





## RADIO TEST REPORT FCC ID: 2AX5VFISMHTCJ2

Product: Smoke, heat, and CO alarm

Trade Mark: ハノハン

Model No.: FP2J1000NA

Family Model: FP2J3000NA

**Report No.:** S24091205805002

## **Prepared for**

AJAX SYSTEMS CYPRUS HOLDINGS LTD Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus

## Prepared by

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Version.1.2 Page 1 of 28





## **TEST RESULT CERTIFICATION**

Applicant's name:	AJAX SYSTEMS CYPRUS HOLDINGS LTD
Address:	Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus
Manufacturer's Name:	"AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY
Address::	Sklyarenka, 5, Kyiv, 04073, Ukraine
Factory (1):	"AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY
Address::	Sklyarenka, 5, Kyiv, 04073, Ukraine
Factory (2)::	"AJAX TURKEY ELEKTRONİK TİCARET" ANONİM ŞİRKETİ
Address:	Aydınlı Sb Mah. 4.Sk. Desbaş 6 Blok No: 4 lc Kapi No: Z01 Tuzla / Istanbul
Product description	
Product name:	Smoke, heat, and CO alarm
Model and/or type reference :	FP2J1000NA
Family Model::	FP2J3000NA
Standards:	FCC Part15.249
Test procedure	ANSI C63.10-2013
	been tested by NTEK, and the test results show that the compliance with the FCC requirements. And it is applicable only the report.
This report shall not be reproduc-	ed except in full, without the written approval of NTEK, this
document may be altered or revis	sed by NTEK, personnel only, and shall be noted in the revision o
the document.	
Test Sample Number	: S240912058001
Date of Test	:
Date (s) of performance of tests	
Date of Issue	
Test Result	Pass
Prepared Gavan Zhang	Reviewed. Approved. Alex Li
By : Gavan Zhang	By : Aaron Cheng By : Alex Li
(Project Engineer)	(Supervisor) (Manager)

Version.1.2 Page 2 of 28





Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	ED 9
2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3 . ANTENNA REQUIREMENT	13
3.1 STANDARD REQUIREMENT	13
3.2 EUT ANTENNA	13
3.3 CONDUCTED EMISSION MEASUREMENT	14
3.3.1 POWER LINE CONDUCTED EMISSION LIMITS	14
3.3.2 TEST PROCEDURE	15
3.3.3 DEVIATION FROM TEST STANDARD	15
3.3.4 TEST SETUP	15 46
3.3.5 TEST RESULT	16
3.4 RADIATED EMISSION MEASUREMENT 3.4.1 RADIATED EMISSION LIMITS	17 17
3.4.1 RADIATED EMISSION LIMITS 3.4.2 TEST PROCEDURE	17
3.4.3 DEVIATION FROM TEST STANDARD	18
3.4.4 TEST RESULTS (BELOW 30MHZ)	20
3.4.5 TEST RESULTS (BELOW 1000 MHZ)	21
3.4.6 TEST RESULTS (ABOVE 1000 MHZ)	23
3.4.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)	25
4. BANDWIDTH TEST	27
4.1 TEST PROCEDURE	27
4.2 DEVIATION FROM STANDARD	27
4.3 TEST SETUP	27
4.4. TEST RESULTS	28

Version.1.2 Page 3 of 28





## **Revision History**

Report No.	Version	Description	Issued Date
S24091205805002	Rev.01	Initial issue of report	Oct. 29, 2024

Version.1.2 Page 4 of 28





## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A		
15.203	Antenna Requirement	Pass		
15.249 15.209	Radiated Spurious Emission	Pass		
15.249(2)	Frequency Tolerance	Pass		
15.249(a)	Fundamental Measurement	Pass		
15.205	Band Edge Emission	Pass		
15.215	Occupied Bandwidth	Pass		

Version.1.2 Page 5 of 28





#### 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen,

Guangdong, China

FCC FRN Registration No.:463705; IC Registration No.:9270A-1

CNAS Registration No.:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

Version.1.2 Page 6 of 28





## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment Smoke, heat, and CO alarm		
Trade Mark	AJAX	
FCC ID	2AX5VFISMHTCJ2	
Model No.	FP2J1000NA	
Family Model	FP2J3000NA	
Model Difference	All models are the same circuit and RF module, except FP2J1000NA model with replaceable batteries, FP2J3000NA model with batteries soldered into the board	
Operating Frequency	926MHz	
Modulation	GFSK	
Number of Channels	1 Channels	
Antenna Type	Inverted-F antenna	
Antenna Gain	1 dBi	
Battery	DC 3V, 1600mAh	
Power supply	DC 3V from battery * 2pcs	
HW Version	EM4.002.MBR.000v4	
FW version	NA	
SW Version	5.xx	

#### Note:

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

2.

Channel	Frequency(MHz)
01	926.00

Version.1.2 Page 7 of 28





#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates 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	CH01(926MHz)	

For AC Conducted Emission			
Pretest Mode Description			
Mode 1 CH01(926MHz)			

For Radiated Spurious Emission			
Pretest Mode Description			
Mode 1 CH01(926MHz)			

For Conducted Emission			
Final Test Mode Description			
Mode 1 CH01(926MHz)			

Version.1.2 Page 8 of 28





# Report No.: S24091205805002 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED For AC Conducted Emission Mode **AC PLUG** For Radiated Test Cases **AC PLUG** For Conducted Test Cases C-1 Measurement Instrument

Version.1.2 Page 9 of 28





#### 2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
EUT	Smoke, heat, and CO alarm	FP2J1000NA	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	RF Cable	NO	NO	0.1m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.

Version.1.2 Page 10 of 28





#### 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.11	2025.03.10	1 year
2	Test Receiver	R&S	ESPI7	101318	2024.03.11	2025.03.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.26	2025.04.25	1 year
6	Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 year
8	Amplifier	EMC	EMC05183 5SE	980246	2024.01.23	2025.01.22	1 year
9	Loop Antenna	ARA	PLA-2030/ B	1029	2024.04.25	2025.04.24	1 year
10	Power Meter	Agilent	E4419B	MY45102538	2024.04.25	2025.04.24	1 year
11	ESG VETCTOR SIGNAL GENERARO R	Agilent	E4438C	MY45093347	2024.04.13	2025.04.12	1 year
12	Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2024.03.11	2025.03.10	1 year
13	Power Sensor	Agilent	E9301A.	MY41495644	2024.04.25	2025.04.24	1 year

#### Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

Version.1.2 Page 11 of 28





AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Version.1.2 Page 12 of 28





#### 3. ANTENNA REQUIREMENT

#### 3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 3.2 EUT ANTENNA

The EUT antenna is permanent attached . It comply with the s	standard reduirer	nent.
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Version.1.2 Page 13 of 28





#### 3.3 CONDUCTED EMISSION MEASUREMENT

#### 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
FREQUENCT (IVITZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

#### 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.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Version.1.2 Page 14 of 28





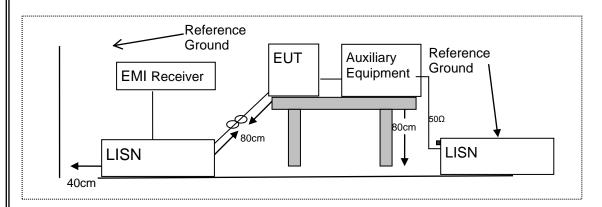
#### 3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



Version.1.2 Page 15 of 28





## 3.3.5 TEST RESULT

EUT:	Smoke, heat, and CO alarm	Model Name. :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: The EUT is powered by battery, so this item is not applicable

Version.1.2 Page 16 of 28





#### 3.4 RADIATED EMISSION MEASUREMENT

#### **3.4.1 Radiated Emission Limits** (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
Frequency (MHz)	Limit (dBuV)	
30~88	40	3
88~216	43.5	3
216~960	46	3
960 -10000	54.00	3
*902 - 928	94.00	3

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) \*Note: This is the limit for the fundamental frequency.

## LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
902-928	50	500

#### Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Version.1.2 Page 17 of 28





#### 3.4.2 TEST PROCEDURE

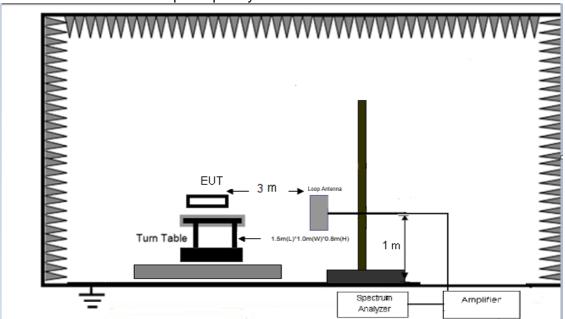
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 3.4.3 DEVIATION FROM TEST STANDARD

No deviation

(A) Radiated Emission Test-Up Frequency Below 30MHz

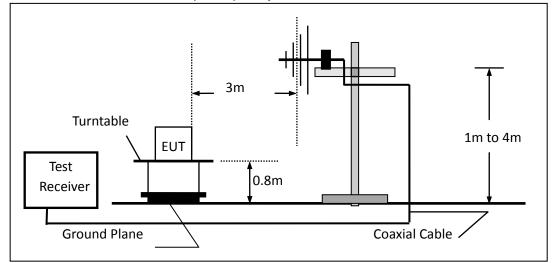


Version.1.2 Page 18 of 28

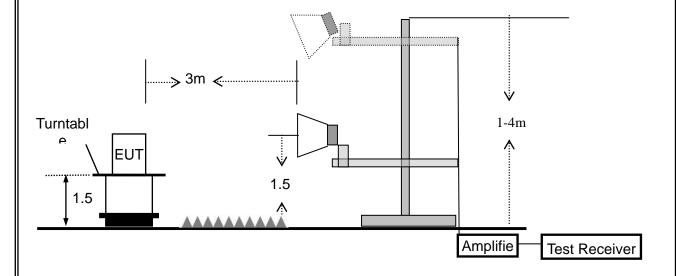




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



Version.1.2 Page 19 of 28





#### 3.4.4 TEST RESULTS (BELOW 30MHZ)

EUT:	Smoke, heat, and CO alarm	Model Name. :	FP2J1000NA
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Version.1.2 Page 20 of 28





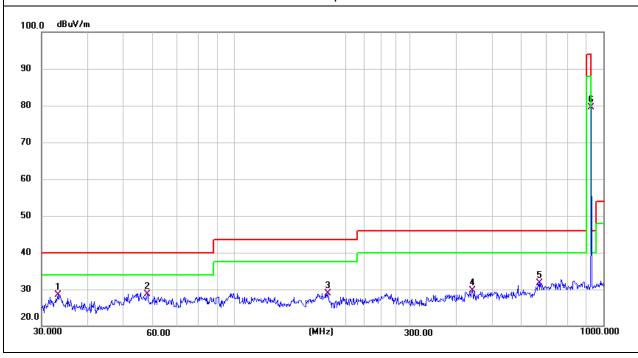
## 3.4.5 TEST RESULTS (BELOW 1000 MHZ)

EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1-TX-926MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20100101 1990
33.2111	17.26	11.16	28.42	40.00	-11.58	QP
57.9992	15.46	13.17	28.63	40.00	-11.37	QP
179.3863	18.64	10.23	28.87	43.50	-14.63	QP
441.7425	11.84	17.77	29.61	46.00	-16.39	QP
670.4891	9.90	21.87	31.77	46.00	-14.23	QP
926.0000	54.28	25.22	79.50	94.00	-14.50	QP

#### Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Version.1.2 Page 21 of 28



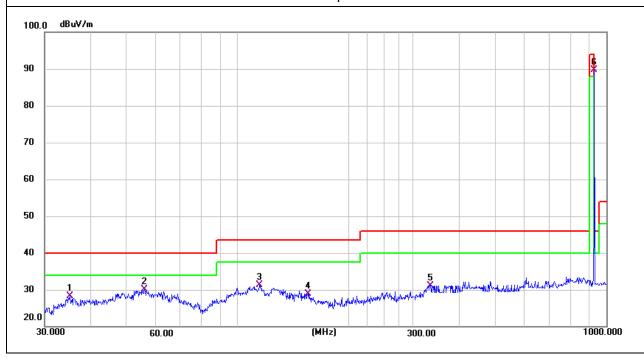


EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1-TX-926MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Dottotto: Typo
35.1276	16.83	11.49	28.32	40.00	-11.68	QP
56.0007	16.51	13.56	30.07	40.00	-9.93	QP
114.9167	20.22	11.16	31.38	43.50	-12.12	QP
155.3642	19.93	8.88	28.81	43.50	-14.69	QP
333.6865	15.70	15.48	31.18	46.00	-14.82	QP
926.0000	64.56	25.22	89.78	94.00	-4.22	QP

## Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Version.1.2 Page 22 of 28





## 3.4.6 TEST RESULTS (ABOVE 1000 MHZ)

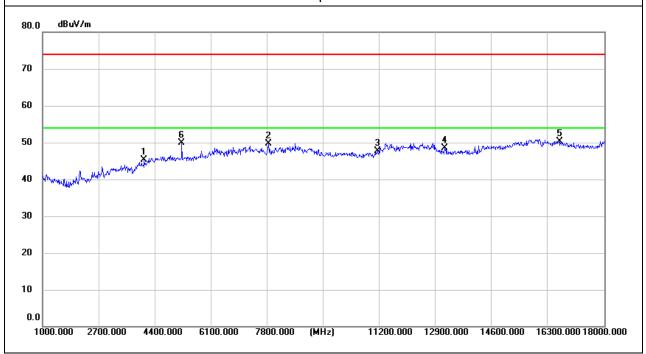
EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1-TX-926MHz	Polarization :	Horizontal

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Dottoolor Typo
4077.000	45.84	-0.56	45.28	74.00	-28.72	peak
7834.000	42.39	7.31	49.70	74.00	-24.30	peak
11149.000	35.60	12.11	47.71	74.00	-26.29	peak
13172.000	35.01	13.41	48.42	74.00	-25.58	peak
16640.000	36.48	13.91	50.39	74.00	-23.61	peak
5216.000	47.64	2.22	49.86	74.00	-24.14	peak

#### Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



Version.1.2 Page 23 of 28



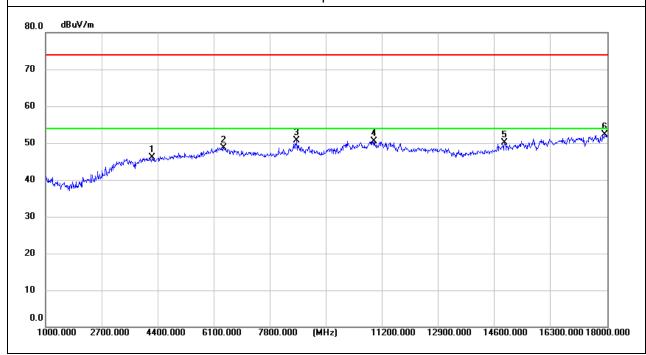


EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1-TX-926MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20.00.0. 1,00
4230.000	46.16	-0.10	46.06	74.00	-27.94	peak
6389.000	44.27	4.47	48.74	74.00	-25.26	peak
8599.000	42.32	8.47	50.79	74.00	-23.21	peak
10945.000	38.26	12.16	50.42	74.00	-23.58	peak
14889.000	35.72	14.43	50.15	74.00	-23.85	peak
17932.000	34.39	17.93	52.32	74.00	-21.68	peak

#### Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



Version.1.2 Page 24 of 28





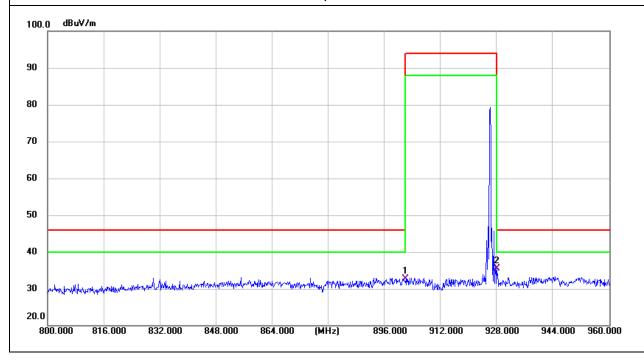
## 3.4.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode1-TX-926MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Dottotto: Typo
902.0000	7.63	25.09	32.72	46.00	-13.28	QP
928.0000	10.31	25.22	35.53	46.00	-10.47	QP

#### Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



Version.1.2 Page 25 of 28



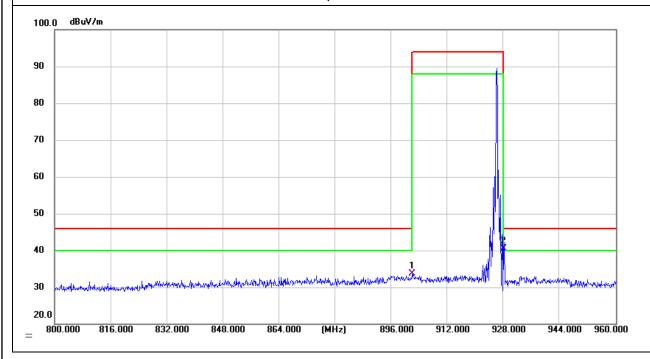


EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>25</b> ℃	Relative Humidity:	51%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode1-TX-926MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20.00.0 , po
902.0000	8.68	25.09	33.77	46.00	-12.23	QP
928.0000	15.23	25.22	40.45	46.00	-5.55	QP

## Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



Version.1.2 Page 26 of 28





#### 4. BANDWIDTH TEST

#### **4.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value., Sweep time = Auto.

#### **4.2 DEVIATION FROM STANDARD**

No deviation.

#### **4.3 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

Version.1.2 Page 27 of 28





#### 4.4. TEST RESULTS

EUT:	Smoke, heat, and CO alarm	Model Name :	FP2J1000NA
Temperature:	<b>26</b> ℃	Relative Humidity:	53%
Pressure:	1020 hPa	Test Power :	DC 3V
Test Mode :	Mode 1		

Test Channel	Frequency	20 dB Bandwidth
rest orialine	(MHz)	(KHz)
CH01	926	111.9



**END OF REPORT** 

Version.1.2 Page 28 of 28