

FCC Part 15B TEST REPORT

S T S

A

Report No.: STS1906218E01

Issued for

ITALCOM GROUP

1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code : 518048)

Product Name:	4G LTE
Brand Name:	NYX
Model Name:	ARGON
Series Model:	N/A
FCC ID:	YPVITALCOMARGON
Test Standard:	FCC 47 CFR Part 15: Subpart B

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Page 2 of 22

Report No.: STS1906218E01

TEST RESULT CERTIFICATION

Applicant's Name	ITALCOM GROUP
Address	1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code : 518048)
Manufacture's Name	Shenzhen Tianruixiang Communication Equipment LIMITED
Address	Rm810, Block E, Taojindi Building, Tenglong Road, Longhua District, Shenzhen, China
Product Description	
Product Name	4G LTE
Brand Name	NYX
Model Name	ARGON
Series Model	N/A
Standards	FCC 47 CFR Part 15: Subpart B
Test Procedure:	ANSI C63.4-2014

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:

Date of Performance of Tests: 21 June. 2019~26 June. 2019 Date of Issue: 27 June. 2019

:

Test Result Pass

Compiled by

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APPROVAL NOING

Authorized Signatory :

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Report No.: STS1906218E01



Table of Contents

Page 3 of 22

1. SUMMARY OF THE TEST RESULTS	5
1.1 TEST FACTORY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF THE EUT	6
2.2 DESCRIPTION OF THE TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM 1	FESTED9
2.4 DESCRIPTION OF THE SUPPORT UNITS	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3. EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.2 RADIATED EMISSION MEASUREMENT	16



Page 4 of 22

Report No.: STS1906218E01

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	27 June. 2019	STS1906218E01	ALL	Initial Issue



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1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	Item	Result	Remarks	
FOC 47 OFD Dart 45 Submart D	Conducted Emission	PASS	Meet Class B limit	
	Radiated Emission	PASS	Meet Class B limit	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address:	1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China	
Telephone:	+86-755 3688 6288	
Fax:	+86-755 3688 6277	
	FCC test Firm Registration Number: 625569	
Registration No.:	A2LA Certificate No.: 4338.01;	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±3.18dB
2	Conducted Emission (150KHz-30MHz)	±2.70dB
3	All emissions,radiated(<1G) 9KHz-30MHz	±2.50dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.43dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.57dB
6	All emissions, radiated (>1G)	±4.13dB

Shenzhen STS Test Services Co., Ltd.



Page 6 of 22

Report No.: STS1906218E01

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G LTE		
Brand Name	NYX		
Model Name	ARGON		
Series Model	N/A		
Product Differences	N/A		
	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz	
	WCDMA	Band II: 1852.4~1907.6MHz Band V: 826.4~846.6MHz	
Frequency Bands	LTE	Band 4: 1710.7~1754.3MHz	
	WLAN	802.11b/g/n(HT20):2412~2462MHz	
	Bluetooth	2402~2480MHz	
	GPS	1575.42MHz	
	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE	
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK	
	LTE	QPSK/16QAM;	
Modulation Mode	WLAN	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	
	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8DPSK	
	BLE	GFSK	
	GPS	BPSK	
SIM Card	Only single card support		
Adapter	Input: AC100-240V, 0.2A,50/60Hz Output: DC5V, 1000mA		
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 2700mAb		
zhen STS Test Services Co., Ltd.	1/F., Building Tel: + 86-755	g B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, Cl 3 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail:sts@stsapp.com	



Page 7 of 22

Report No.: STS1906218E01

Hardware Version Number	NYX_ARGON_001
Software Version Number	ARGON_AMXNYX_V001R

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



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2.2 DESCRIPTION OF THE 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	USB port communication with PC

For Conducted Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

For Radiated Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

NOTE:

- 1. The test modes were carried out for all operation modes. Only worst case will be show in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz) for which the device is capable of operation.

Page 9 of 22



Report No.: STS1906218E01

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM TESTED



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2.4 DESCRIPTION OF THE 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.

Accessories equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-6	Earphone	N/A	N/A

Auxiliary equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-1	Adapter	HP	HSTNN-CA15
E-2	PC	HP	500-320cx
E-3	Keyboard	Acer	SK-9624
E-4	Mouse	HP	MODGUO
E-5	Printer	LENOVO	LJ2400L

Cable

Item	Туре	Shielded Type	Ferrite Core	Length
C-1	N/A	Shielded	NO	150cm
C-2	USB Cable (FTP)	Shielded	NO	100cm
C-3	USB Cable (FTP)	Shielded	NO	180cm
C-4	USB Cable (FTP)	Shielded	NO	180cm
C-5	USB Cable (FTP)	Shielded	NO	120cm
C-6	N/A	Unshielded	NO	110cm

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 $\[\]$ Length $\[\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.

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Page 11 of 22



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Serial No. Last Calibration Calibrated Until Kind of Equipment Manufacturer Type No. R&S ESCI 101427 2018.10.13 2019.10.12 **EMI Test Receiver** TESEQ CBL6111D 34678 **Bi-log** Antenna 2017.11.02 2020.11.01 **SCHWARZB** Horn Antenna **BBHA 9120D** 9120D-1343 2018.10.19 2021.10.18 ECK Pre-amplifier(1G-18 LNPA-01018G SKET SK2018080901 2018.10.13 2019.10.12 G) 45 Pre-amplifier(0.1M-3 EΜ EM330 060665 2018.10.13 2019.10.12 GHz) N9020A MY49100060 2018.10.13 2019.10.12 Spectrum Analyzer Agilent RE Cable (9K-1G) N/A R01 N/A 2018.10.13 2019.10.12 N/A RE Cable (1G-18G) R02 N/A 2018.10.13 2019.10.12 Temperature & HH660 N/A 2018.10.11 2019.10.10 Mieo Humidity Horn A-INFO LB-180400-KF J211020657 2018.03.11 2021.03.10 Antenna(18-40GHz) **Testing Software** EZ-EMC(Ver.STSLAB-03A1 RE)

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until	
EMI Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12	
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10	
LISN	ETS	3810/2NM	00023625	2018.10.11	2019.10.10	
Absorbing Clamp	R&S	MDS-21	100668	2018.10.17	2019.10.16	
CE Cable	N/A	C01	N/A	2018.10.13	2019.10.12	
Temperature & Humidity	Mieo	HH660	N/A	2018.10.11	2019.10.10	
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)					

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Clas	ss A	Class B		
	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.

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	

Page 13 of 22



3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment 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. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

Temperature:	25.3 ℃	Relative Humidity:	62%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1740	34.49	20.26	54.75	64.77	-10.02	QP
2	0.1740	20.46	20.26	40.72	54.77	-14.05	AVG
3	0.3460	23.98	20.65	44.63	59.06	-14.43	QP
4	0.3460	10.55	20.65	31.20	49.06	-17.86	AVG
5	0.5220	18.02	20.42	38.44	56.00	-17.56	QP
6	0.5220	2.90	20.42	23.32	46.00	-22.68	AVG
7	1.5020	12.04	20.16	32.20	56.00	-23.80	QP
8	1.5020	5.46	20.16	25.62	46.00	-20.38	AVG
9	3.1860	21.36	20.08	41.44	56.00	-14.56	QP
10	3.1860	5.65	20.08	25.73	46.00	-20.27	AVG
11	9.0900	29.50	19.88	49.38	60.00	-10.62	QP
12	9.0900	17.85	19.88	37.73	50.00	-12.27	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

100.0 dBu¥



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Page 15 of 22 Report No.: STS1906218E01

Temperature:	25.3 ℃	Relative Humidity:	62%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	34.15	20.23	54.38	65.16	-10.78	QP
2	0.1660	18.84	20.23	39.07	55.16	-16.09	AVG
3	0.2860	28.72	20.70	49.42	60.64	-11.22	QP
4	0.2860	13.32	20.70	34.02	50.64	-16.62	AVG
5	0.5180	18.84	20.42	39.26	56.00	-16.74	QP
6	0.5180	3.95	20.42	24.37	46.00	-21.63	AVG
7	3.1220	20.55	20.07	40.62	56.00	-15.38	QP
8	3.1220	6.42	20.07	26.49	46.00	-19.51	AVG
9	9.2860	28.83	19.87	48.70	60.00	-11.30	QP
10	9.2860	17.47	19.87	37.34	50.00	-12.66	AVG
11	16.5020	14.09	19.86	33.95	60.00	-26.05	QP
12	16.5020	4.60	19.86	24.46	50.00	-25.54	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

100.0 dBuV



Note: The test voltage is 100-240V, both of which have assessment tests, and the worst test data is in the report.

Page 16 of 22



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF THE RADIATED EMISSION MEASUREMENT

	Class A (d	BuV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Note:

(1) The limit for radiated test was performed in the following: FCC PART 15B.

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

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

FREQUENCY RANGE OF THE 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	Kange (Mirz)		
(MHz)			
Below 1.705	30		
1.705 – 108	1000		
108 – 500	2000		
500 – 1000	5000		
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower		



Page 17 of 22 Report No.: STS1906218E01

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	5th harmonic (Peak/AV)		
RB / VB (emission in restricted	30MHz to 1000MHz: 100 KHz / 300 KHz		
band)	Above 1000MHz: 1 MHz / 3 MHz		

Receiver Parameter	Setting	
Attenuation Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz	
	Above 1000MHz: 1 MHz / 3 MHz	

3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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

3.2.3 DEVIATION FROM TEST STANDARD

No deviation



3.2.4 TEST SETUP

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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the following during the testing.



3.2.6 TEST RESULTS

30MHz -1000MHz

Temperature:	26.2 ℃	Relative Humidity:	70%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.8430	40.09	-19.99	20.10	40.00	-19.90	QP
2	96.0986	35.25	-19.15	16.10	43.50	-27.40	QP
3	154.2786	35.91	-17.04	18.87	43.50	-24.63	QP
4	241.6762	40.43	-17.75	22.68	46.00	-23.32	QP
5	627.2738	28.63	-6.40	22.23	46.00	-23.77	QP
6	972.3374	28.00	0.23	28.23	54.00	-25.77	QP

Remark:

- 1. All readings are Quasi-Peak.
- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain





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Page 20 of 22 Report No.: STS1906218E01

Temperature:	26.2 ℃	Relative Humidity:	70%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	32.14	-11.19	20.95	40.00	-19.05	QP
2	96.0986	47.41	-19.58	27.83	43.50	-15.67	QP
3	153.2004	45.15	-18.14	27.01	43.50	-16.49	QP
4	245.9510	39.58	-16.91	22.67	46.00	-23.33	QP
5	390.7226	36.61	-11.87	24.74	46.00	-21.26	QP
6	909.6667	28.20	-1.93	26.27	46.00	-19.73	QP

Remark:

1. All readings are Quasi-Peak.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBuV/m





(1 GHz to 25GHz.)

Temperature:	24.2 ℃	Relative Humidity:	53%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	6232.000	36.08	6.62	42.70	74.00	-31.30	Peak
2	6232.000	25.98	6.62	32.60	54.00	-21.40	AVG
3	8944.000	34.27	11.93	46.20	74.00	-27.80	Peak
4	8944.000	24.84	11.93	36.77	54.00	-17.23	AVG
5	11728.000	11.85	38.84	50.69	74.00	-23.31	Peak
6	11728.000	2.02	38.84	40.86	54.00	-13.14	AVG
7	15040.000	11.79	40.08	51.87	74.00	-22.13	Peak
8	15040.000	4.04	40.08	44.12	54.00	-9.88	AVG
9	18400.000	54.42	0.00	54.42	74.00	-19.58	Peak
10	18400.000	45.69	0.00	45.69	54.00	-8.31	AVG
11	22648.000	55.08	0.00	55.08	74.00	-18.92	Peak
12	22648.000	46.73	0.00	46.73	54.00	-7.27	AVG

Remark:

1. All readings are Peak and Average values.

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBu∀/m





Page 22 of 22 Report No.: STS1906218E01

Temperature:	24.2 ℃	Relative Humidity:	53%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	6736.000	34.62	8.30	42.92	74.00	-31.08	Peak
2	6736.000	24.21	8.30	32.51	54.00	-21.49	AVG
3	10288.000	33.96	14.17	48.13	74.00	-25.87	Peak
4	10288.000	24.24	14.17	38.41	54.00	-15.59	AVG
5	15064.000	13.39	40.00	53.39	74.00	-20.61	Peak
6	15064.000	4.66	40.00	44.66	54.00	-9.34	AVG
7	18400.000	56.41	0.00	56.41	74.00	-17.59	Peak
8	18400.000	45.80	0.00	45.80	54.00	-8.20	AVG
9	21688.000	54.97	0.00	54.97	74.00	-19.03	Peak
10	21688.000	45.29	0.00	45.29	54.00	-8.71	AVG
11	24496.000	58.35	0.00	58.35	74.00	-15.65	Peak
12	24496.000	47.35	0.00	47.35	54.00	-6.65	AVG

Remark:

- 1. All readings are Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBuV/m



Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.

** ** ** ** END OF THE REPORT ** ** ** **

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