FCC Test Report

FCC ID: QISSMARTLOGGER211

This report concerns (check one): ☒**Original Grant** ☐**Class I Change** ☐**Class II Change**

Project No.	:	1605C250
Equipment	:	SmartLogger
Model Name	:	SmartLogger2000-11-B, SmartLogger2000-10-B
Applicant	:	Huawei Technologies Co.,Ltd.
Address	:	Huawei Base, Bantian, Longgang District, Shenzhen, P.R.China

Date of Receipt	:	May 30, 2016
Date of Test	:	May 30, 2016 ~ Jun. 20, 2016
Issued Date	:	Jun. 21, 2016
Tested by	:	BTL Inc.

Testing Engineer : _____
(Bill Zhang)

Technical Manager : _____
(James Chiu)

Authorized Signatory : _____
(Steven Lu)

BTL INC.

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Testing Laboratory 2640

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1605C250	Original Issue.	Jun. 21, 2016

1. CERTIFICATION

Equipment	:	SmartLogger
Brand Name	:	HUAWEI
Model Name	:	SmartLogger2000-11-B, SmartLogger2000-10-B
Applicant	:	Huawei Technologies Co.,Ltd.
Manufacturer	:	Huawei Technologies Co.,Ltd.
Address	:	Huawei Base, Bantian, Longgang District, Shenzhen, P.R.China
Factory	:	Huawei Machine Co.,Ltd.
Address	:	No.2 New City Avenue Songshan Hu Science& Technology Industrial Park,Dongguan Guangdong People's Republic of China
Date of Test	:	May 30, 2016 ~ Jun. 20, 2016
Test Sample	:	Engineering Sample
Standard(s)	:	FCC Part 15, Subpart B ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1605C250) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B ANSI C63.4-2014	Conducted Emission	Class A	PASS	
	Radiated emission Below 1 GHz	Class A	PASS	
	Radiated emission Above 1 GHz	Class A	PASS	NOTE (2)

NOTE:

(1) ” N/A” denotes test is not applicable to this device.

(2) The EUT’s max operating frequency exceeds 108 MHz, so the test will be performed.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement **y** ± **U**, where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150 kHz ~ 30MHz	2.32

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB08 (10m)	CISPR	30MHz ~ 200MHz	V	4.66
		30MHz ~ 200MHz	H	4.64
		200MHz ~ 1,000MHz	V	4.88
		200MHz ~ 1,000MHz	H	4.86

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB08 (3m)	CISPR	1 ~ 6 GHz	4.26
		6 ~18 GHz	5.30

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	SmartLogger
Brand Name	HUAWEI
Model Name	SmartLogger2000-11-B, SmartLogger2000-10-B
Model Difference	Only differ in model name.
Power Source	DC voltage supplied from AC Adapter. Brand / Model: HUAWEI / HW-24-12AC14D
Power Rating	I/P: 100-240~ 50/60Hz, 0.8A O/P: 12.0V⎓2.0A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

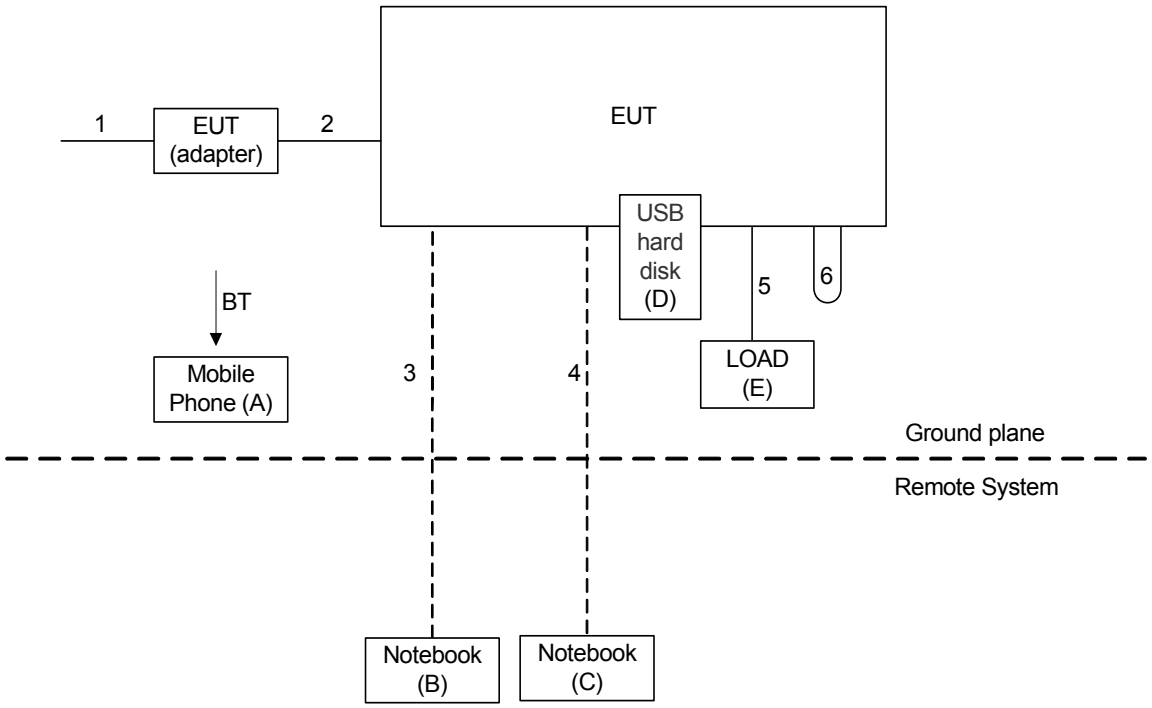
Pretest Mode	Description
Mode 1	FULL SYSTEM

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

For Radiated Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Mobile Phone	samsung	SM-N9200	DOC	R28G92H55AL
B	Notebook	Lenovo	E445	DOC	MP-05Y56S
C	Notebook	Lenovo	E445	DOC	MP-05Y3X6
D	USB hard disk	WD	WDBAAR3200ABK	DOC	WXG1EC0JES87
E	LOAD	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC main cable
2	NO	NO	1.8m	DC cable
3	NO	NO	15m	RJ45 cable
4	NO	NO	15m	RJ45 cable
5	NO	NO	1m	DC cable
6	NO	NO	0.1m	Fiber cable

Note:
(1) For detachable type I/O cable should be specified the length in m in『Length』column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value – Limit Value

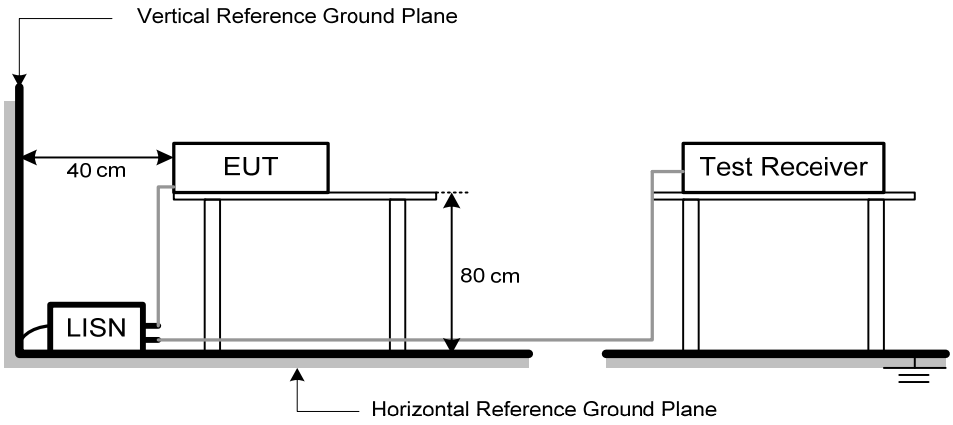
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.
Temperature: 24°C Relative Humidity: 60%

4.1.6 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength
30 - 88	90	39	100	40
88 - 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46
Above 960	300	49.5	500	54

CISPR 22 or CAN/CSA-CISPR 22-10:

Frequency (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 - 230	40	30
230 - 1000	47	37

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

(1) The limit for radiated test was performed according to as following:
FCC Part 15, Subpart B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).

(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

4.2.2 TEST PROCEDURE

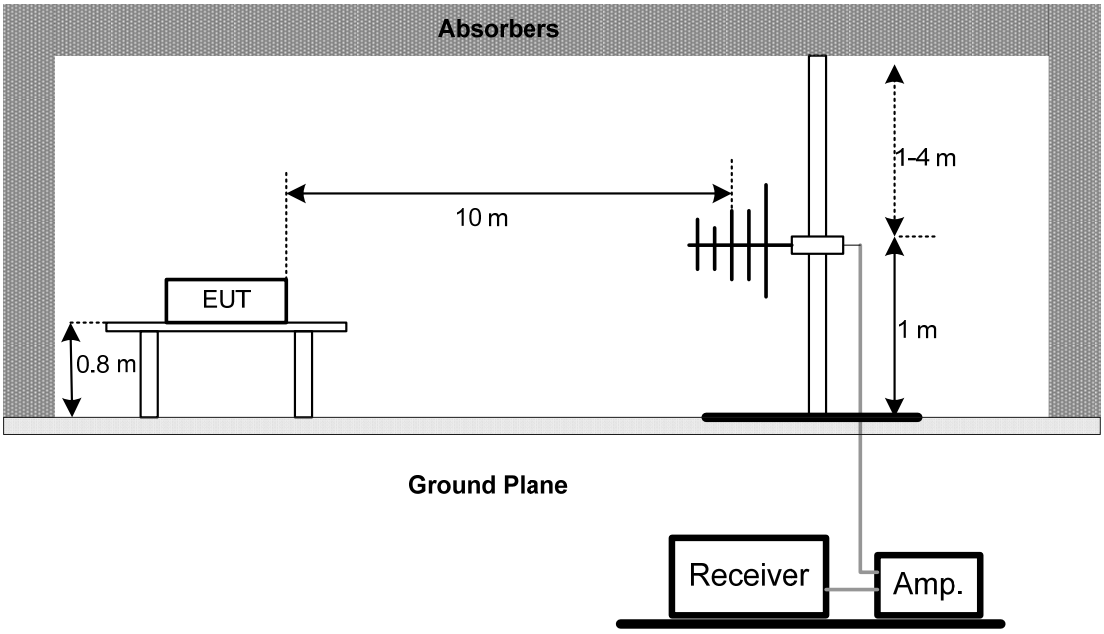
a. The measuring distance of 10 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

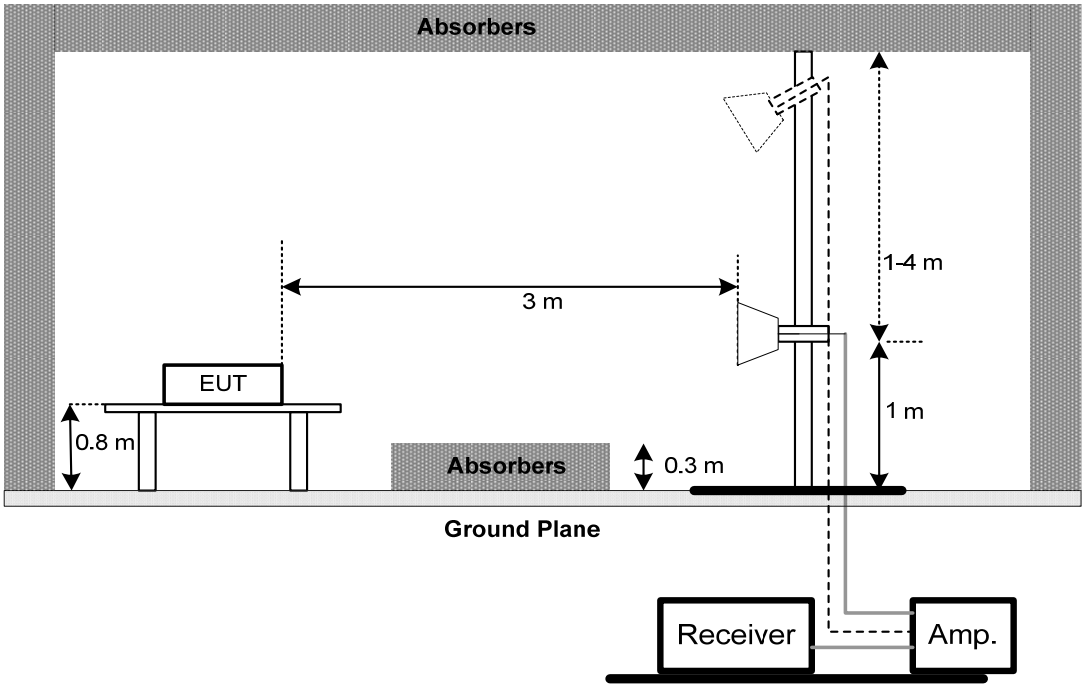
No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency 1 GHz-18GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS (30 TO 1000 MHz)

Please refer to the Attachment B.

Temperature: 24°C Relative Humidity: 52%

4.2.7 TEST RESULTS (Above 1000 MHz)

Please refer to the Attachment C.

Temperature: 24°C Relative Humidity: 52%

5. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

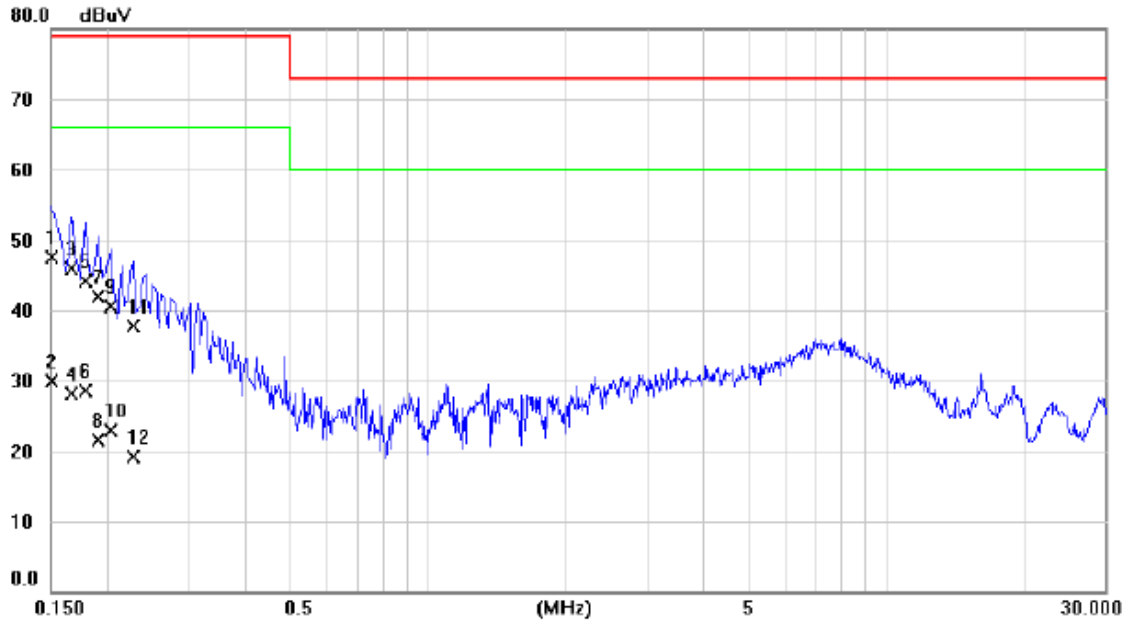
Radiated Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EMCO	3142C	00066462	Mar. 27, 2017
2	Antenna	EMCO	3142C	00066464	Mar. 27, 2017
3	Amplifier	Agilent	8447D	2944A11203	Oct. 11, 2016
4	Amplifier	Agilent	8447D	2944A11204	Oct. 11, 2016
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Oct. 11, 2016
6	RF Pre-selector	Agilent	N9039A	MY46520201	Oct. 11, 2016
7	Test Cable	emci	LMR-400 (30MHz-1GHz)	C-23	Dec. 31, 2016
8	Test Cable	emci	LMR-400 (30MHz-1GHz)	C-22	Dec. 31, 2016
9	Receiver	Agilent	N9038A	MY53220133	Jun. 24. 2016
10	Horn Antenna	EMCO	3115	9605-4803	Mar. 27, 2017
11	Amplifier	Agilent	8449B	3008A02584	Oct. 11, 2016
12	Test Cable	emci	SUCOFLEX_15m _5m(0.01GHz－26.5GHz)	C-15/C-39	Jun. 03, 2017
13	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
14	Position Control	MF	MF-7802	MF780208159	N/A
15	Test Cable	emci	SUCOFLEX 102_8m(0.01GHz－40GHz)	C-38	Mar. 27, 2017
16	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

ATTACHMENT A - CONDUCTED EMISSION

Test Voltage:	AC120V/60Hz
Test Mode:	FULL SYSTEM

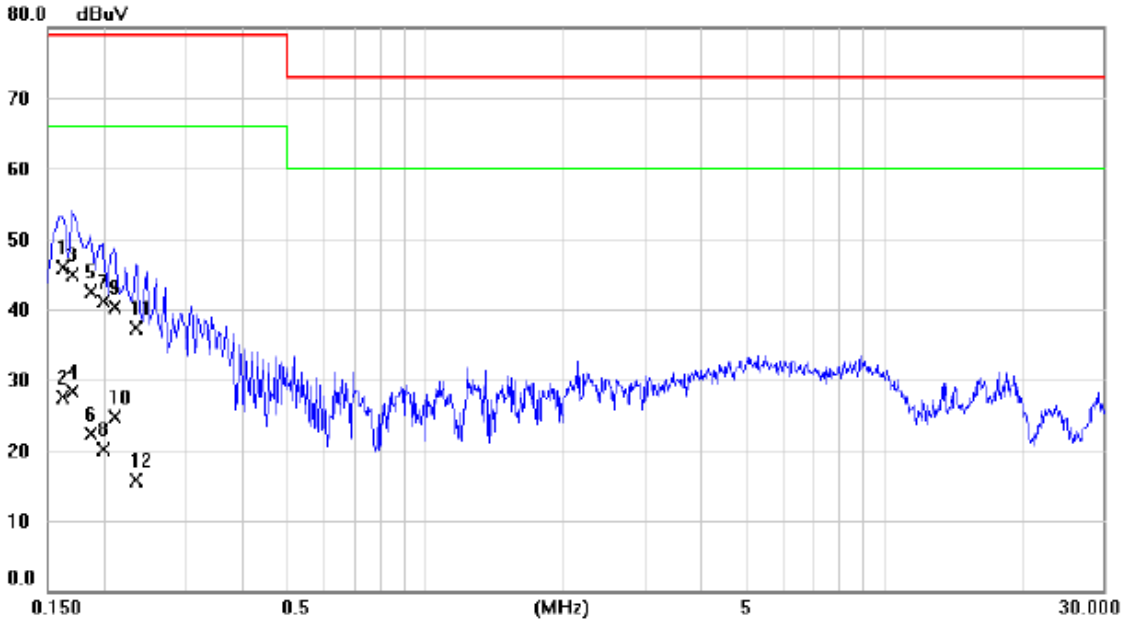
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	38.00	9.52	47.52	79.00	-31.48	QP	
2		0.1500	20.30	9.52	29.82	66.00	-36.18	AVG	
3		0.1660	36.30	9.52	45.82	79.00	-33.18	QP	
4		0.1660	18.50	9.52	28.02	66.00	-37.98	AVG	
5		0.1780	34.50	9.53	44.03	79.00	-34.97	QP	
6		0.1780	18.90	9.53	28.43	66.00	-37.57	AVG	
7		0.1900	32.30	9.53	41.83	79.00	-37.17	QP	
8		0.1900	12.00	9.53	21.53	66.00	-44.47	AVG	
9		0.2020	31.00	9.53	40.53	79.00	-38.47	QP	
10		0.2020	13.30	9.53	22.83	66.00	-43.17	AVG	
11		0.2260	28.10	9.53	37.63	79.00	-41.37	QP	
12		0.2260	9.50	9.53	19.03	66.00	-46.97	AVG	

Test Voltage:	AC120V/60Hz
Test Mode:	FULL SYSTEM

Neutral

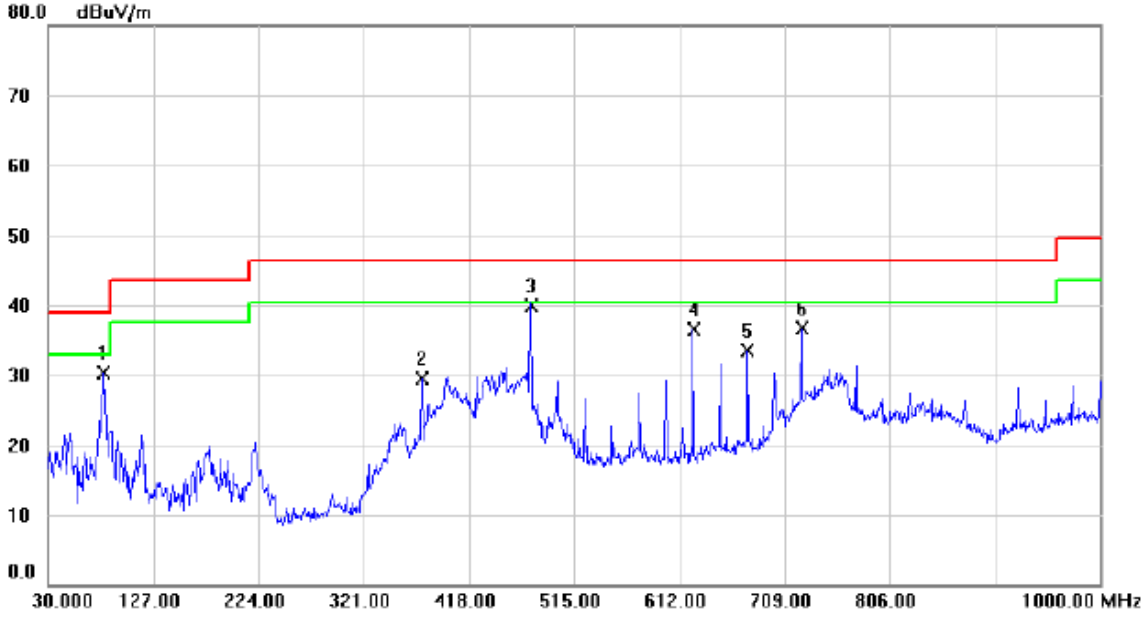


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	36.40	9.46	45.86	79.00	-33.14	QP	
2		0.1620	18.10	9.46	27.56	66.00	-38.44	AVG	
3		0.1700	35.40	9.42	44.82	79.00	-34.18	QP	
4		0.1700	18.90	9.42	28.32	66.00	-37.68	AVG	
5		0.1860	33.10	9.48	42.58	79.00	-36.42	QP	
6		0.1860	12.90	9.48	22.38	66.00	-43.62	AVG	
7		0.1980	31.60	9.52	41.12	79.00	-37.88	QP	
8		0.1980	10.50	9.52	20.02	66.00	-45.98	AVG	
9		0.2100	30.80	9.53	40.33	79.00	-38.67	QP	
10		0.2100	15.20	9.53	24.73	66.00	-41.27	AVG	
11		0.2340	27.80	9.53	37.33	79.00	-41.67	QP	
12		0.2340	6.10	9.53	15.63	66.00	-50.37	AVG	

ATTACHMENT B - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Voltage:	AC120V/60Hz
Test Mode:	FULL SYSTEM

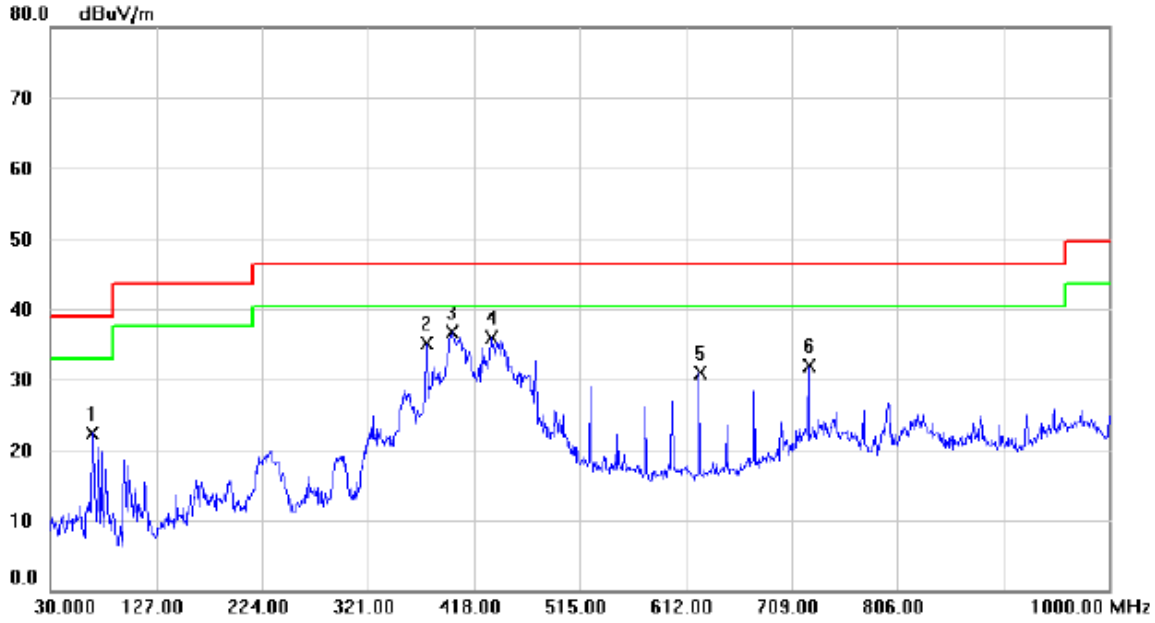
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		81.4100	50.75	-20.51	30.24	39.00	-8.76	QP	
2		374.8350	37.32	-7.88	29.44	46.40	-16.96	QP	
3	*	475.2300	45.88	-5.93	39.95	46.40	-6.45	QP	
4		625.0950	39.88	-3.30	36.58	46.40	-9.82	QP	
5		675.0500	36.10	-2.66	33.44	46.40	-12.96	QP	
6		725.0050	38.26	-1.60	36.66	46.40	-9.74	QP	

Test Voltage:	AC120V/60Hz
Test Mode:	FULL SYSTEM

Horizontal

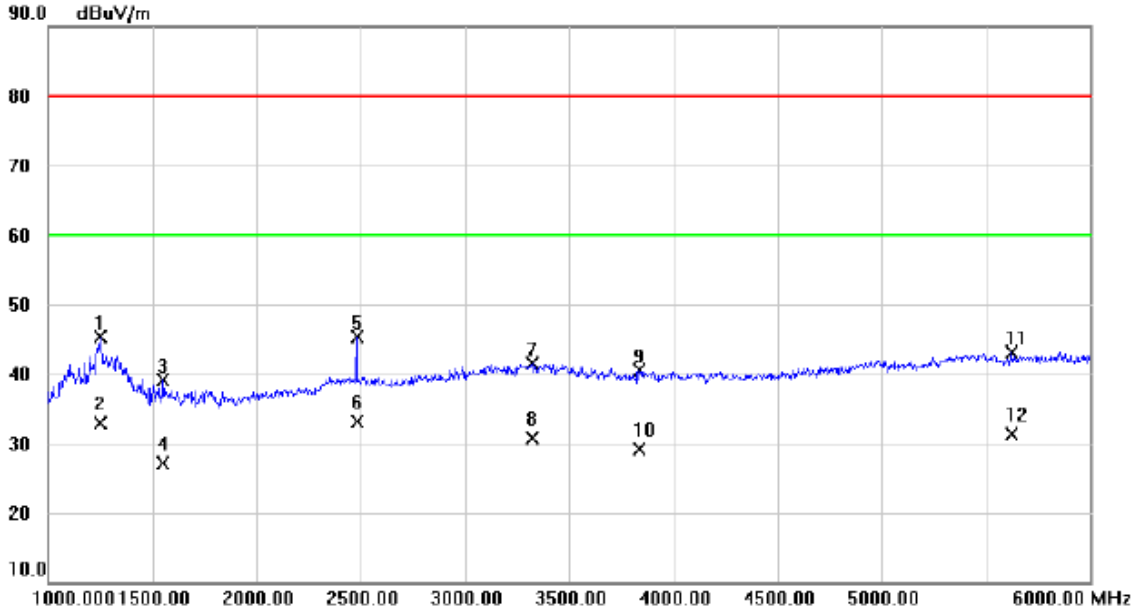


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		68.3150	42.63	-20.24	22.39	39.00	-16.61	QP	
2		374.8350	42.90	-7.88	35.02	46.40	-11.38	QP	
3	*	397.6300	44.80	-8.17	36.63	46.40	-9.77	QP	
4		434.0050	43.59	-7.68	35.91	46.40	-10.49	QP	
5		625.0950	34.15	-3.30	30.85	46.40	-15.55	QP	
6		725.0050	33.46	-1.60	31.86	46.40	-14.54	QP	

ATTACHMENT C - RADIATED EMISSION (ABOVE 1000MHZ)

Test Voltage:	AC 120V/60Hz
Test Mode:	FULL SYSTEM

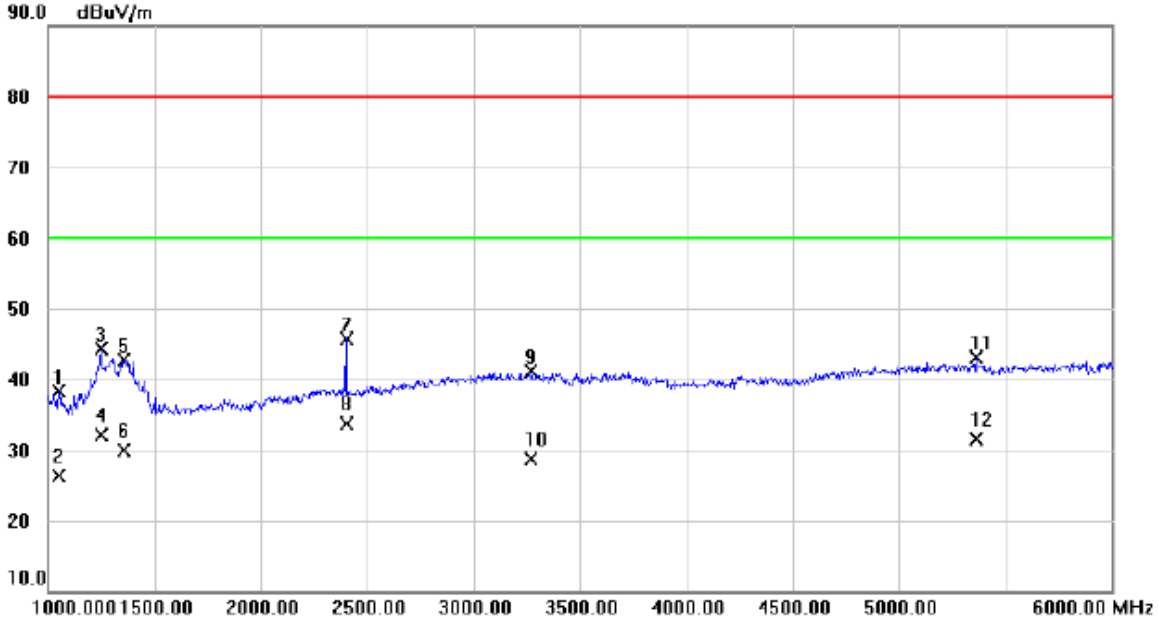
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1247.500	51.98	-6.58	45.40	80.00	-34.60	peak	
2		1247.500	39.51	-6.58	32.93	60.00	-27.07	AVG	
3		1550.000	44.70	-5.55	39.15	80.00	-40.85	peak	
4		1550.000	32.56	-5.55	27.01	60.00	-32.99	AVG	
5		2480.000	46.33	-1.07	45.26	80.00	-34.74	peak	
6	*	2480.000	34.19	-1.07	33.12	60.00	-26.88	AVG	
7		3320.000	40.34	1.11	41.45	80.00	-38.55	peak	
8		3320.000	29.54	1.11	30.65	60.00	-29.35	AVG	
9		3835.000	39.22	1.19	40.41	80.00	-39.59	peak	
10		3835.000	27.83	1.19	29.02	60.00	-30.98	AVG	
11		5622.500	36.82	6.20	43.02	80.00	-36.98	peak	
12		5622.500	25.11	6.20	31.31	60.00	-28.69	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	FULL SYSTEM

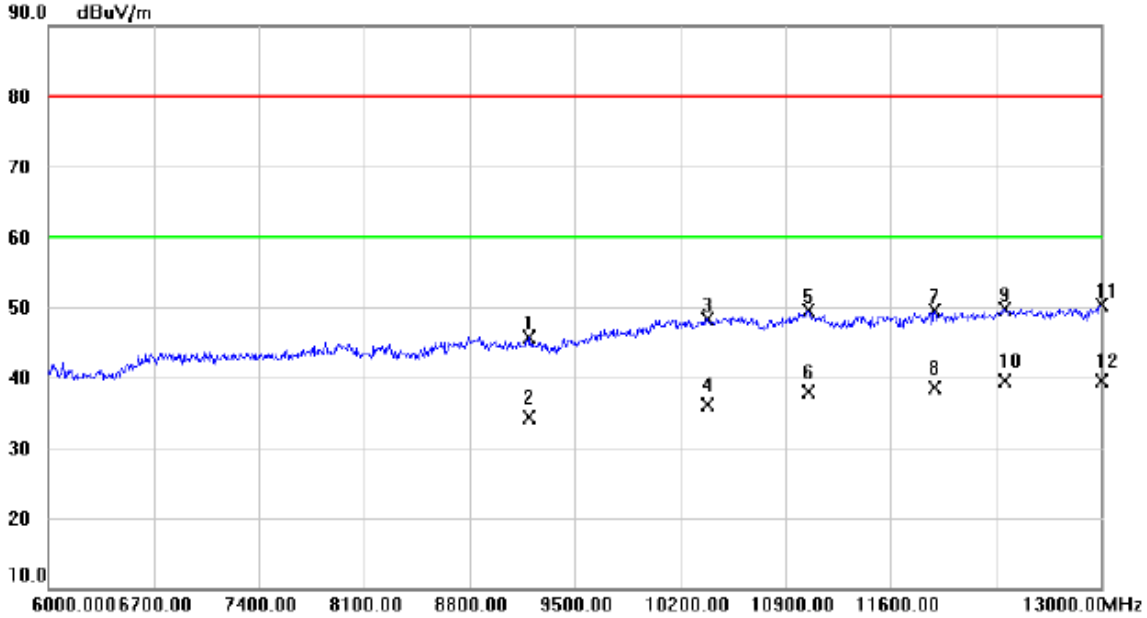
Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1050.000	45.44	-7.22	38.22	80.00	-41.78	peak	
2		1050.000	33.52	-7.22	26.30	60.00	-33.70	AVG	
3		1250.000	50.93	-6.58	44.35	80.00	-35.65	peak	
4		1250.000	38.64	-6.58	32.06	60.00	-27.94	AVG	
5		1355.000	48.88	-6.24	42.64	80.00	-37.36	peak	
6		1355.000	36.14	-6.24	29.90	60.00	-30.10	AVG	
7		2402.500	47.23	-1.47	45.76	80.00	-34.24	peak	
8	*	2402.500	35.19	-1.47	33.72	60.00	-26.28	AVG	
9		3270.000	39.92	1.15	41.07	80.00	-38.93	peak	
10		3270.000	27.64	1.15	28.79	60.00	-31.21	AVG	
11		5362.500	37.37	5.70	43.07	80.00	-36.93	peak	
12		5362.500	25.85	5.70	31.55	60.00	-28.45	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	FULL SYSTEM

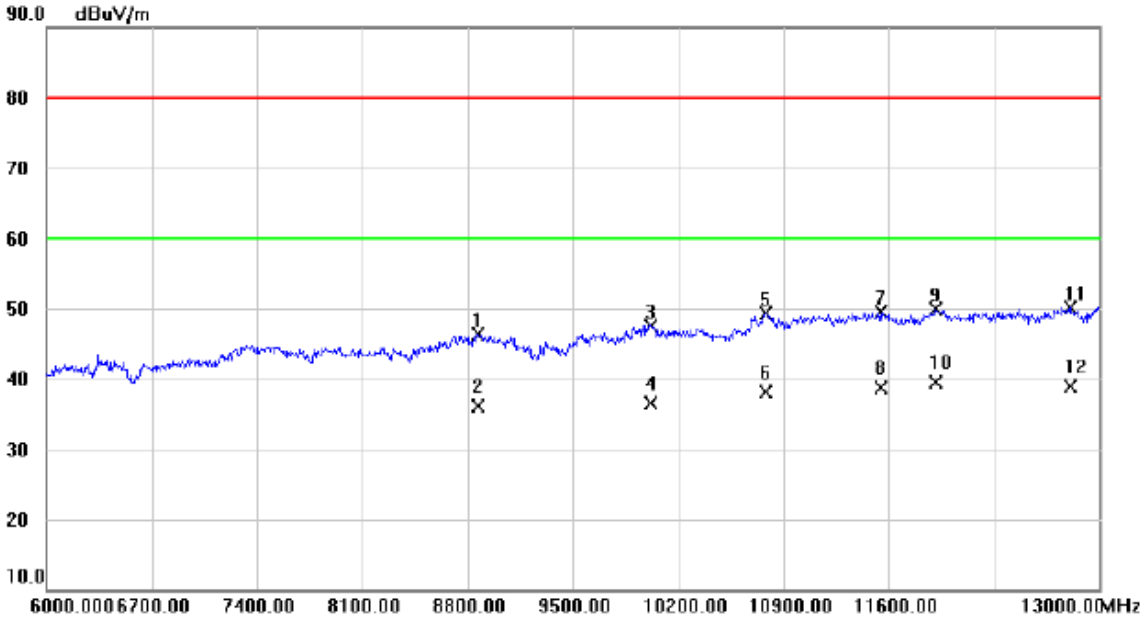
Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		9199.000	29.97	15.77	45.74	80.00	-34.26	peak	
2		9199.000	18.63	15.77	34.40	60.00	-25.60	AVG	
3		10382.00	33.84	14.47	48.31	80.00	-31.69	peak	
4		10382.00	21.64	14.47	36.11	60.00	-23.89	AVG	
5		11054.00	29.09	20.36	49.45	80.00	-30.55	peak	
6		11054.00	17.63	20.36	37.99	60.00	-22.01	AVG	
7		11894.00	26.77	22.65	49.42	80.00	-30.58	peak	
8		11894.00	15.78	22.65	38.43	60.00	-21.57	AVG	
9		12356.00	30.49	19.30	49.79	80.00	-30.21	peak	
10		12356.00	20.14	19.30	39.44	60.00	-20.56	AVG	
11		13000.00	28.47	21.90	50.37	80.00	-29.63	peak	
12	*	13000.00	17.64	21.90	39.54	60.00	-20.46	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	FULL SYSTEM

Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		8870.000	30.41	15.96	46.37	80.00	-33.63	peak	
2		8870.000	20.13	15.96	36.09	60.00	-23.91	AVG	
3		10018.00	31.61	15.99	47.60	80.00	-32.40	peak	
4		10018.00	20.45	15.99	36.44	60.00	-23.56	AVG	
5		10781.00	31.77	17.59	49.36	80.00	-30.64	peak	
6		10781.00	20.45	17.59	38.04	60.00	-21.96	AVG	
7		11544.00	29.12	20.42	49.54	80.00	-30.46	peak	
8		11544.00	18.36	20.42	38.78	60.00	-21.22	AVG	
9		11908.00	27.14	22.73	49.87	80.00	-30.13	peak	
10	*	11908.00	16.78	22.73	39.51	60.00	-20.49	AVG	
11		12804.00	29.77	20.25	50.02	80.00	-29.98	peak	
12		12804.00	18.67	20.25	38.92	60.00	-21.08	AVG	