



RADIO TEST REPORT

Report No.: SHATBL2212018W02

Applicant:

DZS Inc.

Address:

5700 Tennyson Parkway Suite 400 Plano Texas United States

Product Name : Optical Network Terminal (ONT)

Brand Name : DZS

Model Name : 2466GN

Series Model : N/A

Test Standard : FCC Part15.407

FCC ID : PJZ2466GN

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Tel:+86(0)21-51298625

Web:www.atbl-lab.com

Email:atbl@atbl-lab.com

TEST RESULT CERTIFICATION

Applicant..... DZS Inc.

Address 5700 Tennyson Parkway Suite 400 Plano Texas United States

Manufacturer's Name..... TDG Technology Co., Ltd.

Address..... No.1 Yatai Road, Jiaxing City, Zhejiang Province, P.R. China

Product Description

Product Name..... Optical Network Terminal (ONT)

Brand Name..... DZS

Model Name..... 2466GN

Series Model..... N/A

Test Standards..... FCC Part15.407

Test Procedure..... ANSI C63.10-2013

This device described above has been tested by ATBL, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC 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..... : 2022.12.19

Date (s) of performance of tests..... : 2023.1.7-2023.1.31

Date of Issue..... : 2023.2.11

Test Result..... : Pass

Report Prepared by :

Chris Xu
(Chris Xu)

Report Approved by :

Ghost Li.
(Ghost Li)

Authorized Signatory :

Terry Yang
(Terry Yang)



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
SHATBL2212018W02	Rev. 01	Initial issue of report	Feb. 11, 2023

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407,KDB789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB&99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (Band edge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203	Antenna Requirement	PASS

REMARKS:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF THE EUT

Product Name	Optical Network Terminal (ONT)	
Trade Name	DZS	
Model Name	2466GN	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Optical Network Terminal (ONT)	
	Operation Frequency	U-NII-1:5150MHz - 5250MHz U-NII-2A:5250MHz - 5350MHz U-NII-2C:5470MHz - 5725MHz U-NII-3:5725MHz - 5850MHz
	Modulation Type	802.11a/n(OFDM): BPSK,QPSK,16QAM,64QAM 802.11ac(OFDM): BPSK,QPSK,16QAM,64QAM,256QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16QAM,64QAM,256QAM, 1024QAM
	Channel List	Please refer to note 2.
	Antenna type	2x2 internal antenna
	Antenna Gain(Peak):	Ant. 0: 6.71dBi Ant. 1: 3.90dBi
	More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the REMARK 2.	
Battery	N/A	
Adapter	Model1: RD1202000-C55-154MG Brand: RUIDE Input: 100-240V AC · 50/60Hz,1.0A MAX Output:DC12V 2A Model2: TPA289-24120-US Brand:TOPOW Input: 100-240V AC · 50/60Hz,0.7A Output:DC 12 V, 2A	
Hardware version number	V2.0	
Software version number	znid-13723	
Connecting I/O Port(s)	Please refer to the REMARK 1.	

REMARKS:

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

2. Channel List for 802.11a/n/ac/ax(20MHz)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240
52	5260	56	5280	60	5300	64	5320
100	5500	104	5520	108	5540	112	5560
116	5580	120	5600	124	5620	128	5640
132	5660	136	5680	140	5700	149	5745
153	5765	157	5785	161	5805	165	5825

Channel List for 802.11n/ac/ax(40MHz)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	54	5270	62	5310
102	5510	110	5550	118	5590	126	5630
134	5670	151	5755	159	5795	--	--

Channel List for 802.11ac/ax(80MHz)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	122	5610
155	5775	/	/	/	/	/	/

Channel List for 802.11ac/ax(160MHz)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250	114	5570	/	/	/	/

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

Channel List for 802.11a/n/ac/ax (20MHz)		
Frequency Band	Channel	Test Frequency (MHz)
Band I	CH 36	5180
Band I	CH 40	5200
Band I	CH 48	5240
Band II	CH 52	5260
Band II	CH 60	5300
Band II	CH 64	5320
Band III	CH 100	5500
Band III	CH 116	5580
Band III	CH 140	5700
Band IV	CH 149	5745
Band IV	CH 157	5785
Band IV	CH 165	5825

Channel List for 802.11 n/ac/ax (40MHz)		
Frequency Band	EUT Channel	Test Frequency (MHz)
Band I	CH 38	5190
Band I	CH 46	5230
Band II	CH 54	5270
Band II	CH 62	5310
Band III	CH 102	5510
Band III	CH 110	5550
Band III	CH 134	5670
Band IV	CH 151	5755
Band IV	CH 159	5795

Channel List for 802.11ac/ax(80MHz)		
Frequency Band	EUT Channel	Test Frequency (MHz)
Band I	CH 42	5210
Band II	CH 58	5290
Band III	CH 106	5530
Band III	CH 122	5610
Band IV	CH 155	5775

Channel List for 802.11ac/ax(160MHz)		
Frequency Band	EUT Channel	Test Frequency (MHz)
Band I	CH 50	5250
Band II	CH 50	5250
Band III	CH 114	5570

3.	Ant.	Antenna Type	Connector	Gain (dBi)	DG(dBi)	REMARK
	0	2x2 internal antenna	N/A	6.71 dBi	8.43 dBi	WLAN ANT
	1	2x2 internal antenna	N/A	3.90 dBi		WLAN ANT

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.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11n20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11n20 CH100&CH116&CH140	MCS 0
Mode 8	TX IEEE 802.11n20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11n40 CH38&CH46	MCS 0
Mode 10	TX IEEE 802.11n40 CH54&CH62	MCS 0
Mode 11	TX IEEE 802.11n40 CH102&CH110&CH134	MCS 0
Mode 12	TX IEEE 802.11n40 CH151&CH159	MCS 0
Mode 13	TX IEEE 802.11ac20 CH36&CH40&CH48	MCS 0
Mode 14	TX IEEE 802.11ac20 CH52&CH60&CH64	MCS 0
Mode 15	TX IEEE 802.11ac20 CH100&CH116&CH140	MCS 0
Mode 16	TX IEEE 802.11ac20 CH149&CH157&CH165	MCS 0
Mode 17	TX IEEE 802.11ac40 CH38&CH46	MCS 0
Mode 18	TX IEEE 802.11ac40 CH54&CH62	MCS 0
Mode 19	TX IEEE 802.11ac40 CH102&CH110&CH134	MCS 0
Mode 20	TX IEEE 802.11ac40 CH151&CH159	MCS 0
Mode 21	TX IEEE 802.11ac80 CH42	MCS 0
Mode 22	TX IEEE 802.11ac80 CH58	MCS 0
Mode 23	TX IEEE 802.11ac80 CH106&CH122	MCS 0
Mode 24	TX IEEE 802.11ac80 CH155	MCS 0
Mode 25	TX IEEE 802.11ac160 CH50(B1)	MCS 0
Mode 26	TX IEEE 802.11ac160 CH50(B2)	MCS 0

Mode 27	TX IEEE 802.11ac160 CH114(B3)	MCS 0
Mode 28	TX IEEE 802.11ax20 CH36&CH40&CH48	MCS 0
Mode 29	TX IEEE 802.11ax20 CH52&CH60&CH64	MCS 0
Mode 30	TX IEEE 802.11ax20 CH100&CH116&CH140	MCS 0
Mode 31	TX IEEE 802.11ax20 CH149&CH157&CH165	MCS 0
Mode 32	TX IEEE 802.11ax40 CH38&CH46	MCS 0
Mode 33	TX IEEE 802.11ax40 CH54&CH62	MCS 0
Mode 34	TX IEEE 802.11ax40 CH102&CH110&CH134	MCS 0
Mode 35	TX IEEE 802.11ax40 CH151&CH159	MCS 0
Mode 36	TX IEEE 802.11ax80 CH42	MCS 0
Mode 37	TX IEEE 802.11ax80 CH58	MCS 0
Mode 38	TX IEEE 802.11ax80 CH106&CH122	MCS 0
Mode 39	TX IEEE 802.11ax80 CH155	MCS 0
Mode 40	TX IEEE 802.11ax160 CH50(B1)	MCS 0
Mode 41	TX IEEE 802.11ax160 CH50(B2)	MCS 0
Mode 42	TX IEEE 802.11ax160 CH114(B3)	MCS 0

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (3) We have be tested for all available U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

Test Mode	Description
Mode43	Keeping WIFI TX + WLAN Link (RD1202000-C55-154MG)
Mode44	Keeping WIFI TX + WLAN Link (TPA289-24120-US)

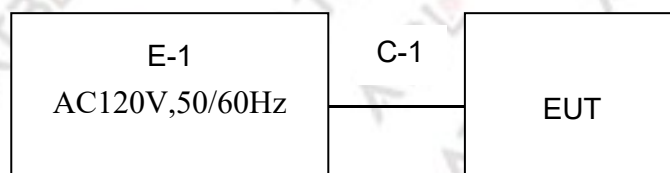
2.3. TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

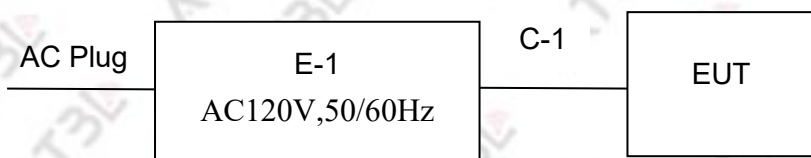
RF Function	Ant No.	Mode Or Modulation type	Ant Gain(dBi)	DG(dBi)	Power Class	Software For Testing
WIFI(5G)	0	802.11a	6.71	8.43	80	QRCT
		802.11n20			80	
		802.11n40			85	
		802.11ac20			80	
		802.11ac40			85	
		802.11ac80			80	
		802.11ac160			80	
		802.11ax20			80	
		802.11ax40			80	
		802.11ax80			80	
		802.11ax160			80	
WIFI(5G)	1	802.11a	3.90	8.43	80	QRCT
		802.11n20			80	
		802.11n40			85	
		802.11ac20			80	
		802.11ac40			85	
		802.11ac80			80	
		802.11ac160			80	
		802.11ax20			80	
		802.11ax40			80	
		802.11ax80			80	
		802.11ax160			80	

2.4. BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5. DESCRIPTION OF NECESSARY ACCESSORIES AND 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.	Series No.	Note
E-1	Adapter	RUIDE	RD1202000-C55-154MG	N/A	N/A
C-1	DC Cable	N/A	N/A	150cm	N/A

Support units

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

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.

2.6. LABORATORY INFORMATION

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	Building 8, No. 160 Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone:	+86(0)21-51298625
The FCC Registration Number (FRN):	0031025281
A2LA Number:	6184.01
CNAS Number:	CNAS L14531

2.7. MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.958\text{dB}$
2	Conducted spurious emissions	$\pm 2.988\text{dB}$
3	All emissions, radiated 30MHz-1GHz	$\pm 2.50\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.51\text{dB}$
5	Occupied bandwidth	$\pm 23.20\text{Hz}$
6	Power spectral density	$\pm 0.886\text{dB}$

2.8. EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
Test Receiver	R&S	ESCI	100469	SHATBL-E003	2023.09.27
Spectrum Analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2023.09.27
Loop Antenna	Daze	ZN30900C	20077	SHATBL-E042	2023.09.27
Bilog Antenna	SCHWARZBECK	VLUB 9168	01174	SHATBL-E008	2023.09.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	SHATBL-E009	2023.09.27
Horn Antenna(18-40G)	COM-POWER	AH-1840	10100008	SHATBL-E043	2023.09.27
Pre-Amplifier (0.1M-3GHz)	JPT	JPA-10M1G35	21010100035001	SHATBL-E005	2023.09.27
Pre-Amplifier (1G-18GHz)	JPT	JPA0118-55-303A	1910001800055000	SHATBL-E006	2023.09.27
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E016	2023.09.27
Antenna/Turntable Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A
Test SW	FALA	EMC-RI(Ver.4A2)		SHATBL-E046	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESPI	101679	SHATBL-E012	2023.09.27
LISN	R&S	ENV216	101300	SHATBL-E013	2023.09.27
LISN	R&S	ENV216	100333	SHATBL-E041	2023.05.28
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E015	2023.09.27
Test SW	FALA	EZ-EMC(Ver.EMC-CON3A1.1)		SHATBL-E044	N/A

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
MIMO Power measurement test Set	DARE	RPR3006W	16I00054SN016	SHATBL-W006	2023.09.27
			RPR6W-20001005	SHATBL-W013	2023.09.27
Signal Analyzer	R&S	FSP40	100626	SHATBL-W041	2023.05.28
Signal Generator	Agilent	N5182B	MY46240556	SHATBL-W005	2023.09.27
Wireless Communications Test Set	R&S	CMW500	101331	SHATBL-W007	2023.09.27
Temperature & Humidity	Deli	deli	N/A	SHATBL-W011	2023.09.27
Attenuator	Agilent	8494B	DC-18G	SHATBL-W009	2023.09.27
Attenuator	Agilent	8496B	DC-18G	SHATBL-W010	2023.09.27
power splitter	MNK	MPD-DC/6-2S	62315 G51	SHATBL-W015	2023.09.27
			62315 G52	SHATBL-W016	2023.09.27
Filter	Chengdu kangmaiwei	ZBSF-C2400-2483.5-T3	N/A	SHATBL-W021	N/A
		ZBSF-C5150-5350-T5	N/A	SHATBL-W022	N/A
		ZBSF-C5725-5850-T5	N/A	SHATBL-W024	N/A
Constant temperature and humidity box	KSON	THS-B6C-150	6159K	SHATBL-W019	2024.01.16
Test SW	FALA	LZ-RF(Ver.LzRF-03A3.1)		SHATBL-W020	N/A

3. EMC EMISSION TEST

3.1. CONDUCTED EMISSION MEASUREMENT

3.1.1. POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	Class B (dB μ V)		Standard
	Quasi-peak	Average	
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 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3)

The 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

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

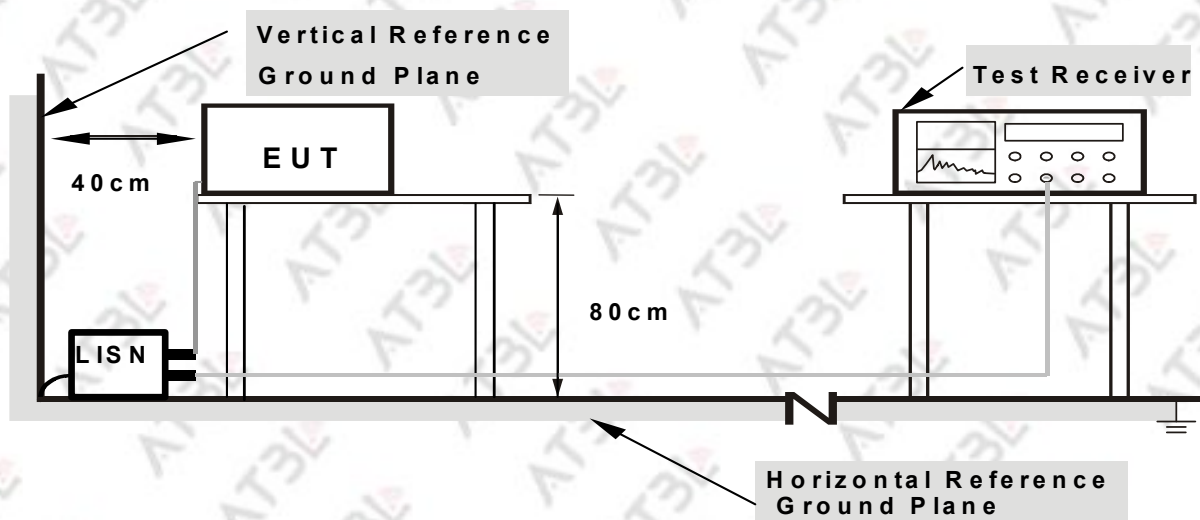
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3. DEVIATION FROM TESTS TANDARD

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 cm from other units and other metal planes

3.1.5. EUT OPERATING CONDITIONS

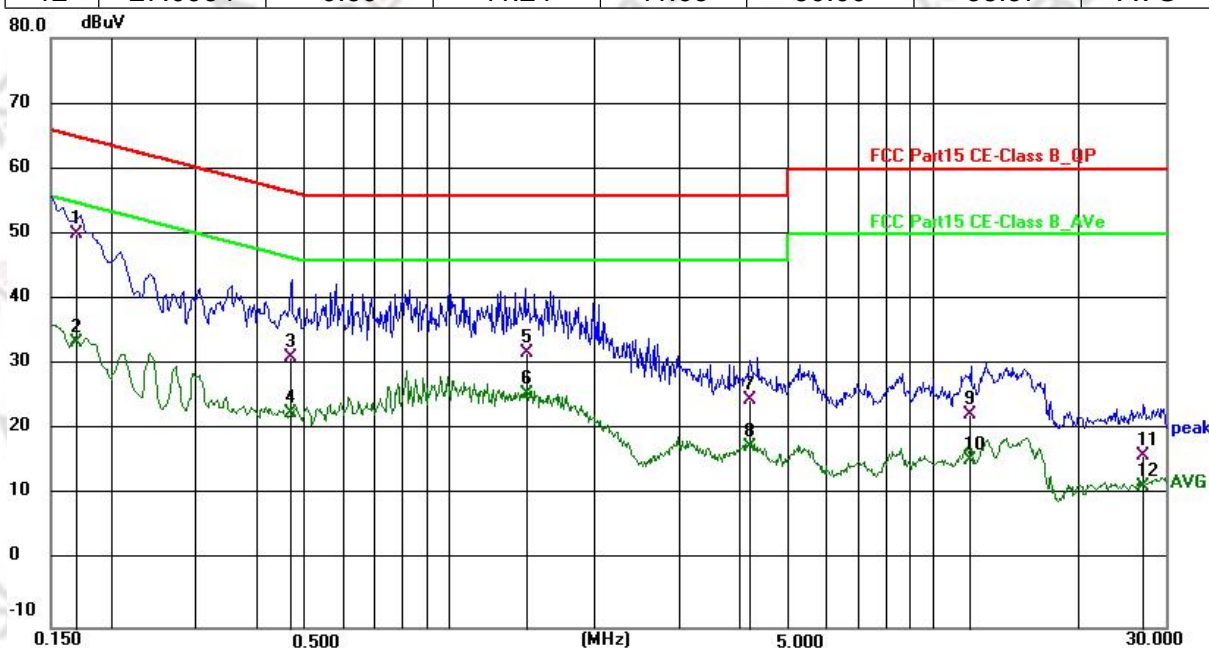
The EUT was configured for testing in a typical fashion (as a customer would normally use it).The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6. TEST RESULTS

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode43		

MODEL1: RD1202000-C55-154MG

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1701	39.42	10.71	50.13	64.96	-14.83	QP
2	0.1701	22.80	10.71	33.51	54.96	-21.45	AVG
3	0.4693	20.57	10.67	31.24	56.53	-25.29	QP
4	0.4693	12.03	10.67	22.70	46.53	-23.83	AVG
5	1.4425	21.18	10.74	31.92	56.00	-24.08	QP
6	1.4425	14.89	10.74	25.63	46.00	-20.37	AVG
7	4.1839	14.02	10.82	24.84	56.00	-31.16	QP
8	4.1839	6.87	10.82	17.69	46.00	-28.31	AVG
9	11.8938	11.91	10.70	22.61	60.00	-37.39	QP
10	11.8938	5.00	10.70	15.70	50.00	-34.30	AVG
11	27.0934	5.14	11.24	16.38	60.00	-43.62	QP
12	27.0934	0.39	11.24	11.63	50.00	-38.37	AVG



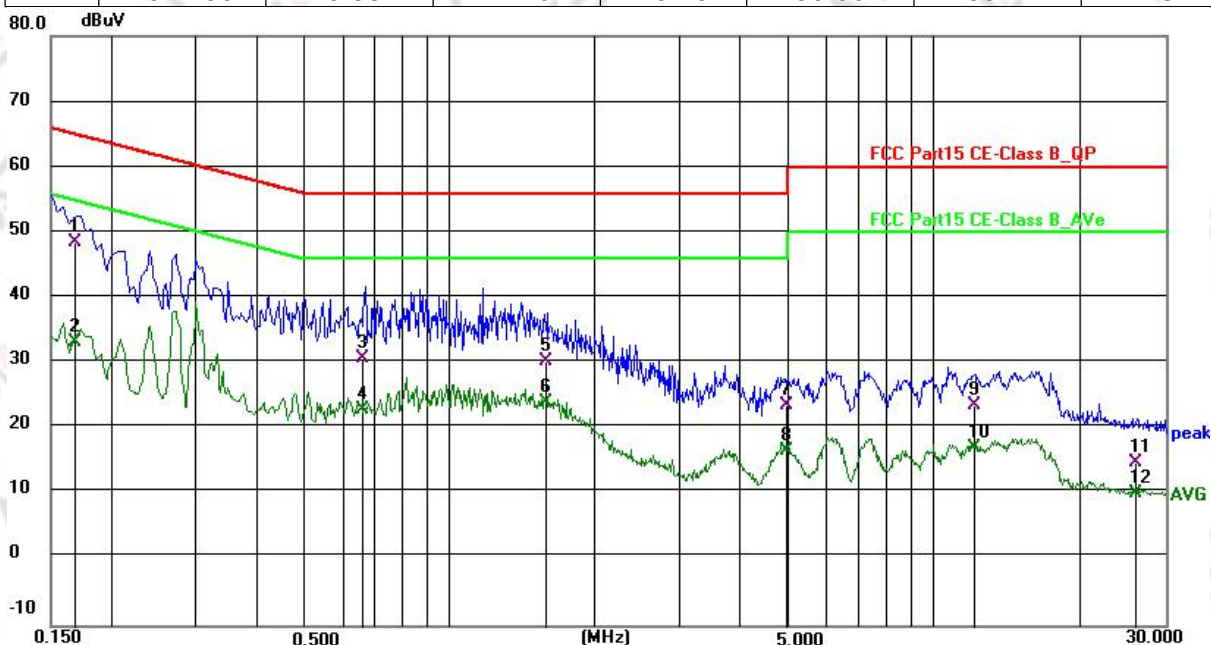
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 43		

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	0.1680	38.13	10.41	48.54	65.06	-16.52	QP
2	0.1680	23.02	10.41	33.43	55.06	-21.63	AVG
3	0.6599	20.50	10.34	30.84	56.00	-25.16	QP
4	0.6599	12.73	10.34	23.07	46.00	-22.93	AVG
5	1.5846	19.99	10.38	30.37	56.00	-25.63	QP
6	1.5846	13.65	10.38	24.03	46.00	-21.97	AVG
7	4.9742	13.33	10.42	23.75	56.00	-32.25	QP
8	4.9742	6.34	10.42	16.76	46.00	-29.24	AVG
9	12.0768	13.14	10.48	23.62	60.00	-36.38	QP
10	12.0768	6.63	10.48	17.11	50.00	-32.89	AVG
11	26.2450	3.78	11.16	14.94	60.00	-45.06	QP
12	26.2450	-0.88	11.16	10.28	50.00	-39.72	AVG



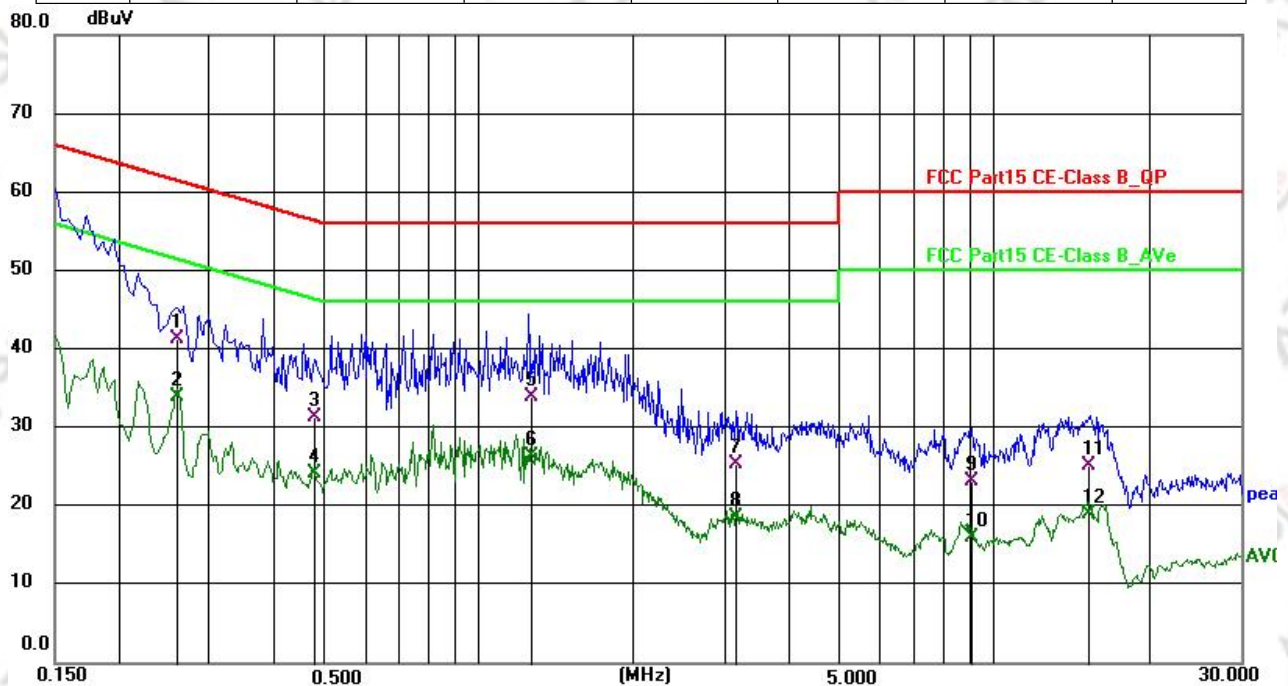
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode44		

MODEL2: TPA289-24120-US

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2598	30.67	10.72	41.39	61.44	-20.05	QP
2	0.2598	23.13	10.72	33.85	51.44	-17.59	AVG
3	0.4802	20.61	10.66	31.27	56.34	-25.07	QP
4	0.4802	13.60	10.66	24.26	46.34	-22.08	AVG
5	1.2672	23.20	10.73	33.93	56.00	-22.07	QP
6	1.2672	15.55	10.73	26.28	46.00	-19.72	AVG
7	3.1513	14.55	10.81	25.36	56.00	-30.64	QP
8	3.1513	7.84	10.81	18.65	46.00	-27.35	AVG
9	9.0233	12.61	10.65	23.26	60.00	-36.74	QP
10	9.0233	5.40	10.65	16.05	50.00	-33.95	AVG
11	15.3722	14.29	10.84	25.13	60.00	-34.87	QP
12	15.3722	8.23	10.84	19.07	50.00	-30.93	AVG

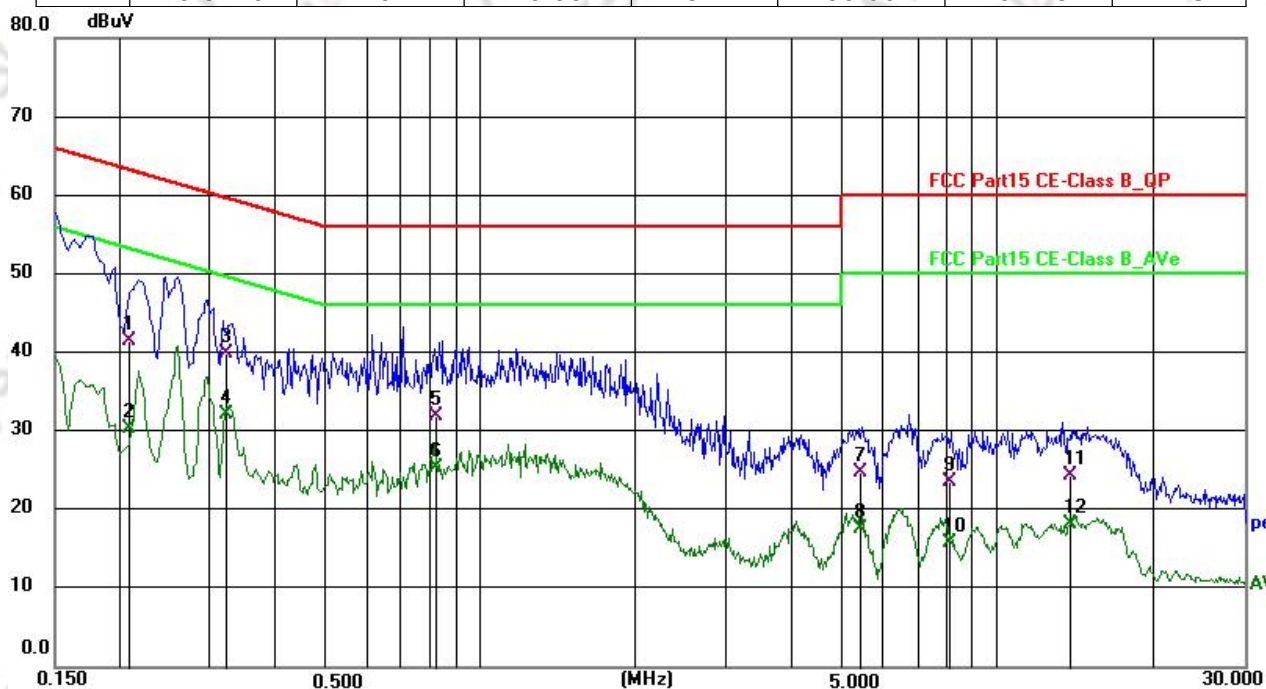


REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 44		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2102	31.07	10.39	41.46	63.20	-21.74	QP
2	0.2102	20.01	10.39	30.40	53.20	-22.80	AVG
3	0.3226	29.63	10.32	39.95	59.64	-19.69	QP
4	0.3226	21.75	10.32	32.07	49.64	-17.57	AVG
5	0.8220	21.51	10.35	31.86	56.00	-24.14	QP
6	0.8220	15.01	10.35	25.36	46.00	-20.64	AVG
7	5.4573	14.41	10.41	24.82	60.00	-35.18	QP
8	5.4573	7.13	10.41	17.54	50.00	-32.46	AVG
9	8.1116	13.12	10.38	23.50	60.00	-36.50	QP
10	8.1116	5.42	10.38	15.80	50.00	-34.20	AVG
11	13.8770	13.84	10.58	24.42	60.00	-35.58	QP
12	13.8770	7.64	10.58	18.22	50.00	-31.78	AVG



REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

3.2. RADIATED EMISSION MEASUREMENT

3.2.1. RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.407(b)7& 15.205/209(a), then the (a); limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/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
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Limits Of Radiated Emission Measurement (Above 1000Mhz)

FREQUENCY (MHz)	Class B (dBμV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBμV/m)=20log Emission level (μV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1MHz / 1MHz, AV=1 MHz /3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1MHz / 1MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2. TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz 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 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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.

Note:

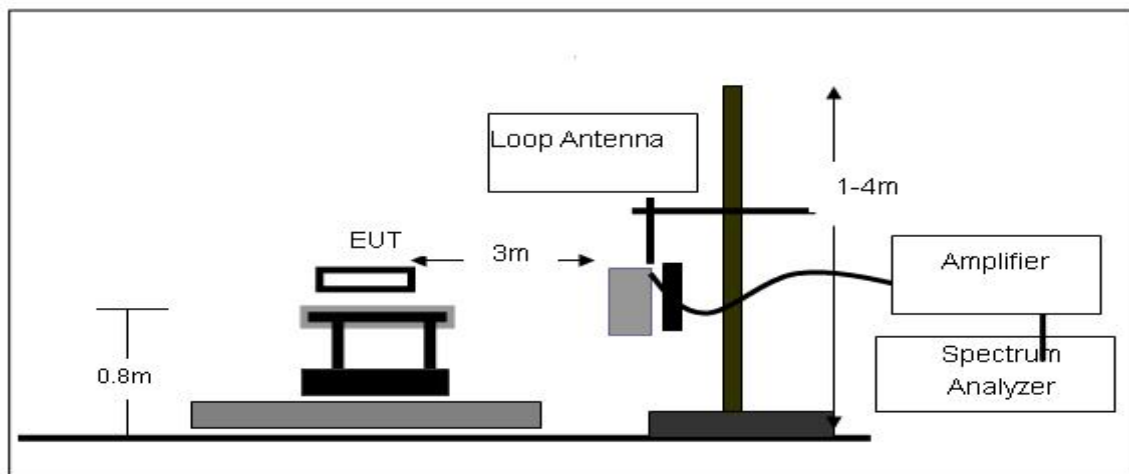
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3. DEVIATION FROM TEST STANDARD

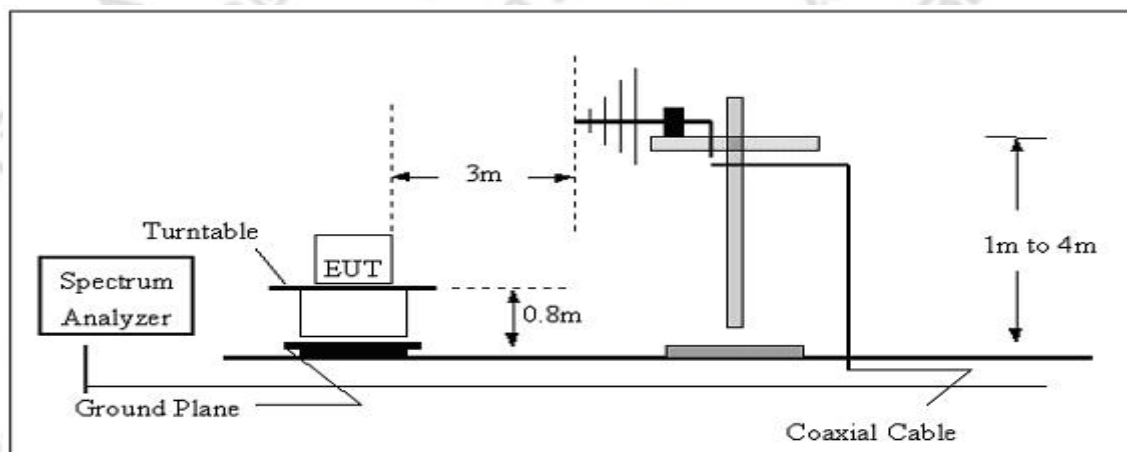
No deviation

3.2.4. TEST SETUP

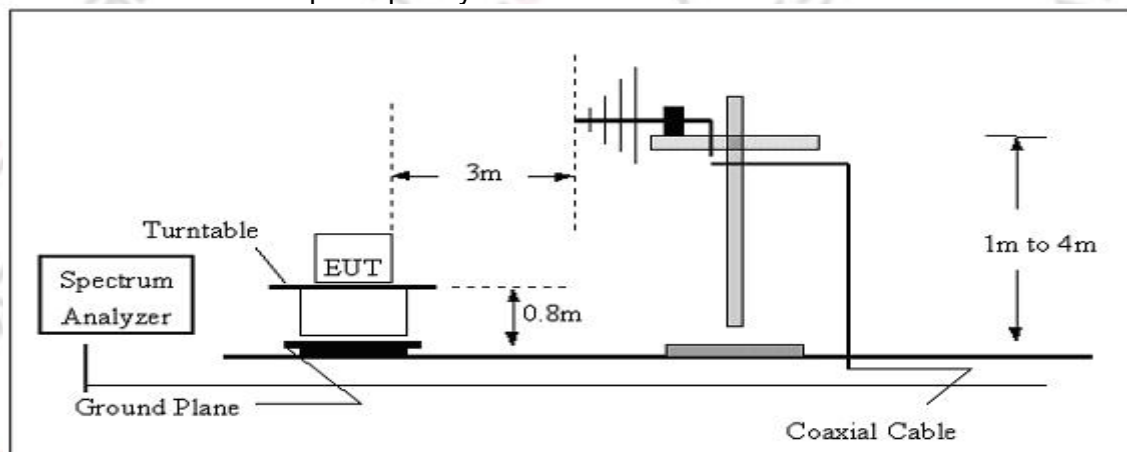
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) 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 follows during the testing.

3.2.6. FIELDS TRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$

3.2.7. TEST RESULTS

3.2.7.1. FOR RADIATED SPURIOUS EMISSIONS

9kHz~30MHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Polarization:	--
Test Mode:	TX Mode		

REMARK:

The measured value have enough margin over 20dB than the limit, therefore they are not reported.

TEST RESULTS

Remark:

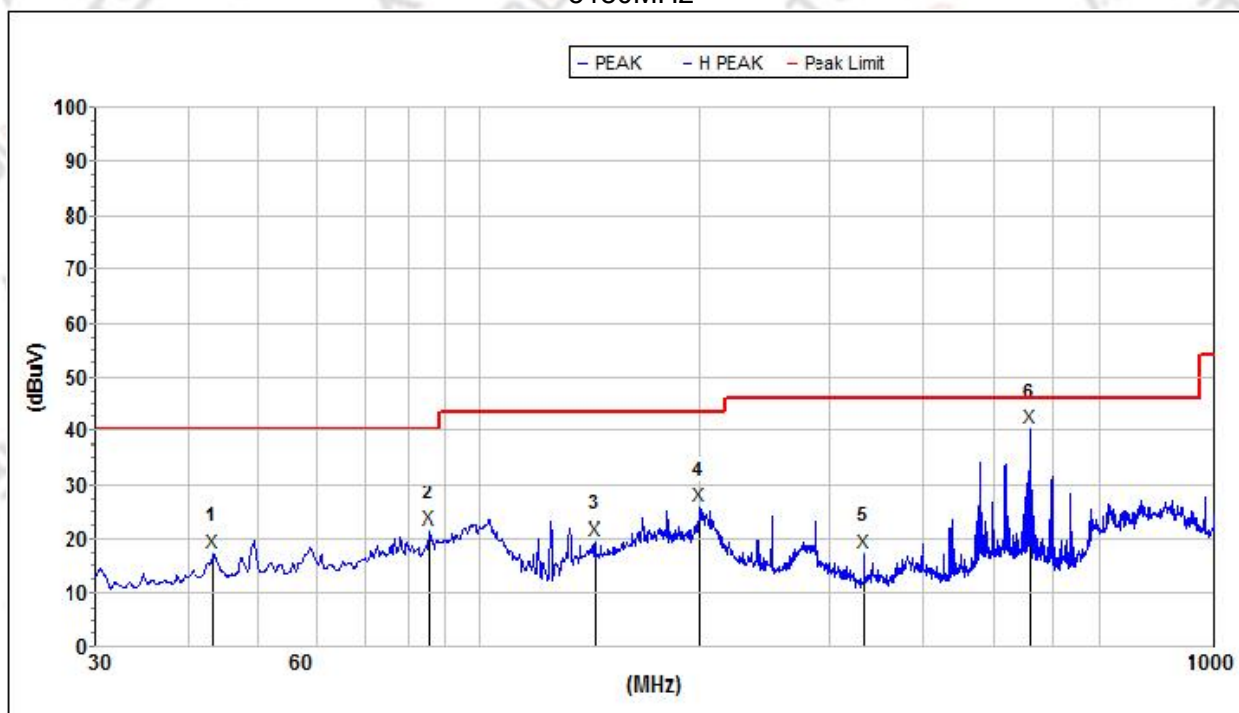
1. The all data rate modes had been test, but only worse test data was recorded in the test report.
2. Other 18G-25G Emission detected are more than 20dB below the limit.therefore they are not reported.

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5150MHz-5250MHz

5180MHz

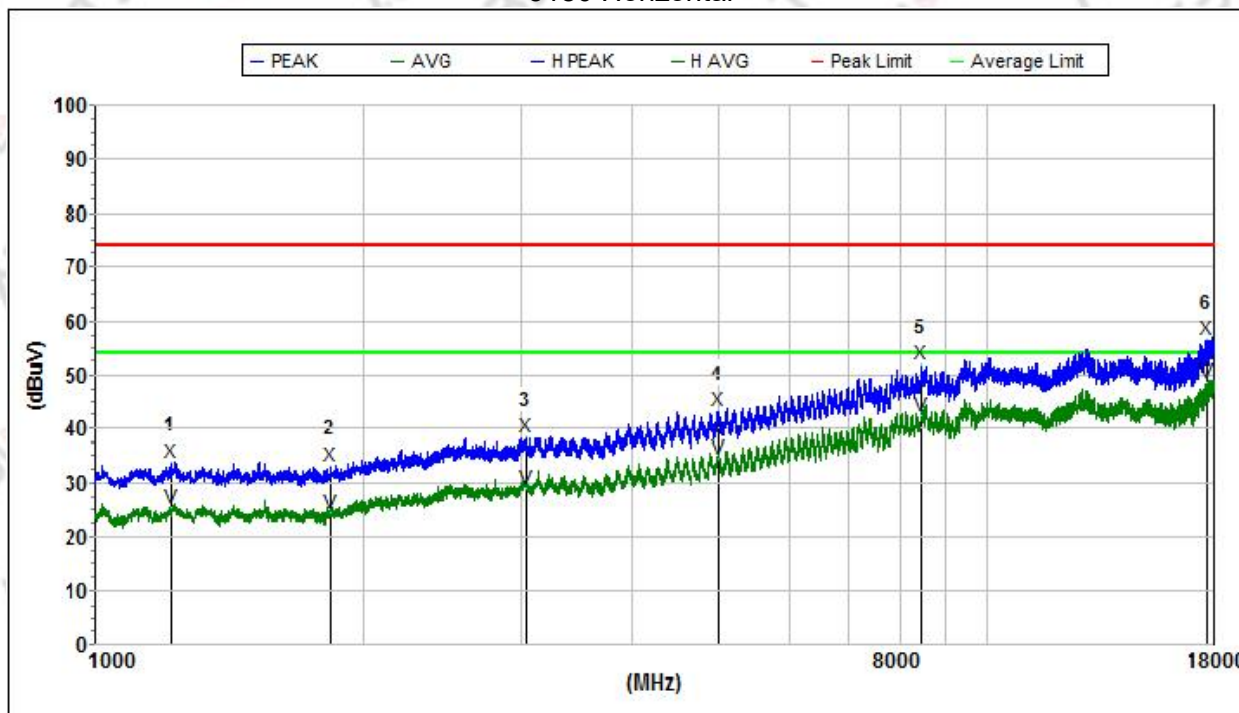


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	43.505724	17.3	40.0	22.7	13.9	32.5	0.8	H
2	85.148633	21.8	40.0	18.2	9.4	32.9	1.0	H
3	143.829528	19.6	43.5	23.9	13.8	32.9	1.3	H
4	199.985568	26.0	43.5	17.5	9.9	32.8	2.3	H
5	333.686743	17.5	46.0	28.5	13.2	32.6	2.7	H
6	559.710646	40.3	46.0	5.7	15.5	32.4	3.1	H

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5180 Horizontal

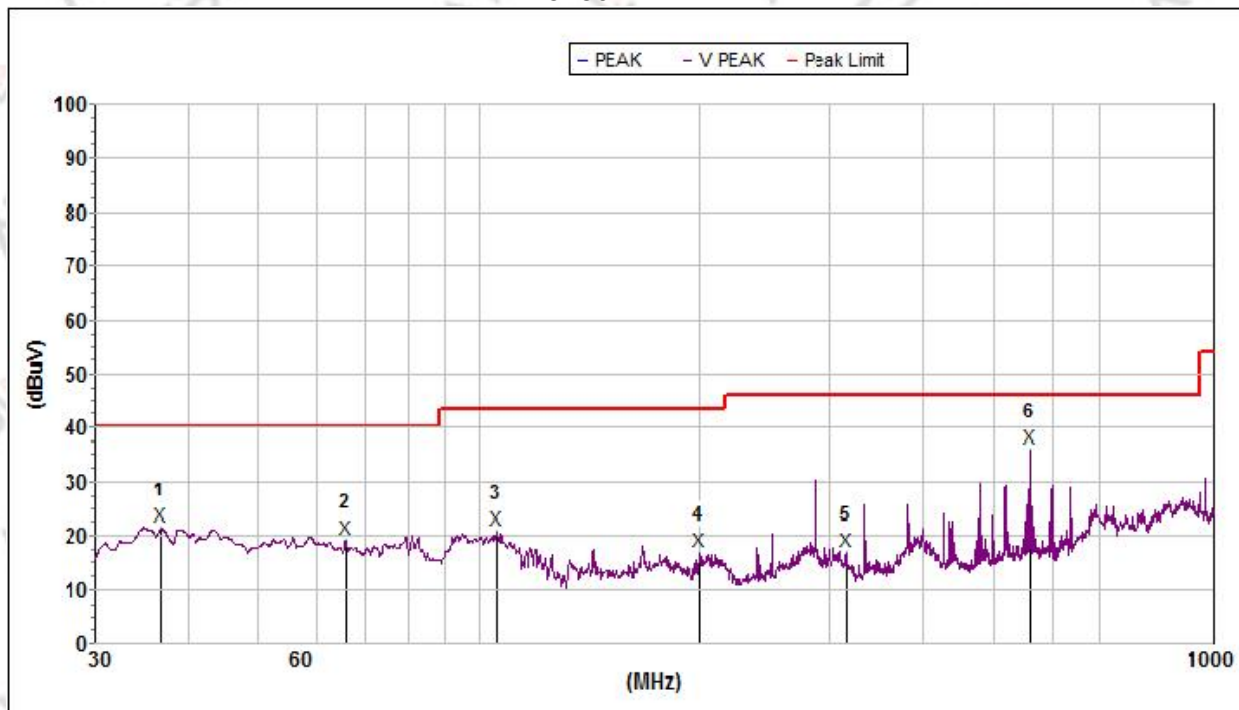


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1214.200000	33.8	74.0	40.2	25.7	60.9	2.3	H
2	1837.250000	33.3	74.0	40.7	25.3	61.2	2.6	H
3	3039.150000	38.4	74.0	35.6	29.5	58.8	3.0	H
4	5011.150000	43.4	74.0	30.6	33.0	57.4	3.6	H
5	8428.150000	52.1	74.0	21.9	37.5	56.4	5.1	H
6	17684.650000	56.5	74.0	17.5	40.4	57.9	6.9	H
Avg								
1	1214.200000	25.2	54.0	28.8	25.7	60.9	2.3	H
2	1837.250000	24.3	54.0	29.7	25.3	61.2	2.6	H
3	3039.150000	29.0	54.0	25.0	29.5	58.8	3.0	H
4	5011.150000	34.4	54.0	19.6	33.0	57.4	3.6	H
5	8428.150000	42.3	54.0	11.7	37.5	56.4	5.1	H
6	17684.650000	48.8	54.0	5.2	40.4	57.9	6.9	H

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5180 Vertical

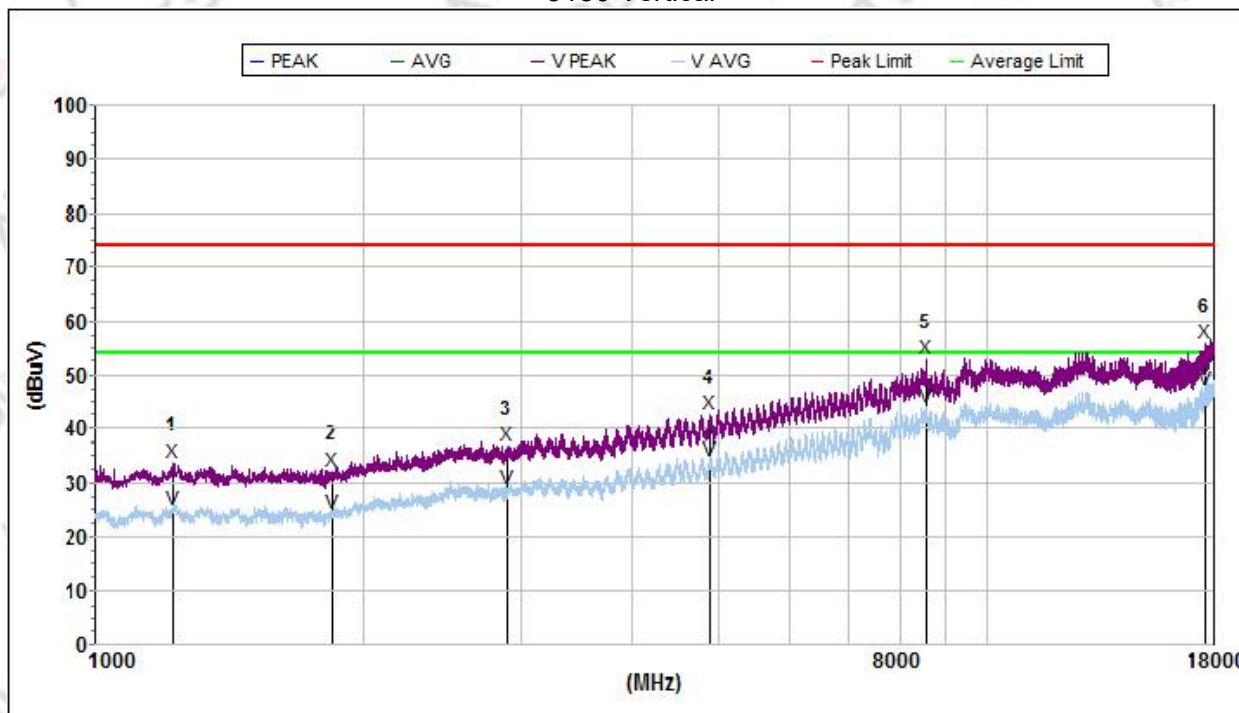


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	36.766156	21.6	40.0	18.4	13.6	32.3	0.8	V
2	65.803061	19.5	40.0	20.5	11.6	32.8	0.8	V
3	105.641540	21.0	43.5	22.5	10.7	32.9	1.4	V
4	199.985568	17.0	43.5	26.5	9.9	32.8	2.3	V
5	316.034381	17.0	46.0	29.0	13.1	32.6	2.7	V
6	559.710646	36.1	46.0	9.9	17.6	32.4	3.1	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5180 Vertical

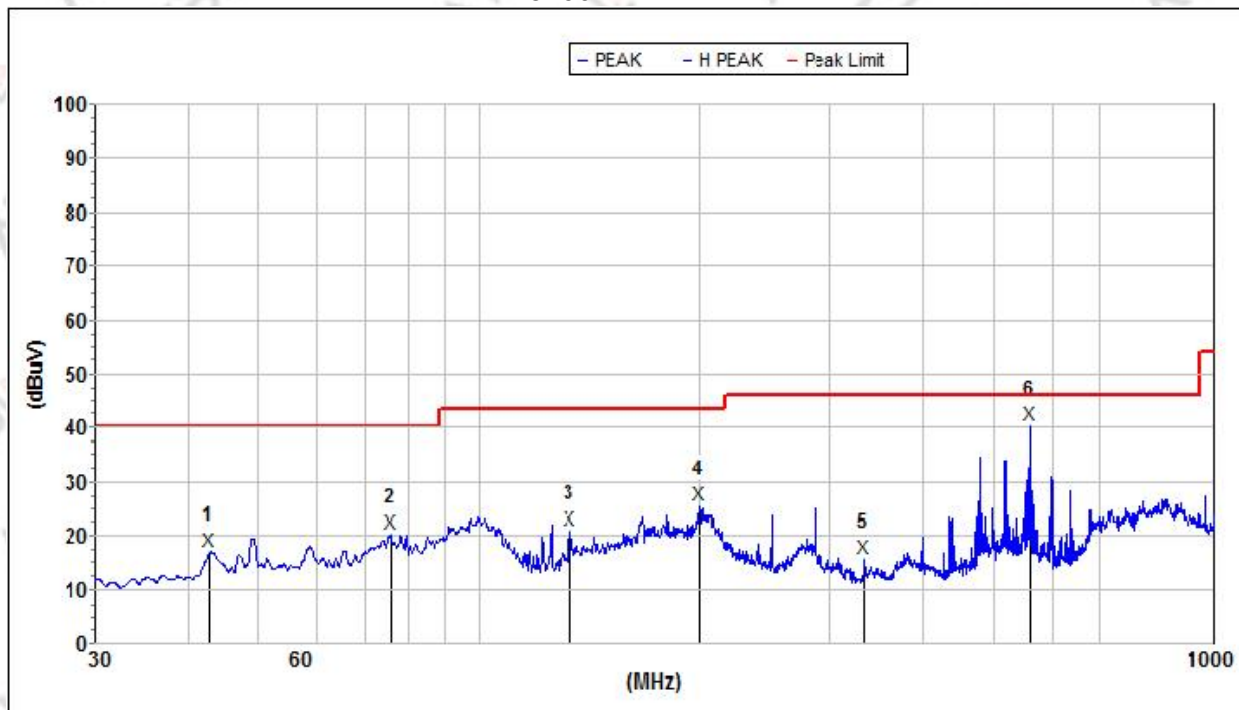


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1218.450000	33.8	74.0	40.2	25.7	60.9	2.3	V
2	1844.050000	32.4	74.0	41.6	25.3	61.2	2.6	V
3	2900.600000	36.9	74.0	37.1	28.8	58.9	2.9	V
4	4907.450000	42.8	74.0	31.2	32.7	57.4	3.6	V
5	8534.400000	52.9	74.0	21.1	37.7	56.1	5.1	V
6	17580.100000	56.0	74.0	18.0	39.7	58.1	6.9	V
Avg								
1	1218.450000	24.9	54.0	29.1	25.7	60.9	2.3	V
2	1844.050000	24.2	54.0	29.8	25.3	61.2	2.6	V
3	2900.600000	28.8	54.0	25.2	28.8	58.9	2.9	V
4	4907.450000	34.1	54.0	19.9	32.7	57.4	3.6	V
5	8534.400000	44.2	54.0	9.8	37.7	56.1	5.1	V
6	17580.100000	47.4	54.0	6.6	39.7	58.1	6.9	V

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5200 Horizontal

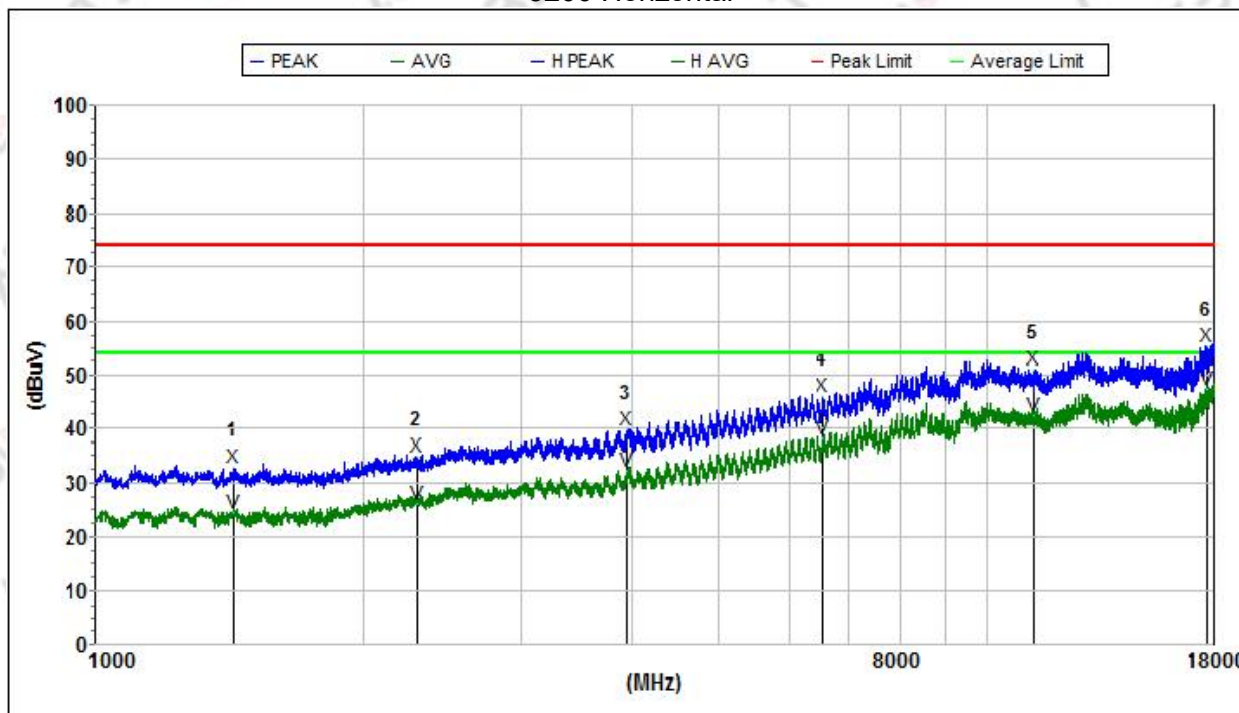


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	43.050457	17.0	40.0	23.0	13.9	32.5	0.8	H
2	75.578767	20.4	40.0	19.6	10.0	32.9	0.9	H
3	132.685004	21.2	43.5	22.3	13.0	32.9	1.4	H
4	199.985568	25.8	43.5	17.7	9.9	32.8	2.3	H
5	334.272302	15.8	46.0	30.2	13.2	32.6	2.7	H
6	559.710646	40.5	46.0	5.5	15.5	32.4	3.1	H

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5200 Horizontal

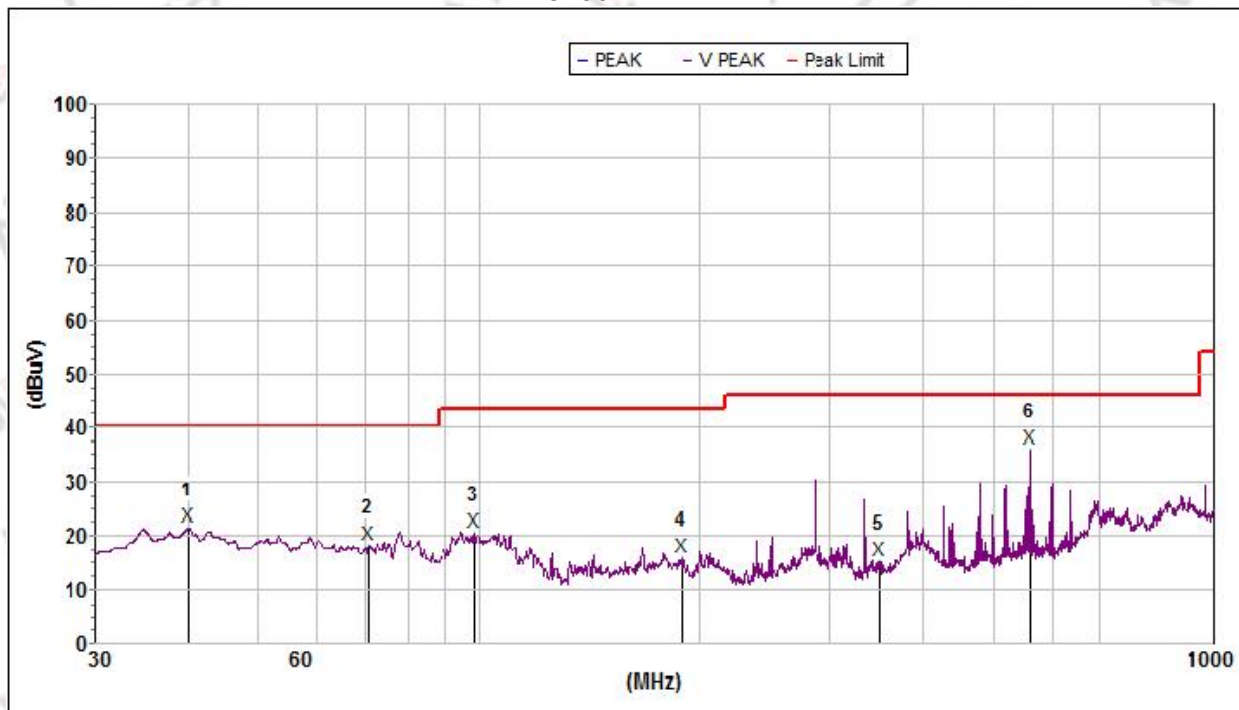


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1430.950000	33.0	74.0	41.0	25.5	61.4	2.4	H
2	2296.250000	34.9	74.0	39.1	27.2	60.0	2.8	H
3	3952.900000	39.8	74.0	34.2	30.8	58.5	3.2	H
4	6566.650000	46.0	74.0	28.0	35.4	58.0	4.2	H
5	11252.700000	51.1	74.0	22.9	39.0	61.1	5.7	H
6	17674.450000	55.4	74.0	18.6	40.3	58.0	6.9	H
Avg								
1	1430.950000	24.4	54.0	29.6	25.5	61.4	2.4	H
2	2296.250000	26.0	54.0	28.0	27.2	60.0	2.8	H
3	3952.900000	32.2	54.0	21.8	30.8	58.5	3.2	H
4	6566.650000	38.2	54.0	15.8	35.4	58.0	4.2	H
5	11252.700000	42.5	54.0	11.5	39.0	61.1	5.7	H
6	17674.450000	47.3	54.0	6.7	40.3	58.0	6.9	H

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5200 Vertical

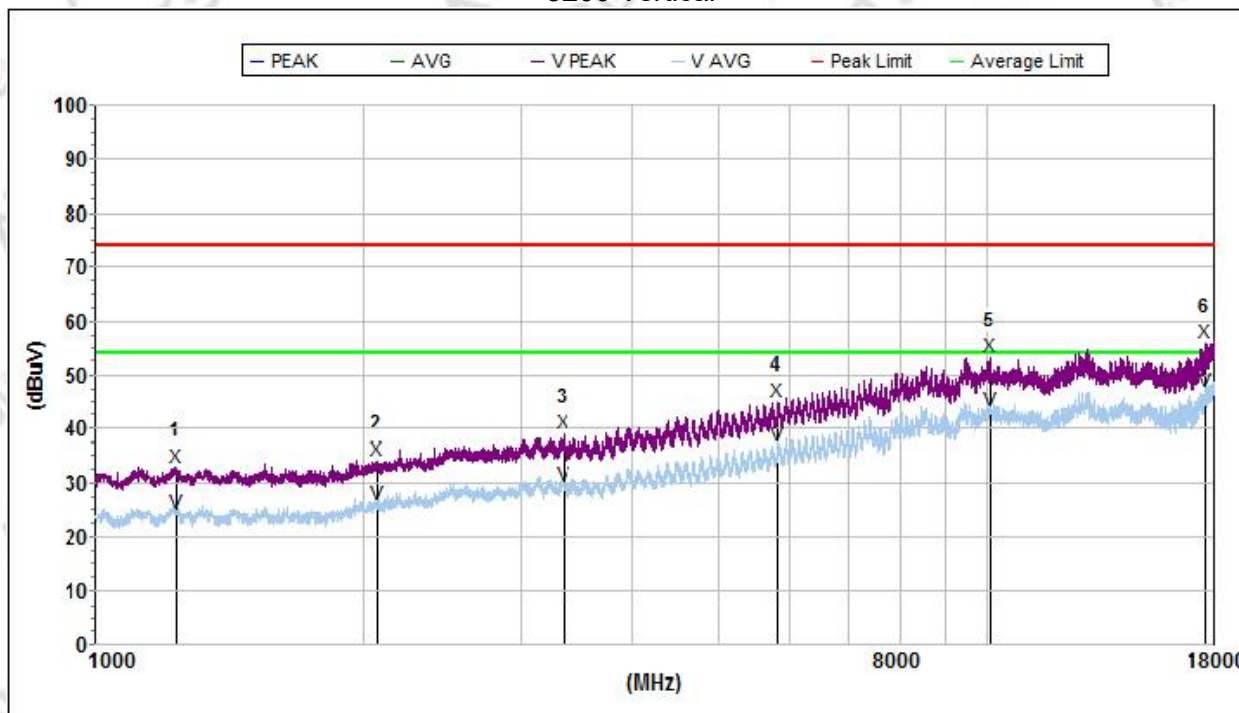


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	40.134716	21.6	40.0	18.4	14.1	32.4	0.8	V
2	70.707439	18.4	40.0	21.6	10.7	32.8	0.8	V
3	98.314078	20.6	43.5	22.9	10.0	32.9	1.3	V
4	188.412502	16.0	43.5	27.5	10.7	32.8	2.1	V
5	351.091807	15.6	46.0	30.4	13.8	32.5	2.7	V
6	559.710646	36.3	46.0	9.7	17.6	32.4	3.1	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5200 Vertical

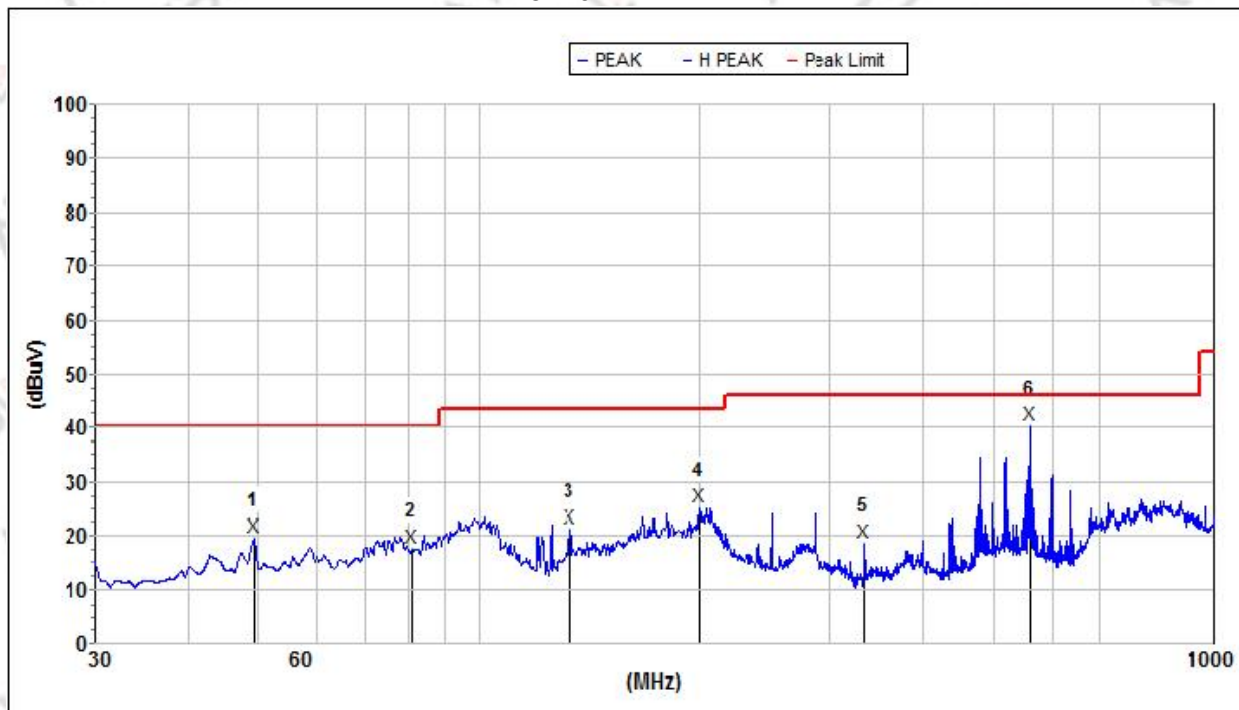


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1227.800000	33.0	74.0	41.0	25.8	60.9	2.3	V
2	2069.613868	34.3	74.0	39.7	27.0	60.9	2.7	V
3	3344.300000	39.1	74.0	34.9	29.5	58.2	3.1	V
4	5827.150000	45.2	74.0	28.8	33.9	58.1	4.1	V
5	10098.400000	53.2	74.0	20.8	38.6	60.4	5.4	V
6	17591.150000	55.9	74.0	18.1	39.8	58.0	6.9	V
Avg								
1	1227.800000	24.5	54.0	29.5	25.8	60.9	2.3	V
2	2069.613868	26.1	54.0	27.9	27.0	60.9	2.7	V
3	3344.300000	29.7	54.0	24.3	29.5	58.2	3.1	V
4	5827.150000	36.7	54.0	17.3	33.9	58.1	4.1	V
5	10098.400000	43.5	54.0	10.5	38.6	60.4	5.4	V
6	17591.150000	47.0	54.0	7.0	39.8	58.0	6.9	V

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5240 Horizontal

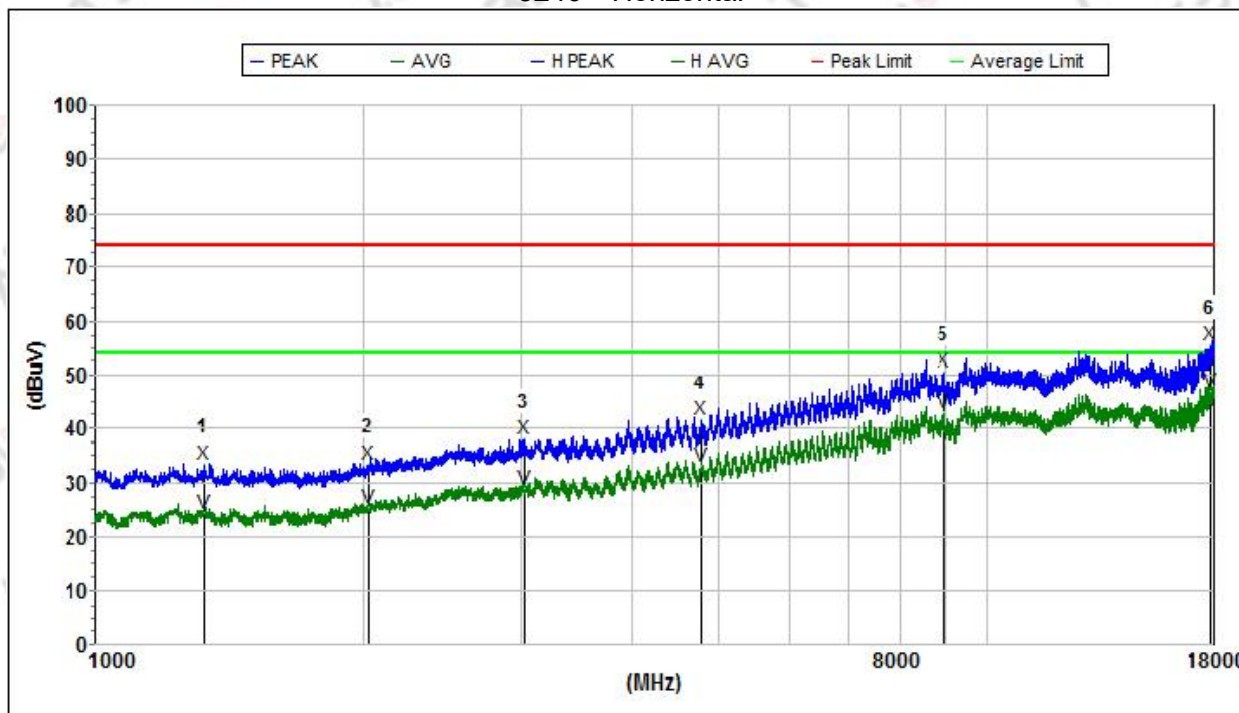


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	19.9	40.0	20.1	13.6	32.6	0.8	H
2	80.785701	17.8	40.0	22.2	9.3	32.9	1.0	H
3	133.151089	21.5	43.5	22.0	13.0	32.9	1.4	H
4	199.635245	25.3	43.5	18.2	9.9	32.8	2.3	H
5	334.272302	18.7	46.0	27.3	13.2	32.6	2.7	H
6	559.710646	40.4	46.0	5.6	15.5	32.4	3.1	H

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11a		

5240 Horizontal

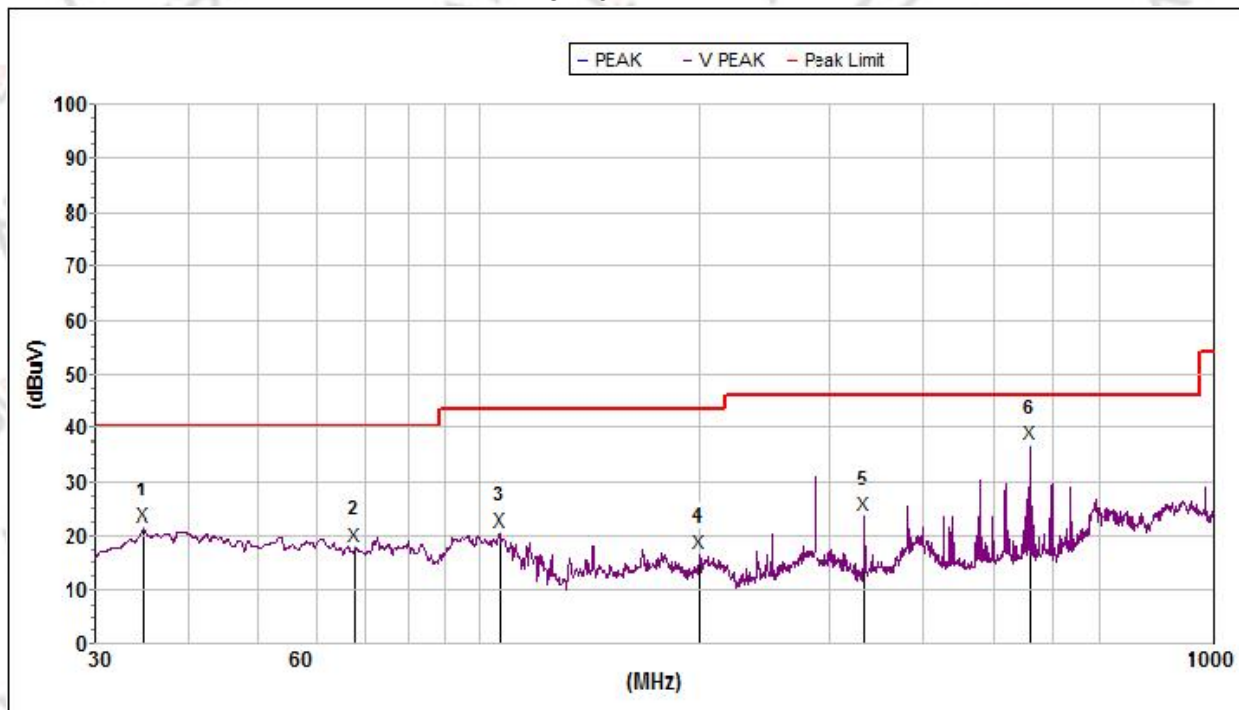


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1328.950000	33.7	74.0	40.3	25.8	61.2	2.3	H
2	2021.700000	33.7	74.0	40.3	26.6	60.9	2.7	H
3	3023.850000	38.2	74.0	35.8	29.5	58.8	3.0	H
4	4796.100000	41.8	74.0	32.2	32.2	57.5	3.6	H
5	8944.950000	50.8	74.0	23.2	38.2	59.2	5.3	H
6	17881.000000	55.7	74.0	18.3	41.6	57.7	7.0	H
Avg								
1	1328.950000	24.5	54.0	29.5	25.8	61.2	2.3	H
2	2021.700000	25.2	54.0	28.8	26.6	60.9	2.7	H
3	3023.850000	29.1	54.0	24.9	29.5	58.8	3.0	H
4	4796.100000	33.3	54.0	20.7	32.2	57.5	3.6	H
5	8944.950000	43.2	54.0	10.8	38.2	59.2	5.3	H
6	17881.000000	47.2	54.0	6.8	41.6	57.7	7.0	H

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5240 Vertical

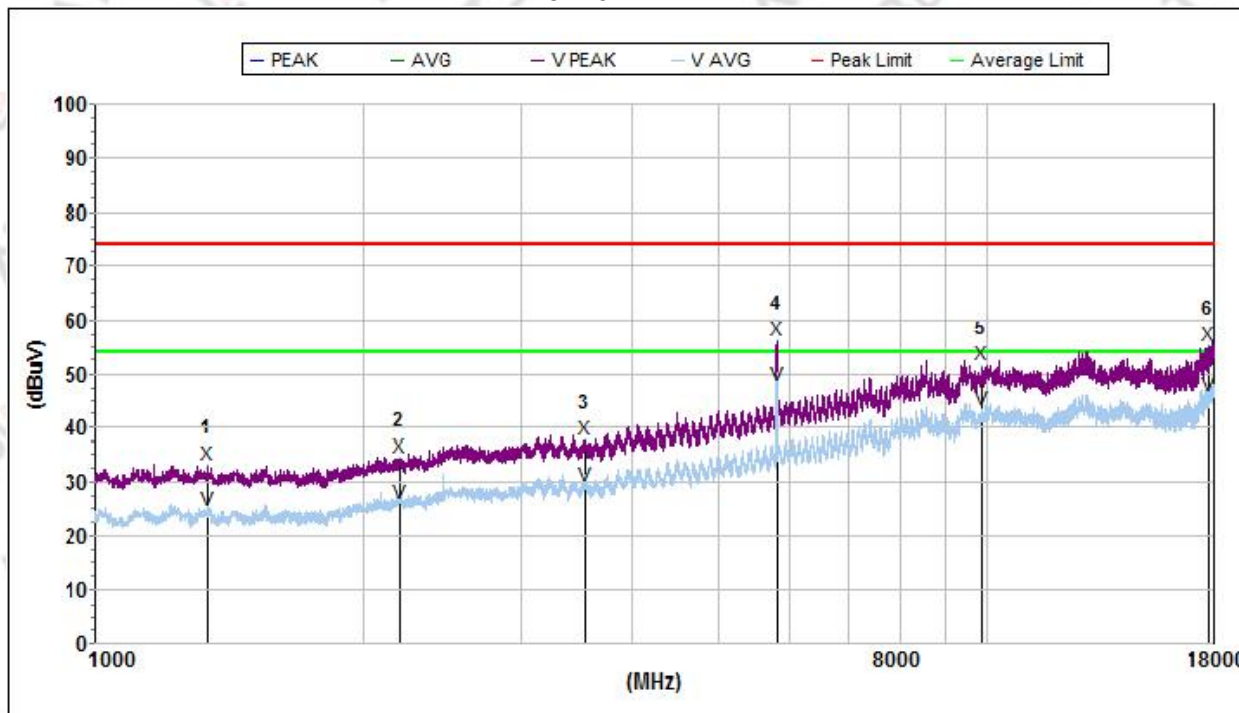


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	34.821189	21.6	40.0	18.4	13.4	32.2	0.8	V
2	67.793891	18.0	40.0	22.0	11.2	32.8	0.8	V
3	106.571707	20.7	43.5	22.8	10.8	32.9	1.4	V
4	199.985568	16.8	43.5	26.7	9.9	32.8	2.3	V
5	333.686743	23.7	46.0	22.3	13.5	32.6	2.7	V
6	559.710646	36.7	46.0	9.3	17.6	32.4	3.1	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11a		

5240 Vertical

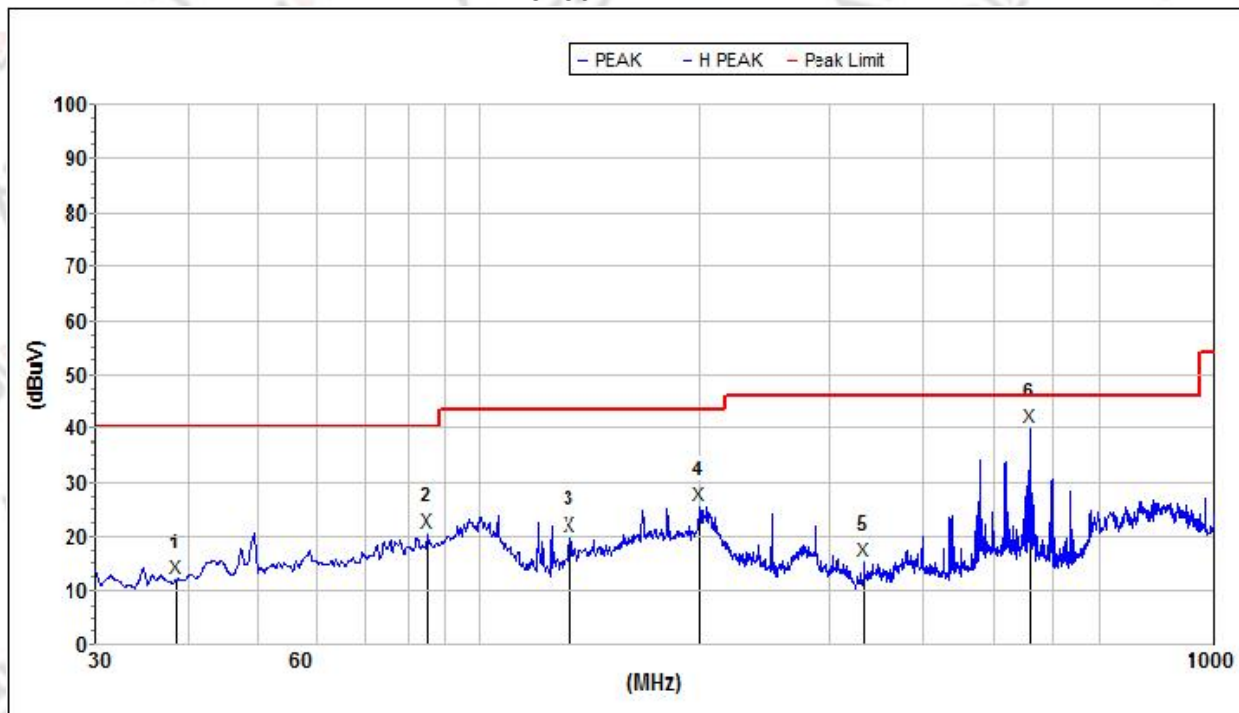


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1340.000000	33.3	74.0	40.7	25.7	61.2	2.3	V
2	2197.650000	34.7	74.0	39.3	27.2	60.5	2.7	V
3	3550.850000	37.9	74.0	36.1	29.5	59.0	3.2	V
4	5805.900000	56.2	74.0	17.8	33.8	58.1	4.1	V
5	9886.750000	51.8	74.0	22.2	38.3	59.7	5.4	V
6	17792.600000	55.3	74.0	18.7	41.1	57.8	7.0	V
Avg								
1	1340.000000	24.6	54.0	29.4	25.7	61.2	2.3	V
2	2197.650000	26.1	54.0	27.9	27.2	60.5	2.7	V
3	3550.850000	29.2	54.0	24.8	29.5	59.0	3.2	V
4	5805.900000	47.9	54.0	6.1	33.8	58.1	4.1	V
5	9886.750000	43.4	54.0	10.6	38.3	59.7	5.4	V
6	17792.600000	46.0	54.0	8.0	41.1	57.8	7.0	V

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n20		

5180 Horizontal

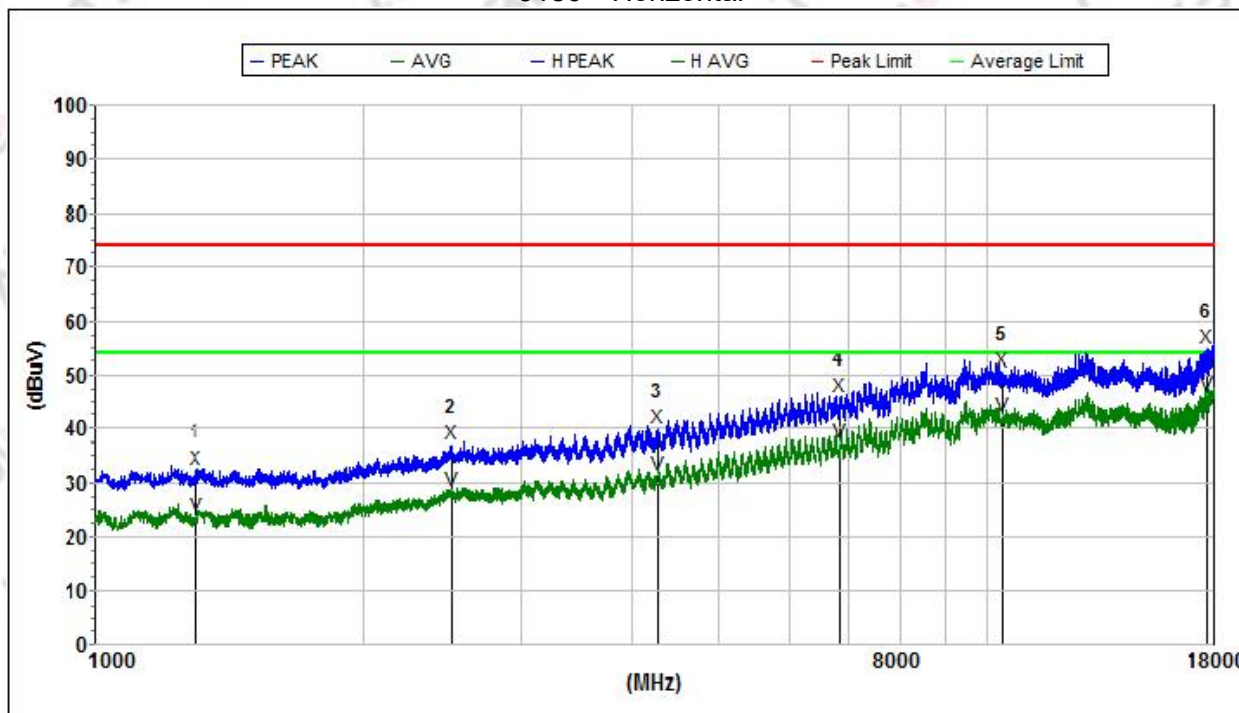


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	38.683874	12.2	40.0	27.8	13.9	32.3	0.8	H
2	84.701941	20.7	40.0	19.3	9.4	32.9	1.0	H
3	133.151089	20.2	43.5	23.3	13.0	32.9	1.4	H
4	199.635245	25.6	43.5	17.9	9.9	32.8	2.3	H
5	333.686743	15.6	46.0	30.4	13.2	32.6	2.7	H
6	559.710646	40.2	46.0	5.8	15.5	32.4	3.1	H

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n20		

5180 Horizontal

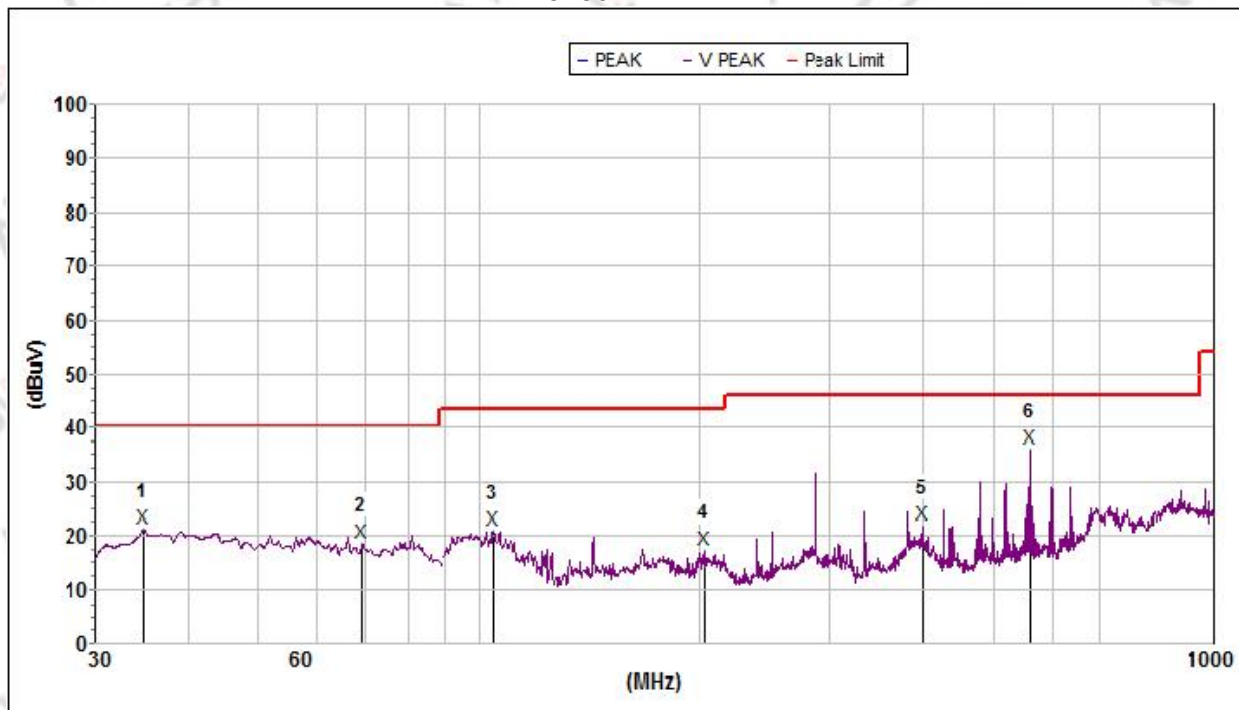


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1298.350000	32.7	74.0	41.3	25.8	61.1	2.3	H
2	2512.150000	37.2	74.0	36.8	27.8	58.8	2.8	H
3	4275.050000	40.0	74.0	34.0	31.2	58.2	3.4	H
4	6858.200000	46.2	74.0	27.8	35.8	58.6	4.3	H
5	10427.350000	50.5	74.0	23.5	38.8	61.0	5.5	H
6	17682.100000	54.9	74.0	19.1	40.4	57.9	6.9	H
Avg								
1	1298.350000	23.8	54.0	30.2	25.8	61.1	2.3	H
2	2512.150000	28.5	54.0	25.5	27.8	58.8	2.8	H
3	4275.050000	31.7	54.0	22.3	31.2	58.2	3.4	H
4	6858.200000	37.5	54.0	16.5	35.8	58.6	4.3	H
5	10427.350000	42.4	54.0	11.6	38.8	61.0	5.5	H
6	17682.100000	46.4	54.0	7.6	40.4	57.9	6.9	H

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n20		

5180 Vertical

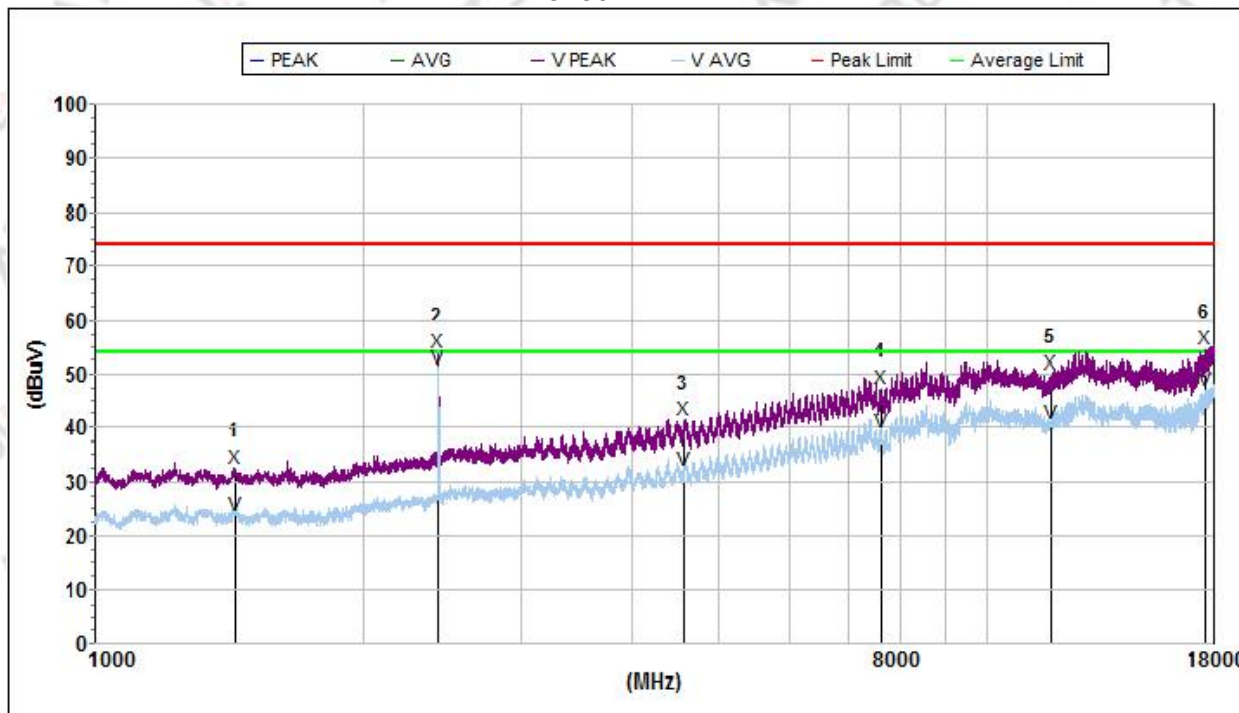


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	34.821189	21.5	40.0	18.5	13.4	32.2	0.8	V
2	69.235341	18.7	40.0	21.3	11.0	32.8	0.8	V
3	104.536051	21.2	43.5	22.3	10.6	32.9	1.4	V
4	202.810376	17.5	43.5	26.0	10.0	32.8	2.4	V
5	399.730428	22.1	46.0	23.9	14.7	32.3	2.7	V
6	559.710646	36.2	46.0	9.8	17.6	32.4	3.1	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n20		

5180 Vertical

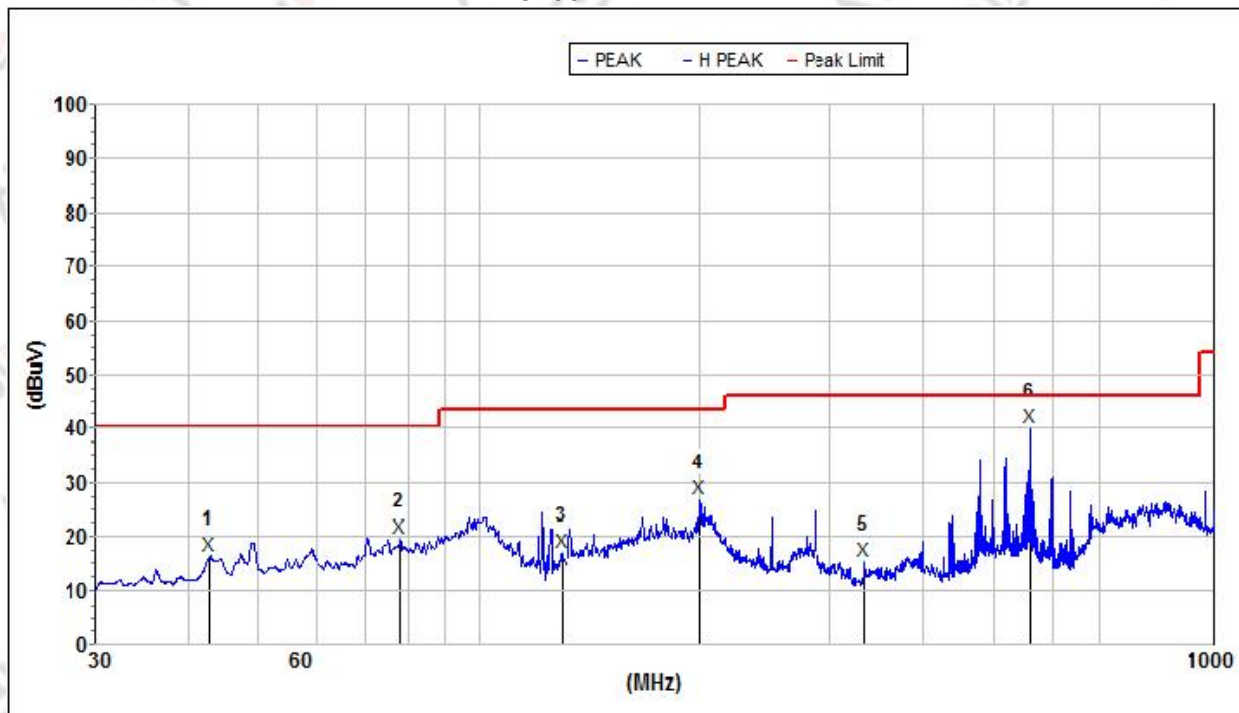


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1436.050000	32.7	74.0	41.3	25.5	61.4	2.4	V
2	2415.250000	54.1	74.0	19.9	27.4	59.4	2.8	V
3	4570.000000	41.4	74.0	32.6	31.6	57.9	3.6	V
4	7607.050000	47.5	74.0	26.5	36.3	57.7	4.7	V
5	11761.000000	50.0	74.0	24.0	39.1	60.3	5.8	V
6	17585.200000	54.7	74.0	19.3	39.8	58.1	6.9	V
Avg								
1	1436.050000	23.8	54.0	30.2	25.5	61.4	2.4	V
2	2415.250000	51.1	54.0	2.9	27.4	59.4	2.8	V
3	4570.000000	32.4	54.0	21.6	31.6	57.9	3.6	V
4	7607.050000	39.1	54.0	14.9	36.3	57.7	4.7	V
5	11761.000000	40.8	54.0	13.2	39.1	60.3	5.8	V
6	17585.200000	47.0	54.0	7.0	39.8	58.1	6.9	V

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n20		

5200 Horizontal

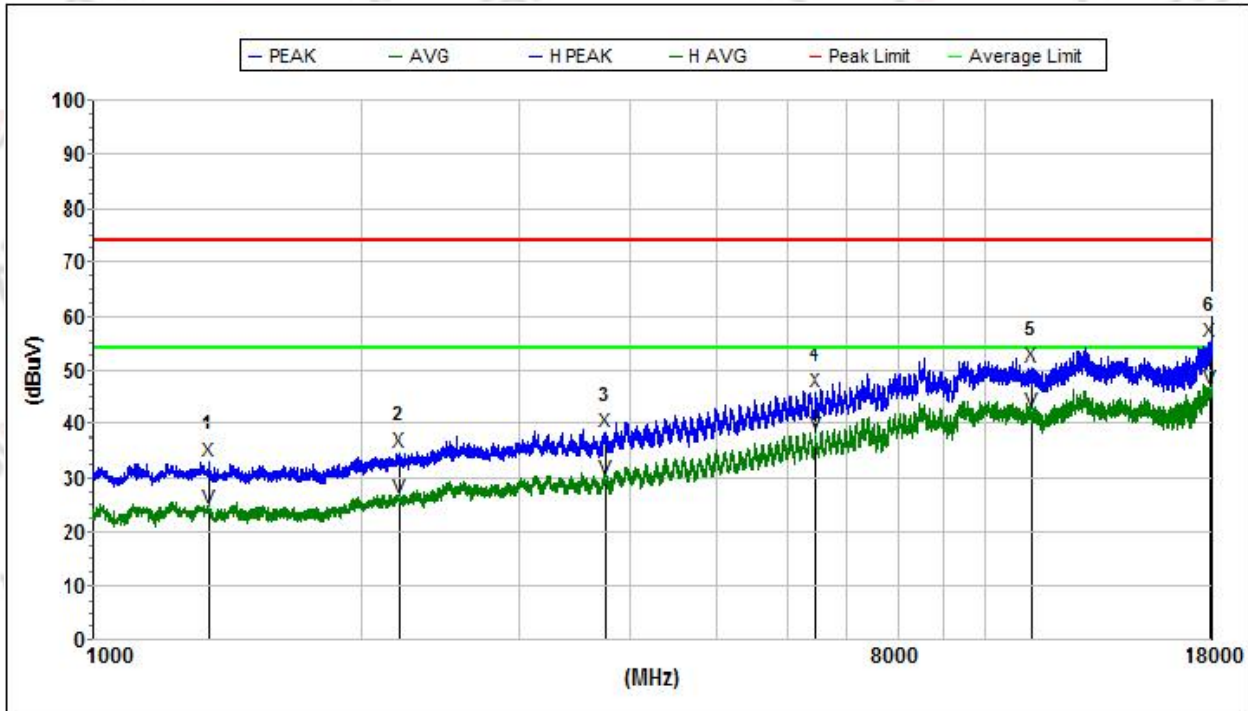


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	43.050457	16.5	40.0	23.5	13.9	32.5	0.8	H
2	78.001995	19.9	40.0	20.1	9.6	32.9	0.9	H
3	129.240983	17.0	43.5	26.5	12.7	32.9	1.4	H
4	199.985568	27.1	43.5	16.4	9.9	32.8	2.3	H
5	334.272302	15.4	46.0	30.6	13.2	32.6	2.7	H
6	559.710646	40.1	46.0	5.9	15.5	32.4	3.1	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n20		

5200 Horizontal

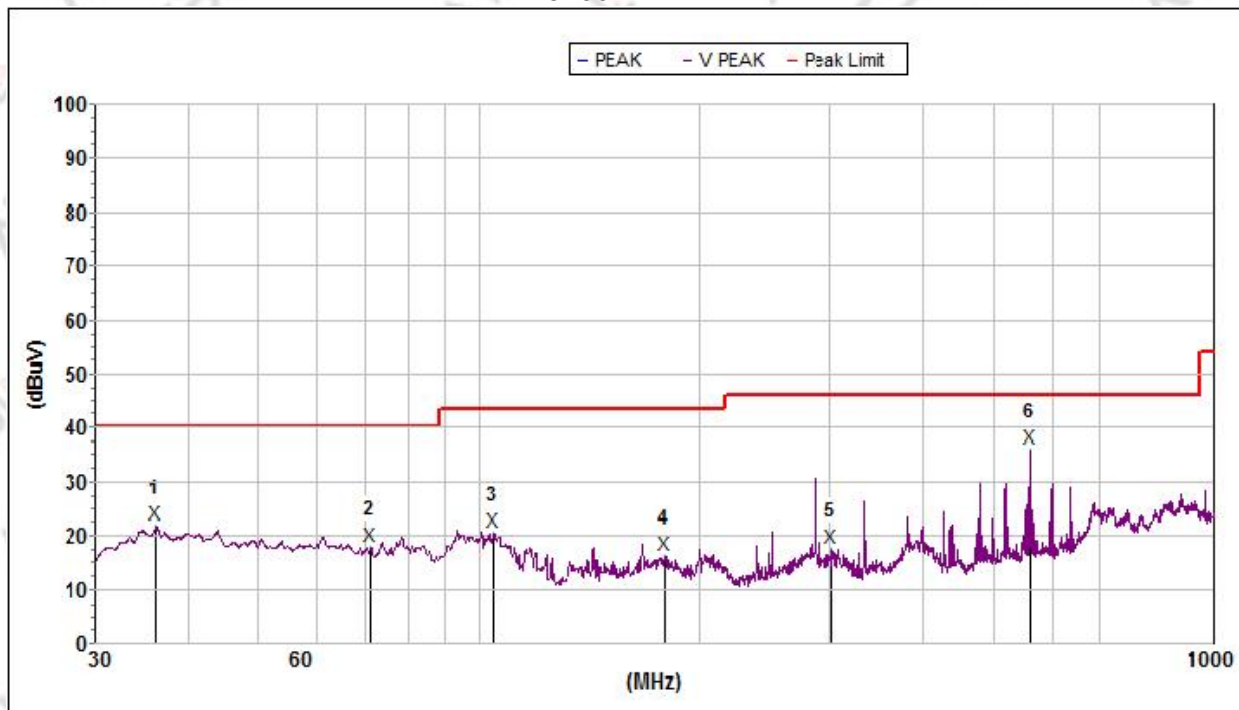


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1350.200000	33.1	74.0	40.9	25.7	61.2	2.3	H
2	2202.750000	35.0	74.0	39.0	27.2	60.5	2.7	H
3	3751.450000	38.4	74.0	35.6	30.2	58.9	3.2	H
4	6452.750000	45.9	74.0	28.1	34.8	58.0	4.2	H
5	11267.150000	50.5	74.0	23.5	39.0	61.1	5.7	H
6	17885.250000	55.3	74.0	18.7	41.6	57.7	7.0	H
Avg								
1	1350.200000	24.5	54.0	29.5	25.7	61.2	2.3	H
2	2202.750000	26.2	54.0	27.8	27.2	60.5	2.7	H
3	3751.450000	29.8	54.0	24.2	30.2	58.9	3.2	H
4	6452.750000	37.8	54.0	16.2	34.8	58.0	4.2	H
5	11267.150000	42.4	54.0	11.6	39.0	61.1	5.7	H
6	17885.250000	46.8	54.0	7.2	41.6	57.7	7.0	H

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n20		

5200 Vertical

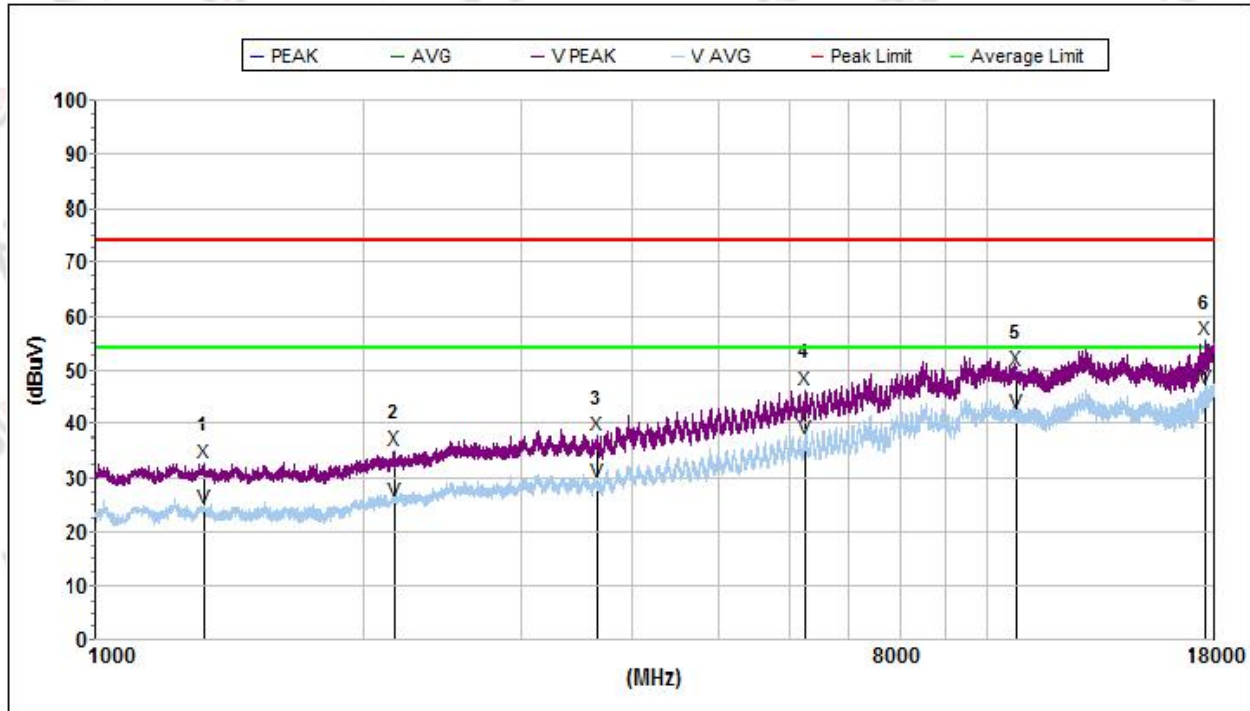


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	36.254065	22.0	40.0	18.0	13.6	32.3	0.8	V
2	71.205061	18.2	40.0	21.8	10.6	32.8	0.8	V
3	104.536051	20.6	43.5	22.9	10.6	32.9	1.4	V
4	178.758432	16.4	43.5	27.1	11.9	32.8	1.9	V
5	301.951303	17.7	46.0	28.3	12.8	32.7	2.7	V
6	559.710646	36.2	46.0	9.8	17.6	32.4	3.1	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n20		

5200 Vertical

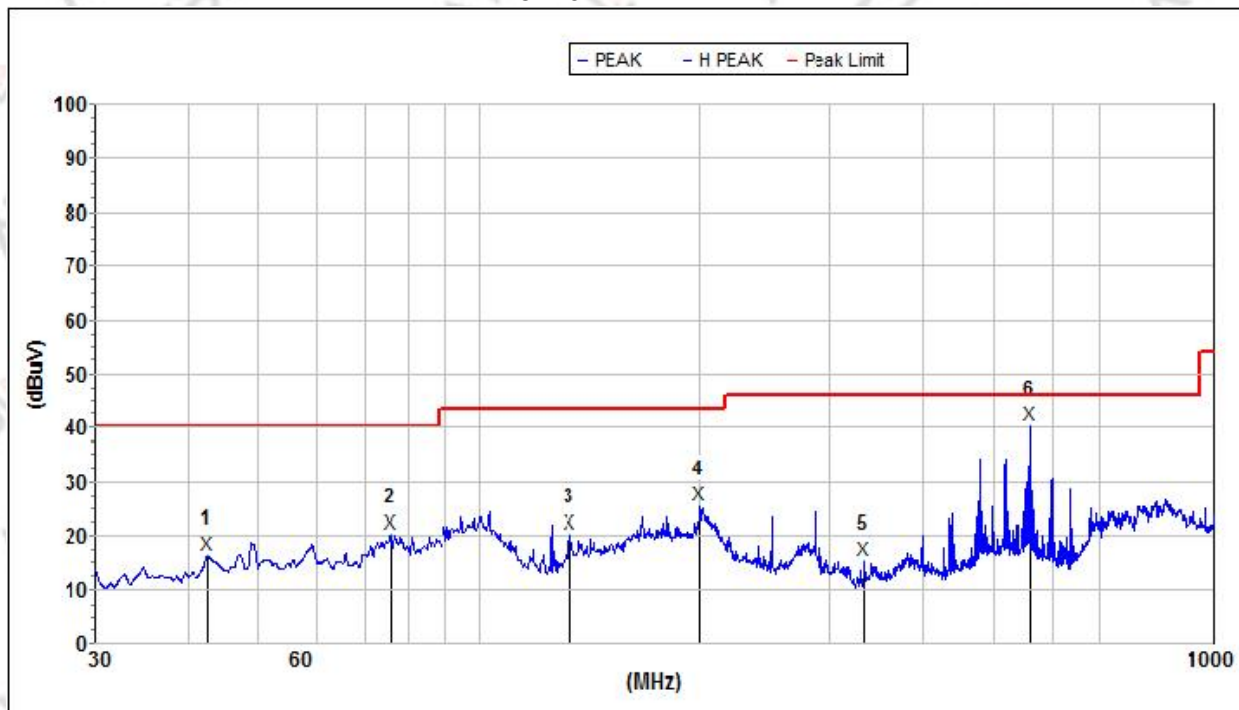


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1323.850000	32.8	74.0	41.2	25.8	61.1	2.3	V
2	2160.250000	35.2	74.0	38.8	27.2	60.7	2.7	V
3	3657.100000	37.8	74.0	36.2	29.7	59.0	3.2	V
4	6249.600000	46.4	74.0	27.6	34.2	58.0	4.2	V
5	10809.850000	50.0	74.0	24.0	38.9	61.1	5.6	V
6	17580.100000	55.5	74.0	18.5	39.7	58.1	6.9	V
Avg								
1	1323.850000	24.2	54.0	29.8	25.8	61.1	2.3	V
2	2160.250000	25.6	54.0	28.4	27.2	60.7	2.7	V
3	3657.100000	29.3	54.0	24.7	29.7	59.0	3.2	V
4	6249.600000	37.3	54.0	16.7	34.2	58.0	4.2	V
5	10809.850000	42.2	54.0	11.8	38.9	61.1	5.6	V
6	17580.100000	46.6	54.0	7.4	39.7	58.1	6.9	V

30MHz - 1GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n20		

5240 Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	42.599954	16.3	40.0	23.7	13.9	32.4	0.8	H
2	75.578767	20.5	40.0	19.5	10.0	32.9	0.9	H
3	132.685004	20.4	43.5	23.1	13.0	32.9	1.4	H
4	199.985568	25.5	43.5	18.0	9.9	32.8	2.3	H
5	334.272302	15.6	46.0	30.4	13.2	32.6	2.7	H
6	559.710646	40.3	46.0	5.7	15.5	32.4	3.1	H