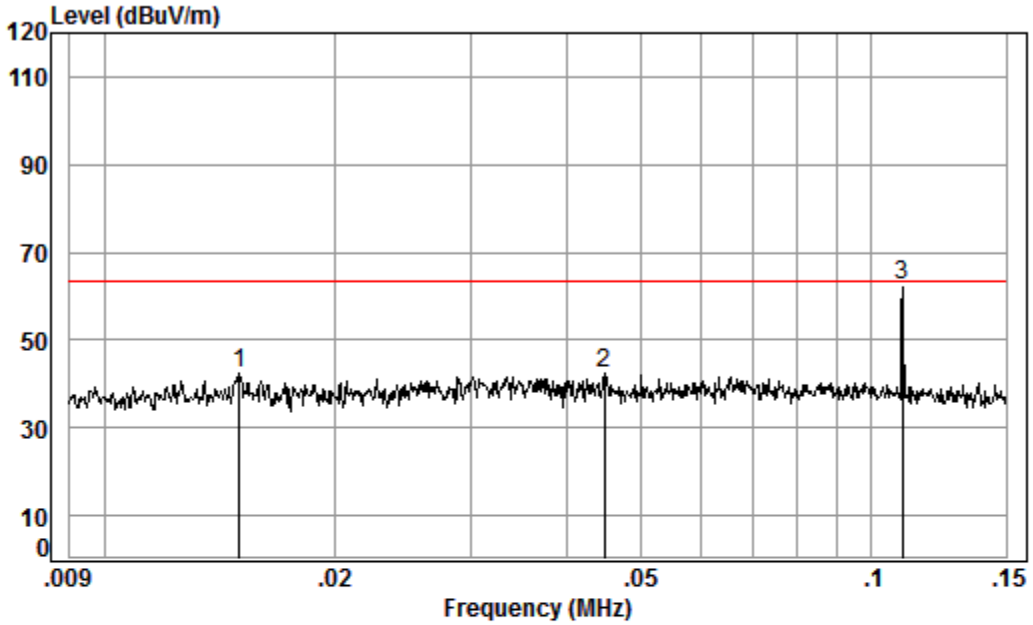
Mode a:
9kHz-150kHz



Condition: 3m
Job No. : 13177CR
Test Mode: a

	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	0.01	0.25	16.79	32.55	57.78	42.27	63.52	-21.25	Average
2	0.04	0.13	12.71	32.56	62.25	42.53	63.52	-20.99	Average
3 pp	0.11	0.05	11.93	32.56	83.00	62.42	63.52	-1.10	Average

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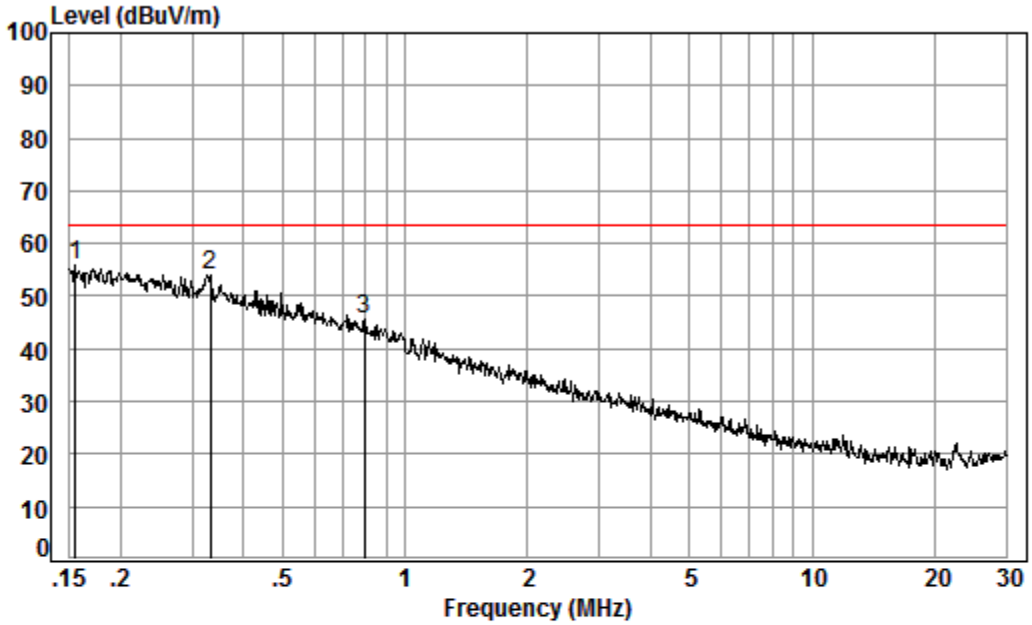
Mode a:
150kHz-30MHz



Condition: 3m
Job No. : 13177CR
Test Mode: a

	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 pp	0.15	0.07	11.72	32.56	76.54	55.77	63.52	-7.75	Average
2	0.33	0.09	11.88	32.56	74.76	54.17	63.52	-9.35	Average
3	0.80	0.19	12.00	32.56	65.97	45.60	63.52	-17.92	Average

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7 Photographs

7.1 Test Setup

Refer to Setup Photos

7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -

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