

TEST REPORT

Report No.: SHATBL2302023W02

Applicant : DZS Inc.

Product Name : Optical Network Terminal (ONT)

Brand Name : DZS

Model Name : 5266XG

FCC ID : PJZ5266XG

Test Standard : FCC Part15.407

Date of Test : 2023.02.28-2023.04.01

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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..... 5266XG

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..... 2023.02.27

Date (s) of performance of tests..... 2023.02.28-2023.04.01

Date of Issue..... 2023.04.05

Test Result..... Pass

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
SHATBL2302023W02	Rev. 01	Initial issue of report	Apr. 05, 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	5266XG	
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	V1.0	
Software version number	7.0.022	
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.

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

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)

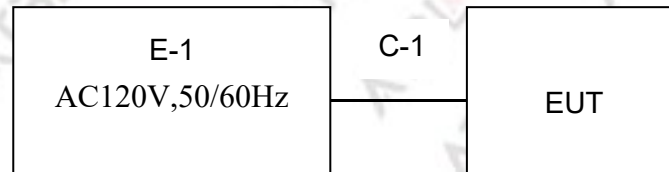
2.3. TEST SOFTWARE AND POWER LEVEL

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

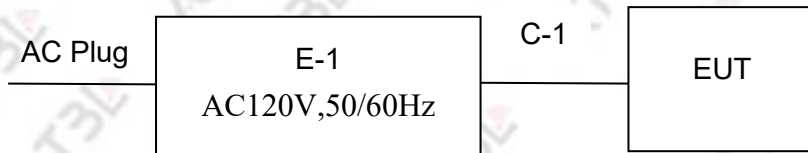
RF Function	Ant No.	Mode Or Modulation type	Ant Gain(dBi)	DG(dBi)	Power Class	Software For Testing
WIFI(5G)	0	802.11a	6.71	8.43	80	QRCT
		802.11n20			80	
		802.11n40			85	
		802.11ac20			80	
		802.11ac40			85	
		802.11ac80			80	
		802.11ac160			80	
		802.11ax20			80	
		802.11ax40			80	
		802.11ax80			80	
		802.11ax160			80	
WIFI(5G)	1	802.11a	3.90		80	
		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	2023.09.27
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.	equipment 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	Agilent	N9020A	MY57300196	SHATBL-W004	2023.09.27
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-C2400-2 483.5-T3	N/A	SHATBL-W021	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.

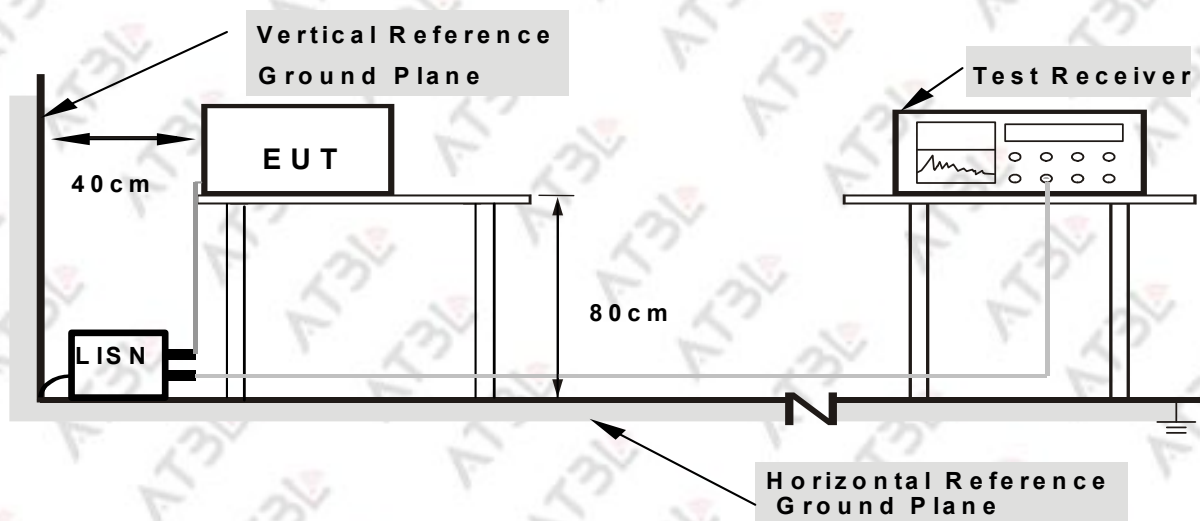
d. LISN at least 80 cm from nearest part of EUT chassis.

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

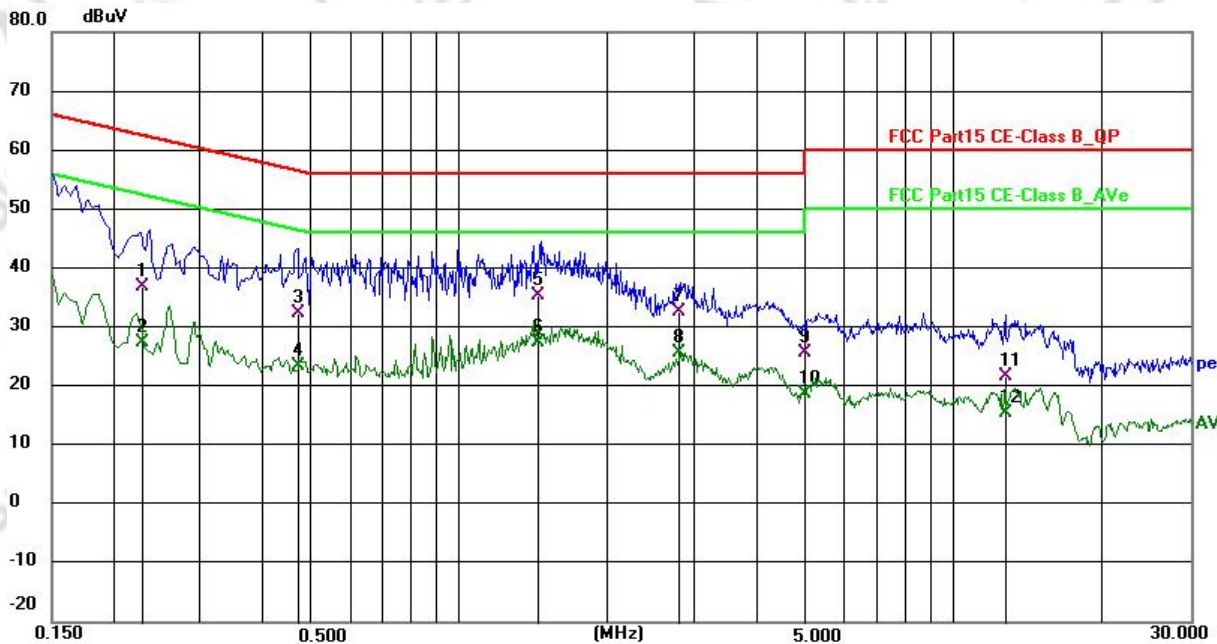
The EUT was configured for testing in a typical fashion (as a customer would normally use it).The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6. TEST RESULTS

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

MODEL1: RD1202000-C55-154MG

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2302	26.15	10.74	36.89	62.44	-25.55	QP
2	0.2302	16.53	10.74	27.27	52.44	-25.17	AVG
3	0.4709	21.70	10.67	32.37	56.50	-24.13	QP
4	0.4709	12.81	10.67	23.48	46.50	-23.02	AVG
5	1.4496	24.67	10.74	35.41	56.00	-20.59	QP
6	1.4496	16.60	10.74	27.34	46.00	-18.66	AVG
7	2.8002	21.92	10.80	32.72	56.00	-23.28	QP
8	2.8002	14.80	10.80	25.60	46.00	-20.40	AVG
9	4.9869	14.88	10.82	25.70	56.00	-30.30	QP
10	4.9869	7.93	10.82	18.75	46.00	-27.25	AVG
11	12.7239	10.94	10.75	21.69	60.00	-38.31	QP
12	12.7239	4.81	10.75	15.56	50.00	-34.44	AVG

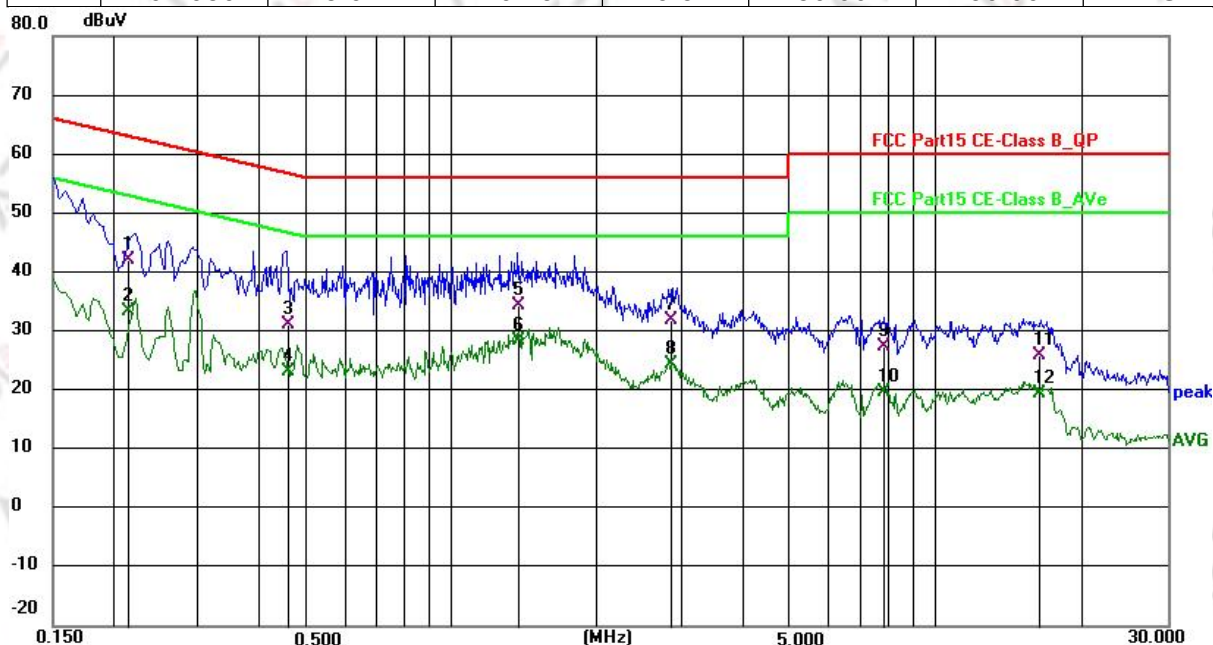


REMARKS:

- (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	0.2157	31.62	10.39	42.01	62.98	-20.97	QP
2	0.2157	22.91	10.39	33.30	52.98	-19.68	AVG
3	0.4601	20.94	10.30	31.24	56.69	-25.45	QP
4	0.4601	12.97	10.30	23.27	46.69	-23.42	AVG
5	1.3834	24.01	10.38	34.39	56.00	-21.61	QP
6	1.3834	18.03	10.38	28.41	46.00	-17.59	AVG
7	2.8541	21.33	10.43	31.76	56.00	-24.24	QP
8	2.8541	13.87	10.43	24.30	46.00	-21.70	AVG
9	7.7982	16.97	10.38	27.35	60.00	-32.65	QP
10	7.7982	9.41	10.38	19.79	50.00	-30.21	AVG
11	16.4080	15.15	10.73	25.88	60.00	-34.12	QP
12	16.4080	8.61	10.73	19.34	50.00	-30.66	AVG



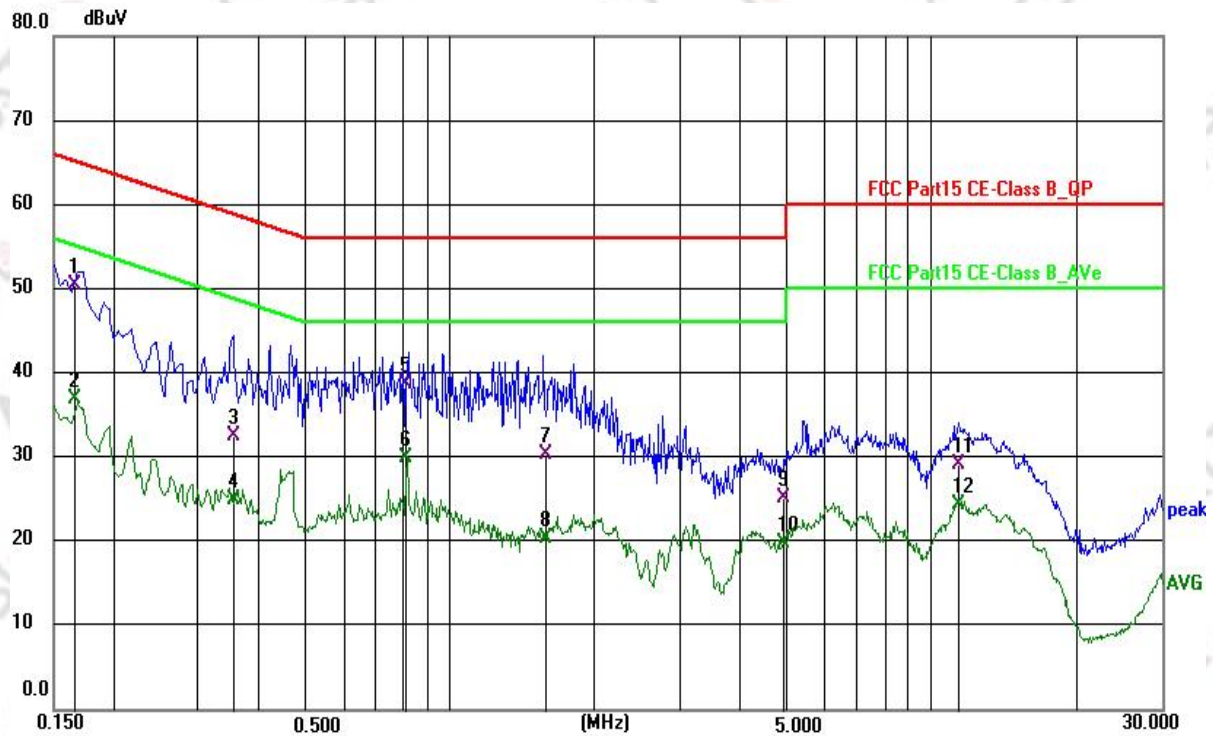
REMARKS:

- (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 :	Mode 44		

MODEL2: TPA289-24120-US

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1660	39.70	10.70	50.40	65.16	-14.76	QP
2	0.1660	26.18	10.70	36.88	55.16	-18.28	AVG
3	0.3541	21.93	10.69	32.62	58.87	-26.25	QP
4	0.3541	14.32	10.69	25.01	48.87	-23.86	AVG
5	0.8149	27.93	10.70	38.63	56.00	-17.37	QP
6	0.8149	19.24	10.70	29.94	46.00	-16.06	AVG
7	1.5861	19.53	10.76	30.29	56.00	-25.71	QP
8	1.5861	9.72	10.76	20.48	46.00	-25.52	AVG
9	4.9586	14.31	10.82	25.13	56.00	-30.87	QP
10	4.9586	9.07	10.82	19.89	46.00	-26.11	AVG
11	11.4196	18.45	10.68	29.13	60.00	-30.87	QP
12	11.4196	13.66	10.68	24.34	50.00	-25.66	AVG

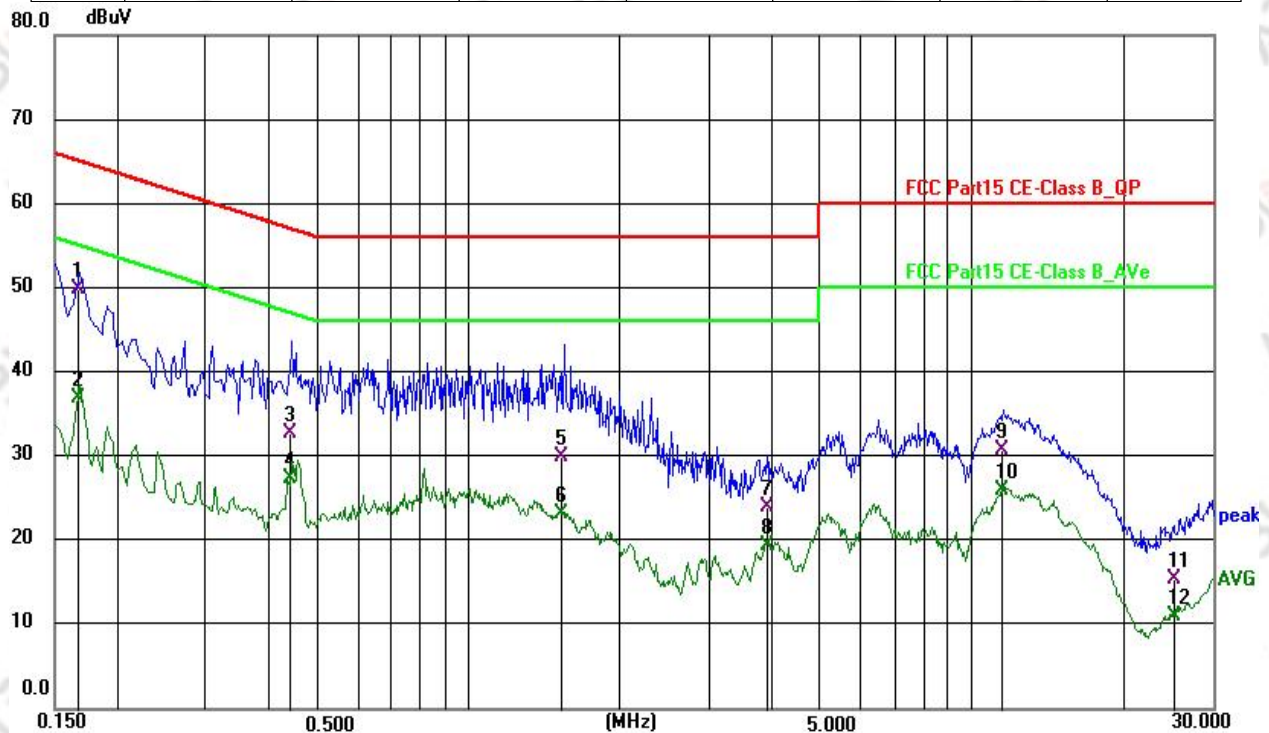


REMARKS:

- (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	0.1669	39.51	10.41	49.92	65.11	-15.19	QP
2	0.1669	26.42	10.41	36.83	55.11	-18.28	AVG
3	0.4387	22.41	10.30	32.71	57.09	-24.38	QP
4	0.4387	17.16	10.30	27.46	47.09	-19.63	AVG
5	1.5252	19.52	10.38	29.90	56.00	-26.10	QP
6	1.5252	12.72	10.38	23.10	46.00	-22.90	AVG
7	3.9148	13.50	10.43	23.93	56.00	-32.07	QP
8	3.9148	8.91	10.43	19.34	46.00	-26.66	AVG
9	11.5413	20.22	10.45	30.67	60.00	-29.33	QP
10	11.5413	15.43	10.45	25.88	50.00	-24.12	AVG
11	25.1522	4.30	11.10	15.40	60.00	-44.60	QP
12	25.1522	-0.07	11.10	11.03	50.00	-38.97	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 (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
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:

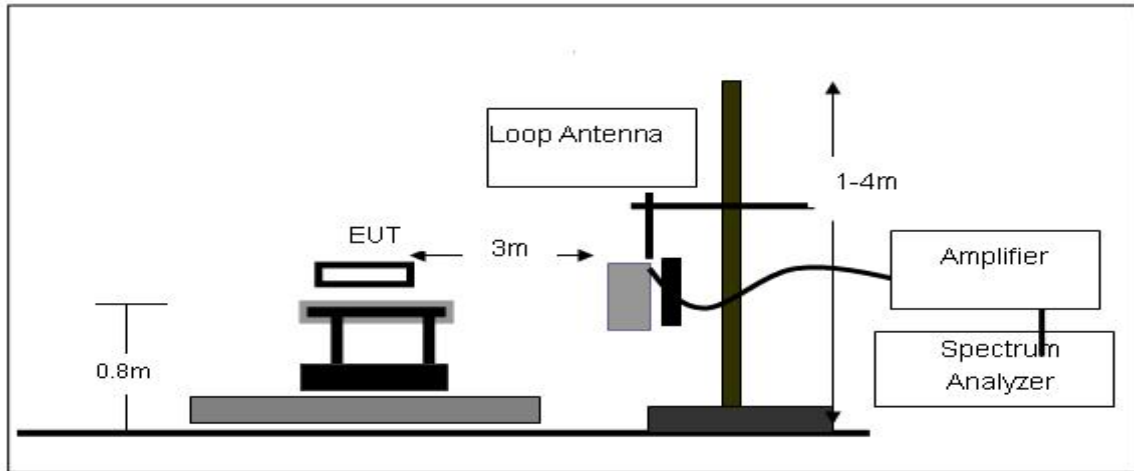
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.2.3. DEVIATION FROM TEST STANDARD

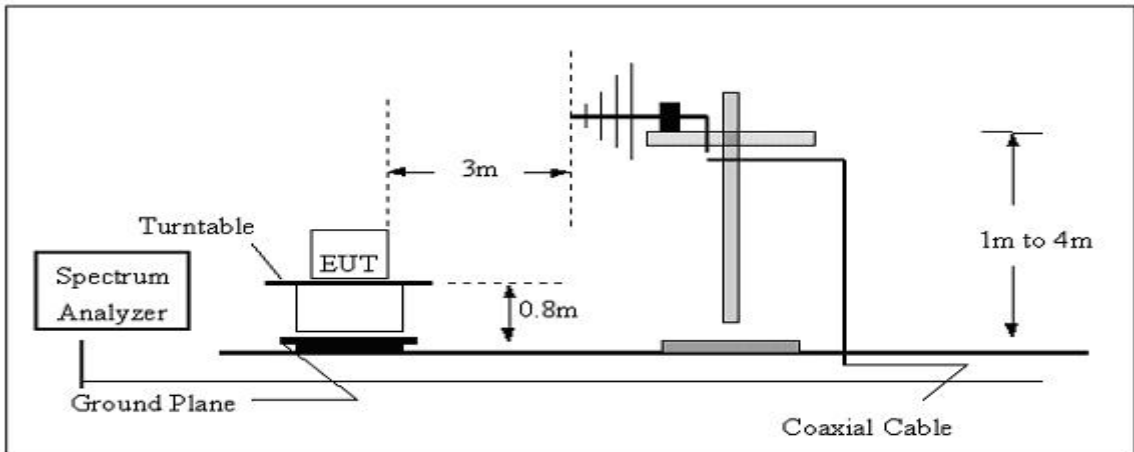
No deviation

3.2.4. TEST SETUP

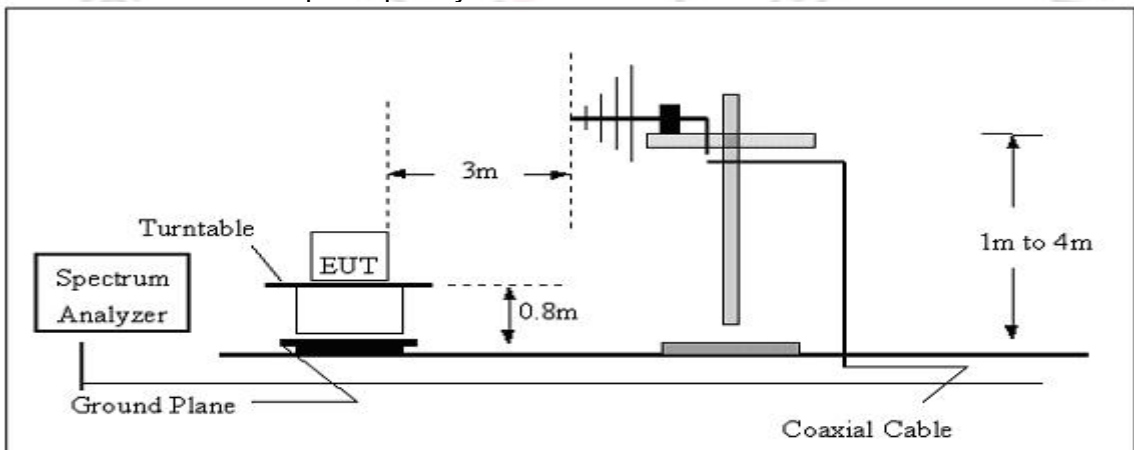
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:

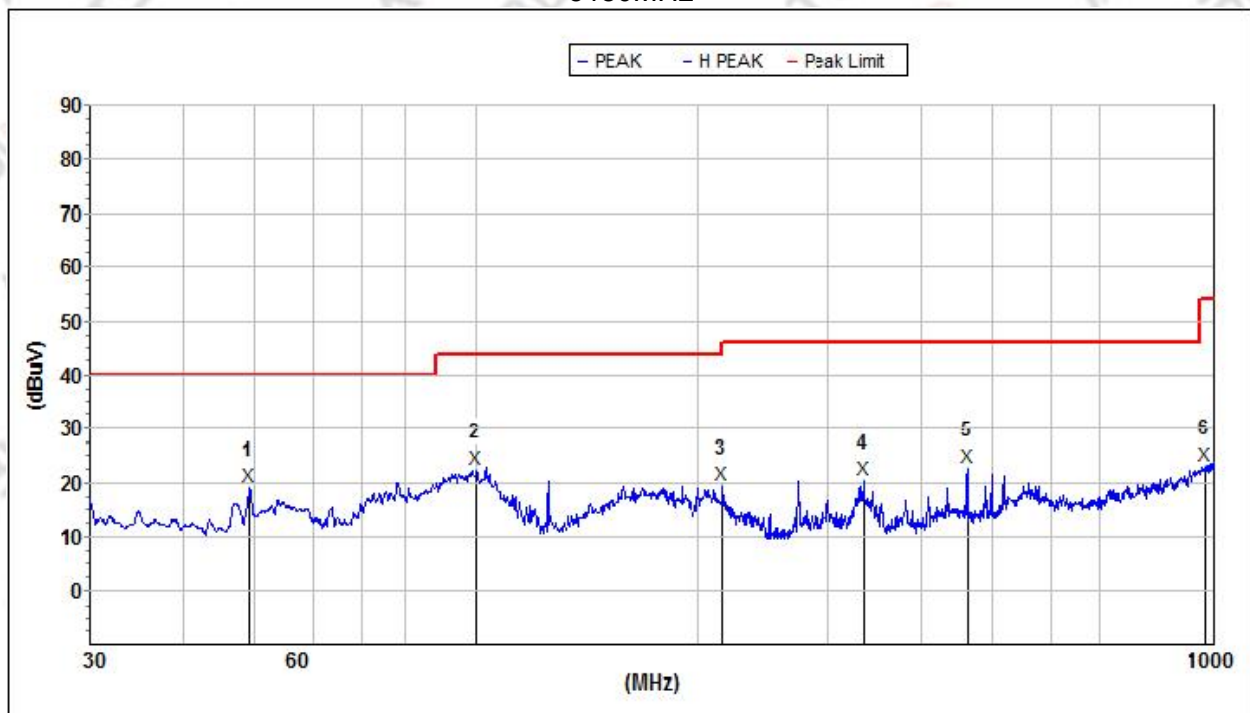
1. The all data rate modes had been test, but only worse test data was recorded in the test report.
2. Other 18G-25G Emission detected are more than 20dB below the limit.therefore they are not reported.

30MHz - 1GHz

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

5150MHz-5250MHz

5180MHz

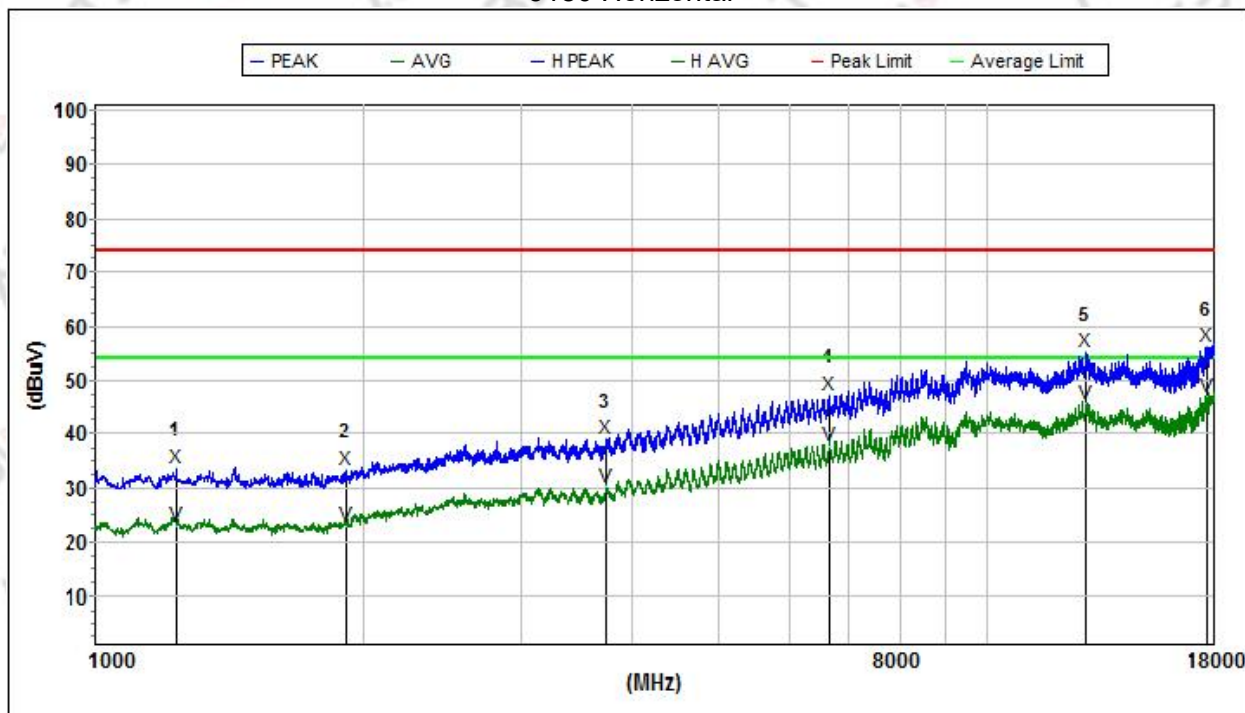


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	19.3	40.0	20.7	13.6	32.6	0.8	H
2	100.228572	22.7	43.5	20.8	10.2	32.9	1.4	H
3	216.023992	19.7	46.0	26.3	10.5	32.8	2.4	H
4	335.446505	20.7	46.0	25.3	13.2	32.6	2.7	H
5	463.156875	22.8	46.0	23.2	14.4	32.4	2.8	H
6	975.752896	23.2	54.0	30.8	20.5	31.1	3.8	H

1GHz - 18GHz

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

5180 Horizontal

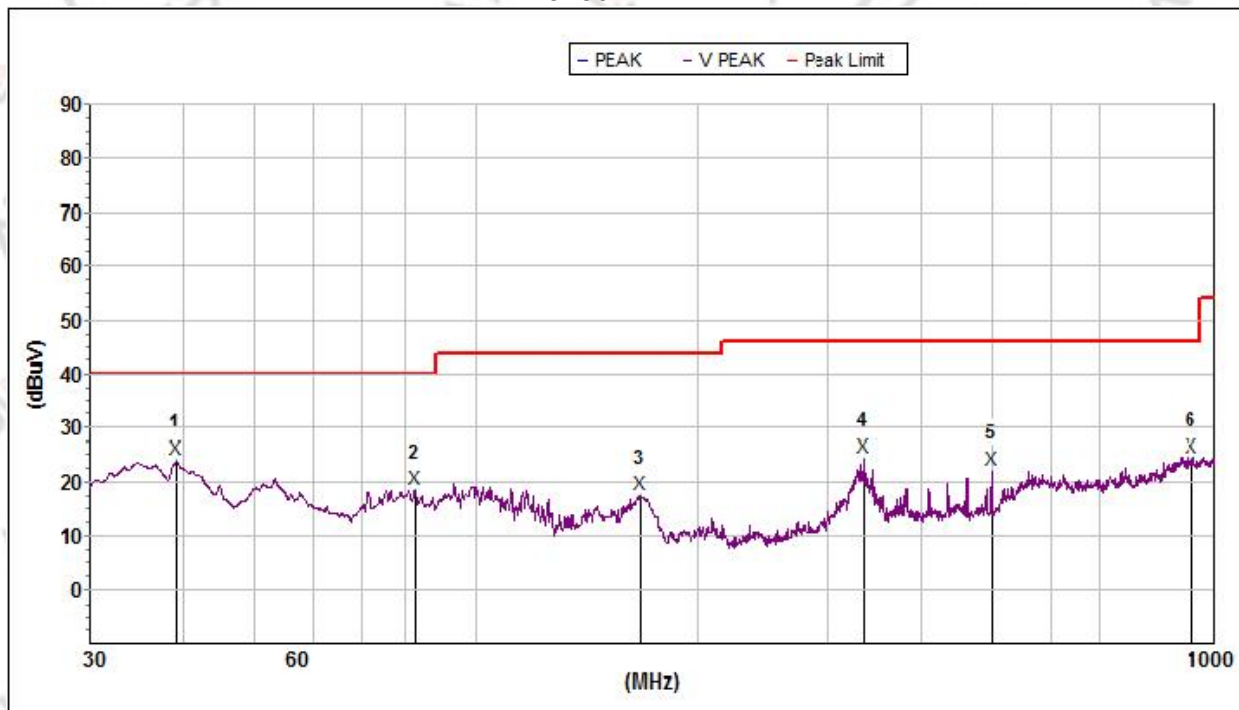


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1231.625000	33.9	74.0	40.1	25.8	60.9	2.3	H
2	1915.875000	33.5	74.0	40.5	25.8	61.0	2.6	H
3	3739.125000	39.1	74.0	34.9	30.1	58.9	3.2	H
4	6667.375000	47.3	74.0	26.7	35.7	58.1	4.3	H
5	12919.125000	55.2	74.0	18.8	39.7	57.8	6.1	H
6	17687.625000	56.2	74.0	17.8	40.4	57.9	6.9	H
Avg								
1	1231.625000	22.9	54.0	31.1	25.8	60.9	2.3	H
2	1915.875000	23.2	54.0	30.8	25.8	61.0	2.6	H
3	3739.125000	30.2	54.0	23.8	30.1	58.9	3.2	H
4	6667.375000	37.9	54.0	16.1	35.7	58.1	4.3	H
5	12919.125000	45.6	54.0	8.4	39.7	57.8	6.1	H
6	17687.625000	47.1	54.0	6.9	40.4	57.9	6.9	H

30MHz - 1GHz

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

5180 Vertical

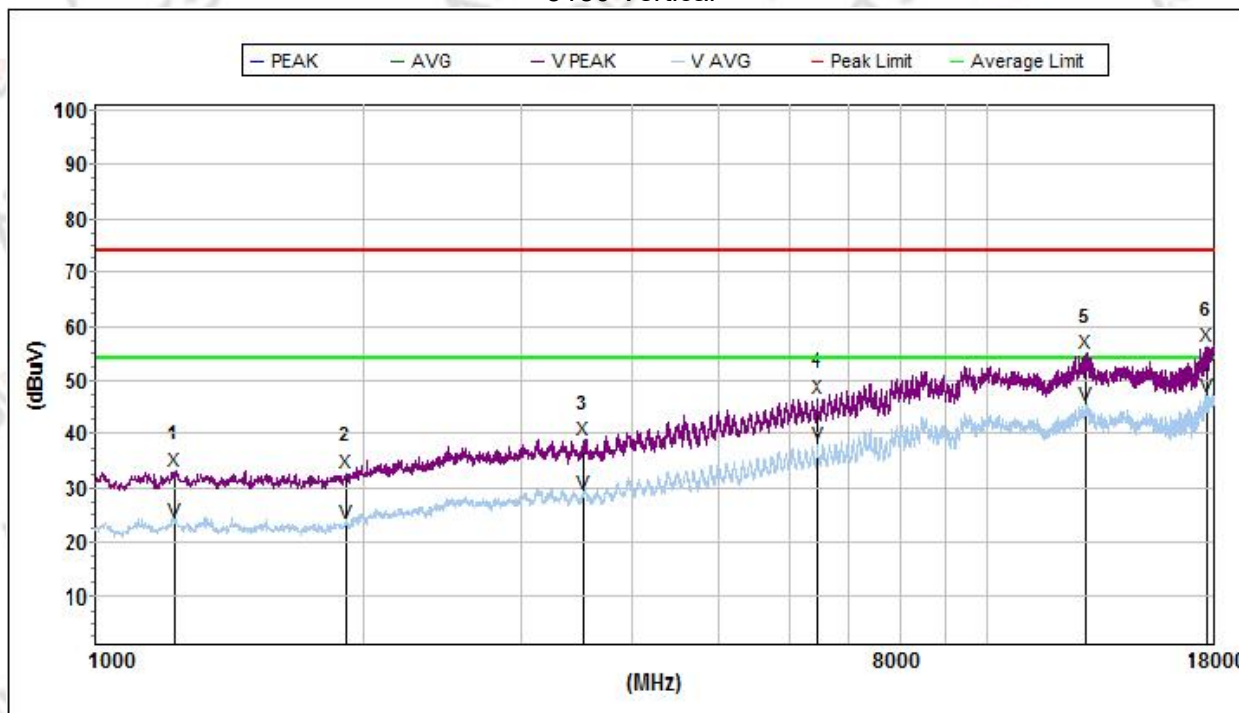


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	39.161565	24.1	40.0	15.9	14.0	32.4	0.8	V
2	82.358861	18.7	40.0	21.3	9.3	32.9	1.0	V
3	166.651398	17.7	43.5	25.8	13.5	32.9	1.7	V
4	335.446505	24.7	46.0	21.3	13.5	32.6	2.7	V
5	499.424690	22.3	46.0	23.7	16.5	32.5	2.8	V
6	930.638437	24.7	46.0	21.3	21.9	31.4	3.7	V

1GHz - 18GHz

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

5180 Vertical

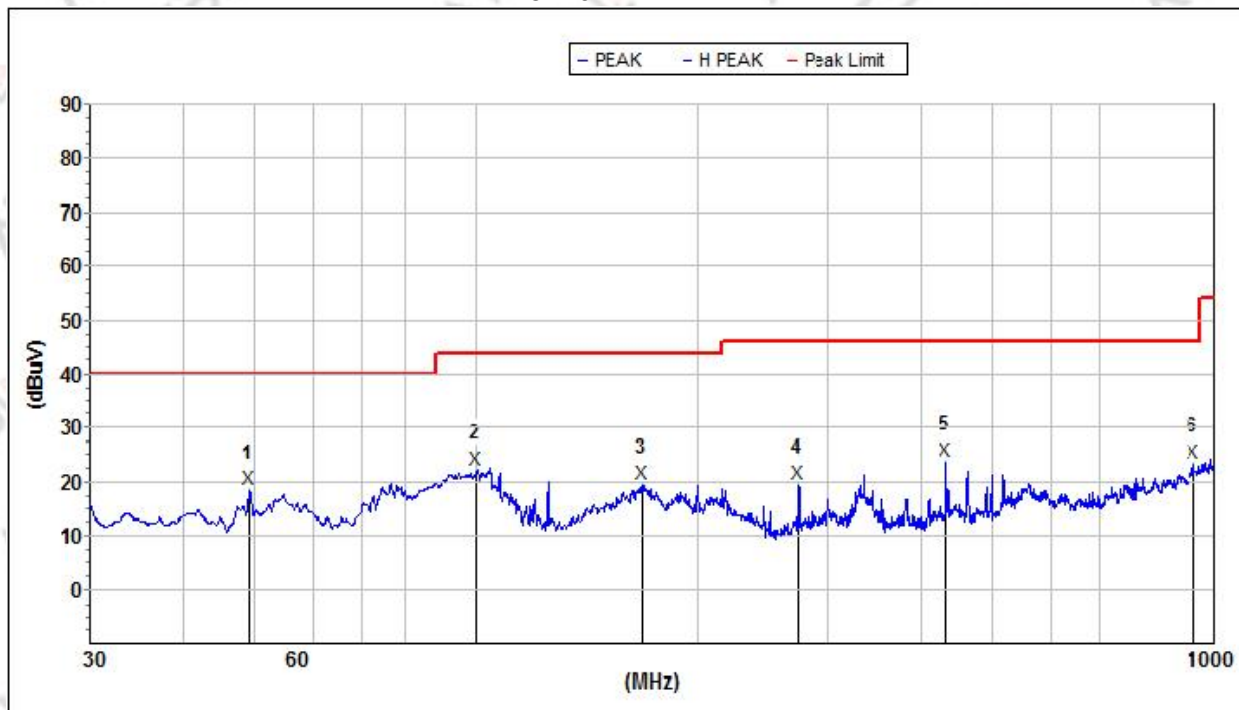


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1227.375000	33.4	74.0	40.6	25.8	60.9	2.3	V
2	1910.649571	32.8	74.0	41.2	25.7	61.0	2.6	V
3	3537.250000	38.8	74.0	35.2	29.5	59.0	3.1	V
4	6454.875000	46.6	74.0	27.4	34.8	58.0	4.2	V
5	12931.875000	55.0	74.0	19.0	39.7	57.8	6.1	V
6	17683.375000	56.1	74.0	17.9	40.4	57.9	6.9	V
Avg								
1	1227.375000	23.8	54.0	30.2	25.8	60.9	2.3	V
2	1910.649571	23.5	54.0	30.5	25.7	61.0	2.6	V
3	3537.250000	29.0	54.0	25.0	29.5	59.0	3.1	V
4	6454.875000	37.7	54.0	16.3	34.8	58.0	4.2	V
5	12931.875000	45.4	54.0	8.6	39.7	57.8	6.1	V
6	17683.375000	47.1	54.0	6.9	40.4	57.9	6.9	V

30MHz - 1GHz

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

5240 Horizontal

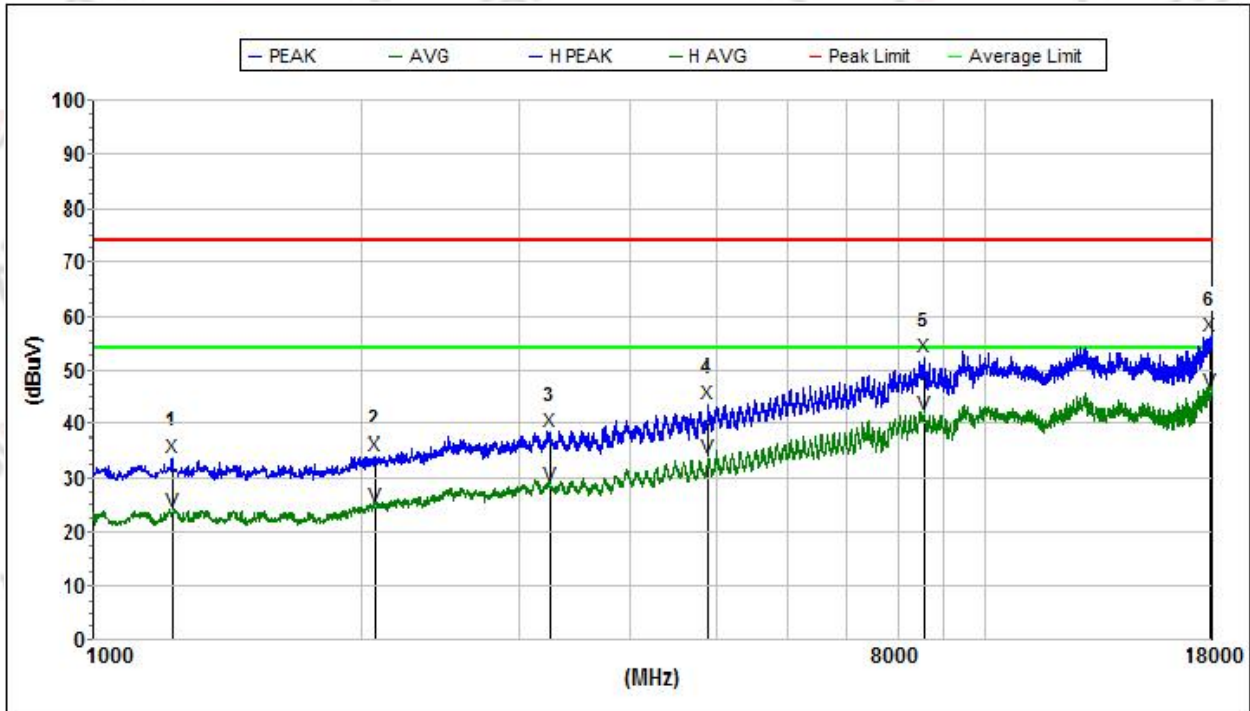


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	18.7	40.0	21.3	13.6	32.6	0.8	H
2	100.228572	22.2	43.5	21.3	10.2	32.9	1.4	H
3	168.118752	19.5	43.5	24.0	13.4	32.9	1.7	H
4	272.755442	19.7	46.0	26.3	12.2	32.7	2.6	H
5	433.304719	24.0	46.0	22.0	14.2	32.4	2.7	H
6	937.188052	23.4	46.0	22.6	20.1	31.4	3.7	H

1GHz - 18GHz

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

5240 Horizontal

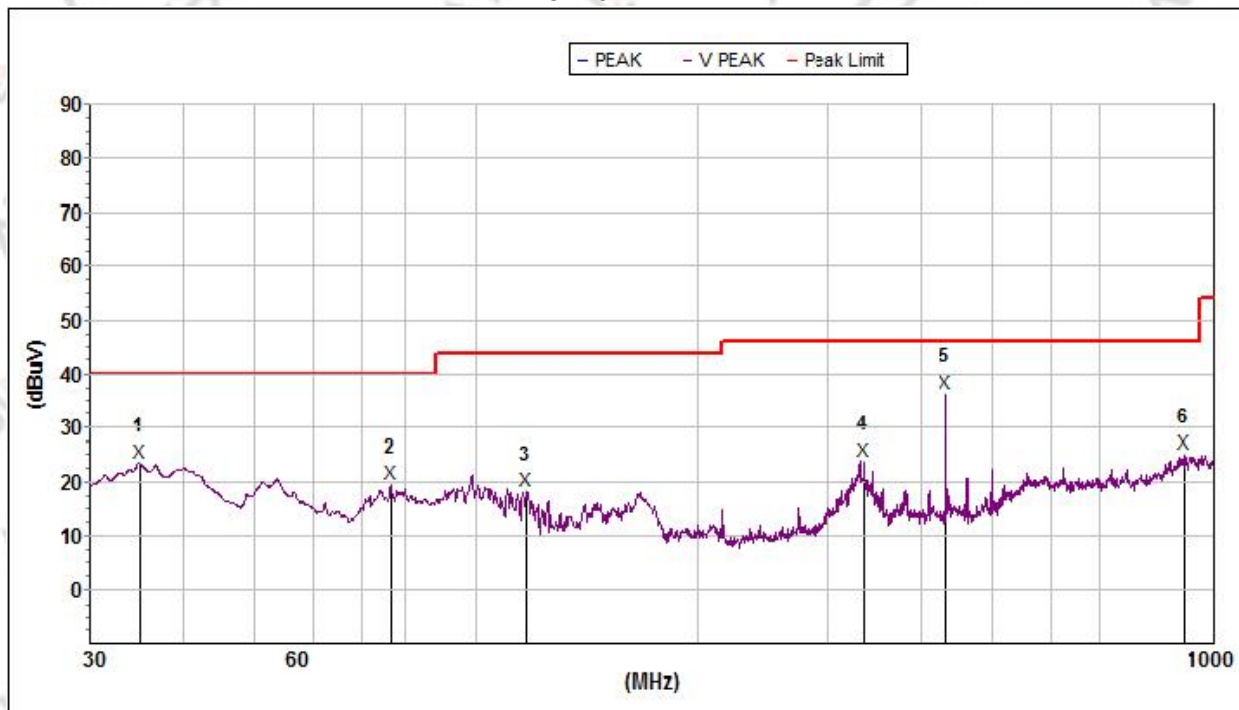


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1223.125000	33.8	74.0	40.2	25.7	60.9	2.3	H
2	2073.125000	34.2	74.0	39.8	27.0	60.9	2.7	H
3	3241.875000	38.6	74.0	35.4	29.7	58.4	3.0	H
4	4903.625000	43.7	74.0	30.3	32.7	57.4	3.6	H
5	8528.875000	52.2	74.0	21.8	37.7	56.1	5.1	H
6	17883.125000	56.4	74.0	17.6	41.6	57.7	7.0	H
Avg								
1	1223.125000	23.7	54.0	30.3	25.7	60.9	2.3	H
2	2073.125000	24.7	54.0	29.3	27.0	60.9	2.7	H
3	3241.875000	28.7	54.0	25.3	29.7	58.4	3.0	H
4	4903.625000	34.0	54.0	20.0	32.7	57.4	3.6	H
5	8528.875000	41.9	54.0	12.1	37.7	56.1	5.1	H
6	17883.125000	46.2	54.0	7.8	41.6	57.7	7.0	H

30MHz - 1GHz

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

5240 Vertical

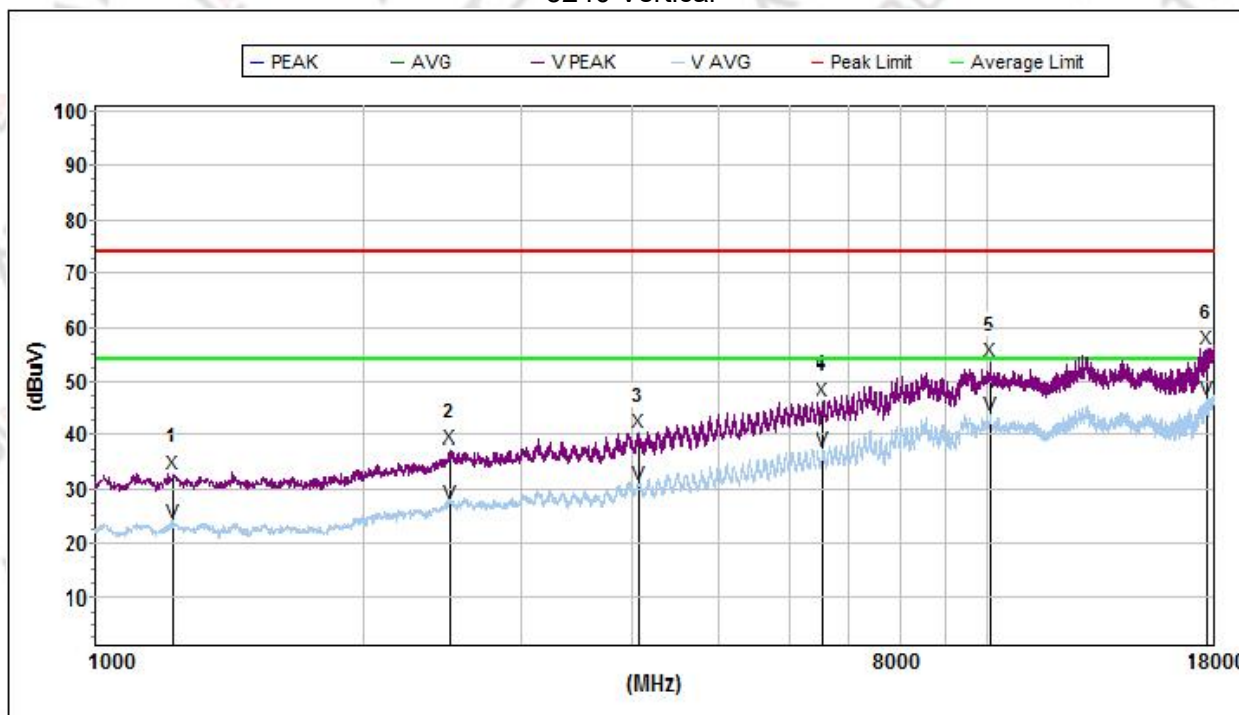


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	34.943506	23.5	40.0	16.5	13.4	32.2	0.8	V
2	76.512057	19.5	40.0	20.5	9.8	32.9	0.9	V
3	116.744591	18.3	43.5	25.2	11.9	32.9	1.4	V
4	335.446505	23.9	46.0	22.1	13.5	32.6	2.7	V
5	433.304719	36.3	46.0	9.7	15.6	32.4	2.7	V
6	906.482439	25.1	46.0	20.9	21.7	31.6	3.7	V

1GHz - 18GHz

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

5240 Vertical

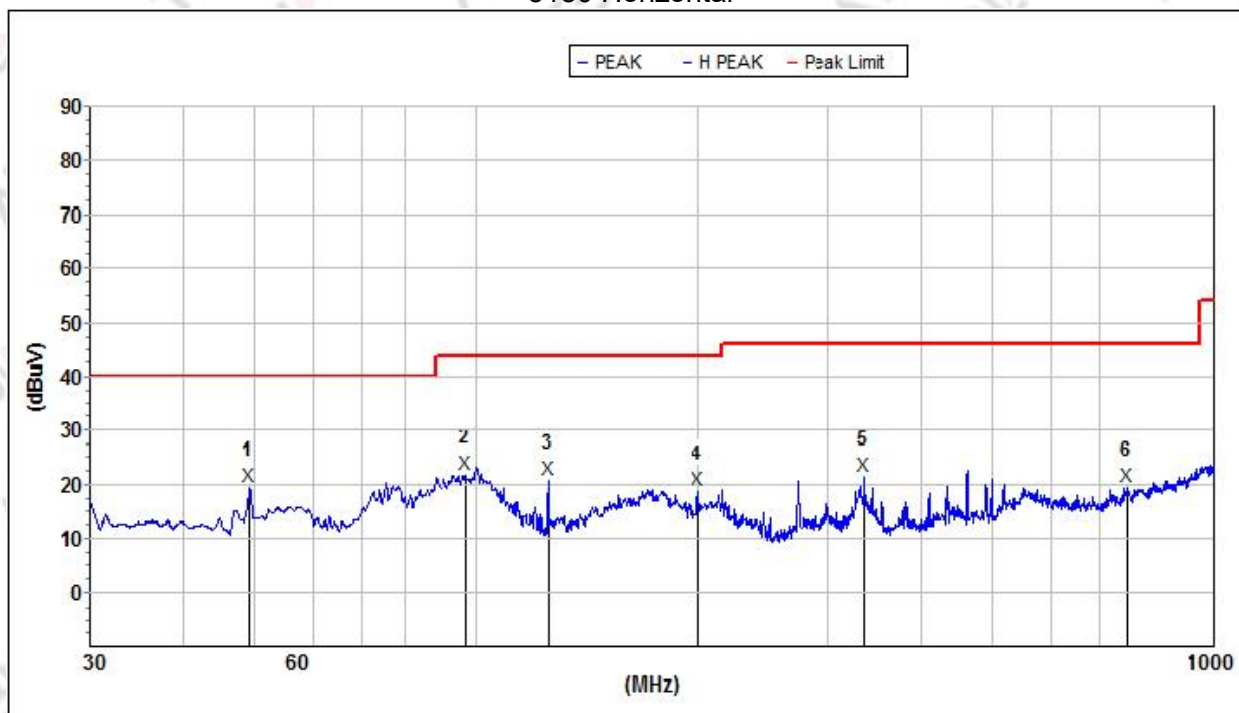


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1218.510449	33.0	74.0	41.0	25.7	60.9	2.3	V
2	2508.034843	37.6	74.0	36.4	27.8	58.8	2.8	V
3	4059.694440	40.5	74.0	33.5	30.8	58.3	3.3	V
4	6559.467471	46.5	74.0	27.5	35.3	58.0	4.2	V
5	10104.895398	53.6	74.0	20.4	38.6	60.4	5.4	V
6	17684.140675	56.0	74.0	18.0	40.4	57.9	6.9	V
Avg								
1	1218.510449	23.6	54.0	30.4	25.7	60.9	2.3	V
2	2508.034843	27.4	54.0	26.6	27.8	58.8	2.8	V
3	4059.694440	30.9	54.0	23.1	30.8	58.3	3.3	V
4	6559.467471	37.1	54.0	16.9	35.3	58.0	4.2	V
5	10104.895398	43.7	54.0	10.3	38.6	60.4	5.4	V
6	17684.140675	46.7	54.0	7.3	40.4	57.9	6.9	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac20		

5180 Horizontal

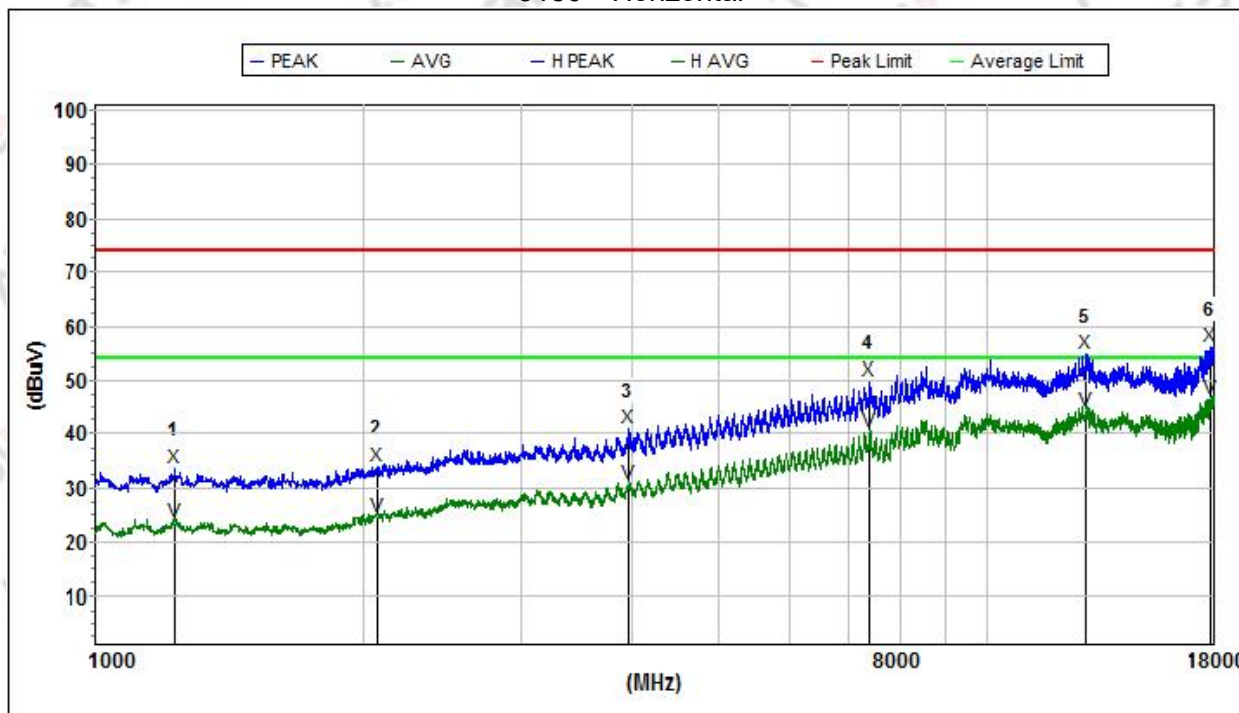


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	19.6	40.0	20.4	13.6	32.6	0.8	H
2	96.774905	21.9	43.5	21.6	9.9	32.9	1.3	H
3	125.006589	20.8	43.5	22.7	12.5	32.9	1.4	H
4	199.635245	19.1	43.5	24.4	9.9	32.8	2.3	H
5	335.446505	21.7	46.0	24.3	13.2	32.6	2.7	H
6	763.375709	19.6	46.0	26.4	17.6	32.2	3.6	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac20		

5180 Horizontal

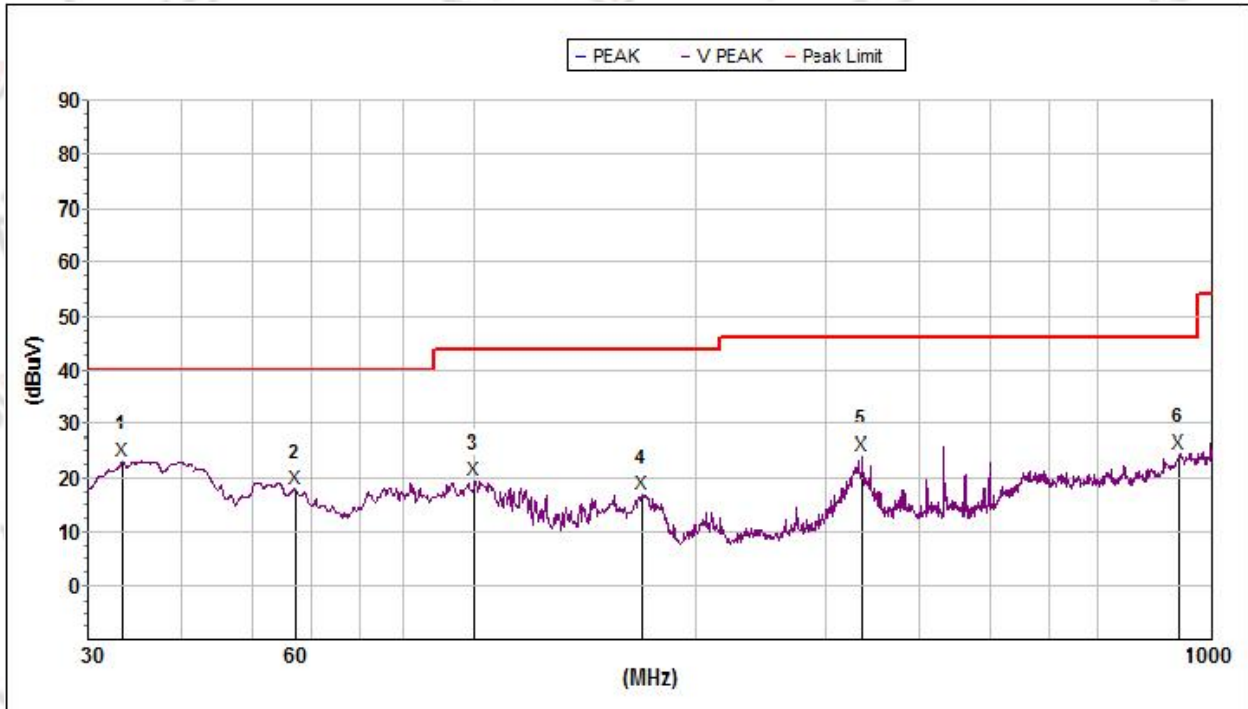


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1225.250000	34.0	74.0	40.0	25.8	60.9	2.3	H
2	2073.125000	34.1	74.0	39.9	27.0	60.9	2.7	H
3	3962.250000	41.2	74.0	32.8	30.8	58.5	3.3	H
4	7392.000000	49.9	74.0	24.1	36.6	57.5	4.6	H
5	12914.875000	54.9	74.0	19.1	39.7	57.8	6.1	H
6	17804.500000	56.1	74.0	17.9	41.1	57.8	7.0	H
Avg								
1	1225.250000	23.6	54.0	30.4	25.8	60.9	2.3	H
2	2073.125000	24.6	54.0	29.4	27.0	60.9	2.7	H
3	3962.250000	31.0	54.0	23.0	30.8	58.5	3.3	H
4	7392.000000	40.6	54.0	13.4	36.6	57.5	4.6	H
5	12914.875000	44.3	54.0	9.7	39.7	57.8	6.1	H
6	17804.500000	46.8	54.0	7.2	41.1	57.8	7.0	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac20		

5180 Vertical

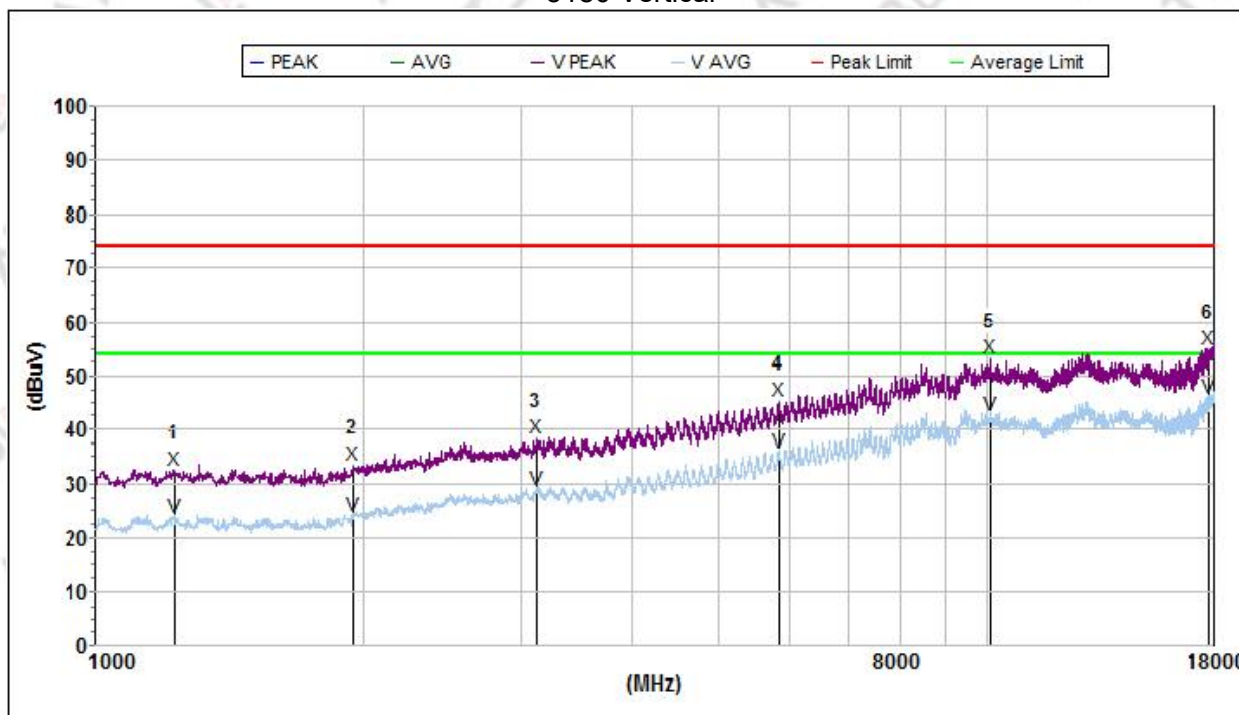


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	33.386359	23.1	40.0	16.9	13.3	32.2	0.8	V
2	57.091244	18.1	40.0	21.9	13.0	32.7	0.8	V
3	100.228572	19.7	43.5	23.8	10.2	32.9	1.4	V
4	169.005359	17.0	43.5	26.5	13.3	32.9	1.7	V
5	335.446505	24.2	46.0	21.8	13.5	32.6	2.7	V
6	898.570586	24.4	46.0	21.6	21.6	31.6	3.6	V

1GHz - 18GHz

Temperature:	23.0℃	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac20		

5180 Vertical

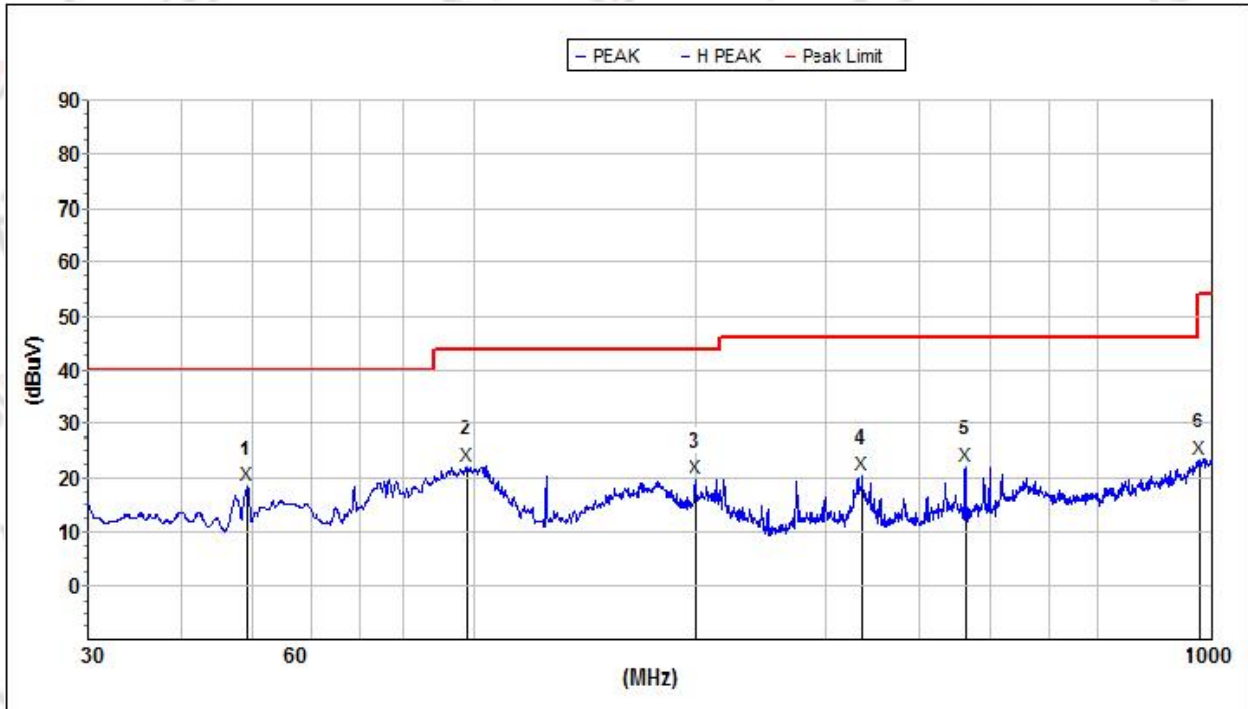


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1222.479089	32.6	74.0	41.4	25.7	60.9	2.3	V
2	1947.588590	33.6	74.0	40.4	26.0	60.9	2.6	V
3	3121.910569	38.5	74.0	35.5	29.7	58.7	3.0	V
4	5834.854707	45.4	74.0	28.6	33.9	58.1	4.1	V
5	10101.245194	53.4	74.0	20.6	38.6	60.4	5.4	V
6	17793.091622	55.0	74.0	19.0	41.1	57.8	7.0	V
Avg								
1	1222.479089	23.6	54.0	30.4	25.7	60.9	2.3	V
2	1947.588590	23.9	54.0	30.1	26.0	60.9	2.6	V
3	3121.910569	29.1	54.0	24.9	29.7	58.7	3.0	V
4	5834.854707	35.7	54.0	18.3	33.9	58.1	4.1	V
5	10101.245194	42.9	54.0	11.1	38.6	60.4	5.4	V
6	17793.091622	46.2	54.0	7.8	41.1	57.8	7.0	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac20		

5240 Horizontal

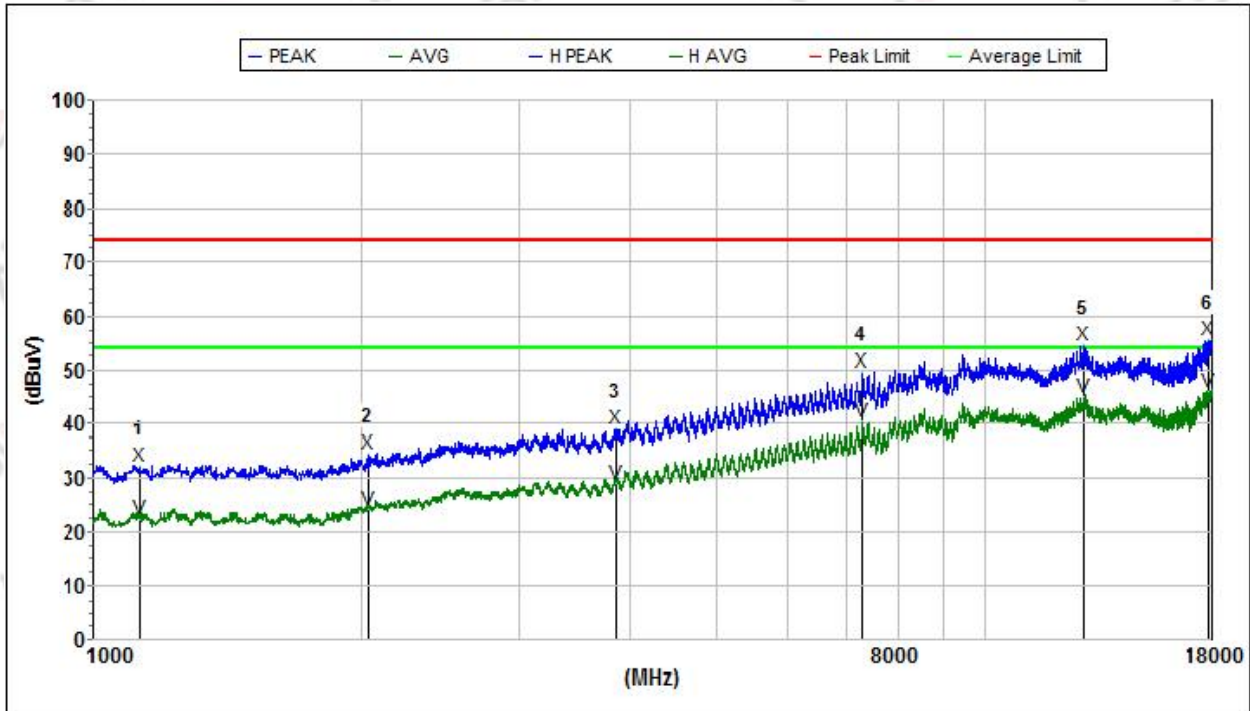


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	18.6	40.0	21.4	13.6	32.6	0.8	H
2	97.798319	22.4	43.5	21.1	10.0	32.9	1.3	H
3	199.985568	20.0	43.5	23.5	9.9	32.8	2.3	H
4	335.446505	20.6	46.0	25.4	13.2	32.6	2.7	H
5	463.969631	22.2	46.0	23.8	14.4	32.4	2.8	H
6	962.162295	23.6	54.0	30.4	20.4	31.2	3.8	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac20		

5240 Horizontal

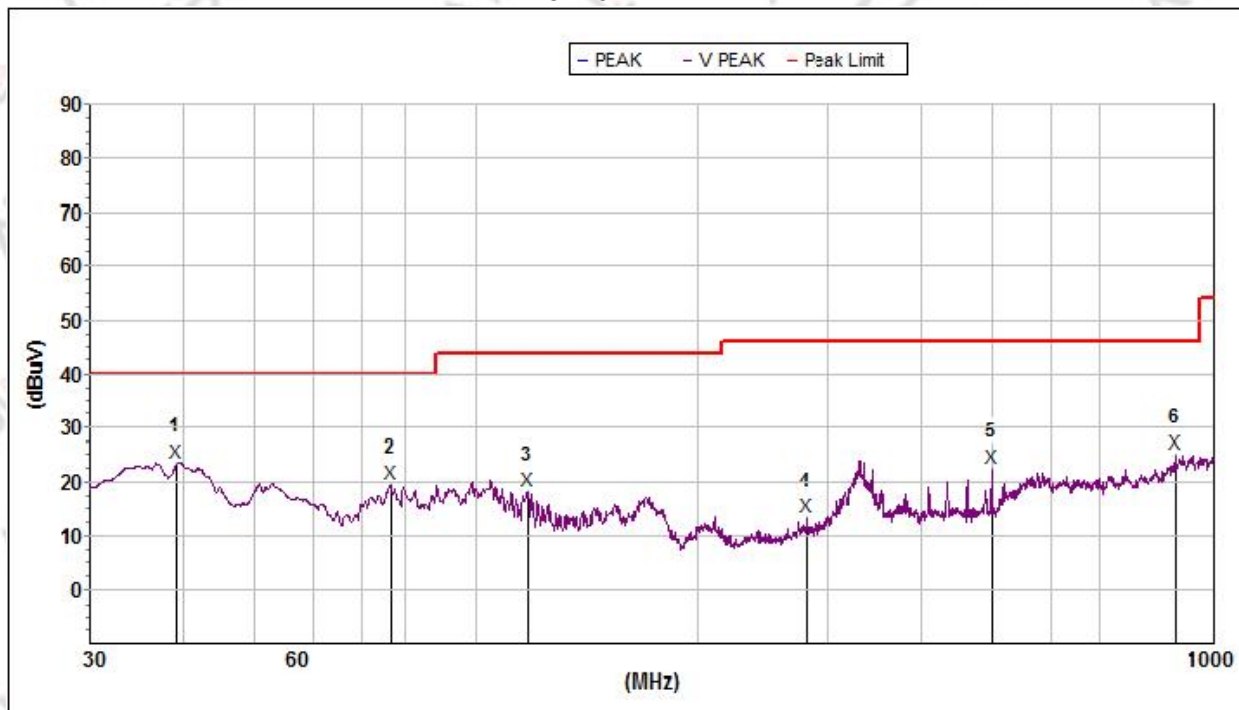


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1125.375000	32.4	74.0	41.6	25.5	60.7	2.2	H
2	2039.125000	34.6	74.0	39.4	26.7	60.9	2.7	H
3	3860.250000	39.0	74.0	35.0	30.6	58.7	3.2	H
4	7290.000000	49.6	74.0	24.4	36.8	57.6	4.5	H
5	12919.125000	54.7	74.0	19.3	39.7	57.8	6.1	H
6	17804.500000	55.6	74.0	18.4	41.1	57.8	7.0	H
Avg								
1	1125.375000	22.5	54.0	31.5	25.5	60.7	2.2	H
2	2039.125000	24.1	54.0	29.9	26.7	60.9	2.7	H
3	3860.250000	29.1	54.0	24.9	30.6	58.7	3.2	H
4	7290.000000	40.4	54.0	13.6	36.8	57.6	4.5	H
5	12919.125000	45.1	54.0	8.9	39.7	57.8	6.1	H
6	17804.500000	45.9	54.0	8.1	41.1	57.8	7.0	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac20		

5240 Vertical

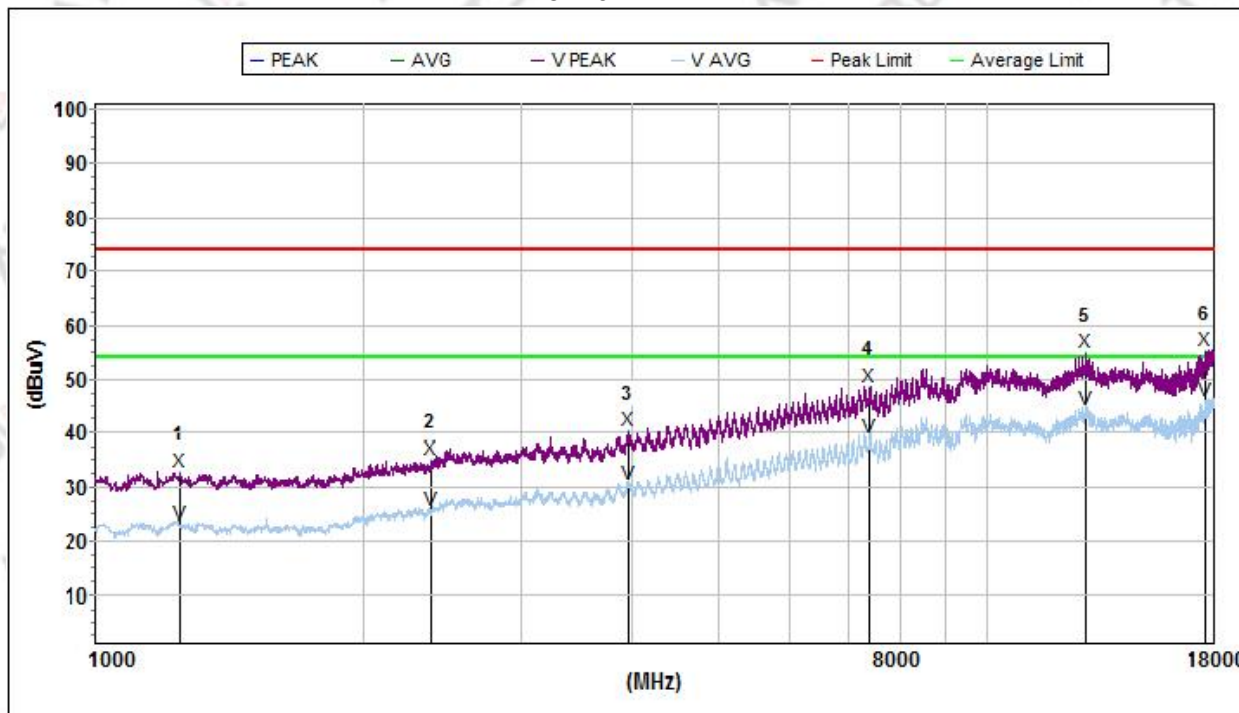


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	39.161565	23.6	40.0	16.4	14.0	32.4	0.8	V
2	76.512057	19.5	40.0	20.5	9.8	32.9	0.9	V
3	117.154681	18.3	43.5	25.2	11.9	32.9	1.4	V
4	280.515236	13.2	46.0	32.8	12.4	32.7	2.6	V
5	499.424690	22.5	46.0	23.5	16.5	32.5	2.8	V
6	882.953443	25.2	46.0	20.8	21.4	31.7	3.6	V

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac20		

5240 Vertical

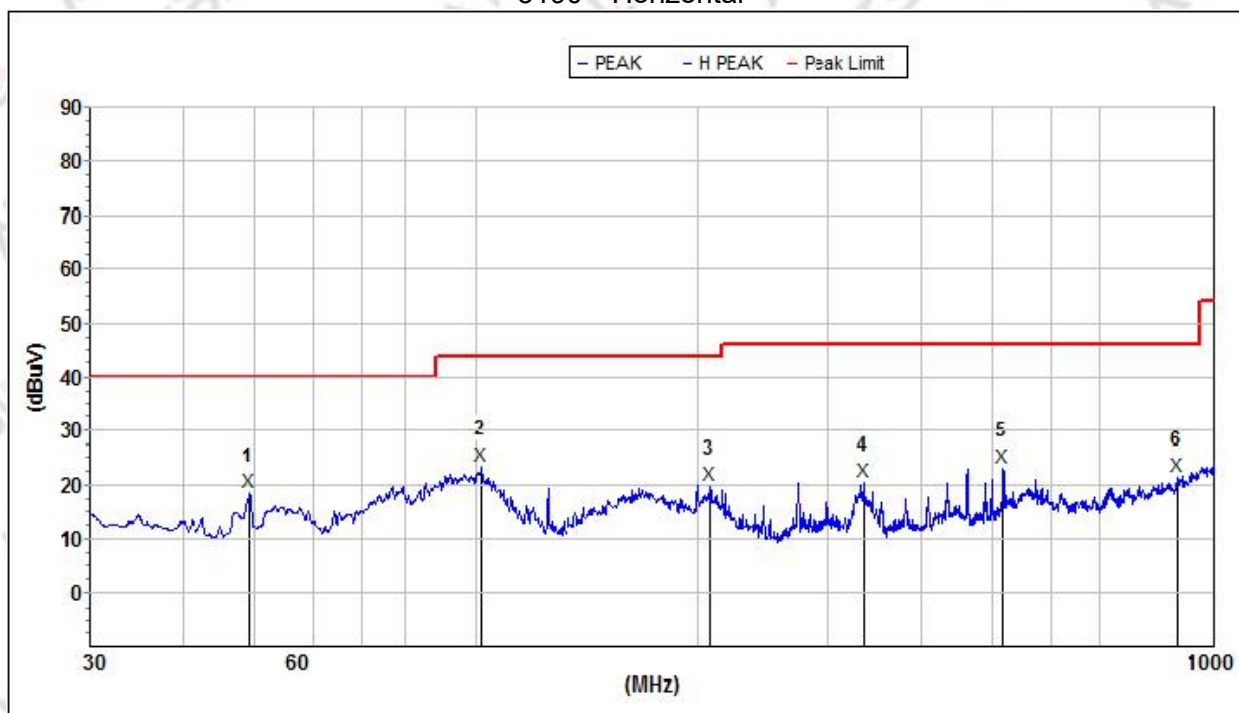


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1240.125000	32.9	74.0	41.1	25.8	60.9	2.3	V
2	2379.125000	35.1	74.0	38.9	27.3	59.6	2.8	V
3	3968.625000	40.5	74.0	33.5	30.8	58.5	3.3	V
4	7394.125000	48.8	74.0	25.2	36.5	57.5	4.6	V
5	12910.625000	54.8	74.0	19.2	39.7	57.8	6.1	V
6	17598.375000	55.2	74.0	18.8	39.9	58.0	6.9	V
Avg								
1	1240.125000	23.0	54.0	31.0	25.8	60.9	2.3	V
2	2379.125000	25.6	54.0	28.4	27.3	59.6	2.8	V
3	3968.625000	30.7	54.0	23.3	30.8	58.5	3.3	V
4	7394.125000	39.3	54.0	14.7	36.5	57.5	4.6	V
5	12910.625000	44.4	54.0	9.6	39.7	57.8	6.1	V
6	17598.375000	46.0	54.0	8.0	39.9	58.0	6.9	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n40		

5190 Horizontal

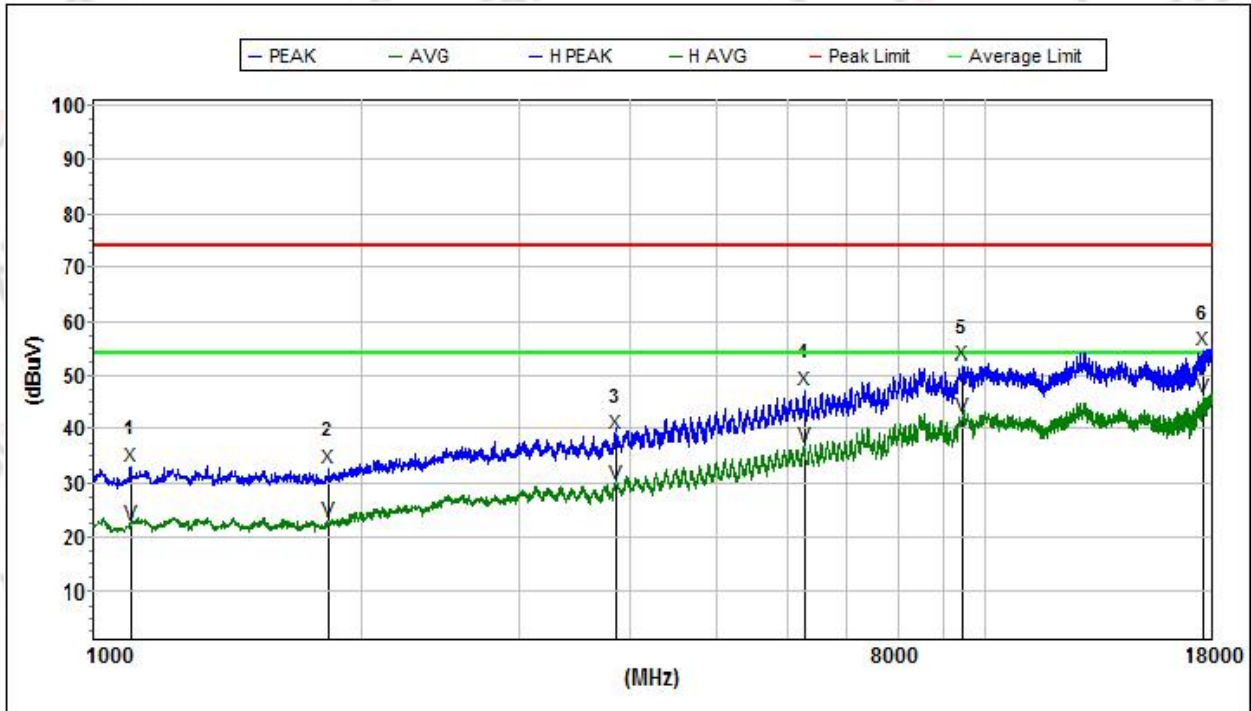


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	18.5	40.0	21.5	13.6	32.6	0.8	H
2	101.644307	23.6	43.5	19.9	10.3	32.9	1.4	H
3	207.486040	19.9	43.5	23.6	10.2	32.8	2.4	H
4	335.446505	20.7	46.0	25.3	13.2	32.6	2.7	H
5	516.341886	23.2	46.0	22.8	14.9	32.4	2.9	H
6	890.727788	21.6	46.0	24.4	19.6	31.7	3.6	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n40		

5190 Horizontal

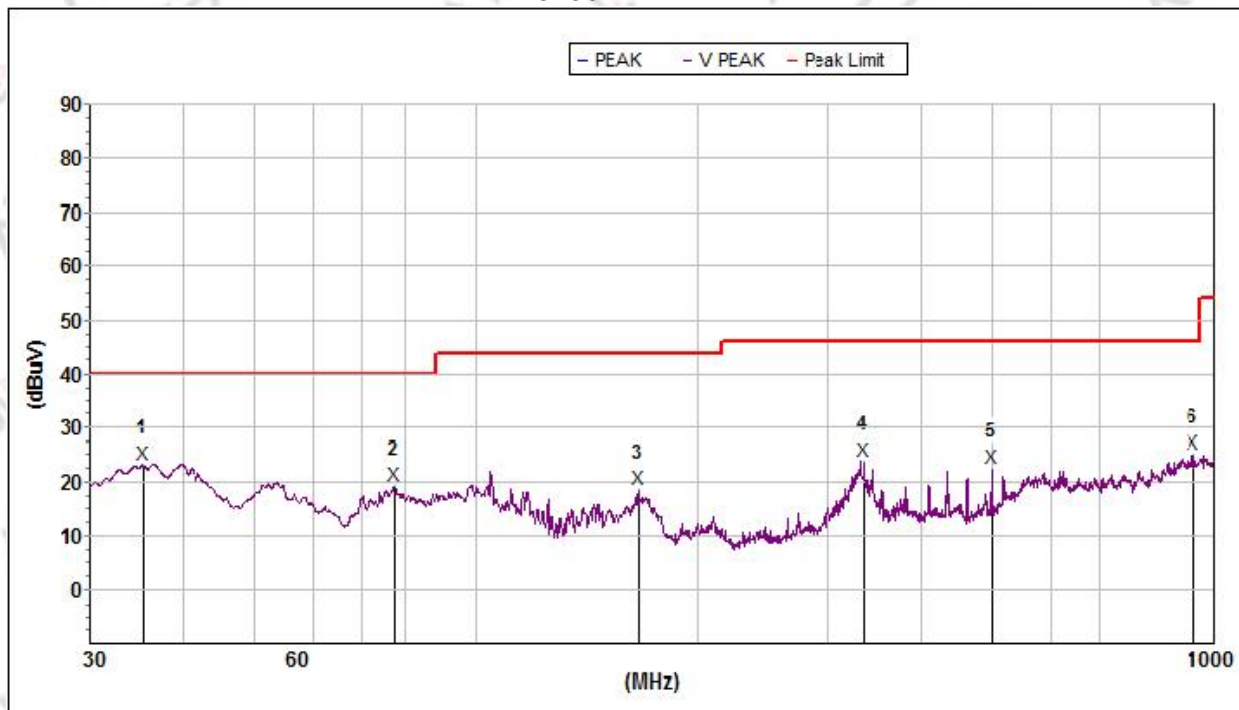


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1099.681917	33.1	74.0	40.9	25.5	60.6	2.2	H
2	1838.860062	32.9	74.0	41.1	25.3	61.2	2.6	H
3	3851.098472	39.1	74.0	34.9	30.6	58.8	3.2	H
4	6256.241365	47.5	74.0	26.5	34.2	58.0	4.2	H
5	9465.232402	52.0	74.0	22.0	38.6	59.7	5.4	H
6	17582.208101	54.5	74.0	19.5	39.8	58.1	6.9	H
Avg								
1	1099.681917	22.4	54.0	31.6	25.5	60.6	2.2	H
2	1838.860062	22.9	54.0	31.1	25.3	61.2	2.6	H
3	3851.098472	30.0	54.0	24.0	30.6	58.8	3.2	H
4	6256.241365	36.7	54.0	17.3	34.2	58.0	4.2	H
5	9465.232402	42.6	54.0	11.4	38.6	59.7	5.4	H
6	17582.208101	46.0	54.0	8.0	39.8	58.1	6.9	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n40		

5190 Vertical

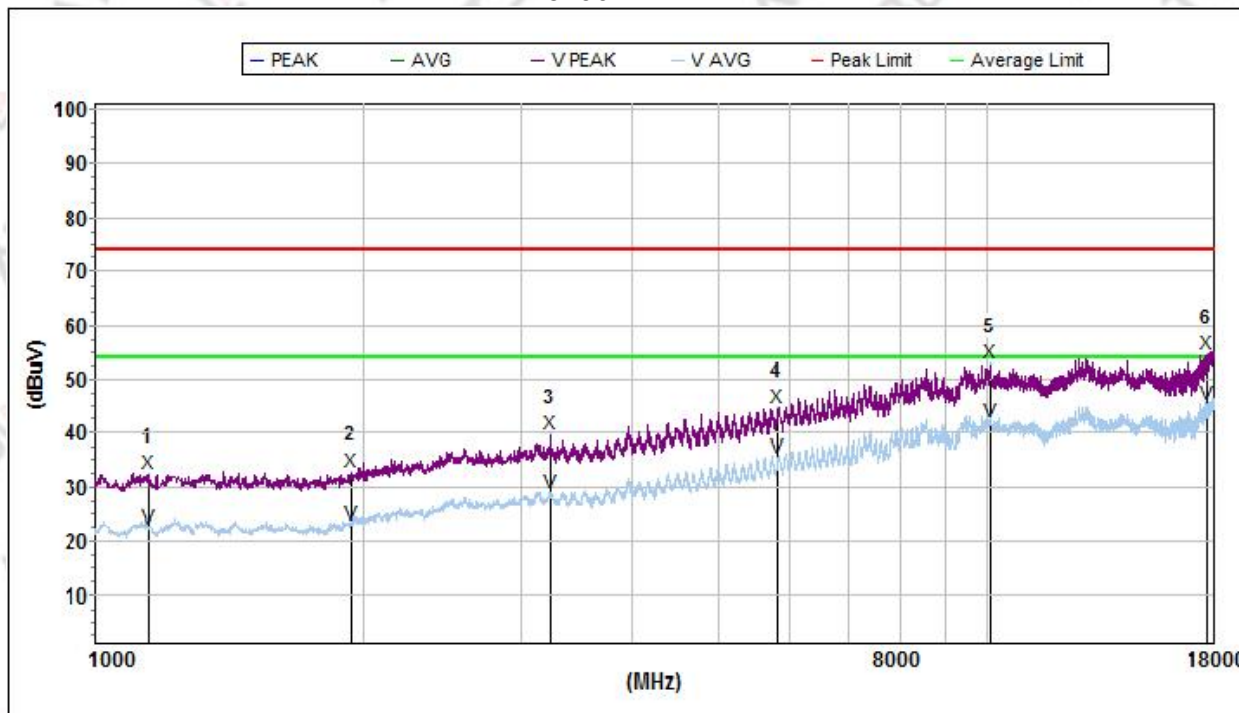


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	35.313041	23.2	40.0	16.8	13.4	32.3	0.8	V
2	77.456872	19.2	40.0	20.8	9.7	32.9	0.9	V
3	165.777140	18.5	43.5	25.0	13.6	32.9	1.7	V
4	335.446505	24.0	46.0	22.0	13.5	32.6	2.7	V
5	499.424690	22.5	46.0	23.5	16.5	32.5	2.8	V
6	937.188052	25.1	46.0	20.9	22.0	31.4	3.7	V

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n40		

5190 Vertical

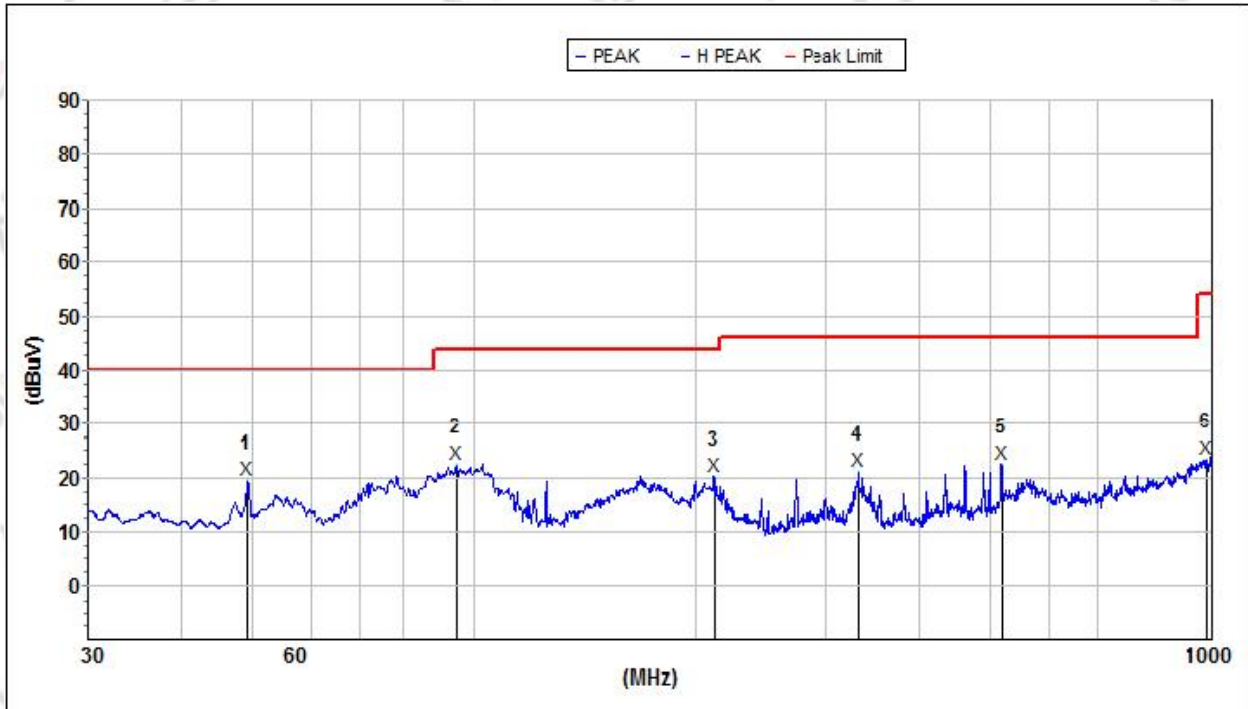


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1144.266229	32.7	74.0	41.3	25.6	60.7	2.2	V
2	1937.062286	32.9	74.0	41.1	26.0	60.9	2.6	V
3	3234.428433	39.9	74.0	34.1	29.7	58.4	3.0	V
4	5828.533796	44.7	74.0	29.3	33.9	58.1	4.1	V
5	10101.245194	52.9	74.0	21.1	38.6	60.4	5.4	V
6	17677.752612	54.6	74.0	19.4	40.3	57.9	6.9	V
Avg								
1	1144.266229	22.5	54.0	31.5	25.6	60.7	2.2	V
2	1937.062286	23.0	54.0	31.0	26.0	60.9	2.6	V
3	3234.428433	28.8	54.0	25.2	29.7	58.4	3.0	V
4	5828.533796	35.7	54.0	18.3	33.9	58.1	4.1	V
5	10101.245194	42.2	54.0	11.8	38.6	60.4	5.4	V
6	17677.752612	45.5	54.0	8.5	40.3	57.9	6.9	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n40		

5230 Horizontal

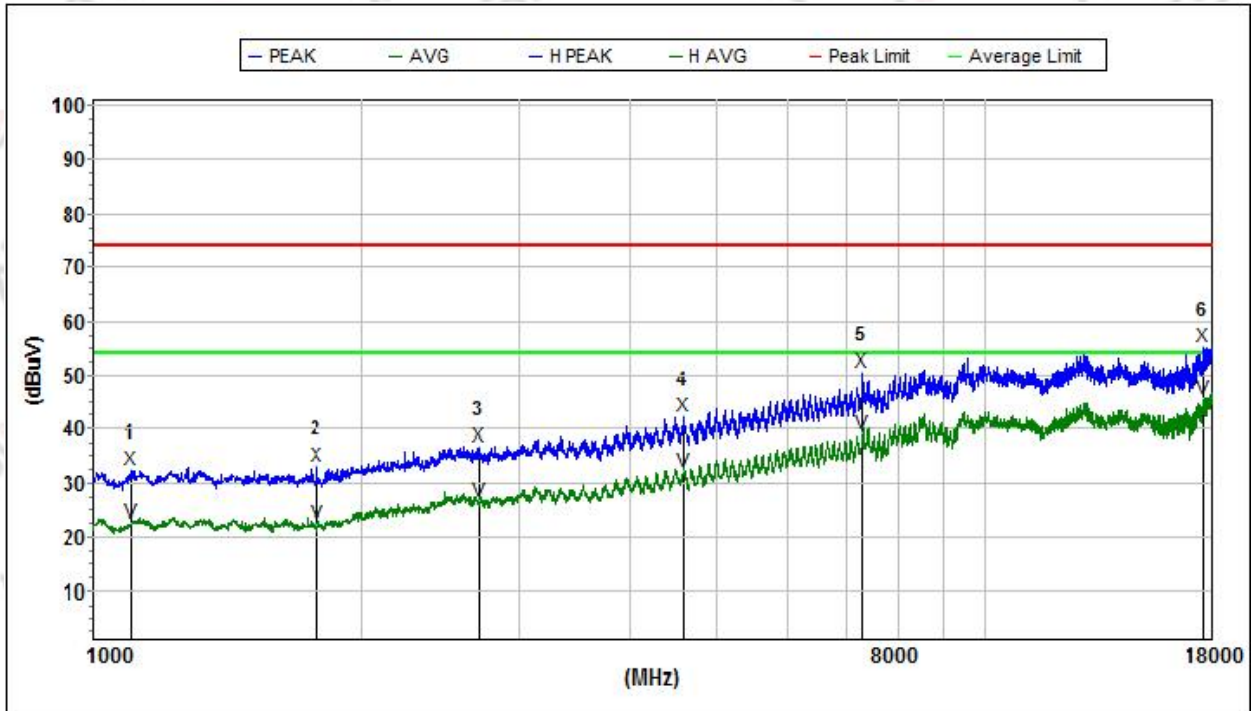


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	19.6	40.0	20.4	13.6	32.6	0.8	H
2	94.926381	22.7	43.5	20.8	9.8	32.9	1.3	H
3	212.269499	20.3	43.5	23.2	10.4	32.8	2.4	H
4	331.936213	21.2	46.0	24.8	13.2	32.6	2.7	H
5	518.155647	22.7	46.0	23.3	15.0	32.4	2.9	H
6	986.071678	23.6	54.0	30.4	20.6	31.1	3.8	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11n40		

5230 Horizontal

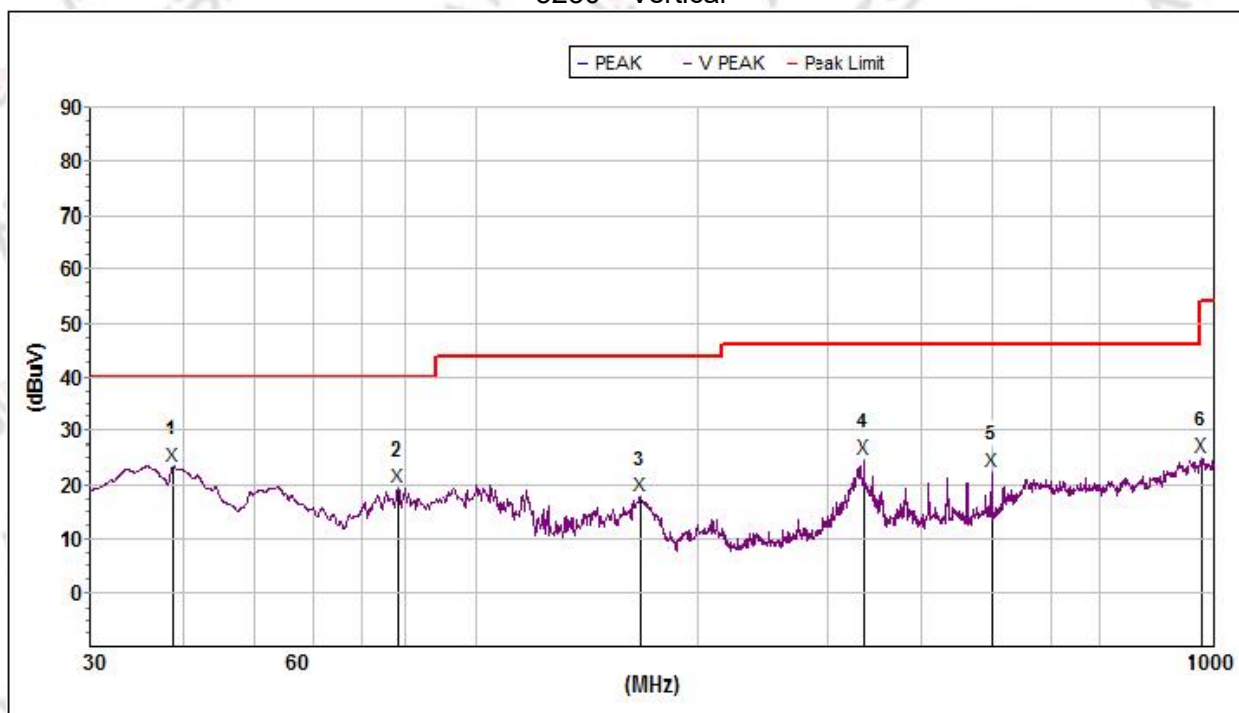


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1104.125000	32.7	74.0	41.3	25.5	60.7	2.2	H
2	1782.000000	33.1	74.0	40.9	25.1	61.3	2.6	H
3	2706.375000	36.8	74.0	37.2	28.2	59.4	2.9	H
4	4578.500000	42.6	74.0	31.4	31.6	57.9	3.6	H
5	7298.500000	50.6	74.0	23.4	36.8	57.6	4.5	H
6	17587.750000	55.2	74.0	18.8	39.8	58.0	6.9	H
Avg								
1	1104.125000	22.6	54.0	31.4	25.5	60.7	2.2	H
2	1782.000000	22.4	54.0	31.6	25.1	61.3	2.6	H
3	2706.375000	26.7	54.0	27.3	28.2	59.4	2.9	H
4	4578.500000	32.1	54.0	21.9	31.6	57.9	3.6	H
5	7298.500000	39.2	54.0	14.8	36.8	57.6	4.5	H
6	17587.750000	45.6	54.0	8.4	39.8	58.0	6.9	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n40		

5230 Vertical

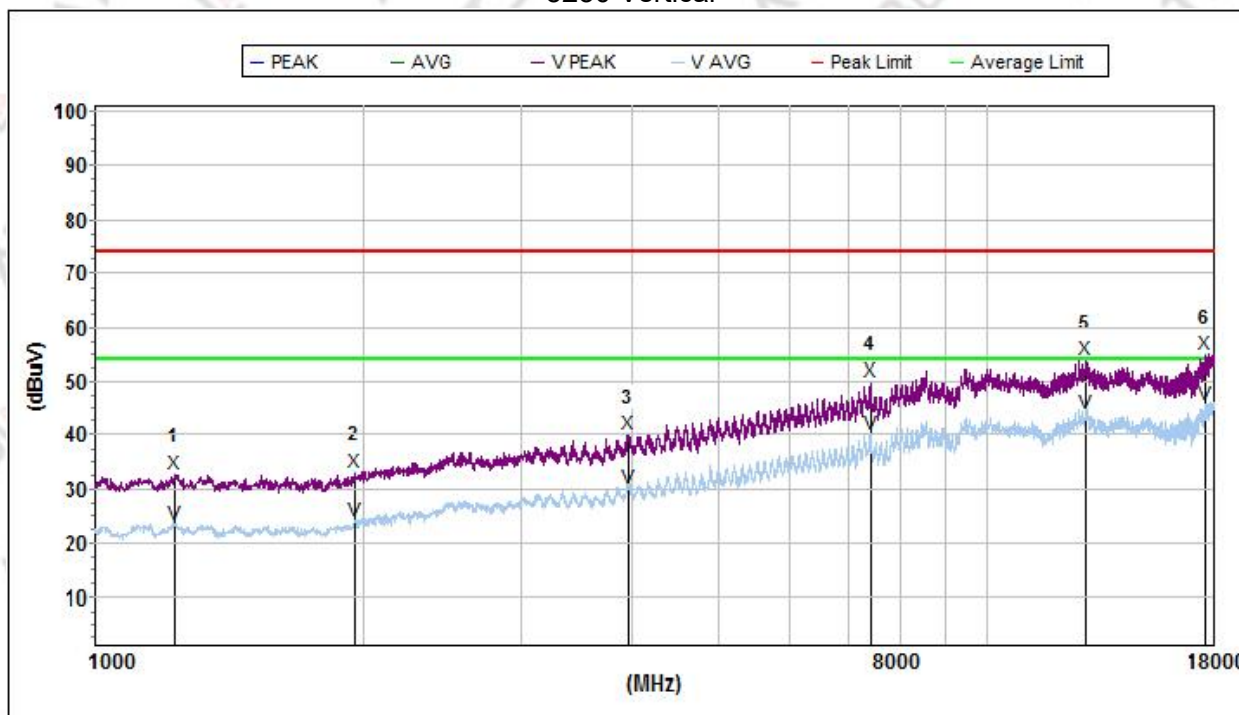


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	38.683874	23.7	40.0	16.3	13.9	32.3	0.8	V
2	78.413354	19.6	40.0	20.4	9.5	32.9	0.9	V
3	166.651398	17.8	43.5	25.7	13.5	32.9	1.7	V
4	335.446505	24.8	46.0	21.2	13.5	32.6	2.7	V
5	499.424690	22.6	46.0	23.4	16.5	32.5	2.8	V
6	962.162295	25.3	54.0	28.7	22.2	31.2	3.8	V

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11n40		

5230 Vertical

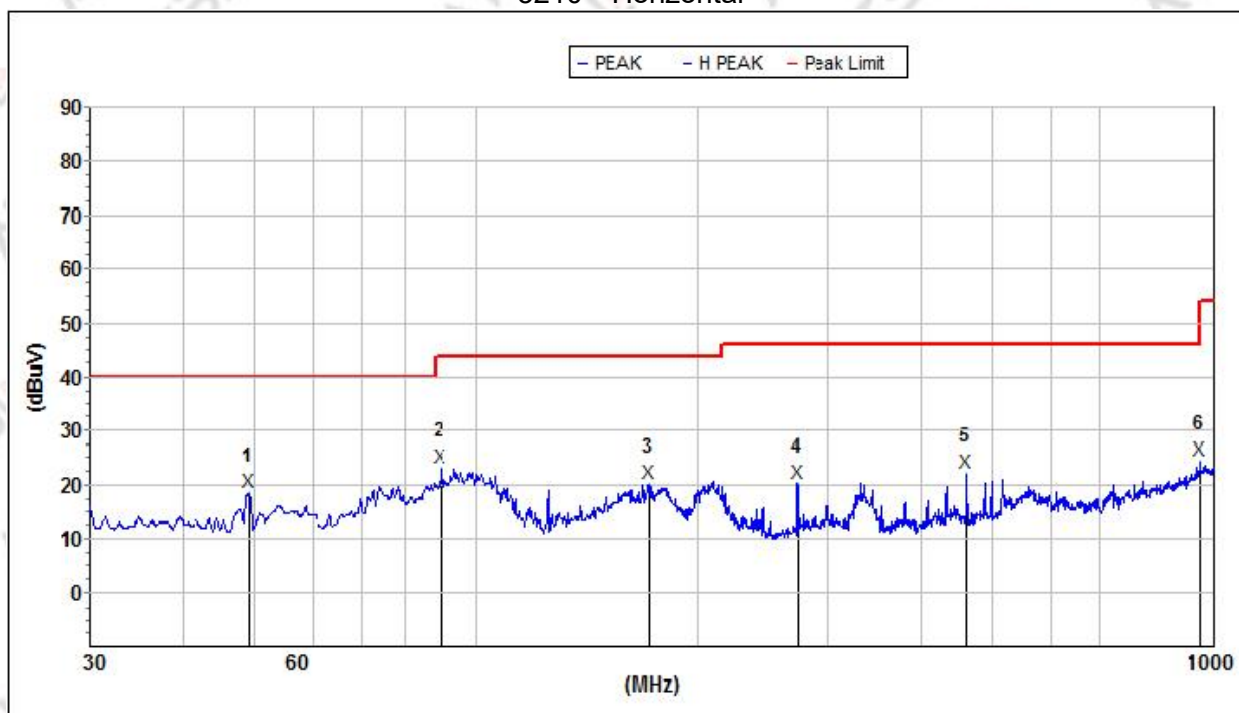


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1225.132028	32.8	74.0	41.2	25.8	60.9	2.3	V
2	1958.172095	33.4	74.0	40.6	26.1	60.9	2.7	V
3	3968.332701	40.3	74.0	33.7	30.8	58.5	3.3	V
4	7406.107779	49.9	74.0	24.1	36.5	57.5	4.6	V
5	12923.700776	53.8	74.0	20.2	39.7	57.8	6.1	V
6	17582.208101	55.0	74.0	19.0	39.8	58.1	6.9	V
Avg								
1	1225.132028	23.3	54.0	30.7	25.8	60.9	2.3	V
2	1958.172095	24.0	54.0	30.0	26.1	60.9	2.7	V
3	3968.332701	30.3	54.0	23.7	30.8	58.5	3.3	V
4	7406.107779	40.0	54.0	14.0	36.5	57.5	4.6	V
5	12923.700776	44.1	54.0	9.9	39.7	57.8	6.1	V
6	17582.208101	45.6	54.0	8.4	39.8	58.1	6.9	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ax80		

5210 Horizontal

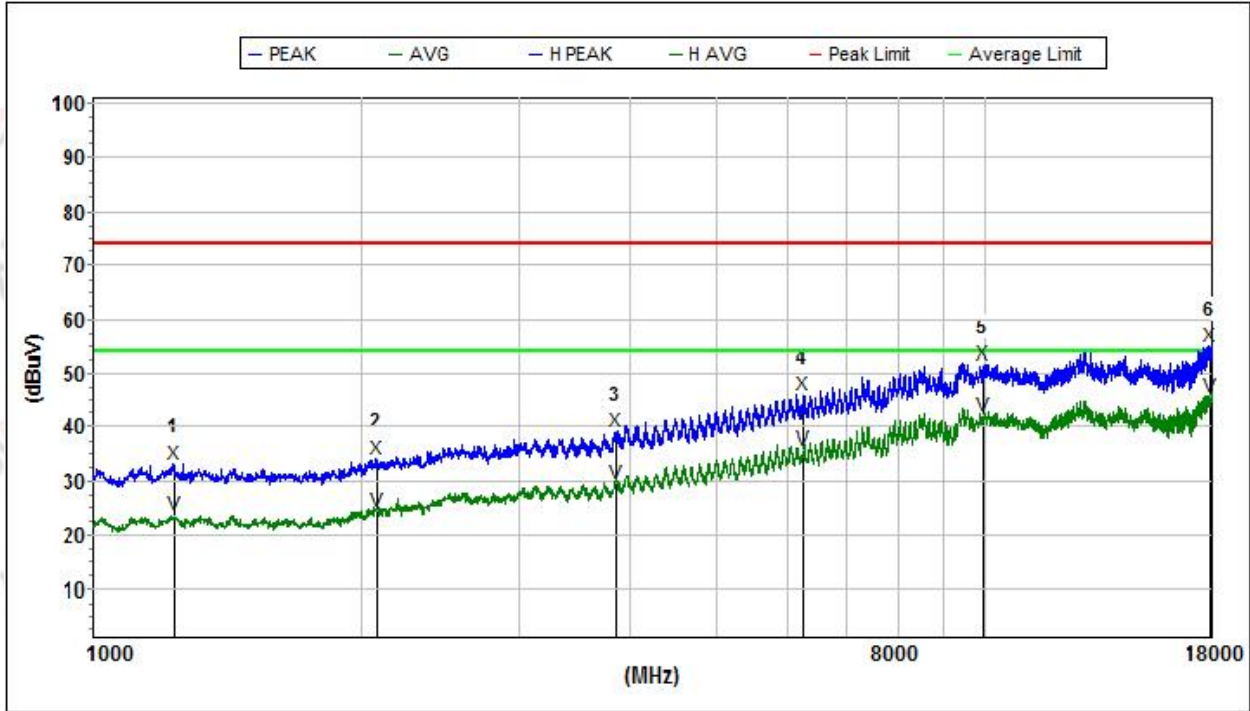


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.359419	18.5	40.0	21.5	13.6	32.6	0.8	H
2	89.589977	23.1	43.5	20.4	9.4	32.9	1.1	H
3	171.392570	20.2	43.5	23.3	13.0	32.9	1.8	H
4	272.277645	20.4	46.0	25.6	12.1	32.7	2.6	H
5	461.535633	22.3	46.0	23.7	14.4	32.4	2.8	H
6	958.794326	24.5	46.0	21.5	20.3	31.2	3.8	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ax80		

5210 Horizontal

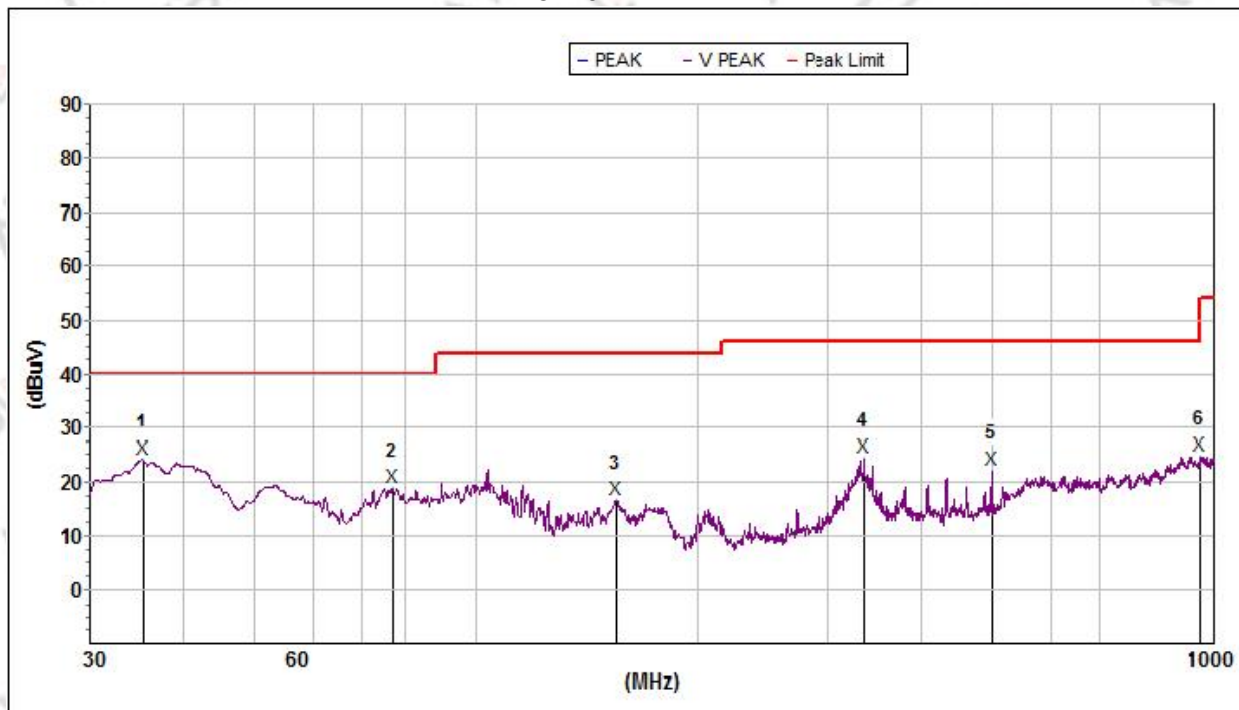


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1231.344629	33.3	74.0	40.7	25.8	60.9	2.3	H
2	2076.954750	34.2	74.0	39.8	27.0	60.9	2.7	H
3	3855.274900	39.2	74.0	34.8	30.6	58.7	3.2	H
4	6249.463965	46.2	74.0	27.8	34.2	58.0	4.2	H
5	9985.132291	51.7	74.0	22.3	38.5	60.1	5.4	H
6	17883.319760	55.1	74.0	18.9	41.6	57.7	7.0	H
Avg								
1	1231.344629	23.7	54.0	30.3	25.8	60.9	2.3	H
2	2076.954750	24.5	54.0	29.5	27.0	60.9	2.7	H
3	3855.274900	29.6	54.0	24.4	30.6	58.7	3.2	H
4	6249.463965	36.0	54.0	18.0	34.2	58.0	4.2	H
5	9985.132291	42.0	54.0	12.0	38.5	60.1	5.4	H
6	17883.319760	45.8	54.0	8.2	41.6	57.7	7.0	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ax80		

5210 Vertical

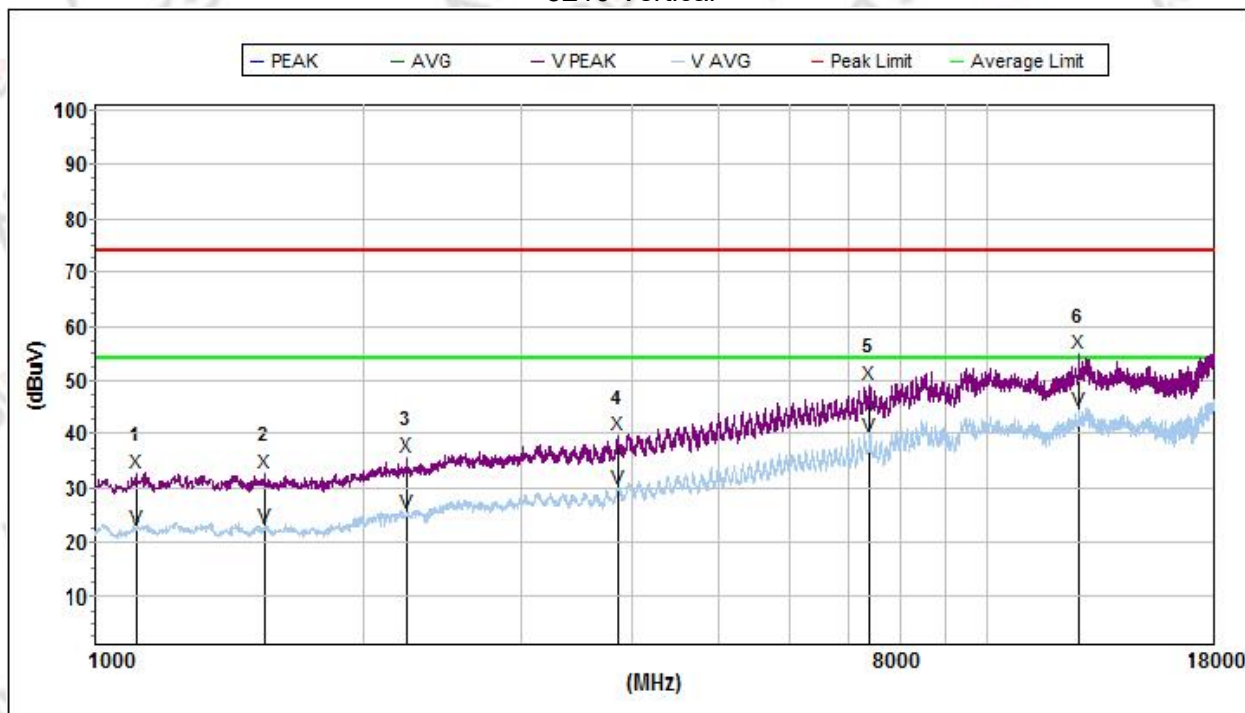


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	35.313041	24.2	40.0	15.8	13.4	32.3	0.8	V
2	76.915558	18.8	40.0	21.2	9.8	32.9	0.9	V
3	154.549309	16.7	43.5	26.8	14.2	32.9	1.4	V
4	335.446505	24.7	46.0	21.3	13.5	32.6	2.7	V
5	499.424690	22.2	46.0	23.8	16.5	32.5	2.8	V
6	960.476834	24.8	54.0	29.2	22.2	31.2	3.8	V

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ax80		

5210 Vertical

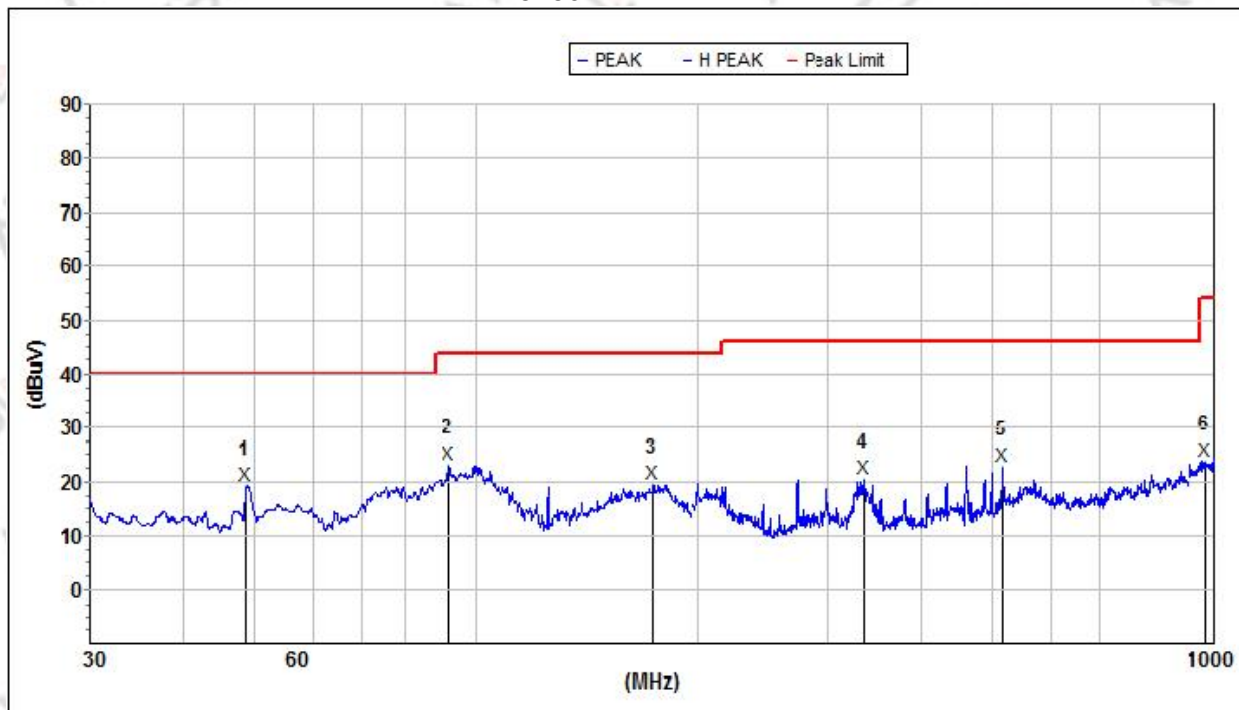


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1110.500000	32.9	74.0	41.1	25.5	60.7	2.2	V
2	1548.250000	33.0	74.0	41.0	25.3	61.3	2.5	V
3	2234.625000	35.8	74.0	38.2	27.2	60.3	2.8	V
4	3856.000000	39.9	74.0	34.1	30.6	58.7	3.2	V
5	7392.000000	49.2	74.0	24.8	36.6	57.5	4.6	V
6	12717.250000	54.9	74.0	19.1	39.4	58.0	6.1	V
Avg								
1	1110.500000	22.3	54.0	31.7	25.5	60.7	2.2	V
2	1548.250000	22.7	54.0	31.3	25.3	61.3	2.5	V
3	2234.625000	25.2	54.0	28.8	27.2	60.3	2.8	V
4	3856.000000	29.9	54.0	24.1	30.6	58.7	3.2	V
5	7392.000000	39.4	54.0	14.6	36.6	57.5	4.6	V
6	12717.250000	44.4	54.0	9.6	39.4	58.0	6.1	V

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac160		

5250 Horizontal

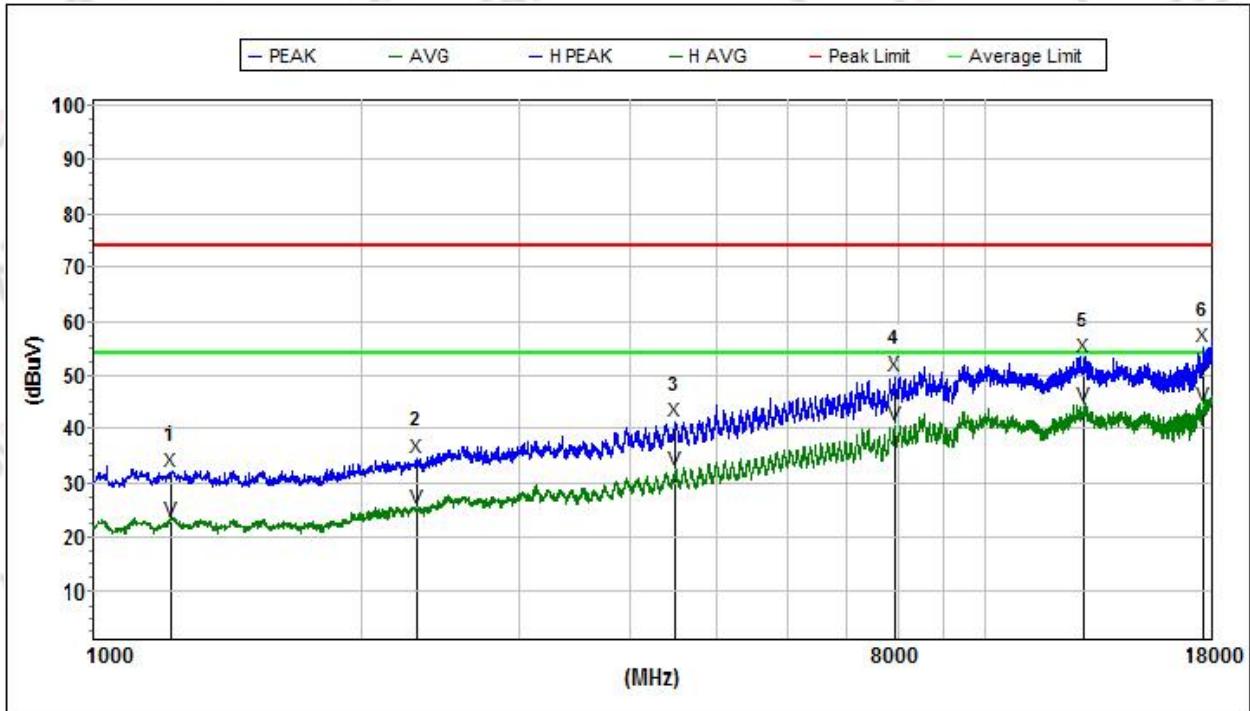


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	48.842895	19.3	40.0	20.7	13.6	32.6	0.8	H
2	91.977376	23.2	43.5	20.3	9.6	32.9	1.2	H
3	173.509024	19.7	43.5	23.8	12.7	32.8	1.8	H
4	335.446505	20.7	46.0	25.3	13.2	32.6	2.7	H
5	516.341886	22.9	46.0	23.1	14.9	32.4	2.9	H
6	974.043628	23.9	54.0	30.1	20.5	31.1	3.8	H

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Horizontal
Test Mode:	802.11ac160		

5250 Horizontal

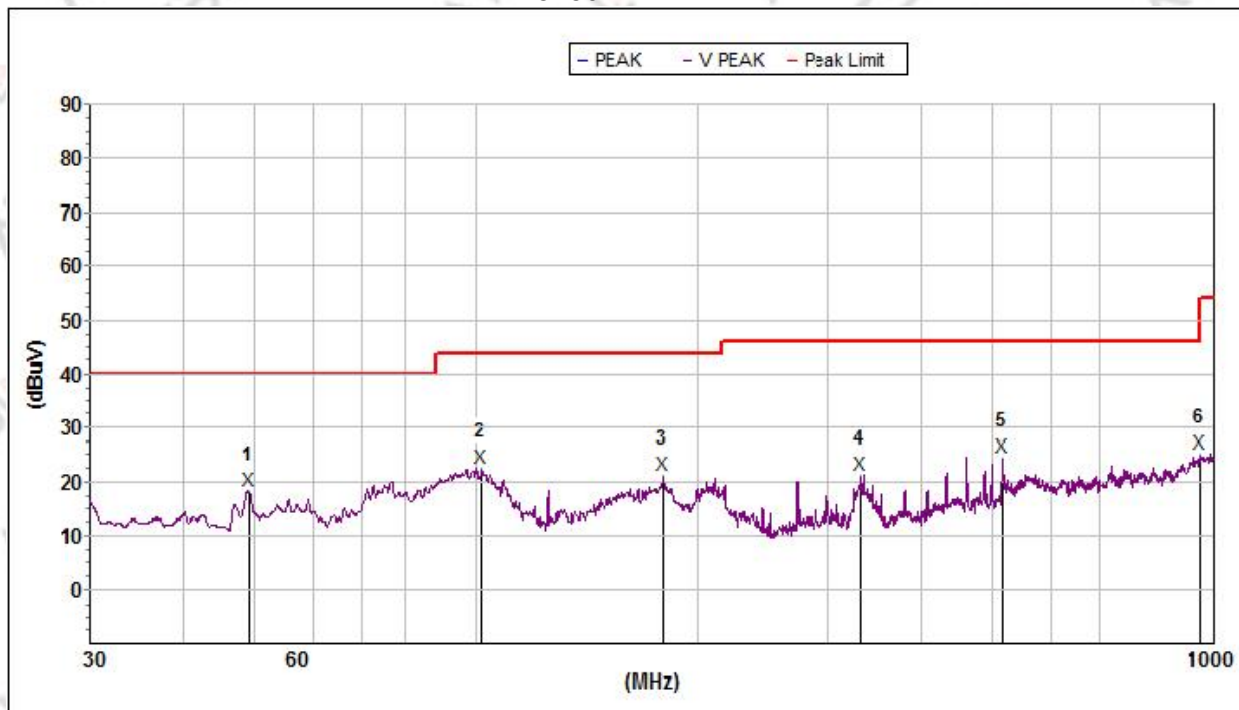


Mk.	Freq.(MHz)	Level (dBuV /m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak								
1	1221.000000	32.3	74.0	41.7	25.7	60.9	2.3	H
2	2306.875000	34.8	74.0	39.2	27.2	59.9	2.8	H
3	4476.500000	41.3	74.0	32.7	31.6	58.0	3.5	H
4	7914.750000	49.9	74.0	24.1	37.2	57.4	4.8	H
5	12912.750000	53.4	74.0	20.6	39.7	57.8	6.1	H
6	17575.000000	55.2	74.0	18.8	39.7	58.1	6.9	H
Avg								
1	1221.000000	23.1	54.0	30.9	25.7	60.9	2.3	H
2	2306.875000	25.4	54.0	28.6	27.2	59.9	2.8	H
3	4476.500000	32.6	54.0	21.4	31.6	58.0	3.5	H
4	7914.750000	40.8	54.0	13.2	37.2	57.4	4.8	H
5	12912.750000	44.3	54.0	9.7	39.7	57.8	6.1	H
6	17575.000000	44.5	54.0	9.5	39.7	58.1	6.9	H

30MHz - 1GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac160		

5250 Vertical

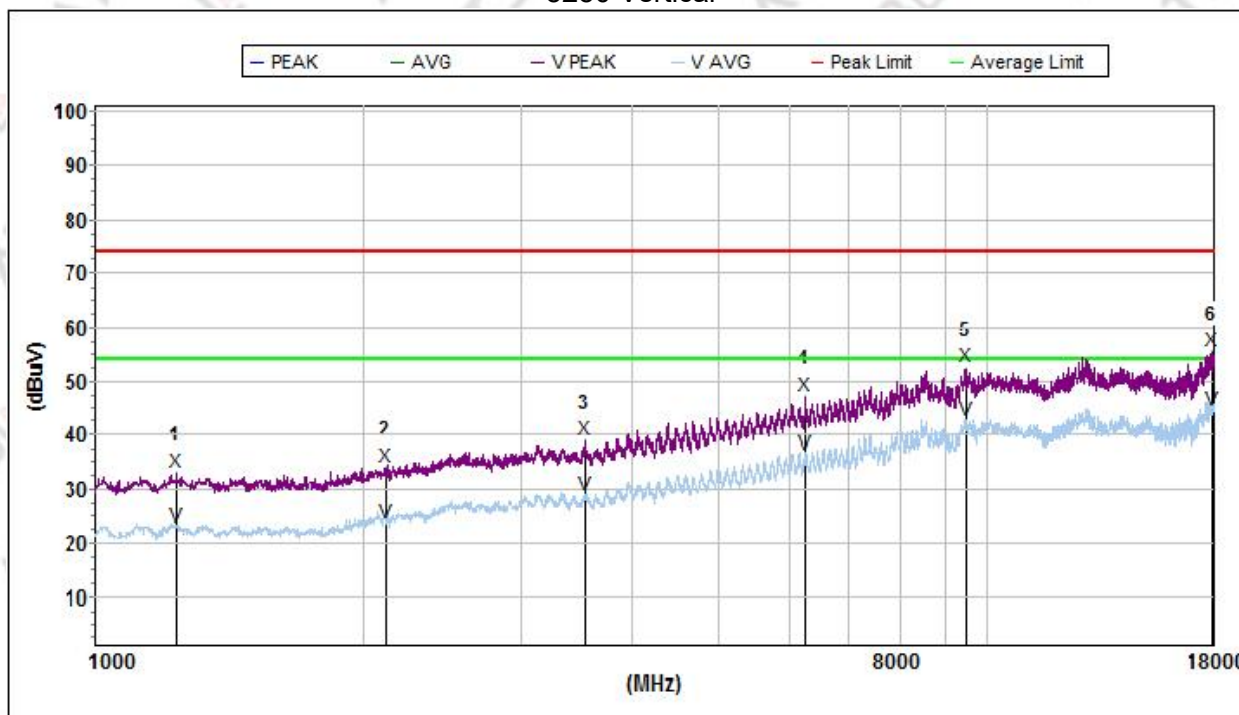


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	49.272954	18.4	40.0	21.6	13.6	32.6	0.8	V
2	101.644307	22.6	43.5	20.9	10.3	32.9	1.4	V
3	178.758432	21.3	43.5	22.2	11.9	32.8	1.9	V
4	331.936213	21.2	46.0	24.8	13.5	32.6	2.7	V
5	515.437388	24.7	46.0	21.3	16.8	32.4	2.9	V
6	958.794326	25.3	46.0	20.7	22.2	31.2	3.8	V

1GHz - 18GHz

Temperature:	23.0°C	Relative Humidity:	59%RH
Test Voltage:	AC120V	Phase:	Vertical
Test Mode:	802.11ac160		

5250 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	1229.500000	33.2	74.0	40.8	25.8	60.9	2.3	V
2	2113.500000	34.1	74.0	39.9	27.2	60.8	2.7	V
3	3547.875000	39.0	74.0	35.0	29.5	59.0	3.2	V
4	6248.750000	47.3	74.0	26.7	34.2	58.0	4.2	V
5	9474.500000	52.6	74.0	21.4	38.6	59.7	5.4	V
6	17910.750000	55.7	74.0	18.3	41.8	57.7	7.0	V
Avg								
1	1229.500000	23.0	54.0	31.0	25.8	60.9	2.3	V
2	2113.500000	23.7	54.0	30.3	27.2	60.8	2.7	V
3	3547.875000	28.9	54.0	25.1	29.5	59.0	3.2	V
4	6248.750000	36.5	54.0	17.5	34.2	58.0	4.2	V
5	9474.500000	42.9	54.0	11.1	38.6	59.7	5.4	V
6	17910.750000	44.6	54.0	9.4	41.8	57.7	7.0	V