



FCC Part 15B TEST REPORT

Report No.: STS2105068E01

Issued for

4G NET INC

3000 NW 72 AVENUE MIAMI Florida United States 33122

Product Name:	Mobile phone
Brand Name:	UNIQCELL
Model Name:	A1
Series Model:	A2, A3, A3Pro
FCC ID:	2AWCN-A1
Test Standard:	FCC 47 CFR Part 15: Subpart B

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**TEST RESULT CERTIFICATION****Applicant's Name**: 4G NET INC

Address.....: 3000 NW 72 AVENUE MIAMI Florida United States 33122

Manufacture's Name: METELL TECHNOLOGY CO.,LIMITEDAddress.....: 7 / F, Building B, Tefa Industrial Park, Guangming District,
Shenzhen, China**Product Description**

Product Name: Mobile phone

Brand Name: UNIQCELL

Model Name: A1

Series Model: A2, A3, A3Pro

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 Receipt of Test Item.....: 13 May 2021

Date of Performance of Tests: 13 May 2021~26 May 2021

Date of Issue: 26 May 2021

Test Result: **Pass**

Compiled by :

(Bulun)

Technical Manager :

(Barry Li)

Authorized Signatory :

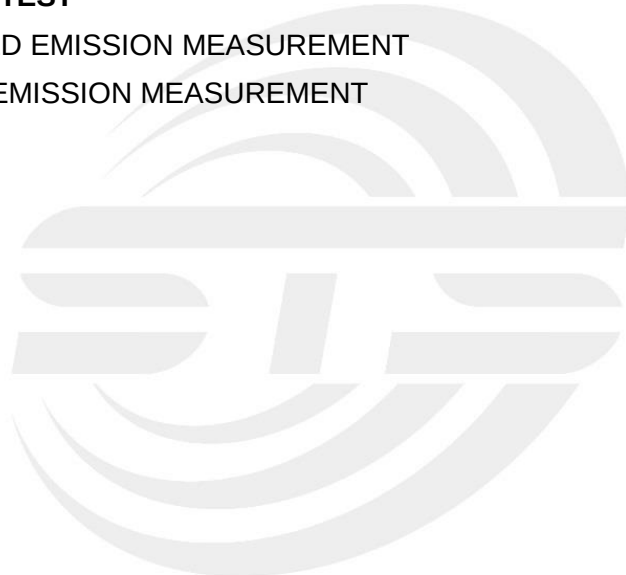
(Vita Li)





Table of Contents

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	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM TESTED	8
2.4 DESCRIPTION OF THE SUPPORT UNITS	9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	10
3. EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.2 RADIATED EMISSION MEASUREMENT	17



**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	26 May 2021	STS2105068E01	ALL	Initial Issue





1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit
	Radiated Emission	PASS	Meet Class B limit

NOTE:

(1) N/A=Not Applicable.

1.1 TEST FACTORY

Company Name:	SHENZHEN STS TEST SERVICES CO.,LTD.
Address:	A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	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 approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$
3	All emissions,radiated(<1G) 30MHz-1000MHz	$\pm 4.39\text{dB}$
4	All emissions,radiated(>1G) 1GHz-6GHz	$\pm 5.10\text{dB}$
5	All emissions,radiated(>1G) 6GHz-26GHz	$\pm 5.48\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Mobile phone	
Brand Name	UNIQCELL	
Model Name	A1	
Series Model	A2, A3, A3Pro	
Model Difference	In addition to the different model names, A2 and A1 have different memory/GSM antenna/BT antenna/cameras /display sizes; A3 and A3Pro and A1 only have different model names	
Frequency Bands	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz
	Bluetooth	2402~2480MHz
Modulation Mode	GSM	GMSK for GPRS; GSMK
	Bluetooth	BT BR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
Adapter	Input: AC100-240V50/60Hz 0.15A Output: DC 5V, 500mA	
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 1000mAh	
Hardware Version Number	H3995_MB_V2.0	
Software Version Number	SUPERCON50_6464_11B_PCB01_gprs_MT6250_S00.K16_S02.bin	

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



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 possibly 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	PC+USB Transmitting+SD Card
Mode 2	Adapter + Back camera on + BT Link
Mode 3	GSM850 Link + Adapter + USB cable + Earphone + BT Link
Mode 4	DCS1800 Idle + Adapter + USB cable + Earphone + BT Link

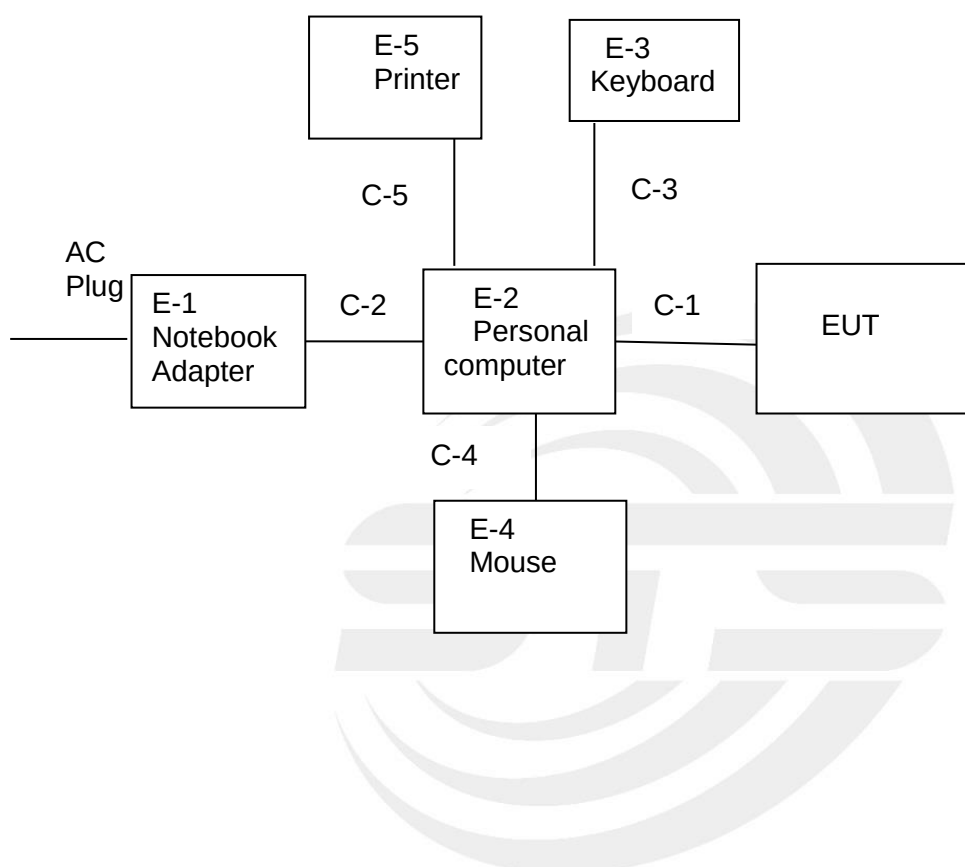
For Conducted Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

For Radiated Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

Note:

1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.
3. We have be tested for all avaiable U.S. voltage and frequencies (For 120V, 50/60Hz) for which the device is capable of operation.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF THE SYSTEM TESTED





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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Notebook Adapter	DELL	HSTNN-CA15	N/A	N/A
E-2	Personal computer	DELL	VOSTRO.3800	N/A	N/A
E-3	Keyboard	Acer	SK-9624	N/A	N/A
E-4	Mouse	HP	MODGUO	N/A	N/A
E-5	Printer	LENOVO	LJ2400L	N/A	N/A
C-1	USB Cable	N/A	N/A	80cm	NO
C-2	DC Cable	N/A	N/A	120cm	NO
C-3	USB Cable	N/A	N/A	110cm	NO
C-4	USB Cable	N/A	N/A	110cm	NO
C-5	USB Cable	N/A	N/A	110cm	NO

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
Bi-log Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZB ECK	BBHA 9120D	1343	2020.10.12	2022.10.11
Pre-amplifier(1-26.5 G)	Agilent	8449B	3008A02383	2020.10.12	2021.10.11
Pre-amplifier(0.1M-3 GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.10.12	2021.10.11
RE Cable (9K-1G)	N/A	R01	N/A	2020.10.12	2021.10.11
RE Cable (1-26G)	N/A	R02	N/A	2020.10.12	2021.10.11
Temperature & Humidity	Mieo	HH660	N/A	2020.10.13	2021.10.12
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Testing Software	EZ-EMC(Ver.STSLAB-03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
LISN	R&S	ENV216	101242	2020.10.12	2021.10.11
LISN	ETS	3810/2NM	00023625	2020.10.12	2021.10.11
Absorbing Clamp	R&S	MDS-21	100668	2020.10.13	2021.10.12
CE Cable	N/A	C01	N/A	2020.10.13	2021.10.12
Temperature & Humidity	Mieo	HH660	N/A	2020.10.13	2021.10.12
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	☐ Class A (dB μ V)		☒ Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.5 ~ 5	73.00	60.00	56.00	46.00
5 ~ 30	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

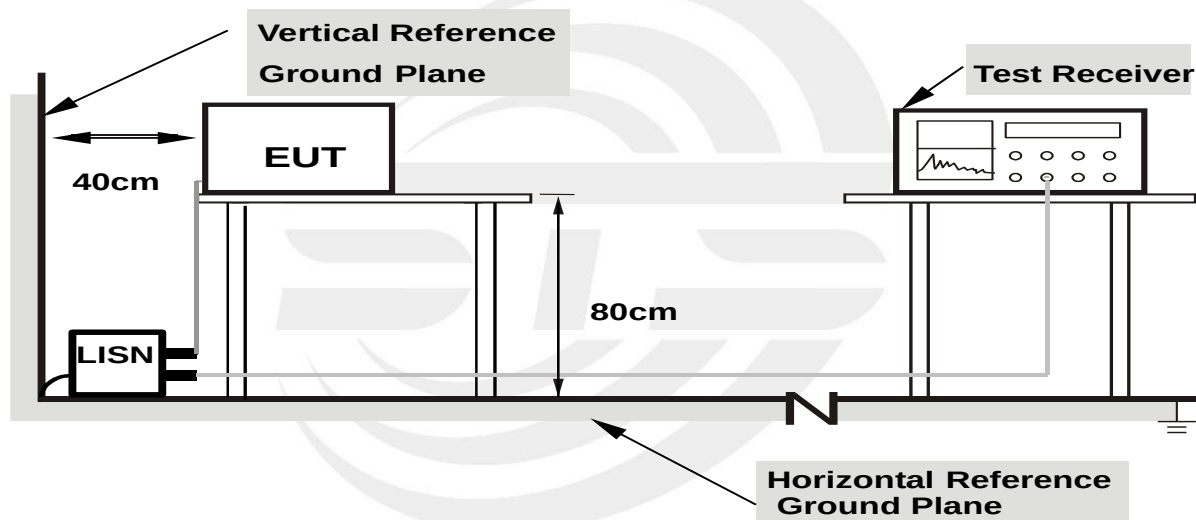
3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- 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

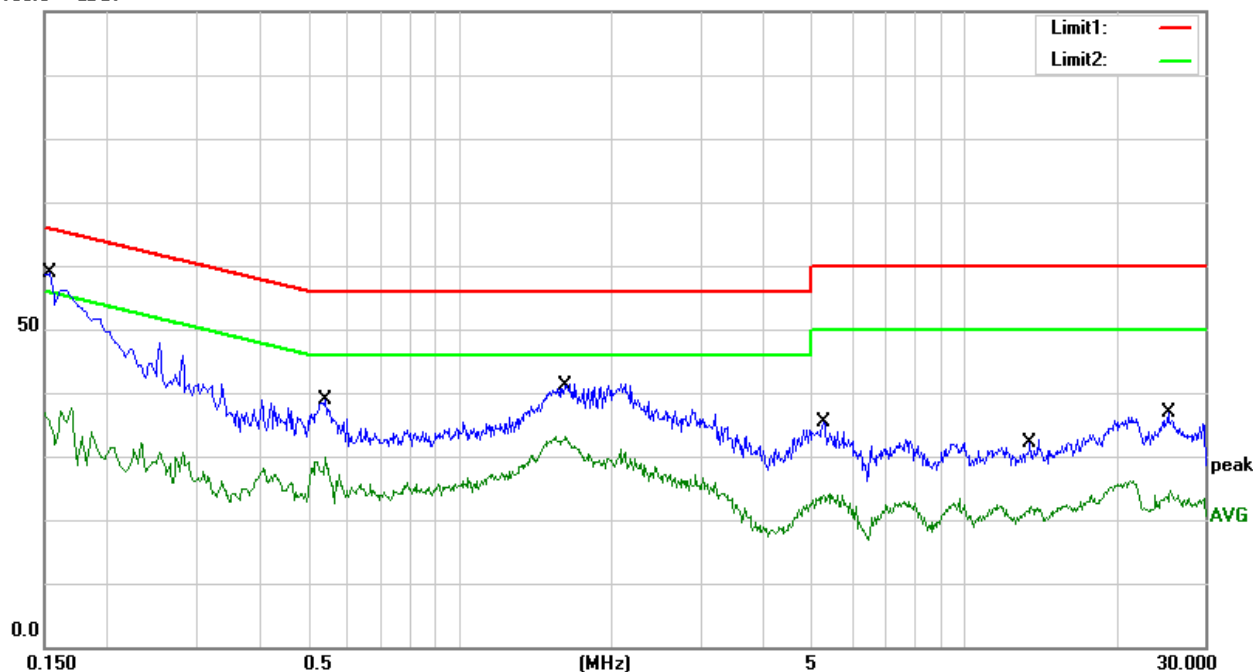
Temperature:	21.8℃	Relative Humidity:	54%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	38.54	20.33	58.87	65.78	-6.91	QP
2	0.1540	16.44	20.33	36.77	55.78	-19.01	AVG
3	0.5420	18.38	20.50	38.88	56.00	-17.12	QP
4	0.5420	9.34	20.50	29.84	46.00	-16.16	AVG
5	1.6260	21.19	20.30	41.49	56.00	-14.51	QP
6	1.6260	12.88	20.30	33.18	46.00	-12.82	AVG
7	5.2500	14.85	20.47	35.32	60.00	-24.68	QP
8	5.2500	3.46	20.47	23.93	50.00	-26.07	AVG
9	13.5020	10.61	21.57	32.18	60.00	-27.82	QP
10	13.5020	0.44	21.57	22.01	50.00	-27.99	AVG
11	25.4100	14.23	22.63	36.86	60.00	-23.14	QP
12	25.4100	2.00	22.63	24.63	50.00	-25.37	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor = Insertion loss + Cable loss

100.0 dBuV





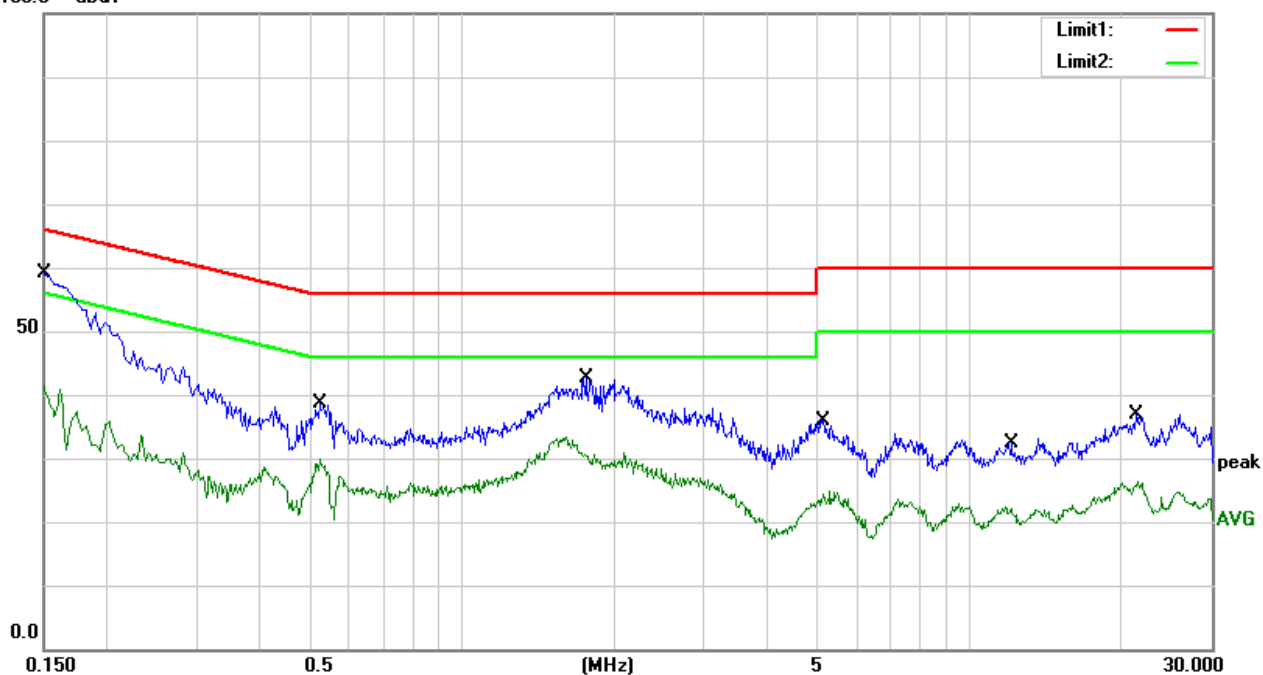
Temperature:	21.8°C	Relative Humidity:	54%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	38.68	20.33	59.01	66.00	-6.99	QP
2	0.1500	21.00	20.33	41.33	56.00	-14.67	AVG
3	0.5260	18.17	20.52	38.69	56.00	-17.31	QP
4	0.5260	9.45	20.52	29.97	46.00	-16.03	AVG
5	1.7580	22.29	20.30	42.59	56.00	-13.41	QP
6	1.7580	10.32	20.30	30.62	46.00	-15.38	AVG
7	5.1620	15.44	20.47	35.91	60.00	-24.09	QP
8	5.1620	3.96	20.47	24.43	50.00	-25.57	AVG
9	12.0980	11.05	21.43	32.48	60.00	-27.52	QP
10	12.0980	0.78	21.43	22.21	50.00	-27.79	AVG
11	21.3020	14.12	22.82	36.94	60.00	-23.06	QP
12	21.3020	3.68	22.82	26.50	50.00	-23.50	AVG

Remark:

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

100.0 dBuV





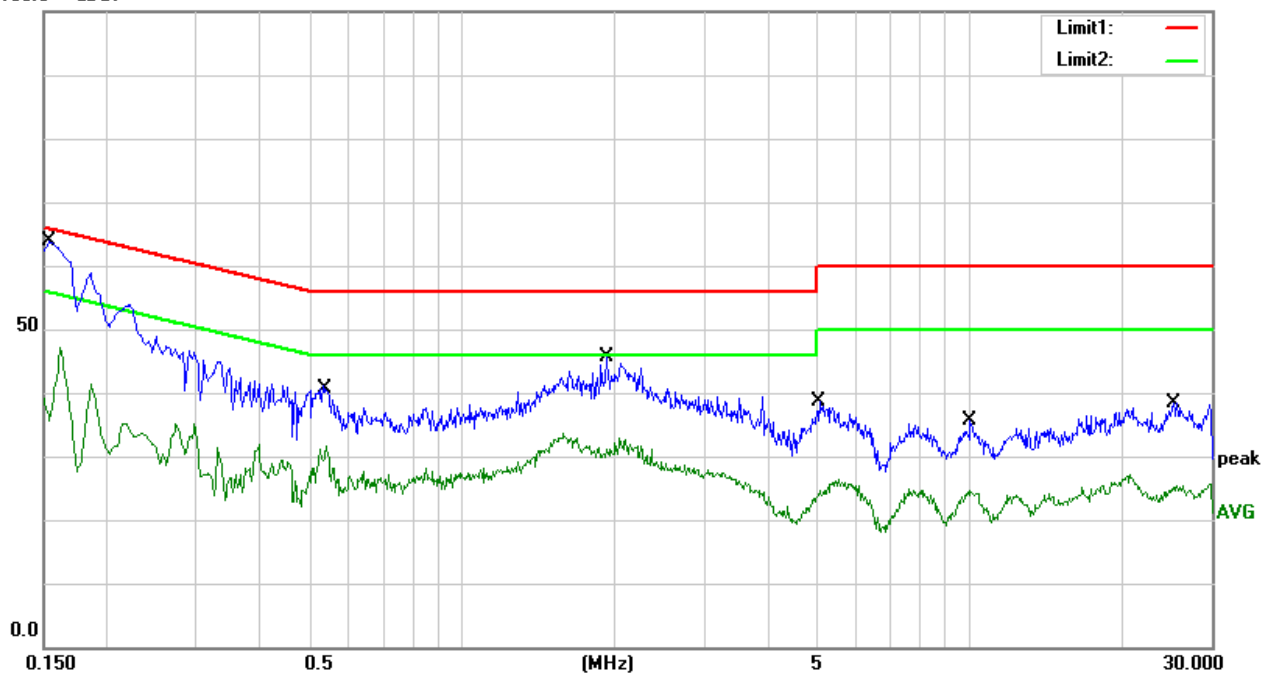
Temperature:	21.8℃	Relative Humidity:	54%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	41.03	20.33	61.36	65.78	-4.42	QP
2	0.1540	22.32	20.33	42.65	55.78	-13.13	AVG
3	0.5420	20.62	20.50	41.12	56.00	-14.88	QP
4	0.5420	11.04	20.50	31.54	46.00	-14.46	AVG
5	1.9380	25.44	20.30	45.74	56.00	-10.26	QP
6	1.9380	10.90	20.30	31.20	46.00	-14.80	AVG
7	5.0820	18.10	20.46	38.56	60.00	-21.44	QP
8	5.0820	4.11	20.46	24.57	50.00	-25.43	AVG
9	10.0340	14.39	21.20	35.59	60.00	-24.41	QP
10	10.0340	3.36	21.20	24.56	50.00	-25.44	AVG
11	25.1980	15.80	22.61	38.41	60.00	-21.59	QP
12	25.1980	2.81	22.61	25.42	50.00	-24.58	AVG

Remark:

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

100.0 dBuV





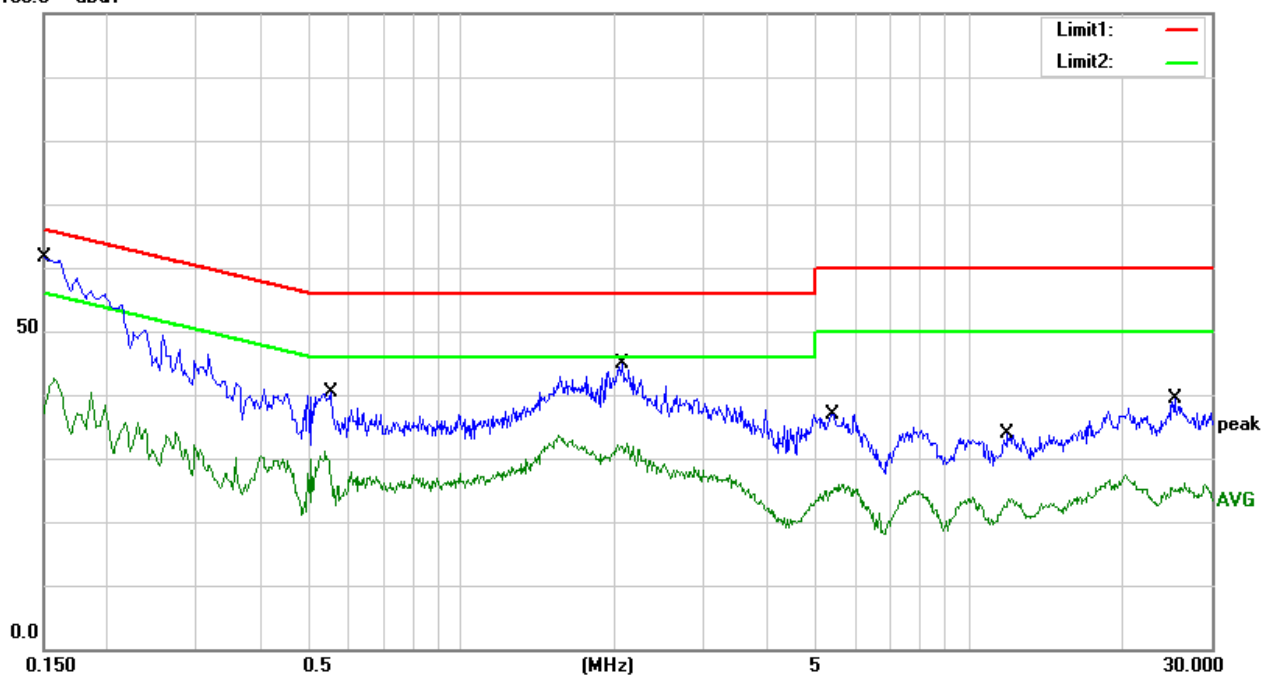
Temperature:	21.8°C	Relative Humidity:	54%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	41.32	20.33	61.65	66.00	-4.35	QP
2	0.1500	21.30	20.33	41.63	56.00	-14.37	AVG
3	0.5540	19.77	20.49	40.26	56.00	-15.74	QP
4	0.5540	9.43	20.49	29.92	46.00	-16.08	AVG
5	2.0740	24.69	20.30	44.99	56.00	-11.01	QP
6	2.0740	11.82	20.30	32.12	46.00	-13.88	AVG
7	5.3860	16.52	20.48	37.00	60.00	-23.00	QP
8	5.3860	4.96	20.48	25.44	50.00	-24.56	AVG
9	11.9020	12.35	21.41	33.76	60.00	-26.24	QP
10	11.9020	2.30	21.41	23.71	50.00	-26.29	AVG
11	25.4220	16.78	22.63	39.41	60.00	-20.59	QP
12	25.4220	2.75	22.63	25.38	50.00	-24.62	AVG

Remark:

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

100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A		☒ Class B
	Field strength (dBuV/m) (at 10m)	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 ~ 88	39	49	40
88 ~ 216	43.5	53.5	43.5
216 ~ 960	46	56	46
Above 960	49.5	59.5	54

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 Disturbance Measurement

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	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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).



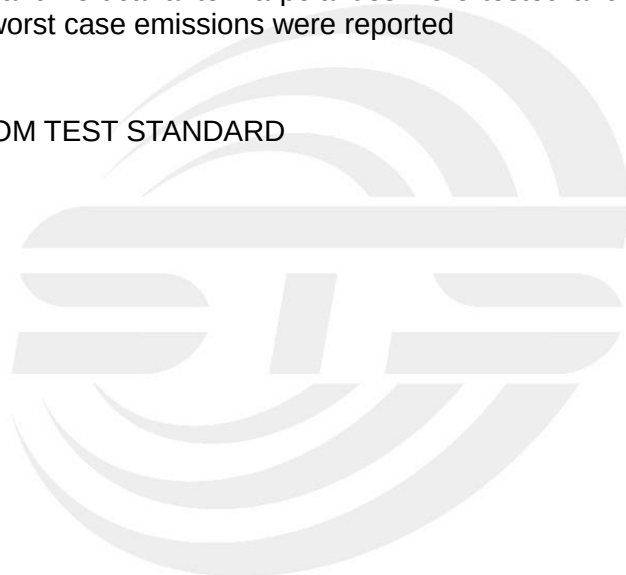
3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter 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. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter 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 meter and the rotatable table was turned from 0 degrees to 360 degree 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

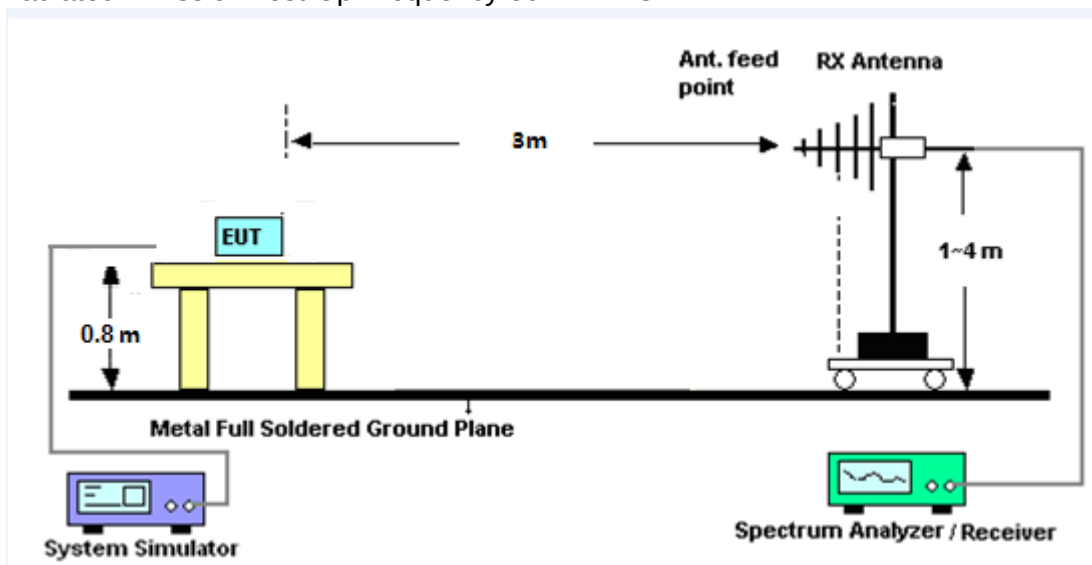
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

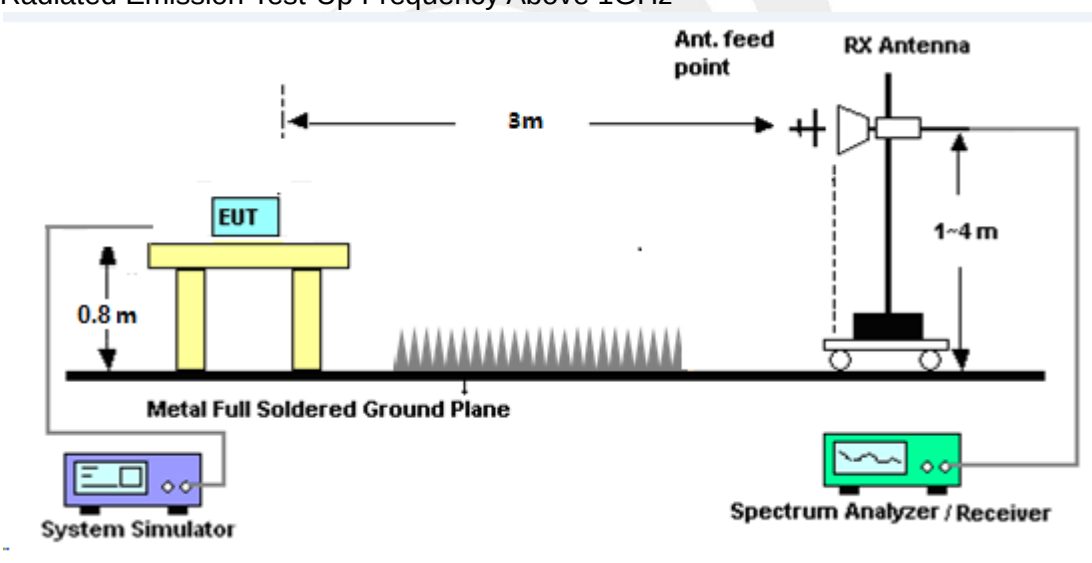


3.2.4 TEST SETUP

(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 described unless otherwise a special operating condition is specified in the following during the testing.



3.2.6 TEST RESULTS

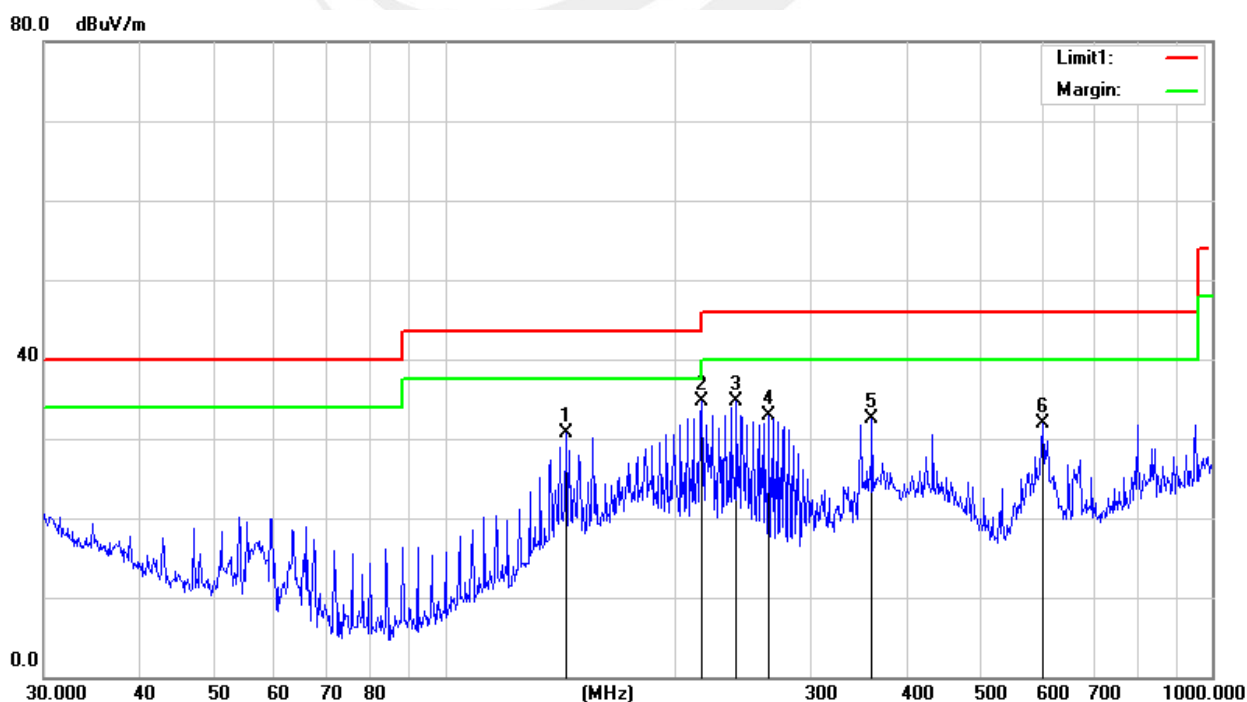
30MHz - 1000MHz

Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	143.8295	48.12	-17.47	30.65	43.50	-12.85	QP
2	216.0240	51.51	-16.80	34.71	46.00	-11.29	QP
3	239.9873	51.42	-16.76	34.66	46.00	-11.34	QP
4	264.7457	49.73	-16.79	32.94	46.00	-13.06	QP
5	360.4476	46.55	-13.97	32.58	46.00	-13.42	QP
6	601.4265	40.92	-9.05	31.87	46.00	-14.13	QP

Remark:

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





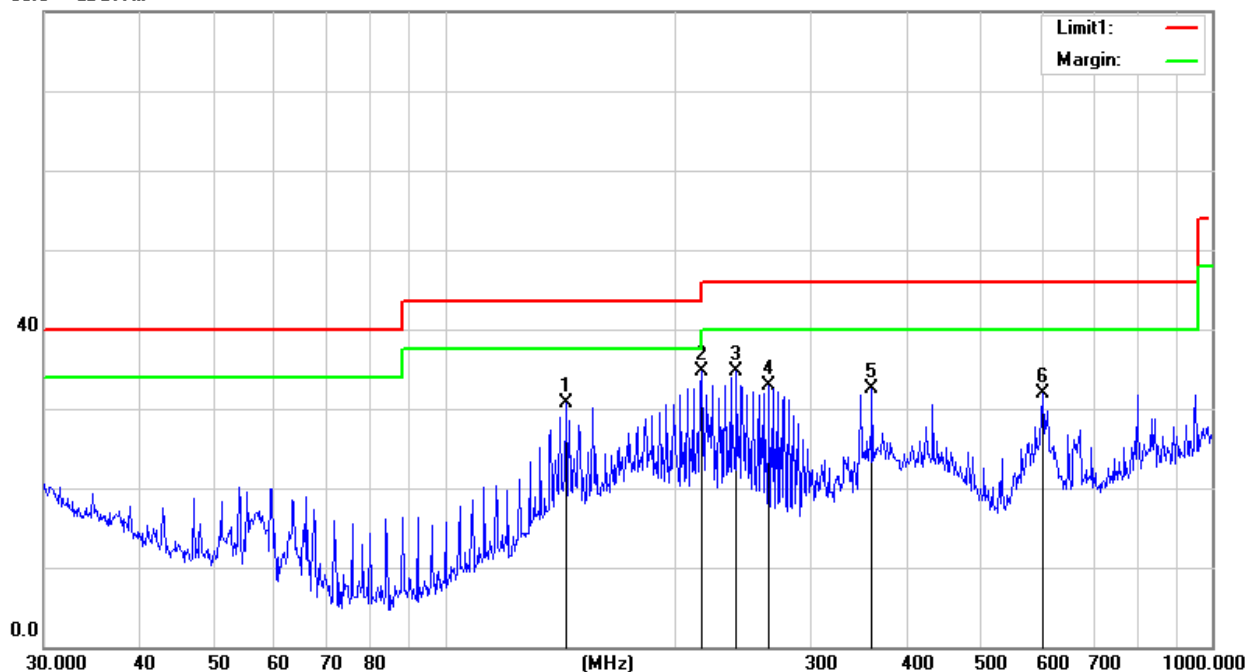
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	143.8295	48.12	-17.47	30.65	43.50	-12.85	QP
2	216.0240	51.51	-16.80	34.71	46.00	-11.29	QP
3	239.9873	51.42	-16.76	34.66	46.00	-11.34	QP
4	264.7457	49.73	-16.79	32.94	46.00	-13.06	QP
5	360.4476	46.55	-13.97	32.58	46.00	-13.42	QP
6	601.4265	40.92	-9.05	31.87	46.00	-14.13	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





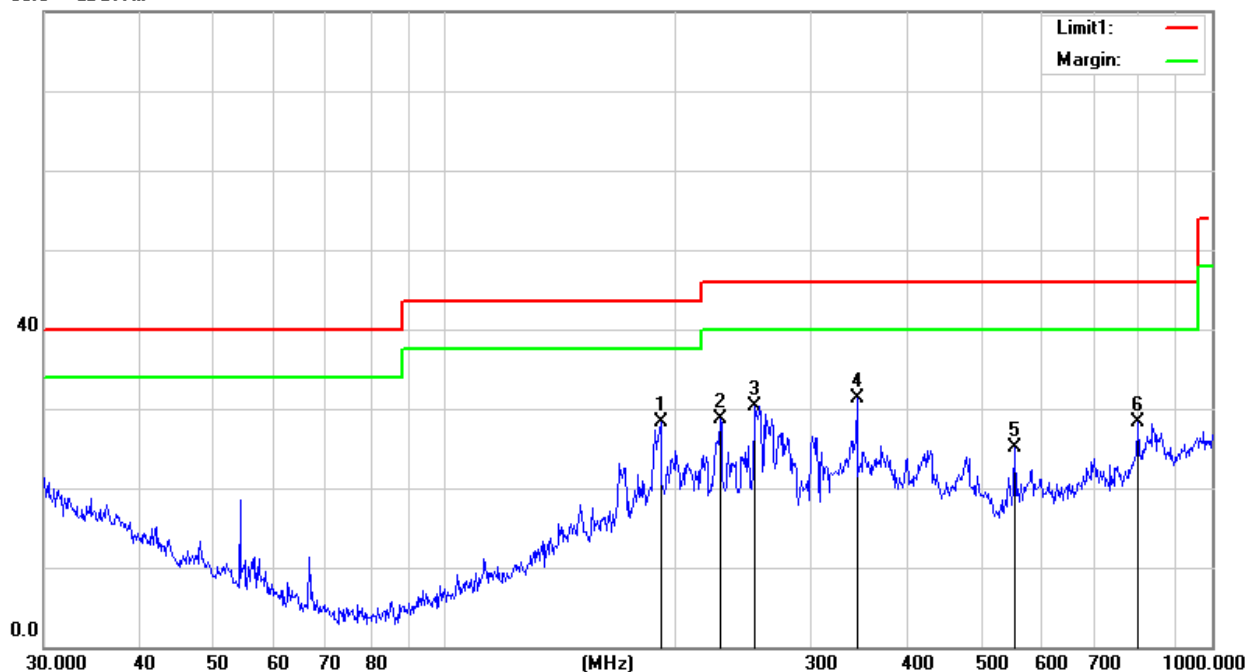
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	191.0738	47.09	-18.86	28.23	43.50	-15.27	QP
2	228.4904	45.45	-16.78	28.67	46.00	-17.33	QP
3	253.8367	47.07	-16.74	30.33	46.00	-15.67	QP
4	344.3855	45.86	-14.65	31.21	46.00	-14.79	QP
5	552.8832	34.10	-9.05	25.05	46.00	-20.95	QP
6	801.7863	33.81	-5.54	28.27	46.00	-17.73	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





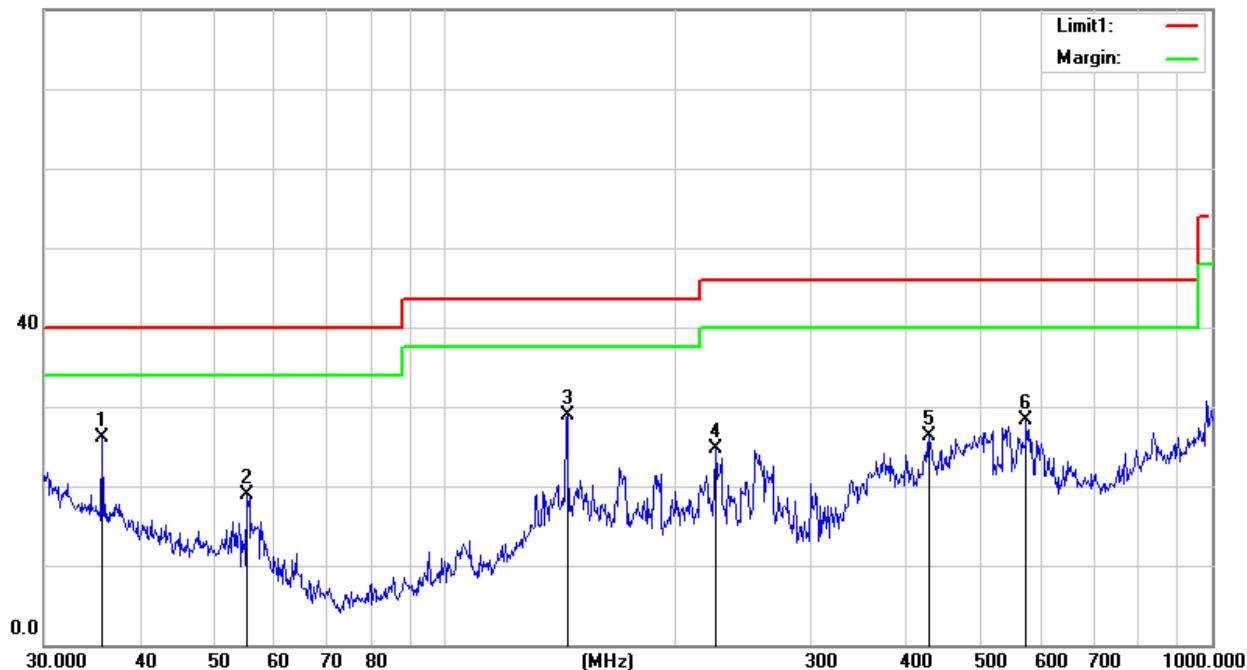
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.7490	35.73	-9.66	26.07	40.00	-13.93	QP
2	55.2207	37.67	-18.78	18.89	40.00	-21.11	QP
3	144.3348	46.47	-17.47	29.00	43.50	-14.50	QP
4	225.3080	41.48	-16.78	24.70	46.00	-21.30	QP
5	428.0193	38.62	-12.41	26.21	46.00	-19.79	QP
6	572.6144	37.36	-9.06	28.30	46.00	-17.70	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 - 18GHz)

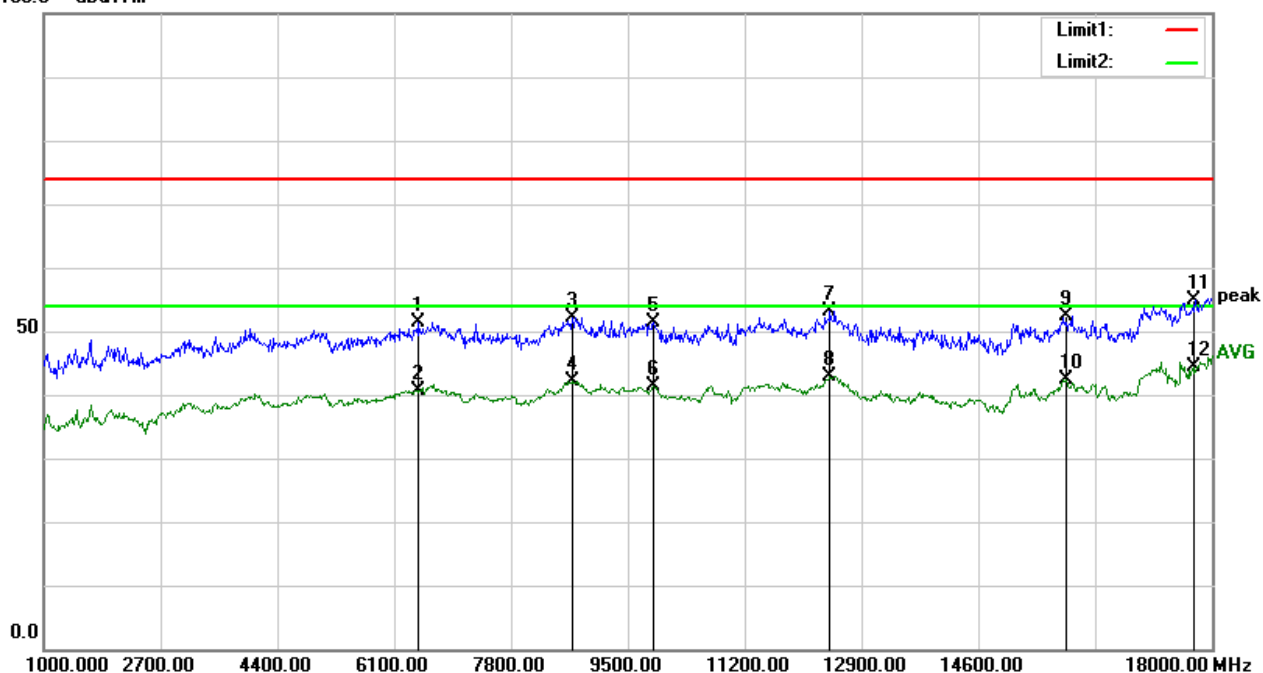
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	6457.000	41.64	9.73	51.37	74.00	-22.63	Peak
2	6457.000	30.98	9.73	40.71	54.00	-13.29	AVG
3	8684.000	38.89	13.23	52.12	74.00	-21.88	Peak
4	8684.000	29.01	13.23	42.24	54.00	-11.76	AVG
5	9874.000	37.68	13.64	51.32	74.00	-22.68	Peak
6	9874.000	27.63	13.64	41.27	54.00	-12.73	AVG
7	12441.000	37.69	15.46	53.15	74.00	-20.85	Peak
8	12441.000	27.50	15.46	42.96	54.00	-11.04	AVG
9	15875.000	35.76	16.57	52.33	74.00	-21.67	Peak
10	15875.000	25.81	16.57	42.38	54.00	-11.62	AVG
11	17745.000	31.23	23.54	54.77	74.00	-19.23	Peak
12	17745.000	20.87	23.54	44.41	54.00	-9.59	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

100.0 dBuV/m





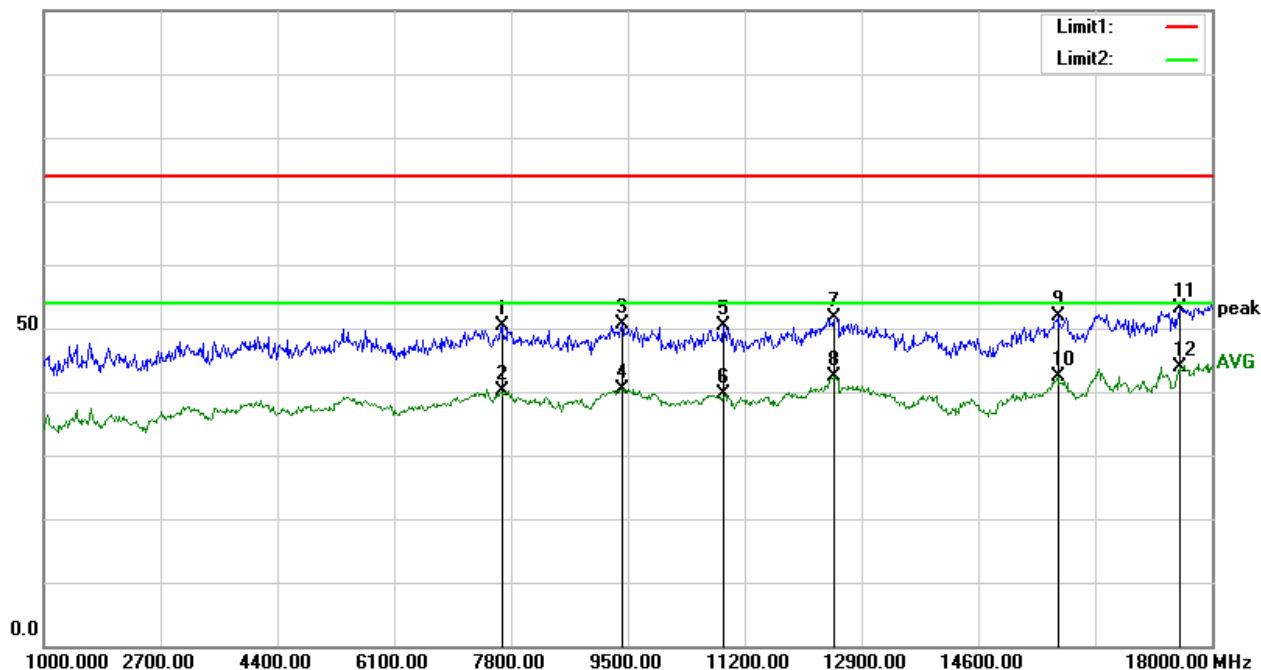
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	7664.000	39.19	11.09	50.28	74.00	-23.72	Peak
2	7664.000	29.01	11.09	40.10	54.00	-13.90	AVG
3	9415.000	36.69	13.85	50.54	74.00	-23.46	Peak
4	9415.000	26.49	13.85	40.34	54.00	-13.66	AVG
5	10894.000	36.36	14.13	50.49	74.00	-23.51	Peak
6	10894.000	25.60	14.13	39.73	54.00	-14.27	AVG
7	12509.000	36.15	15.56	51.71	74.00	-22.29	Peak
8	12509.000	26.85	15.56	42.41	54.00	-11.59	AVG
9	15756.000	35.02	16.78	51.80	74.00	-22.20	Peak
10	15756.000	25.55	16.78	42.33	54.00	-11.67	AVG
11	17524.000	31.13	21.88	53.01	74.00	-20.99	Peak
12	17524.000	22.05	21.88	43.93	54.00	-10.07	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

100.0 dBUV/m





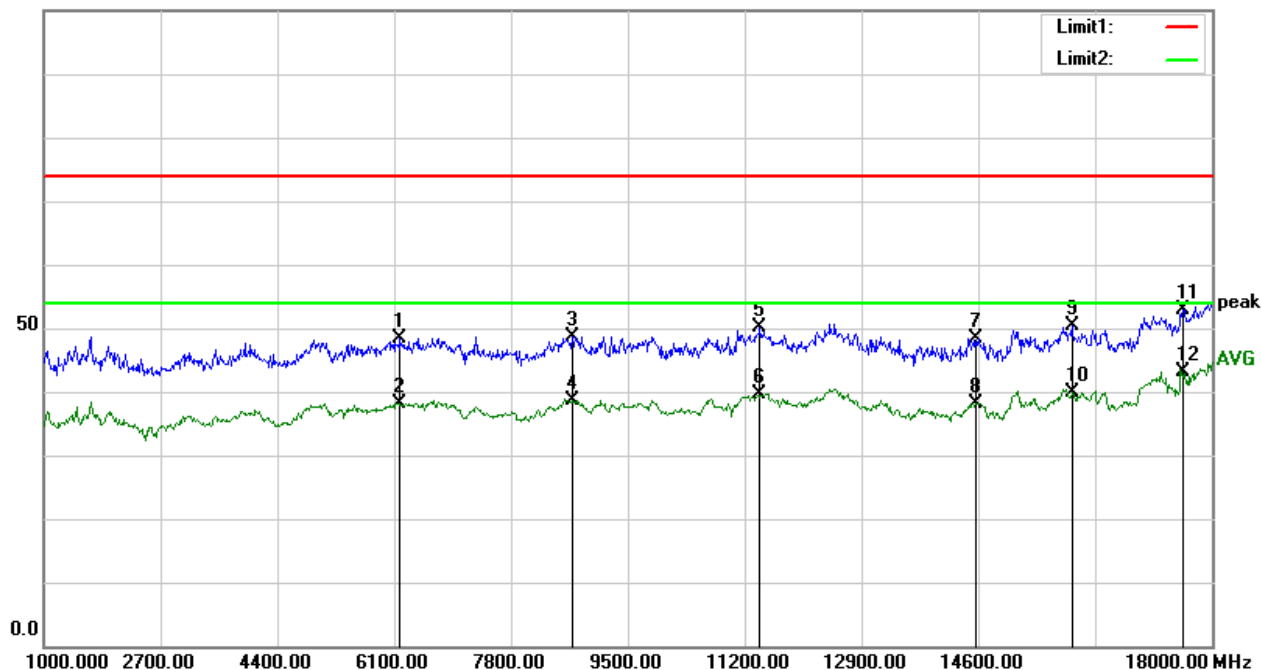
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	6185.000	40.13	8.33	48.46	74.00	-25.54	Peak
2	6185.000	29.90	8.33	38.23	54.00	-15.77	AVG
3	8684.000	35.39	13.23	48.62	74.00	-25.38	Peak
4	8684.000	25.51	13.23	38.74	54.00	-15.26	AVG
5	11421.000	35.58	14.44	50.02	74.00	-23.98	Peak
6	11421.000	25.20	14.44	39.64	54.00	-14.36	AVG
7	14566.000	30.15	18.17	48.32	74.00	-25.68	Peak
8	14566.000	20.06	18.17	38.23	54.00	-15.77	AVG
9	15960.000	33.90	16.43	50.33	74.00	-23.67	Peak
10	15960.000	23.51	16.43	39.94	54.00	-14.06	AVG
11	17575.000	30.24	22.67	52.91	74.00	-21.09	Peak
12	17575.000	20.34	22.67	43.01	54.00	-10.99	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

100.0 dBUV/m





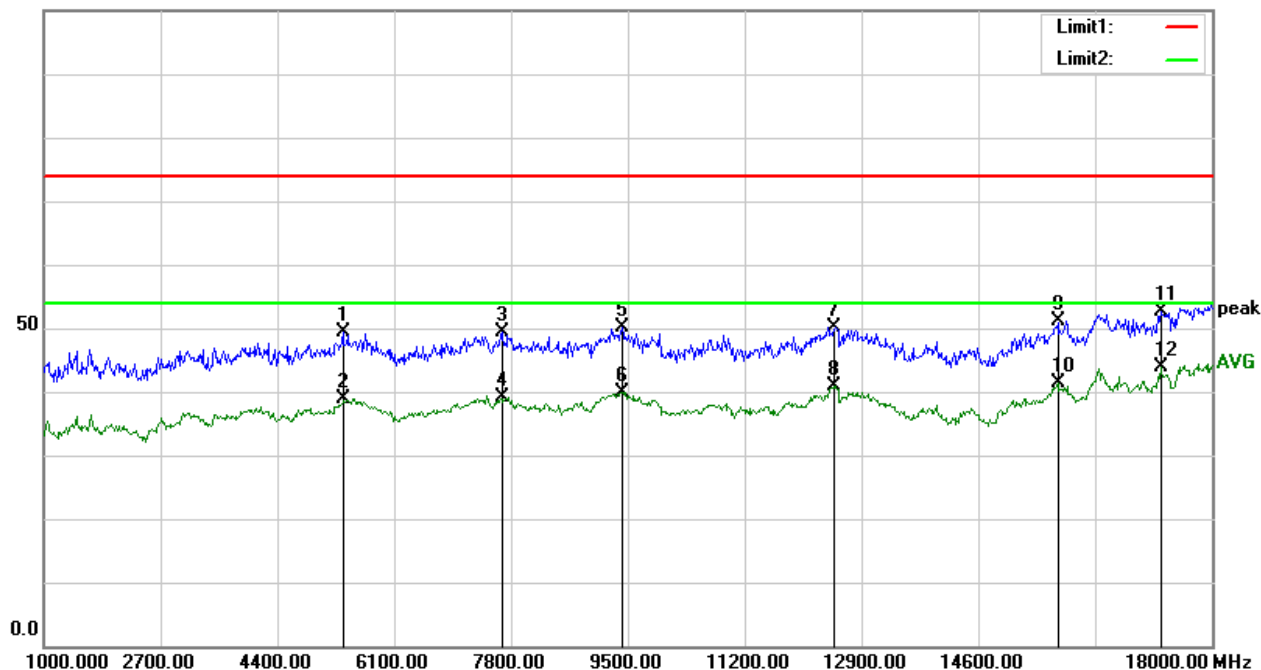
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	5352.000	42.30	7.03	49.33	74.00	-24.67	Peak
2	5352.000	31.78	7.03	38.81	54.00	-15.19	AVG
3	7664.000	38.19	11.09	49.28	74.00	-24.72	Peak
4	7664.000	28.01	11.09	39.10	54.00	-14.90	AVG
5	9415.000	36.19	13.85	50.04	74.00	-23.96	Peak
6	9415.000	25.96	13.85	39.81	54.00	-14.19	AVG
7	12509.000	34.65	15.56	50.21	74.00	-23.79	Peak
8	12509.000	25.35	15.56	40.91	54.00	-13.09	AVG
9	15756.000	34.42	16.78	51.20	74.00	-22.80	Peak
10	15756.000	24.55	16.78	41.33	54.00	-12.67	AVG
11	17252.000	32.25	20.36	52.61	74.00	-21.39	Peak
12	17252.000	23.41	20.36	43.77	54.00	-10.23	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

100.0 dBUV/m





(18 GHz - 25GHz)

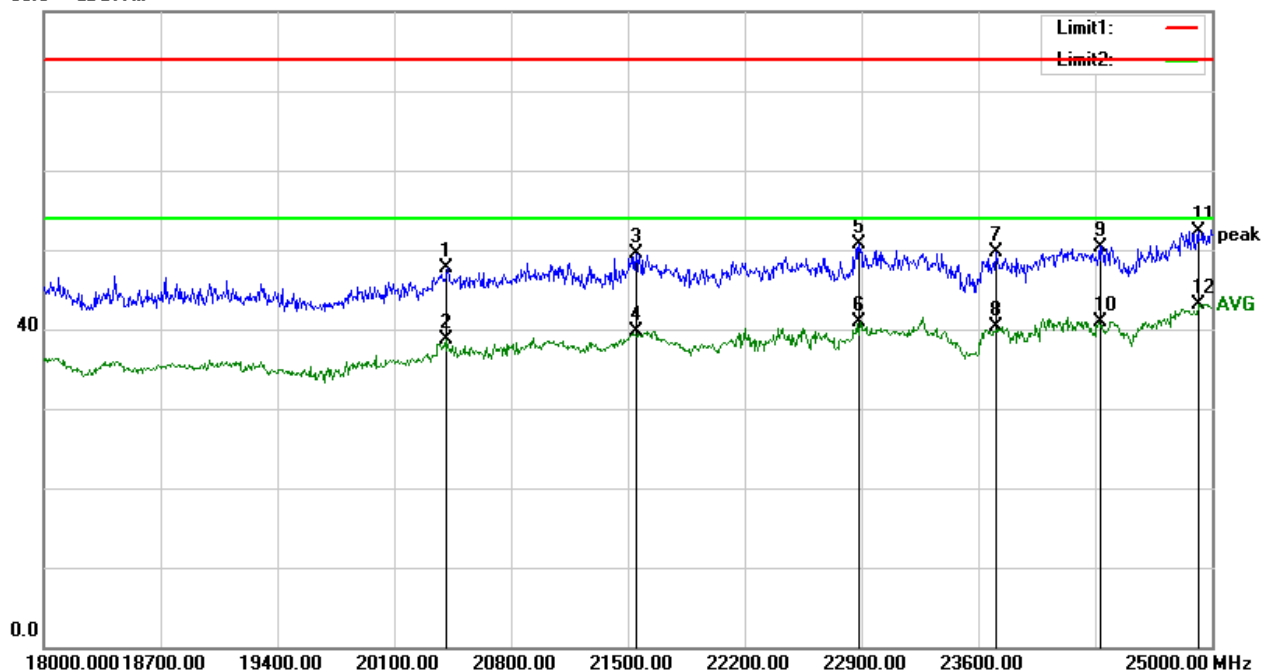
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	20415.000	22.88	24.89	47.77	74.00	-26.23	Peak
2	20415.000	13.78	24.89	38.67	54.00	-15.33	AVG
3	21549.000	24.77	24.71	49.48	74.00	-24.52	Peak
4	21549.000	15.03	24.71	39.74	54.00	-14.26	AVG
5	22886.000	26.23	24.52	50.75	74.00	-23.25	Peak
6	22886.000	16.34	24.52	40.86	54.00	-13.14	AVG
7	23705.000	25.03	24.77	49.80	74.00	-24.20	Peak
8	23705.000	15.61	24.77	40.38	54.00	-13.62	AVG
9	24328.000	25.48	24.92	50.40	74.00	-23.60	Peak
10	24328.000	16.00	24.92	40.92	54.00	-13.08	AVG
11	24916.000	27.44	24.96	52.40	74.00	-21.60	Peak
12	24916.000	18.20	24.96	43.16	54.00	-10.84	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





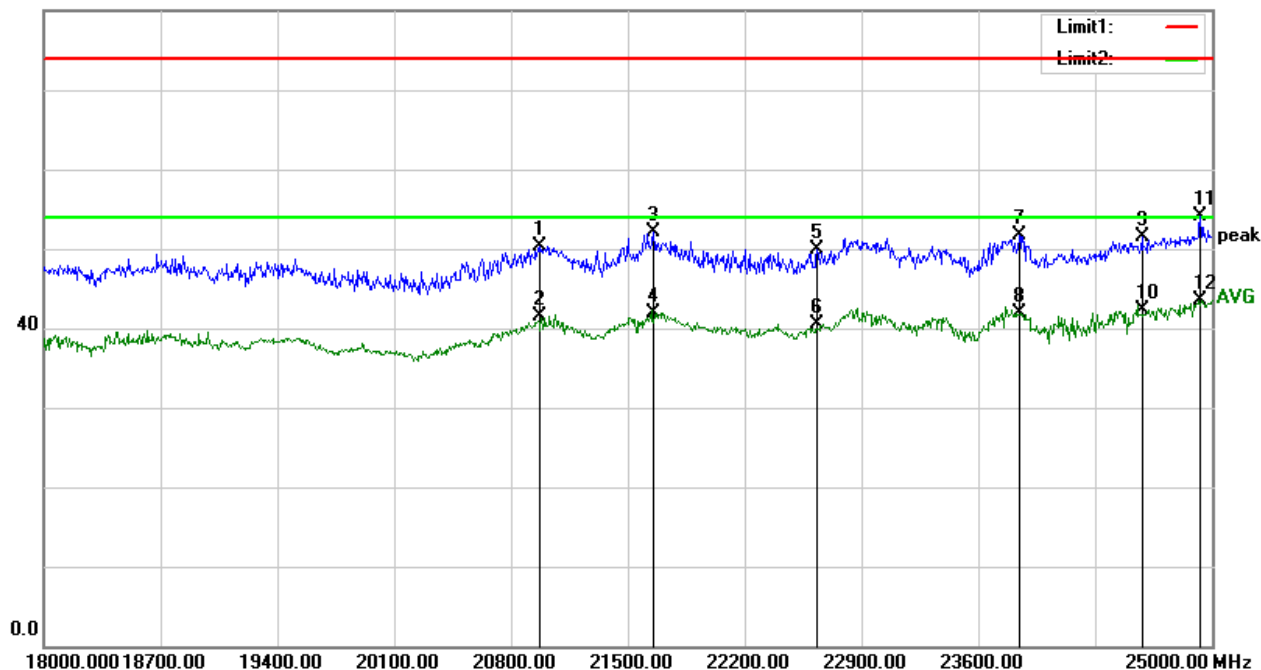
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A1		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	20975.000	25.41	24.92	50.33	74.00	-23.67	Peak
2	20975.000	16.56	24.92	41.48	54.00	-12.52	AVG
3	21654.000	27.37	24.69	52.06	74.00	-21.94	Peak
4	21654.000	17.22	24.69	41.91	54.00	-12.09	AVG
5	22634.000	25.51	24.45	49.96	74.00	-24.04	Peak
6	22634.000	15.99	24.45	40.44	54.00	-13.56	AVG
7	23845.000	26.86	24.81	51.67	74.00	-22.33	Peak
8	23845.000	17.13	24.81	41.94	54.00	-12.06	AVG
9	24580.000	26.54	24.95	51.49	74.00	-22.51	Peak
10	24580.000	17.31	24.95	42.26	54.00	-11.74	AVG
11	24930.000	29.09	24.96	54.05	74.00	-19.95	Peak
12	24930.000	18.55	24.96	43.51	54.00	-10.49	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





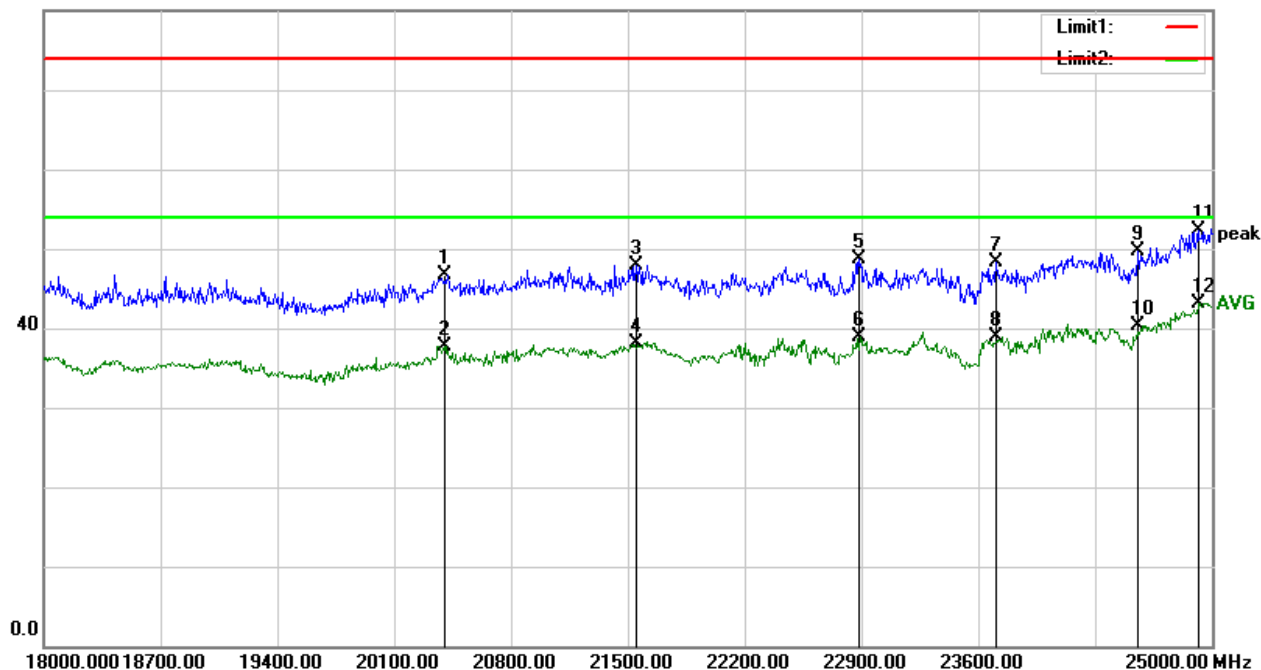
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	20401.000	21.88	24.89	46.77	74.00	-27.23	Peak
2	20401.000	12.83	24.89	37.72	54.00	-16.28	AVG
3	21549.000	23.27	24.71	47.98	74.00	-26.02	Peak
4	21549.000	13.30	24.71	38.01	54.00	-15.99	AVG
5	22886.000	24.23	24.52	48.75	74.00	-25.25	Peak
6	22886.000	14.34	24.52	38.86	54.00	-15.14	AVG
7	23705.000	23.53	24.77	48.30	74.00	-25.70	Peak
8	23705.000	14.11	24.77	38.88	54.00	-15.12	AVG
9	24559.000	24.68	24.95	49.63	74.00	-24.37	Peak
10	24559.000	15.32	24.95	40.27	54.00	-13.73	AVG
11	24916.000	27.44	24.96	52.40	74.00	-21.60	Peak
12	24916.000	18.20	24.96	43.16	54.00	-10.84	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





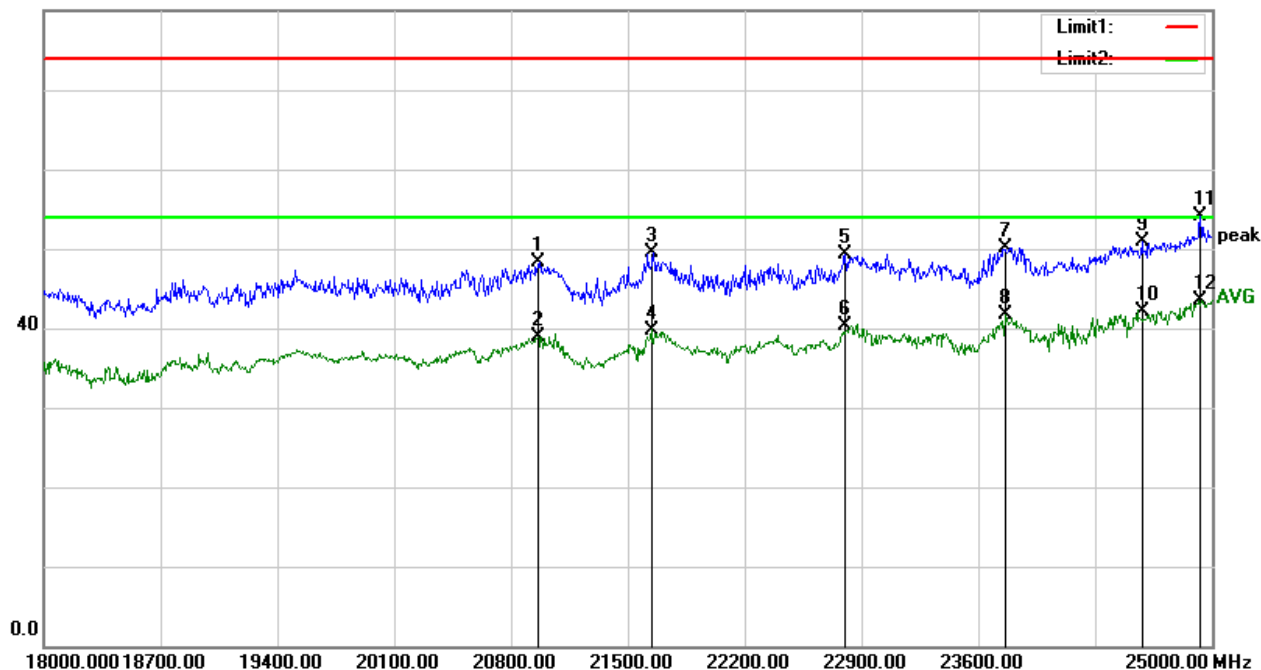
Temperature:	26.9℃	Relative Humidity:	64%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.05.14
Description:	A2		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	20961.000	23.42	24.91	48.33	74.00	-25.67	Peak
2	20961.000	13.95	24.91	38.86	54.00	-15.14	AVG
3	21640.000	24.87	24.69	49.56	74.00	-24.44	Peak
4	21640.000	15.11	24.69	39.80	54.00	-14.20	AVG
5	22802.000	24.76	24.50	49.26	74.00	-24.74	Peak
6	22802.000	15.78	24.50	40.28	54.00	-13.72	AVG
7	23761.000	25.41	24.79	50.20	74.00	-23.80	Peak
8	23761.000	16.93	24.79	41.72	54.00	-12.28	AVG
9	24580.000	26.04	24.95	50.99	74.00	-23.01	Peak
10	24580.000	17.15	24.95	42.10	54.00	-11.90	AVG
11	24930.000	29.09	24.96	54.05	74.00	-19.95	Peak
12	24930.000	18.55	24.96	43.51	54.00	-10.49	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



END OF THE REPORT