

Date of Issue: Dec. 29, 2017 Report No.: F17121511-2

### FCC 47 CFR PART 15 SUBPART B

### **TEST REPORT**

### **FOR**

### **EPoC Kit**

Model:AP-FEX-0105-R,AP-FEX-0100-R, AP-FEX-0105-T

Trade Name: VIVOTEK

### Issued to

### VIVOTEK INC.

6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C.

### Issued by

### WH Technology Corp.

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	Tel.: +886-2-7729-7707 Fax: +886-2-8648-1311				

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**PHOTOS OF EUT** 



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### 1. GENERAL INFORMATION

Applicant : VIVOTEK INC.

Address : 6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235,

Taiwan, R.O.C.

Manufacturer : VIVOTEK INC.

Address : 6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235,

Taiwan, R.O.C.

EUT : EPoC Extender

Model Name : AP-FEX-0105-R,AP-FEX-0100-R,AP-FEX-0105-T

Model Differences : N/A

Is herewith confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart B and CISPR PUB. 22 and the measurement procedures were according to ANSI C63.4-2014. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart B

Class A

Receipt Date: 12/15/2017 Final Test Date: 12/29/2017

Tested By: Reviewed by:

Dec. 29, 2017

Date Bell Wei/ Engineer

Dec. 29, 2017

**Date** 

Mike Lee / Manager

Designation Number: TW1083



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#### 1.1 DESCRIPTION OF THE TESTED SAMPLES

**EUT** 

EUT Type : ☑ Engineer Type

Condition when received : 
☑ Good □ Damage :

EUT Name : EPoC Kit

Model Number : AP-FEX-0105-R

Receipt Date : 12/15/2017

EUT Power Rating : □AC Power :

 $\square$ DC Power

□DCV from PC

☑DCV from Adaptor

I/O Port of EUT : BNC cable 2M \* 1 (NS)

RJ45 cable 1M \* 2 (NS)

DC power cable 2M \* 1 (NS)

#### 1.2 SUMMARY OF TEST RESULT

Emission						
Test Standard	Test Item	Test Result				
FCC Part 15B Class A	Conducted Emission	Pass				
FCC Part 15B Class A	Radiated Emission	Pass				



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### 1.3 TEST METHODOLOGY

#### **EUT SYSTEM OPERATION**

- 1. The EUT was configured according to ANSI C63.4 2014 Section 5.2, 7.1, 7.2 & FCC PART 15.
- 2. Photos of test configuration please refer to appendix 1.
- 3. Perform the EMC testing procedures, and measure the maximum emission noise.



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#### 1.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

### Setup Diagram

See test photographs attached in appendix I for the actual connections between EUT and support equipment.

### Support Equipment

Peripherals Devices:

	OUTSIDE SUPPORT EQUIPMENT								
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord		
1.	Printer	D4360	N/A	R33001	HP	Shielded 1.8m / USB	Unshielded 1.8m		
2.	USB 3.0	TC100-001	NA	D43606	TCELL	Shielded 1m / USB	N/A		
3	Mouse	MS111-L	CN-09RRC7- 48729-43M-0 70D	T41126	DELL	Shielded 1.8m / USB	N/A		
4	Notebook	B470	WB0604823	R33B65	lenovo	N/A	Unshielded 1.8m		
	EUT								
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord		
1.	Adapter	LTE65ES-S7 -1	N/A	N/A	L.T.E	N/A	N/A		

**Note:** All the above equipment /cable were placed in worse case position to maximize emission signals during emission test.

**Grounding:** Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.

# 1.5 FEATURES OF EUT: PLEASE REFER TO USER MANUAL OR PRODUCT SPECIFICATION.



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### 2. INSTRUMENT AND CALIBRATION

#### 2.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 2.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

#### TABLE LIST OF TEST AND MEASUREMENT EQUIPMENT

### #: Calibration interval of instruments listed above is one year

Test Site	Instrument	Manufacturer	Model No.	S/N	Next Cal. Date
	Spectrum (9K3GHz)	R&S	FSP3	833387/01 0	2018/12/07
	EMI Receiver	R&S	ESHS10	830223/00 8	2018/06/06
Conduction	LISN	Rolf Heine Hochfrequenztech nik	NNB-2/16z	98062	2018/06/11
	ISN	Schwarzbeck	8-Wire ISN CAT5	CAT5-8158 -0094	2018/10/19
	RF Cable	N/A	N/A	EMI-3	2018/10/17
Radiation	Bilog antenna(30M- 1G)	ETC	MCTD2786B	BLB16M0 4004/JB-5- 004	2018/05/18
	Double Ridged Guide Horn antenna(1G-18 G)	ETC	MCTD 1209	DRH15N0 2009	2018/11/28
	Horn antenna (18G-26G)	com-power	AH-826	81000	2018/08/16
	LOOP Antenna (Below 30M)	com-power	AL-130	17117	2018/11/12



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	Pre amplifier (30M-1G)	EMC INSTRUMENT	EMC9135	980334	2018/05/03
	Microwave Preamplifier (1G-18G)	EMC INSTRUMENT	EMC051845	980108&A T -18001	2018/11/27
	Pre amplifier (18G~26G)	MITEQ	JS4-18002600-30- 5A	808329	2018/08/09
	EMI Test Receiver	R&S	ESVS30 (20M-1000MHz)	826006/002	2018/11/07
	RF Cable (open site)	EMCI	N male on end of both sides (EMI4)	30m	2018/11/09
	RF CABLE (1~26G)	HARBOUT INDUSTRIES	LL142MI(4M+4M)	NA	2018/04/17
	RF CABLE (1~26G)	HARBOUR INDUSTRIES	LL142MI(7M)	NA	2018/08/09
	Spectrum (9K7GHz)	R&S	FSP7	830180/006	2018/04/14
	Spectrum (9K40GHz)	AGILENT	8564EC	4046A0032	2018/03/01
Software	e3	AUDIX	N/A	N/A	N/A
SG	SINGAL GENTERATOR (100k-1GHz)	НР	8648A	3619U0042 6	N/A

#### 2.3 TEST PERFORMED

Conducted emissions were invested over the frequency range from 0.15 MHz to 30 MHz using a receiver which bandwidth is set at 9 KHz.

Radiated emissions were invested over the frequency range from 30 MHz to 1000 MHz using a receiver which bandwidth is set at 120 KHz. Radiated measurement was performed at distance that from an antenna to EUT is 10 meters.

#### 2.4 APPENDIX

# Appendix A: Measurement Procedure for Main Power Port Conducted Emissions

The measurements are performed in a WH lab room; The EUT was placed on non-conductive 1.0 m x 1.5 m table, which is 0.8 meters above an earth-grounded.

Power to the EUT was provided through the LISN which has the Impedance (50 ohm/50 uH) vs. Frequency Characteristic in accordance with the standard. Powers to the LISNs were filtered to eliminate ambient signal interference and these filters were bonded to the ground plane. Peripheral equipment required to provide a functional system (support equipment) for EUT testing was powered from the second LISN through a ganged, metal power outlet box which is bonded to the ground plane at the LISN.

If the EUT is supplied with a flexible power cord, the power cord length in excess of the distance separating the EUT from the LISN shall be folded back and forth at



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the center of the lead so as to form a bundle not exceeding 40 cm in length. If the EUT is provided with a permanently coiled power cord, bundling of the cord is not required. If the EUT is supplied without a power cord, the EUT shall be connected to the LISN by a power cord of the type specified by the manufacturer which shall not be longer than 1 meter. The excess power cord shall be bundled as described above. If a non-flexible power cord is provided with the EUT, it shall be cut to the length necessary to attach the EUT to the LISN and shall not be bundled.

The interconnecting cables were arranged and moved to get the maximum measurement. Both the line of power cord, hot and neutral, was measured.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.

#### **Appendix B: Test Procedure for Radiated Emissions**

#### **Preliminary Measurements in the Anechoic Chamber**

The radiated emissions are initially measured in the anechoic chamber at a measurement distance of 3 meters. Desktop EUT are placed on a wooden stand 0.8 meter in height. The measurement antenna is 3 meters from the EUT. The test setup in anechoic chamber is the same as open site. The turntable rotated 360°. The antenna height is 1m. The primary objective of the radiated measurements in the anechoic chamber is to identify the frequency spectrum in the absence of the electromagnetic environment existing on the open test site. The frequencies can then be pre-selected on the open test site to obtain the corresponding amplitude. The initial scan is made with the spectrum analyzer in automatic sweep mode. The spectrum peaks are then measured manually to determine the exact frequencies.

### Measurements on the Open Site or Chamber

The radiated emissions test will then be repeated on the open site or chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipments are set up on the turntable. Desktop EUT are set up on a wooden stand 0.8 meter above the ground.

For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. Both reading are recorded with the quasi-peak detector with 120 KHz bandwidth. For frequency between 30 MHz and 1000 MHz, the reading is recorded with peak detector or quasi-peak detector.

At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum



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measurement. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings.



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### **Appendix C: Warning Labels**

#### **Label Requirements**

A Class B digital device subject to certification by the FCC shall carry a warning label which includes the following statement:

#### \* \* \* W A R N I N G \* \* \*

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **Appendix D: Warning Statement**

#### **Statement Requirements**

The operator's manual for a Class A digital device shall contain the following statements or their equivalent:

#### \* \* \* W A R N I N G \* \* \*

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and uses in accordance with the instruction manual, may cause harmful interference to radio communications Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equivalent.

\* \* \* \* \* \* \* \* \*

If the EUT was tested with special shielded cables the operator's manual for such product shall also contain the following statements or their equivalent:

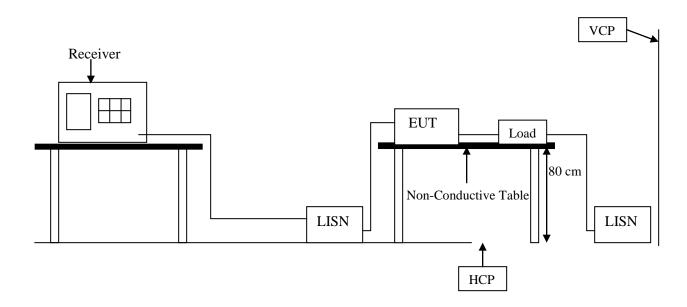
Shielded interface cables and/or AC power cord, if any, must be used in order to comply with the emission limits.



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#### 3. CONDUCTED EMISSION MEASUREMENT

### 3.1 TEST SET-UP (PLEASE REFER TO APPENDIX 1)



#### 3.2 LIMIT

Eroguenov rongo	CLA	SS A	CLASS B		
Frequency range (MHz)	QP dB(uV)	Average dB(uV)	QP dB(uV)	Average dB(uV)	
0.15-0.5	79 dBuV	66 dBuV	66 - 56 dBuV	56 - 46 dBuV	
0.5-5.0	73 dBuV	60 dBuV	56 dBuV	46 dBuV	
5.0-30.0	73 dBuV	60 dBuV	60 dBuV	50 dBuV	

Remark: In the above table, the tighter limit applies at the band edges.

#### 3.3 TEST PROCEDURE

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50  $\mu$ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50  $\mu$ H coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to FCC



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PART 15 regulation: The measurement procedure on conducted emission interference.

The resolution bandwidth of the field strength meter is set at 9KHz

### 3.4 TEST SPECIFICATION

ANSI C63.4 - 2014 Section 5.2, 7.1, 7.2 & FCC PART 15 CLASS A

3.5 RESULT: PASSED

3.6 TEST DATA:

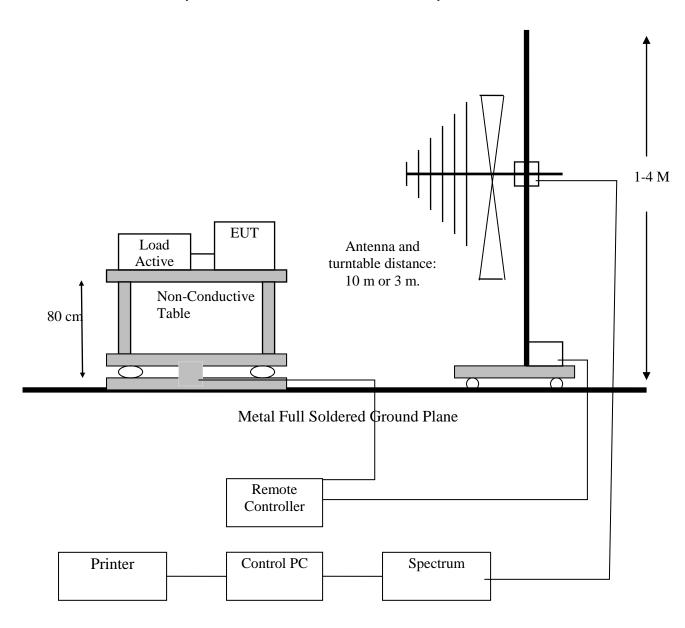
Please refer to appendix 2.



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### 4. RADIATED EMISSION MEASUREMENT

### 4.1 TEST SETUP (PLEASE REFER TO APPENDIX 1)





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#### **4.2 LIMIT**

Frequency	Class	s A	Class B		
MHz	Distance (Meter)	Limit dB <sub>µ</sub> V/m	Distance (Meter)	Limit dBμV/m	
30 ~ 230	10	40	10	30	
230 ~ 1000	10	47	10	37	

Frequency range	Average limit	Peak limit
GHz	dB(μV/m)	dB(μV/m)
Above 1000	54	74

Remark: In the above table, the tighter limit applies at the band edges

#### 4.3 TEST PROCEDURE

The EUT and its simulators are placed on turn table, non-conductive and wooden table, which is 0.8 meter above ground. The turn table rotates 360 degrees to determine the position of the maximum emission level. For the frequency range is below 1 GHz, the EUT was positioned such that distance from antenna to the EUT is 10 meters. For the frequency range is above 1 GHz, the EUT was positioned such that distance from antenna to the EUT is 3 meters.

For the frequency range is below 1 GHz, the antenna is moved up and down between 1 meter and 4 meters to receive the maximum emission level.

Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission, all of the interference cables must be manipulated according to FCC regulation: the test procedure of the radiated emission measurement.

The bandwidth set on the field strength is 120 KHz when the frequency range is below 1GHz. The bandwidth set on the field strength is 1 MHz when the frequency range is above 1GHz.

#### 4.4 TEST SPECIFICATION

ANSI C63.4 – 2014 Section 5.2, 7.1, 7.2 & FCC PART 15 CLASS A



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4.5 RESULT: PASSED

4.6 TEST DATA:

Please refer to appendix 2.



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### 5. MEASUREMENT UNCERTAINTY

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30. MHz	LINE/NEUTRAL	1.78 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Horizontal	3.59 dB
		Vertical	3.89 dB
	1,000 MHz ~ 18GHz	Horizontal	5.00 dB
	1,000 MHz ~ 18GHz	Vertical	4.64 dB



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### SAMPLE OF FCC VERIFICATION LABEL 1

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. And (2)

this device must accept any interference received, including interference that may cause undesired operation.

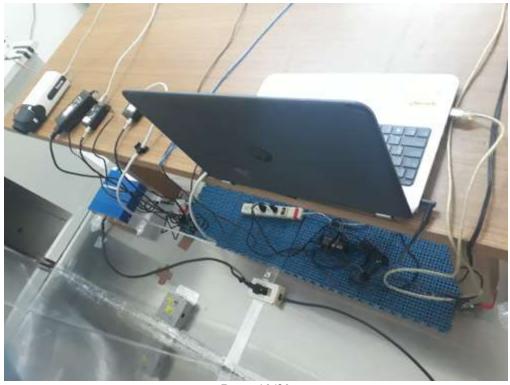


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# APPENDIX 1 PHOTOS OF TEST CONFIGURATION

Photograph -Conduction Emission Test Setup





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Photograph –ISN Test Setup







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Photograph - Radiated Emission Test Setup





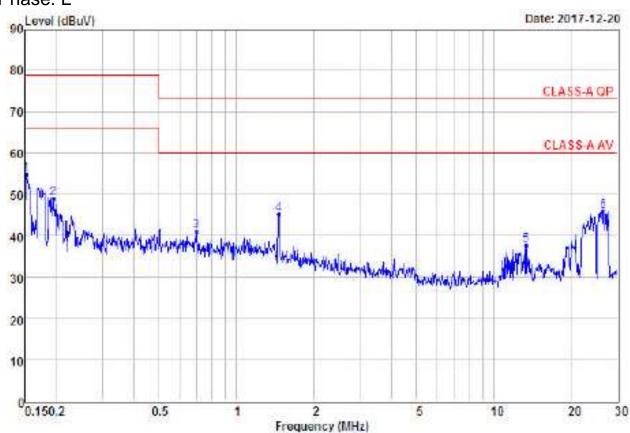


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# **APPENDIX 2 TEST DATA**

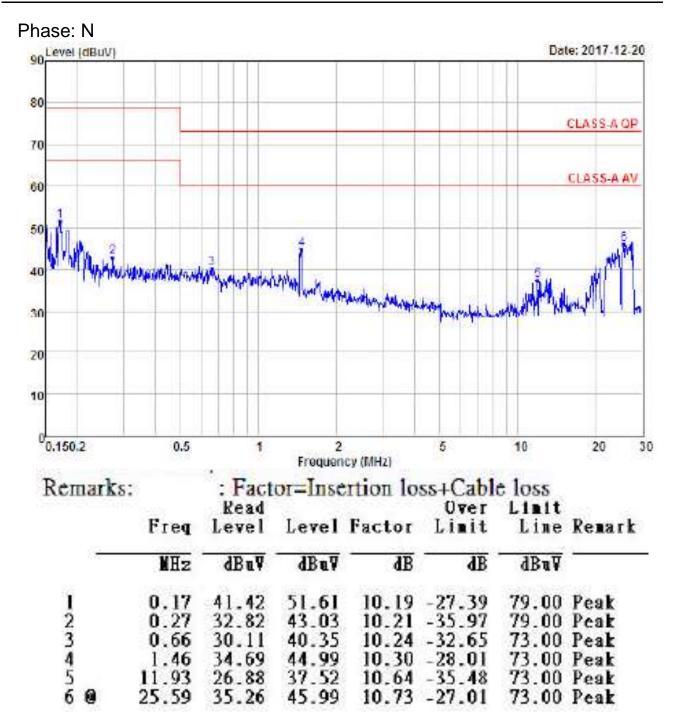
### **Test Data - Conducted Emission**

Phase: L



Remarks:		: Fact	or=Inse	rtion lo	ss+Cabl	e loss	
	Freq	Read Level	Level	Factor	Over Li∎it	Limit Line	Remark
- C	MHz	dBuV	dBuV	dB	₫B	dBu∀	-
10	0.15	44.64	54.76	10.12	-24.24	79.00	Peak
2	0.19	38.90	49.02	10.12	-29.98	79.00	Peak
3	0.70	30.82	40.97	10.15	-32.03	73.00	Peak
4	1.46	34.99	45.19	10.20	-27.81	73.00	Peak
5	13.34	27.14	37.66	10.52	-35.34	73.00	Peak
6	26.56	35.01	45.84	10.83	-27.16	73.00	Peak

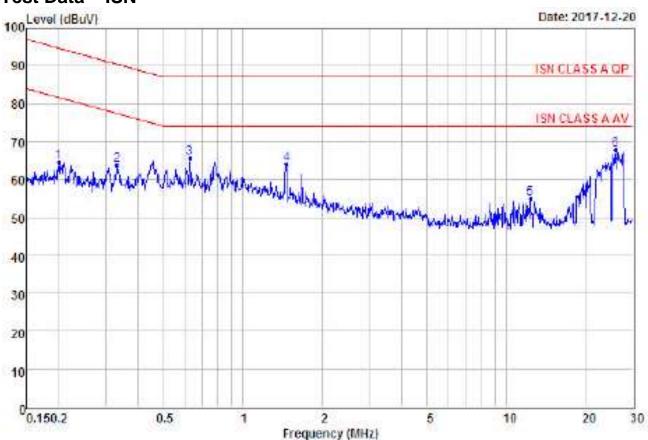






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### Test Data - ISN



Remarks:	: Factor=Insertion loss+Cable loss						
		Read			Over	Linit	
	Freq	Level	Level	Factor	Limit	Line	Remark

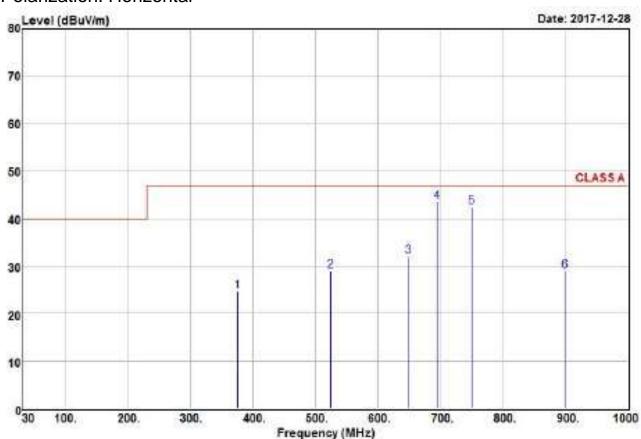
10	MHz	dBuV	dBu7	dB	dB	dBuV	201
1	0.20	44.65	64.66	20.01	-30.01	94.67	Peak
2	0.33	43.82	63.71	19.89	-26.69	90.40	Peak
3	0.63	45.98	65.73	19.75	-21.27	87.00	Peak
4	1.46	44.33	64.01	19.68	-22.99	87.00	Peak
5	12.32	35.36	55.04	19.68	-31.96	87.00	Peak
6 @	26.00	48.03	67.88	19.85	-19.12	87.00	Peak



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### Test Data - Radiated Emission- Below 1GHz

Polarization: Horizontal



Remarks:

: 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

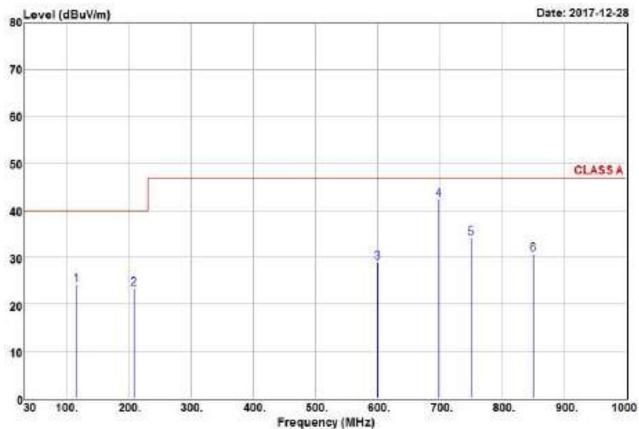
: Amplifier Factor

	_	Read			Over	1	
	Freq	Level	Factor	Level	Limit	Line	Remark
_	MHz	dBuV	dB/m	dBuV/m	dB	dBuV/m	,
1	375.32	36.93	-12.19	24.74	-22.26	47.00	QP
2	524.70	38.66	-9.65	29.01	-17.99	47.00	QP
3	649.83	39.83	-7.72	32.11	-14.89	47.00	QP
4@	695.42	51.28	-7.68	43.60	-3.40	47.00	QP
5	750.71	49.17	-6.75	42.42	-4.58	47.00	QP
6	900.09	33.76	-4.75	29.01	-17.99	47.00	QP



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Remarks:

: 1.Result=Read Value+Factor

: 2.Factor=Antenna Factor+Cable loss-

: Amplifier Factor

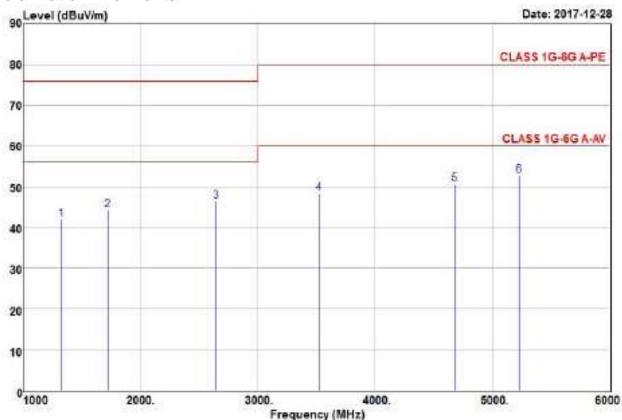
			Read			Over	Limit	
		Freq	Level	Factor	Level	Limit	Line	Remark
	25	MHz	dBuV	dB/m	dBuV/m	dB	dBuV/m	
1		115.36	39.91	-15.76	24.15	-15.85	40.00	QP
2		208.48	42.87	-19.53	23.34	-16.66	40.00	QP
3		600.36	38.37	-9.38	28.99	-18.01	47.00	QP
4	@	698.33	49.95	-7.68	42.27	-4.73	47.00	QP
5	776	750.71	40.89	-6.75	34.14	-12.86	47.00	QP
6		850.62	35.40	-4.75	30.65	-16.35	47.00	QP



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### Test Data - Radiated Emission- Above 1GHz

Polarization: Horizontal



Remarks: : 1.Result=Read Value+Factor

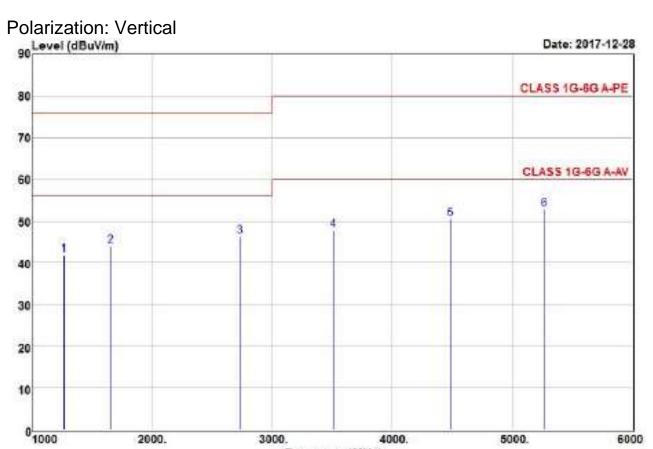
: 2.Factor=Antenna Factor+Cable loss-

: Amplifier Factor

	Read Freq Level		Factor	Level	Over Limit	Limit Line	Remark
-	MHz	dBuV	dB/m	dBuV/m	dB	dBuV/m	
1	1328.00	61.37	-19.29	42.08	-33.92	76.00	Peak
2	1721.00	61.47	-17.10	44.37	-31.63	76.00	Peak
3	2648.00	59.76	-13.30	46.46	-29.54	76.00	Peak
4	3526.00	58.75	-10.31	48.44	-31.56	80.00	Peak
5	4678.00	57.52	-6.80	50.72	-29.28	80.00	Peak
6 @	5231.00	58.22	-5.45	52.77	-27.23	80.00	Peak



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: 1.Result=Read Value+Factor Remarks:

: 2.Factor=Antenna Factor+Cable loss-

3000.

: Amplifier Factor

2000.

	Freq	Read Level	Factor	Level	Over Limit	10.00	Remark
-	MHz	dBuV	dB/m	dBuV/m	dB	dBuV/m	
1	1268.00	61.43	-19.55	41.88	-34.12	76.00	Peak
2	1657.00	61.52	-17.50	44.02	-31.98	76.00	Peak
3	2732.00	59.37	-13.12	46.25	-29.75	76.00	Peak
4	3513.00	58.18	-10.36	47.82	-32.18	80.00	Peak
5	4484.00	57.86	-7.38	50.48	-29.52	80.00	Peak
6 @	5268.00	58.14	-5.40	52.74	-27.26	80.00	Peak

Frequency (MHz)

4000.

5000.

6000



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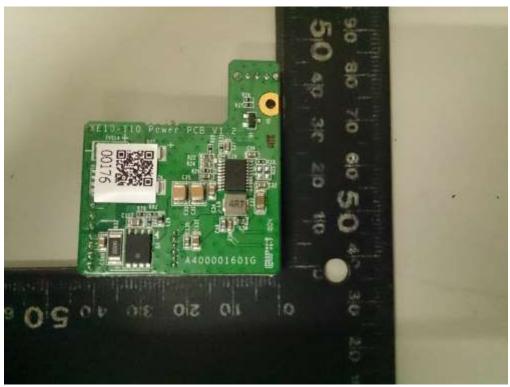




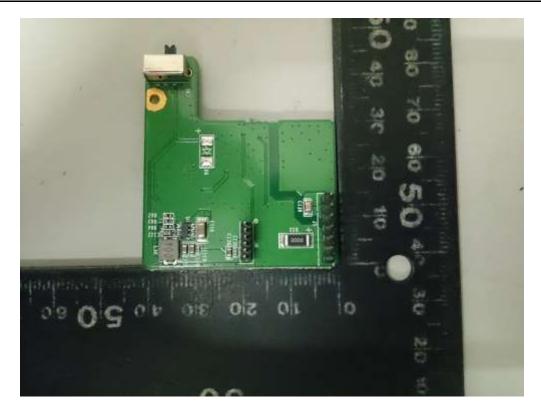






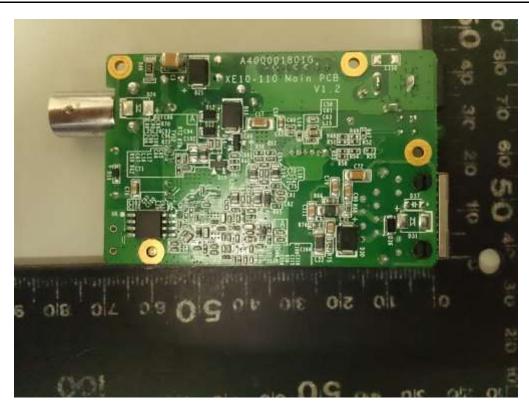














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