TEST REPORT

Application No.:	SZEM1903012071AT
Applicant:	PWRSCE Pty LTD.
Address of Applicant:	480 Bourke Street Melbourne, Victoria 3000 Australia.
Manufacturer:	PWRSCE Pty LTD.
Address of Manufacturer:	480 Bourke Street Melbourne, Victoria 3000 Australia.
Factory:	Dongguan Baohong Industrial Co., Ltd.
Address of Factory:	Building A, Pantao Road, Xi'nan Village, Shijie Town, Dongguan, 523000, Guangdong, China
Equipment Under Test (EUT):	
EUT Name:	Product Dispensing Unit
Model No.:	3-Pack POS, 6-Pack POS ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID:	2ASPZ-BLU-POS-001
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2019-03-26
Date of Test:	2019-03-26 to 2019-03-27
Date of Issue:	2019-03-29
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		2019-03-29		Original

Authorized for issue by:				
		Edison Li /Project Engineer		
		Eric Fu /Reviewer		

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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

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Remark:

Model No.: 3-Pack POS, 6-Pack POS

All the models was tested fully, since the mainboard's electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only differences are the size of appearance, number of LED's lights and model no. for trading purpose.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Switching Power Supply Model: MKS-1205000G8 Input: AC 100-240V, 50/60Hz, 2.0A Max Output: DC 12, 5000mA
Test voltage:	AC 120V, 60Hz
Cable:	AC cable: 500cm unshielded DC cable: 148cm with a ferrite core
Internal source:	Less than 108MHz

4.2 Description of Support Units

The EUT has been tested independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
3	Temperature test	± 1℃
4	Humidity test	± 3%

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4.4 Test Location

All tests were performed at:

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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 Emissions at Mains Terminals (150kHz-30MHz)					
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	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

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	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01

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	2018-04-08	2019-04-07

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6 Emission Test Results

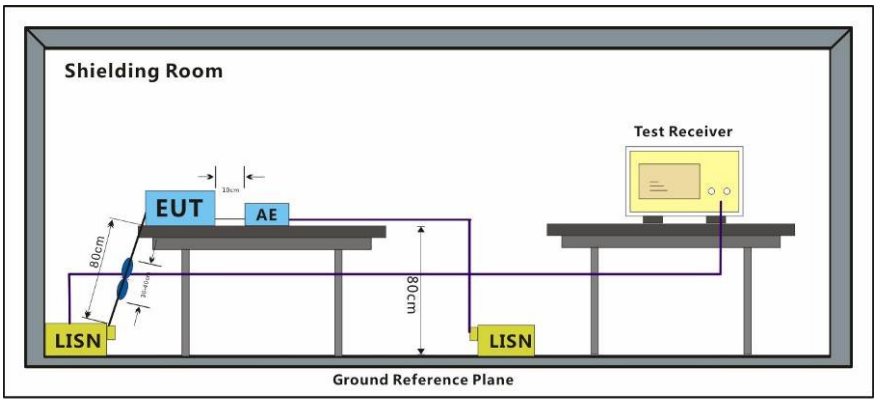
6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: 150kHz to 30MHz
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: 17.9 °C Humidity: 58.4 % RH Atmospheric Pressure: 1020 mbar
Test mode: a: On mode, keep EUT working normally.

6.1.2 Test Setup Diagram



6.1.3 Measurement 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.

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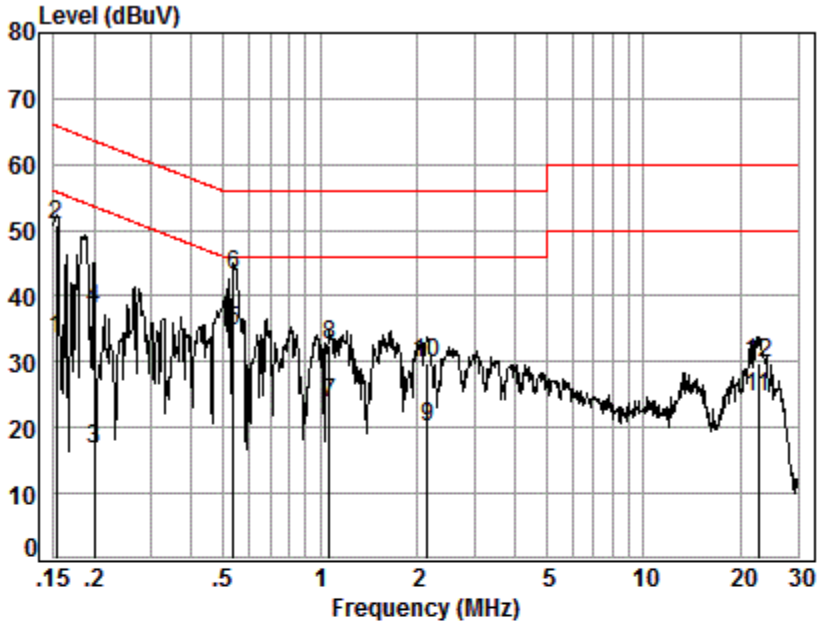
Test data for 3-Pack POS
Mode:a; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 12071AT
Test mode: a
: 3pack

	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	23.67	33.34	55.82	-22.48	Average
2	0.15	0.01	9.66	40.98	50.65	65.82	-15.17	QP
3	0.20	0.02	9.66	7.17	16.85	53.58	-36.73	Average
4	0.20	0.02	9.66	28.32	38.00	63.58	-25.58	QP
5	0.54	0.06	9.67	25.00	34.73	46.00	-11.27	Average
6	0.54	0.06	9.67	33.42	43.15	56.00	-12.85	QP
7	1.07	0.10	9.74	13.95	23.79	46.00	-22.21	Average
8	1.07	0.10	9.74	22.64	32.48	56.00	-23.52	QP
9	2.14	0.16	9.72	10.26	20.14	46.00	-25.86	Average
10	2.14	0.16	9.72	19.95	29.83	56.00	-26.17	QP
11	22.66	0.25	10.17	14.10	24.52	50.00	-25.48	Average
12	22.66	0.25	10.17	19.25	29.67	60.00	-30.33	QP

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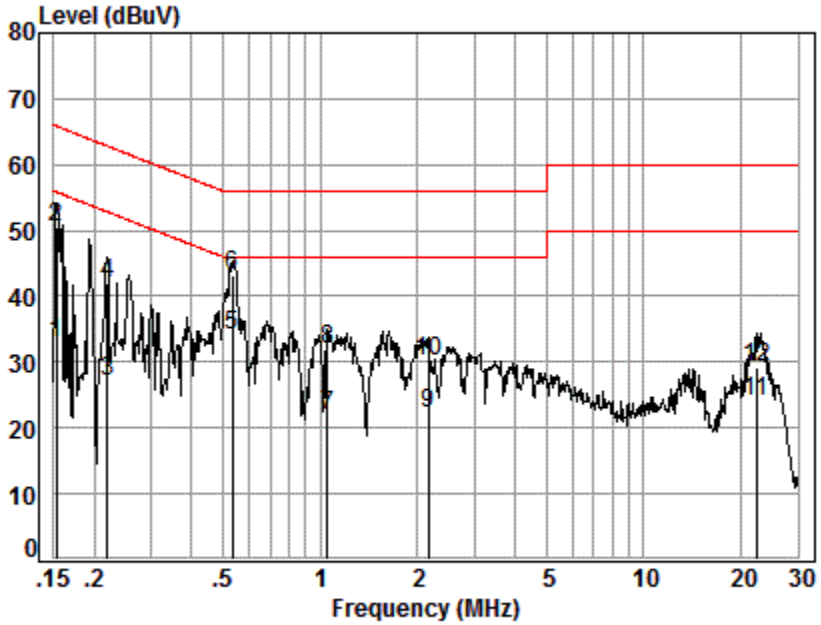
Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 12071AT
Test mode: a
: 3pack

	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	9.63	23.12	32.76	55.87	-23.11	Average
2	0.15	0.01	9.63	40.91	50.55	65.87	-15.32	QP
3	0.22	0.03	9.64	17.39	27.06	52.83	-25.77	Average
4	0.22	0.03	9.64	32.44	42.11	62.83	-20.72	QP
5	0.53	0.06	9.64	24.44	34.14	46.00	-11.86	Average
6	0.53	0.06	9.64	33.54	43.24	56.00	-12.76	QP
7	1.05	0.09	9.71	12.10	21.90	46.00	-24.10	Average
8	1.05	0.09	9.71	22.04	31.84	56.00	-24.16	QP
9	2.17	0.16	9.69	12.50	22.35	46.00	-23.65	Average
10	2.17	0.16	9.69	20.34	30.19	56.00	-25.81	QP
11	22.30	0.25	10.19	13.46	23.90	50.00	-26.10	Average
12	22.30	0.25	10.19	18.66	29.10	60.00	-30.90	QP

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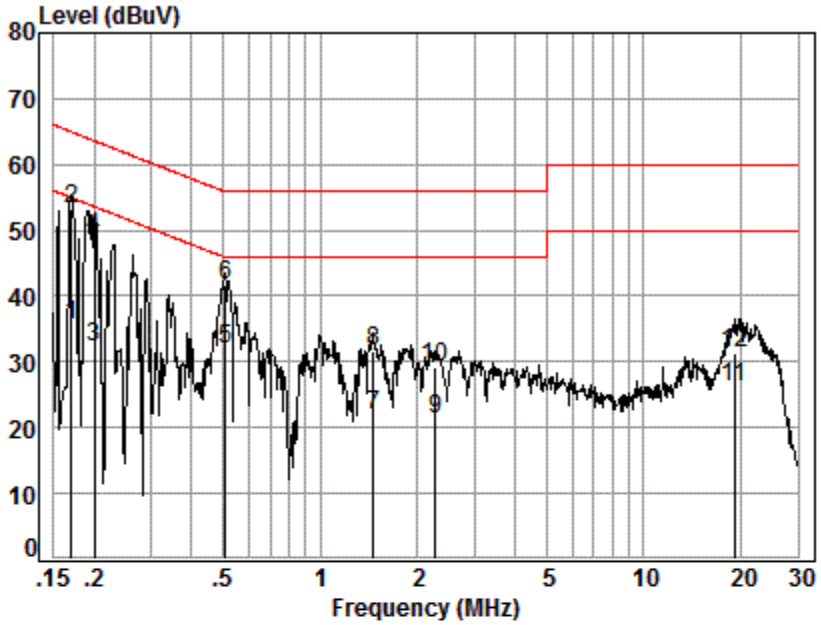
Test data for 6-Pack POS
Mode:a; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 12071AT
Test mode: a
: 6pack

	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	9.66	26.06	35.74	54.94	-19.20	Average
2	0.17	0.02	9.66	43.52	53.20	64.94	-11.74	QP
3	0.20	0.02	9.66	22.71	32.39	53.58	-21.19	Average
4	0.20	0.02	9.66	39.40	49.08	63.58	-14.50	QP
5	0.51	0.06	9.67	22.22	31.95	46.00	-14.05	Average
6	0.51	0.06	9.67	31.89	41.62	56.00	-14.38	QP
7	1.46	0.13	9.73	11.98	21.84	46.00	-24.16	Average
8	1.46	0.13	9.73	21.72	31.58	56.00	-24.42	QP
9	2.27	0.16	9.71	11.31	21.18	46.00	-24.82	Average
10	2.27	0.16	9.71	19.33	29.20	56.00	-26.80	QP
11	19.02	0.23	10.11	15.67	26.01	50.00	-23.99	Average
12	19.02	0.23	10.11	21.05	31.39	60.00	-28.61	QP

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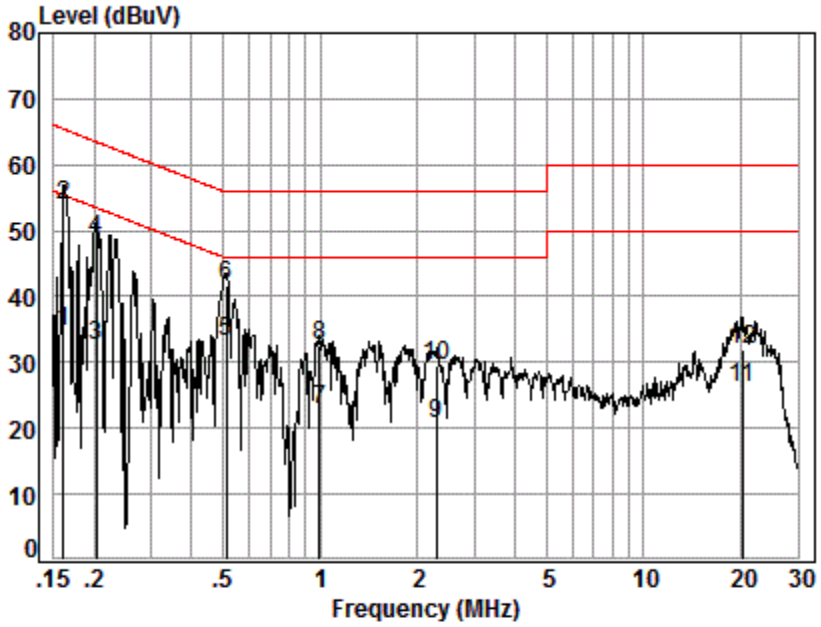
Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 12071AT
Test mode: a
: 6pack

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.64	24.91	34.56	55.43	-20.87	Average
2	0.16	0.01	9.64	44.10	53.75	65.43	-11.68	QP
3	0.20	0.02	9.64	22.78	32.44	53.49	-21.05	Average
4	0.20	0.02	9.64	38.93	48.59	63.49	-14.90	QP
5	0.51	0.06	9.64	23.47	33.17	46.00	-12.83	Average
6	0.51	0.06	9.64	31.91	41.61	56.00	-14.39	QP
7	0.99	0.09	9.71	13.16	22.96	46.00	-23.04	Average
8	0.99	0.09	9.71	22.79	32.59	56.00	-23.41	QP
9	2.28	0.16	9.68	10.87	20.71	46.00	-25.29	Average
10	2.28	0.16	9.68	19.66	29.50	56.00	-26.50	QP
11	20.16	0.24	10.11	15.71	26.06	50.00	-23.94	Average
12	20.16	0.24	10.11	21.47	31.82	60.00	-28.18	QP

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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Limit:

30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

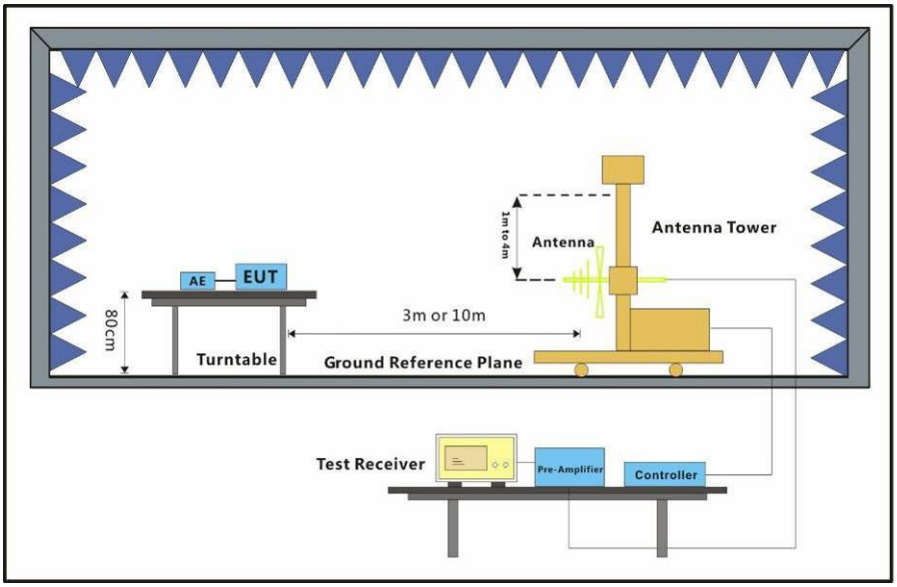
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: On mode, keep EUT working normally.

6.2.2 Test Setup Diagram



6.2.3 Measurement 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.

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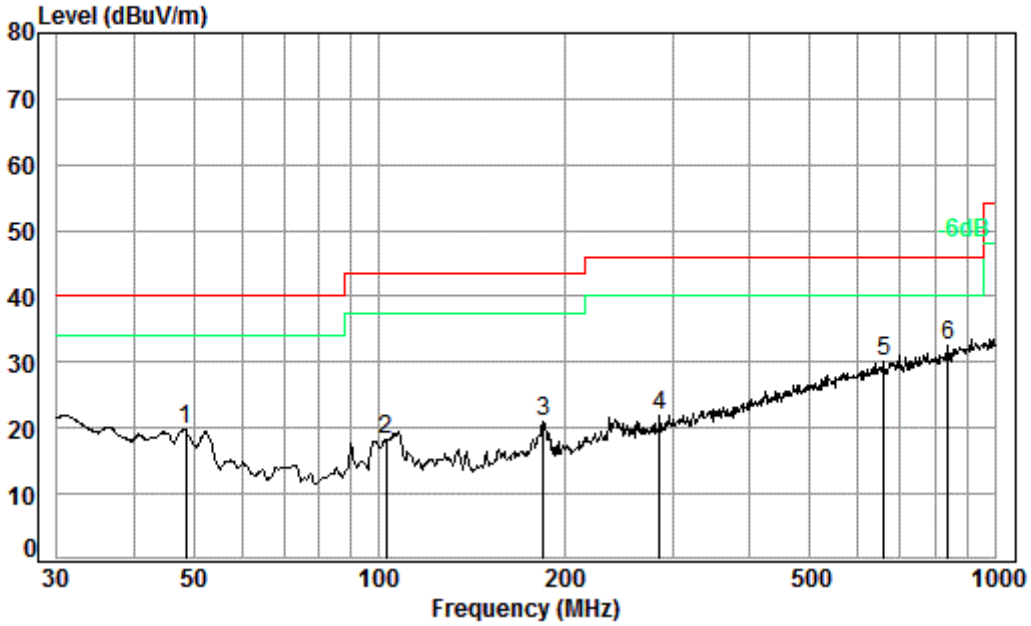
Test data for 3-Pack POS
Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL
Job No. : 12071AT
Test mode: a
: small

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	48.50	0.77	14.65	27.41	31.83	19.84	40.00	-20.16
2	102.72	1.21	13.87	27.33	30.58	18.33	43.50	-25.17
3	185.14	1.38	16.06	26.95	30.44	20.93	43.50	-22.57
4	285.98	1.84	19.04	26.67	27.69	21.90	46.00	-24.10
5	661.15	2.83	27.42	27.85	27.61	30.01	46.00	-15.99
6 pp	839.18	3.36	29.03	27.40	27.57	32.56	46.00	-13.44

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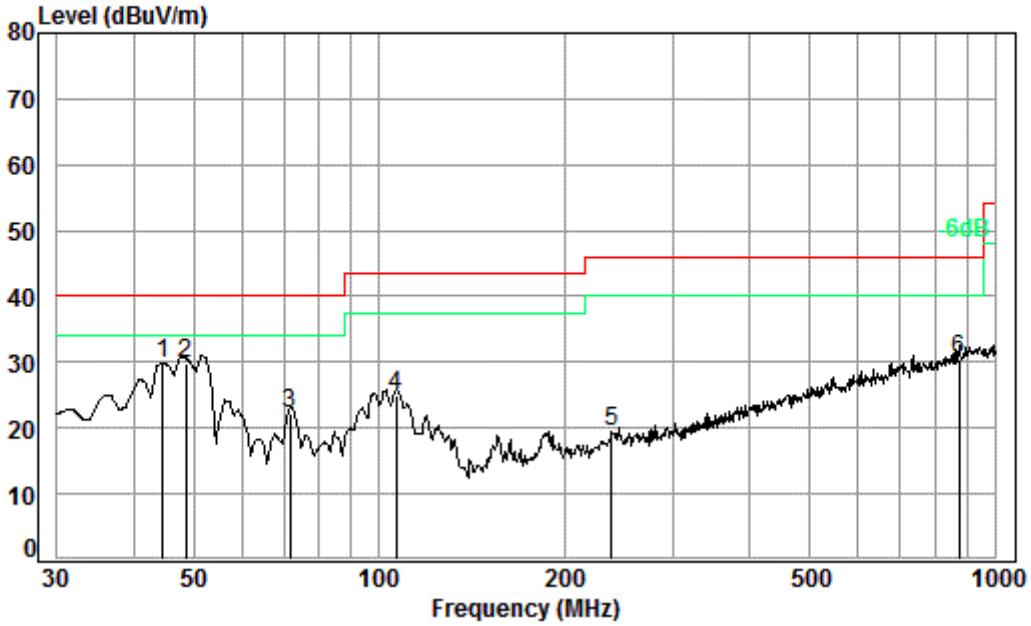
Mode:a; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 12071AT
Test mode: a
: small

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	44.59	0.70	15.89	27.42	40.75	29.92	40.00	-10.08
2	48.50	0.77	14.65	27.41	41.85	29.86	40.00	-10.14
3	71.83	0.86	12.65	27.38	36.02	22.15	40.00	-17.85
4	106.76	1.22	13.68	27.31	37.38	24.97	43.50	-18.53
5	238.31	1.62	18.67	26.79	26.02	19.52	46.00	-26.48
6	875.25	3.51	29.49	27.19	24.69	30.50	46.00	-15.50

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Test data for 6-Pack POS
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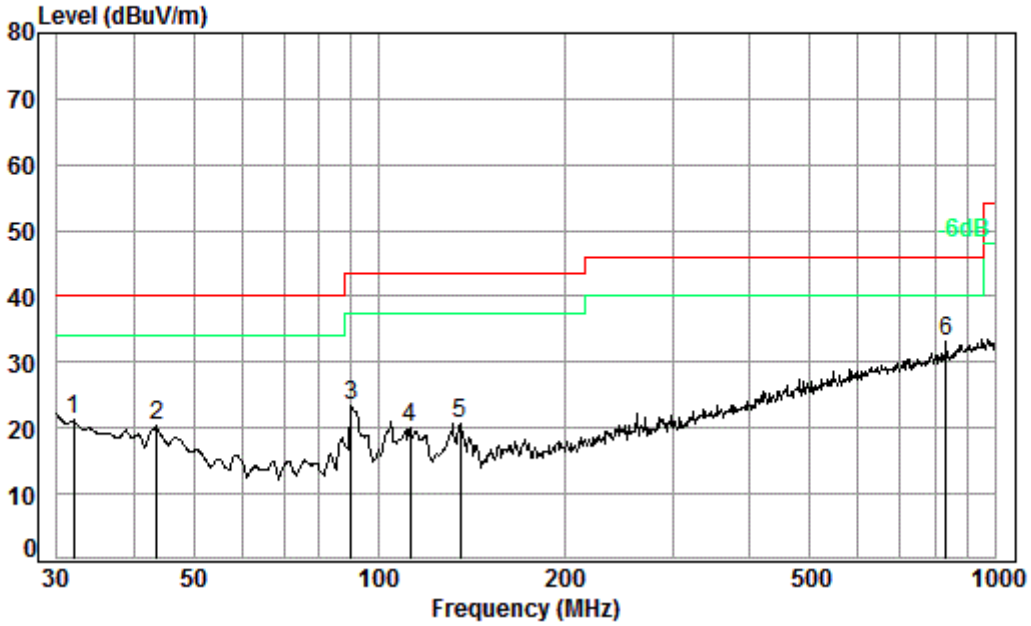

Condition: 3m HORIZONTAL
Job No. : 12071AT
Test mode: a
: big

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.45	26.63	21.18	40.00	-18.82
2	43.51	0.68	16.26	27.42	30.73	20.25	40.00	-19.75
3	90.22	1.10	13.12	27.36	36.62	23.48	43.50	-20.02
4	112.52	1.23	13.42	27.27	32.61	19.99	43.50	-23.51
5	135.51	1.29	13.57	27.15	32.99	20.70	43.50	-22.80
6 pp	833.32	3.34	28.95	27.44	28.28	33.13	46.00	-12.87

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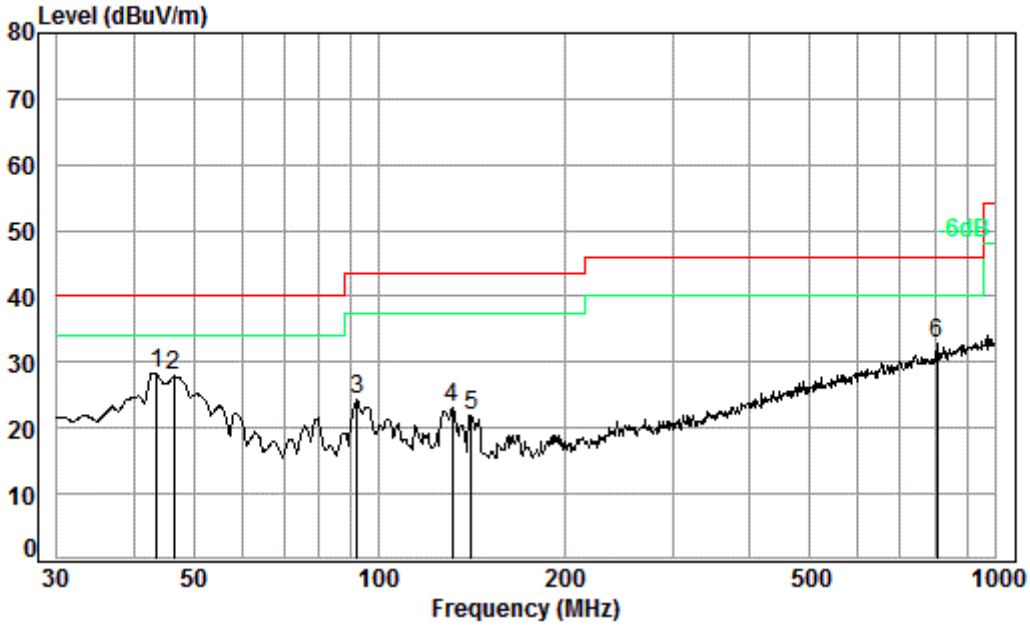
Mode:a; Polarization:Vertical



Condition: 3m VERTICAL
Job No. : 12071AT
Test mode: a
: big

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	43.51	0.68	16.26	27.42	38.88	28.40	40.00	-11.60
2	46.50	0.73	15.27	27.42	39.27	27.85	40.00	-12.15
3	92.14	1.12	13.30	27.36	37.40	24.46	43.50	-19.04
4	131.76	1.28	13.46	27.17	35.42	22.99	43.50	-20.51
5	141.33	1.30	13.83	27.13	34.05	22.05	43.50	-21.45
6	804.60	3.22	28.56	27.61	28.70	32.87	46.00	-13.13

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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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