

FCC Test Report

Client Name : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Client Address : Bld.2,Yingfeng Industrial Zone,Tantou
Community, Songgang Street,Baoan,
Shenzhen, China

Product Name : Android Tablet

Report Date : Oct. 10, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Contents

1. General Information	6
1.1. Client Information	6
1.2. Description of Device (EUT)	6
1.3. Auxiliary Equipment Used During Test	8
1.4. Description of Test Configuration	8
1.5. Description Of Test Setup	9
1.6. Test Equipment List	10
1.7. Measurement Uncertainty	11
1.8. Description of Test Facility	11
2. Summary of Test Results	12
3. Conducted Emission Test	13
3.1. Test Standard and Limit	13
3.2. Test Setup	13
3.3. Test Procedure	13
3.4. Test Data	13
4. Radiation Spurious Emission and Band Edge	20
4.1. Test Standard and Limit	20
4.2. Test Setup	20
4.3. Test Procedure	21
4.4. Test Data	22
5. Maximum Peak Output Power Test	40
5.1. Test Standard and Limit	40
5.2. Test Setup	40
5.3. Test Procedure	40
5.4. Test Data	40
6. 6DB Occupy Bandwidth Test	41
6.1. Test Standard and Limit	41
6.2. Test Setup	41
6.3. Test Procedure	41
6.4. Test Data	41
7. Power Spectral Density Test	42
7.1. Test Standard and Limit	42
7.2. Test Setup	42
7.3. Test Procedure	42
7.4. Test Data	42
8. 100kHz Bandwidth of Frequency Band Edge Requirement	43



8.1. Test Standard and Limit	43
8.2. Test Setup	43
8.3. Test Procedure	43
8.4. Test Data	43
9. Antenna Requirement	44
9.1. Test Standard and Requirement	44
9.2. Antenna Connected Construction	44
APPENDIX I -- TEST SETUP PHOTOGRAPH	45
APPENDIX II -- EXTERNAL PHOTOGRAPH	45
APPENDIX III -- INTERNAL PHOTOGRAPH	45



TEST REPORT

Applicant : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Manufacturer : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Product Name : Android Tablet

Model No. : NW2193T, NW1493T, NW1693T

Trade Mark : N.A.

Rating(s) : NW2193T: Input: 12V= 3A
NW1493T, NW1693T: Input: 12V= 2A

Test Standard(s) : FCC Part15 Subpart C, Section 15.247

Test Method(s) : ANSI C63.10: 2020, KDB558074 D01 DTS Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Aug. 29, 2022

Date of Test

Aug. 29~Sept. 29, 2022

Prepared By

Tu Tu Hong

(TuTu Hong)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 10, 2022



1. General Information

1.1. Client Information

Applicant	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China
Manufacturer	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China
Factory	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Android Tablet
Model No.	:	NW2193T, NW1493T, NW1693T (Note: The PCB of the above models are the same, with the same structure, different display sizes and different power supply. NW1493T is a 14 inch display, with 12V= 2A power adapter NW1693T is a 16 inch display, with 12V= 2A power adapter NW2193T is a 21.5 inch display, with 12V= 3A power adapter Based on the difference of models, we prepared all models for Spurious Emission test. Other items are test for "NW2193T" only.)
Trade Mark	:	N.A.
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Adapter 1 For NW2193T: Model: FJ-SW20261203000 Input: 100-240V~50/60Hz 1.5A Max Output: 12.0V= 3.0A 36.0W
	:	Adapter 2 For NW1493T/ NW1693T: Model: FJ-SW126G1202000U Input: 100-240V~, 50/60Hz, 0.6A Max Output: 12.0V= 2A
RF Specification		
Operation Mode	:	☒ BT BLE
Support Rate	:	☒ 1Mbps ☐ 2Mbps



Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels
Modulation Type	:	GFSK
Antenna Type	:	FPC antenna
Antenna Gain(Peak)	:	2.23 dBi (Provided by customer)
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
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1.4. Description of Test Configuration

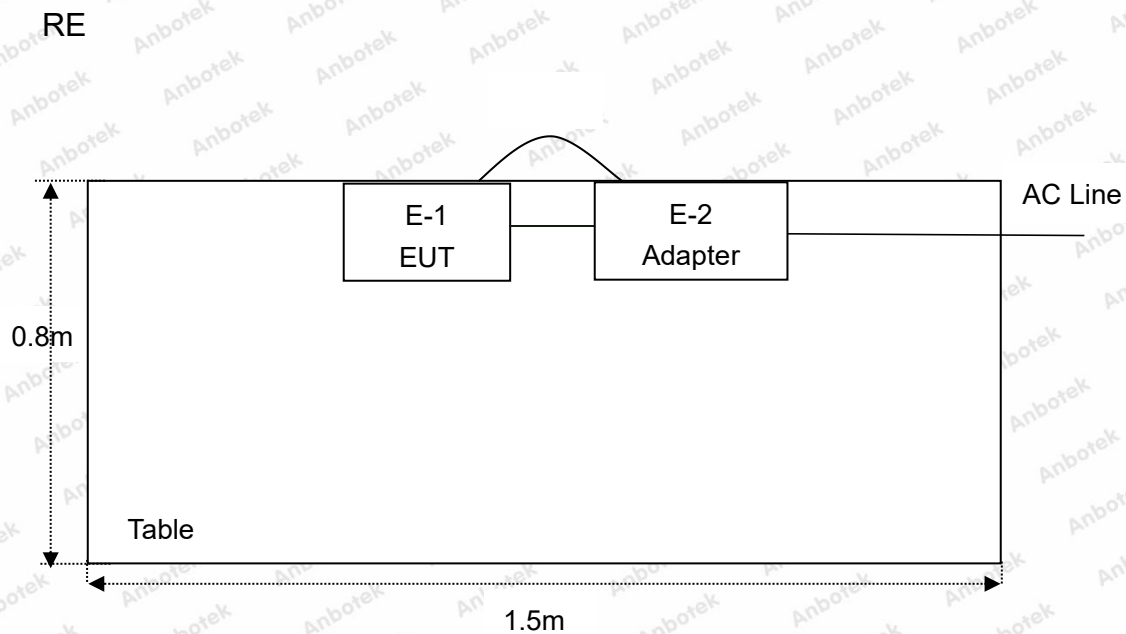
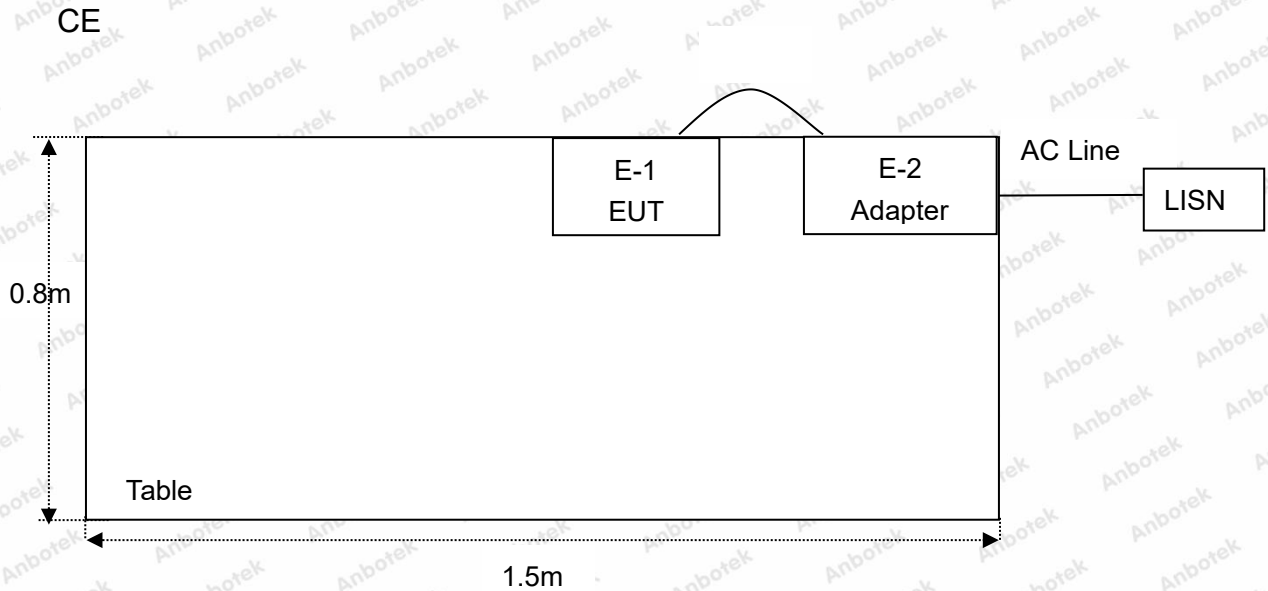
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with channel 0, 19 and 39.



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2022	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15100041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 22, 2021	1 Year



1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
	:	Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

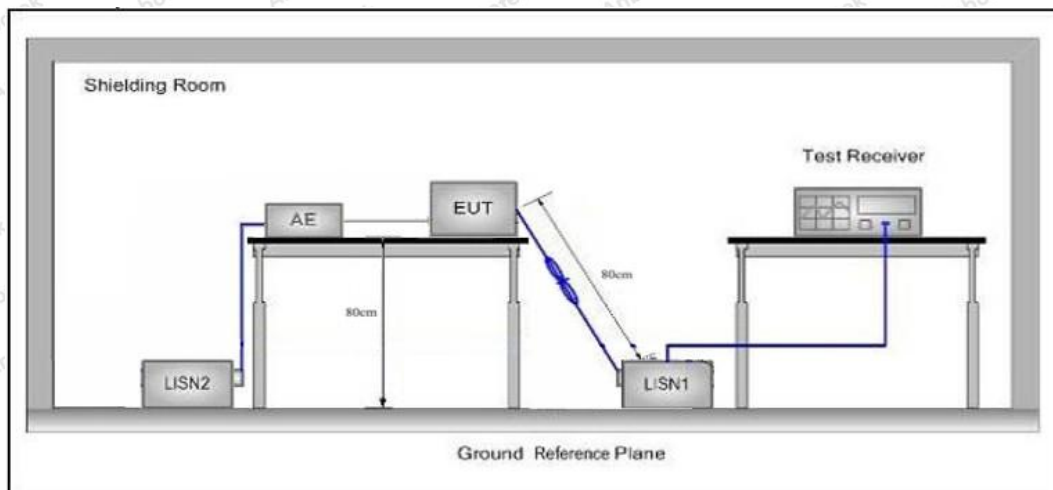


3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

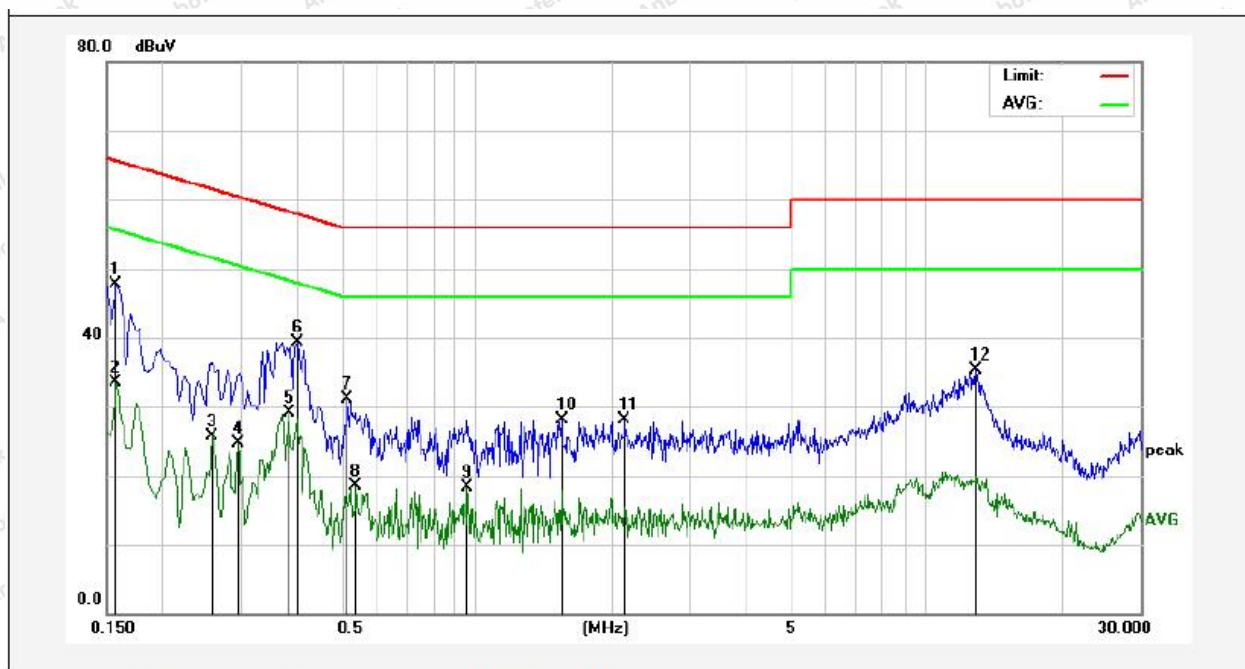
3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

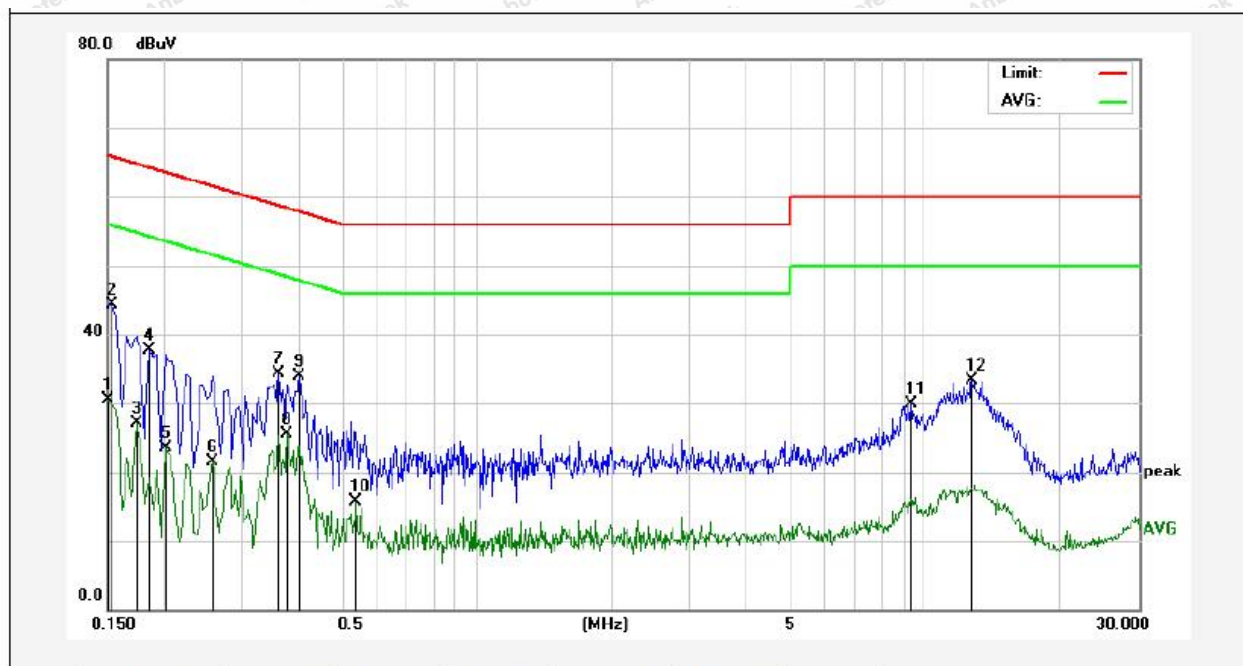
Please to see the following pages.



Conducted Emission Test Data**Test model:** NW1493T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Live Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

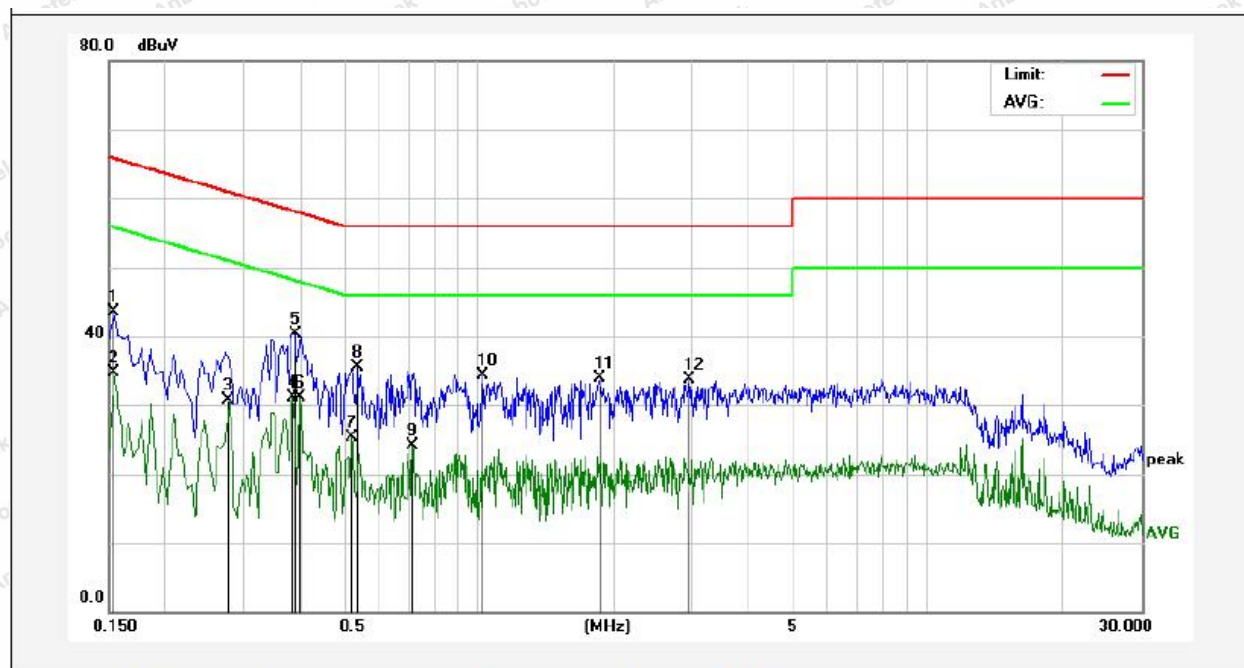
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	37.97	9.70	47.67	65.56	-17.89	QP	
2	0.1580	23.78	9.70	33.48	55.56	-22.08	AVG	
3	0.2580	15.89	9.72	25.61	51.49	-25.88	AVG	
4	0.2940	15.08	9.72	24.80	50.41	-25.61	AVG	
5	0.3820	19.36	9.71	29.07	48.23	-19.16	AVG	
6	0.3980	29.51	9.71	39.22	57.89	-18.67	QP	
7	0.5180	21.30	9.76	31.06	56.00	-24.94	QP	
8	0.5380	8.66	9.76	18.42	46.00	-27.58	AVG	
9	0.9580	8.49	9.74	18.23	46.00	-27.77	AVG	
10	1.5500	18.47	9.73	28.20	56.00	-27.80	QP	
11	2.1380	18.37	9.72	28.09	56.00	-27.91	QP	
12	12.8860	25.34	9.92	35.26	60.00	-24.74	QP	



Conducted Emission Test Data**Test model:** NW1493T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Neutral Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

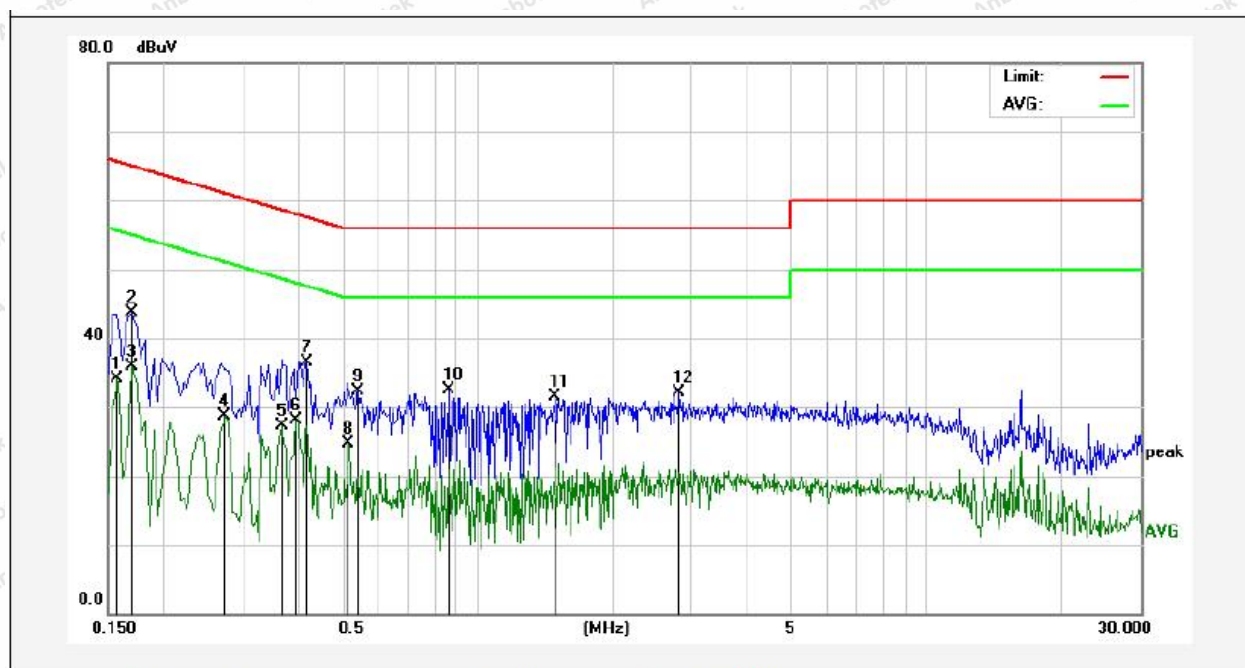
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	20.79	9.69	30.48	55.99	-25.51	AVG	
2	0.1539	34.57	9.70	44.27	65.78	-21.51	QP	
3	0.1740	17.35	9.71	27.06	54.76	-27.70	AVG	
4	0.1860	28.07	9.71	37.78	64.21	-26.43	QP	
5	0.2020	13.70	9.71	23.41	53.52	-30.11	AVG	
6	0.2580	11.86	9.72	21.58	51.49	-29.91	AVG	
7	0.3620	24.64	9.72	34.36	58.68	-24.32	QP	
8	0.3780	15.74	9.71	25.45	48.32	-22.87	AVG	
9	0.4020	24.12	9.71	33.83	57.81	-23.98	QP	
10	0.5380	6.00	9.76	15.76	46.00	-30.24	AVG	
11	9.3220	20.05	9.82	29.87	60.00	-30.13	QP	
12	12.7580	23.46	9.92	33.38	60.00	-26.62	QP	



Conducted Emission Test Data**Test model:** NW1693T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Live Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

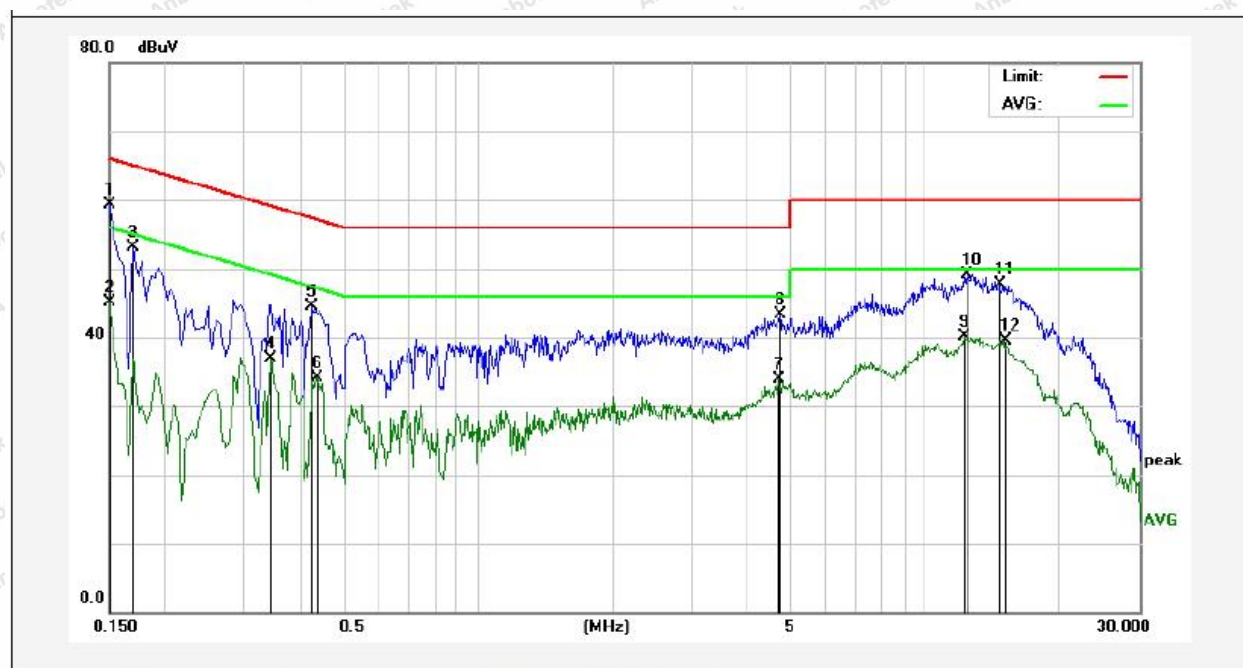
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	33.88	9.70	43.58	65.78	-22.20	QP	
2	0.1539	24.93	9.70	34.63	55.78	-21.15	AVG	
3	0.2779	20.89	9.72	30.61	50.88	-20.27	AVG	
4	0.3860	21.46	9.71	31.17	48.15	-16.98	AVG	
5	0.3899	30.65	9.71	40.36	58.06	-17.70	QP	
6	0.3980	21.31	9.71	31.02	47.89	-16.87	AVG	
7	0.5220	15.63	9.76	25.39	46.00	-20.61	AVG	
8	0.5380	25.71	9.76	35.47	56.00	-20.53	QP	
9	0.7140	14.32	9.75	24.07	46.00	-21.93	AVG	
10	1.0260	24.64	9.74	34.38	56.00	-21.62	QP	
11	1.8660	24.20	9.72	33.92	56.00	-22.08	QP	
12	2.9580	23.88	9.73	33.61	56.00	-22.39	QP	



Conducted Emission Test Data**Test model:** NW1693T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Neutral Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

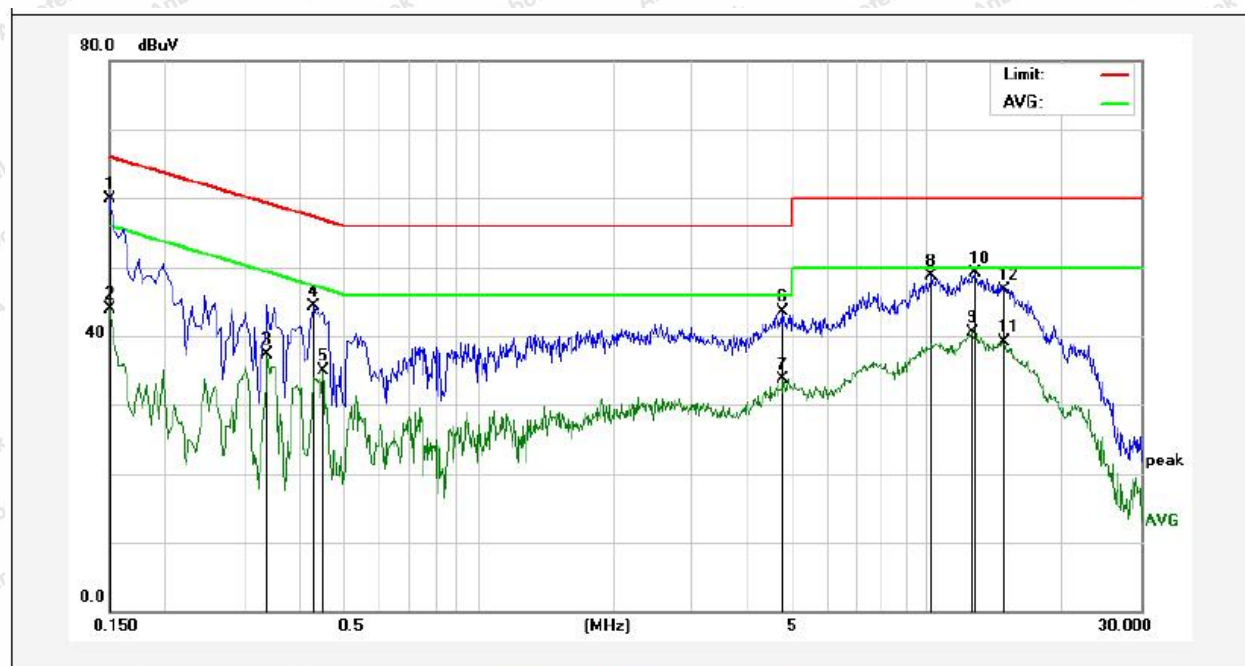
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	24.47	9.70	34.17	55.56	-21.39	AVG	
2	0.1700	33.99	9.71	43.70	64.96	-21.26	QP	
3	0.1700	26.11	9.71	35.82	54.96	-19.14	AVG	
4	0.2740	19.06	9.72	28.78	50.99	-22.21	AVG	
5	0.3660	17.58	9.72	27.30	48.59	-21.29	AVG	
6	0.3940	18.35	9.71	28.06	47.98	-19.92	AVG	
7	0.4180	26.74	9.72	36.46	57.49	-21.03	QP	
8	0.5180	14.90	9.76	24.66	46.00	-21.34	AVG	
9	0.5420	22.59	9.76	32.35	56.00	-23.65	QP	
10	0.8660	22.77	9.75	32.52	56.00	-23.48	QP	
11	1.4940	21.81	9.73	31.54	56.00	-24.46	QP	
12	2.8179	22.28	9.73	32.01	56.00	-23.99	QP	



Conducted Emission Test Data**Test model:** NW2193T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Live Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	49.65	9.69	59.34	65.99	-6.65	QP	
2	0.1500	35.34	9.69	45.03	55.99	-10.96	AVG	
3	0.1700	43.33	9.71	53.04	64.96	-11.92	QP	
4	0.3460	27.20	9.72	36.92	49.06	-12.14	AVG	
5	0.4260	34.81	9.72	44.53	57.33	-12.80	QP	
6	0.4380	24.46	9.74	34.20	47.10	-12.90	AVG	
7	4.6979	24.09	9.74	33.83	46.00	-12.17	AVG	
8	4.7260	33.53	9.74	43.27	56.00	-12.73	QP	
9	12.2100	30.16	9.90	40.06	50.00	-9.94	AVG	
10	12.3380	39.22	9.90	49.12	60.00	-10.88	QP	
11	14.6020	37.67	9.98	47.65	60.00	-12.35	QP	
12	14.9940	29.51	9.99	39.50	50.00	-10.50	AVG	



Conducted Emission Test Data**Test model:** NW2193T**Test Site:** 1# Shielded Room**Operating Condition:** High CH (2480MHz)**Test Specification:** AC 120V, 60Hz for adapter**Comment:** Neutral Line**Temp.(°C)/Hum.(%RH):** 22.1°C/52%RH

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	50.20	9.69	59.89	65.99	-6.10	QP	
2	0.1500	34.24	9.69	43.93	55.99	-12.06	AVG	
3	0.3379	27.58	9.72	37.30	49.25	-11.95	AVG	
4	0.4300	34.49	9.72	44.21	57.25	-13.04	QP	
5	0.4500	25.11	9.74	34.85	46.87	-12.02	AVG	
6	4.7940	33.84	9.74	43.58	56.00	-12.42	QP	
7	4.7940	24.00	9.74	33.74	46.00	-12.26	AVG	
8	10.2340	38.86	9.84	48.70	60.00	-11.30	QP	
9	12.6540	30.67	9.92	40.59	50.00	-9.41	AVG	
10	12.7980	39.18	9.92	49.10	60.00	-10.90	QP	
11	14.7500	29.20	9.98	39.18	50.00	-10.82	AVG	
12	14.8300	36.80	9.99	46.79	60.00	-13.21	QP	



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

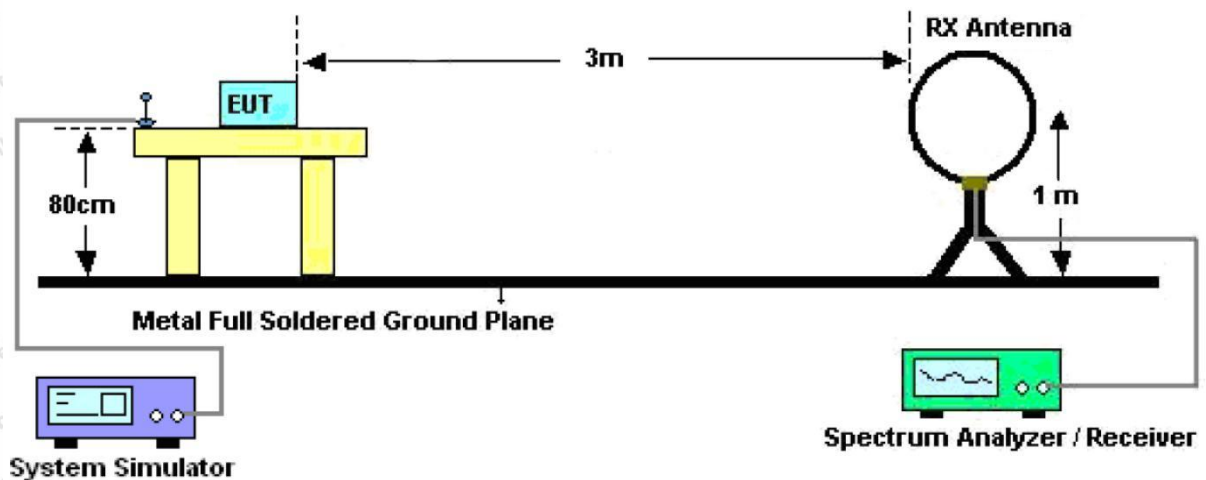


Figure 1. Below 30MHz



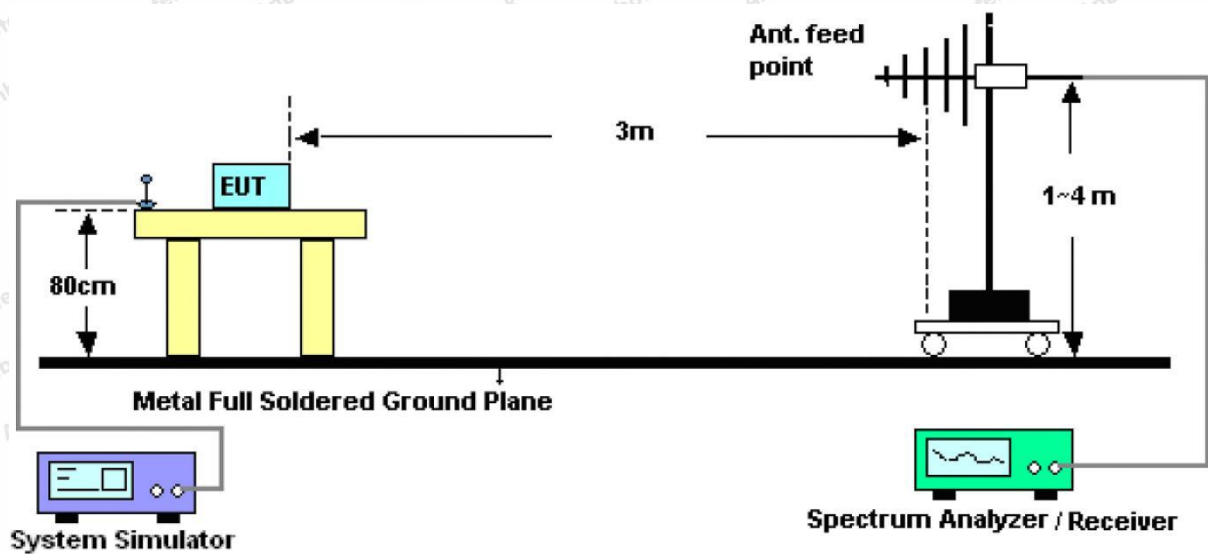


Figure 2. 30MHz to 1GHz

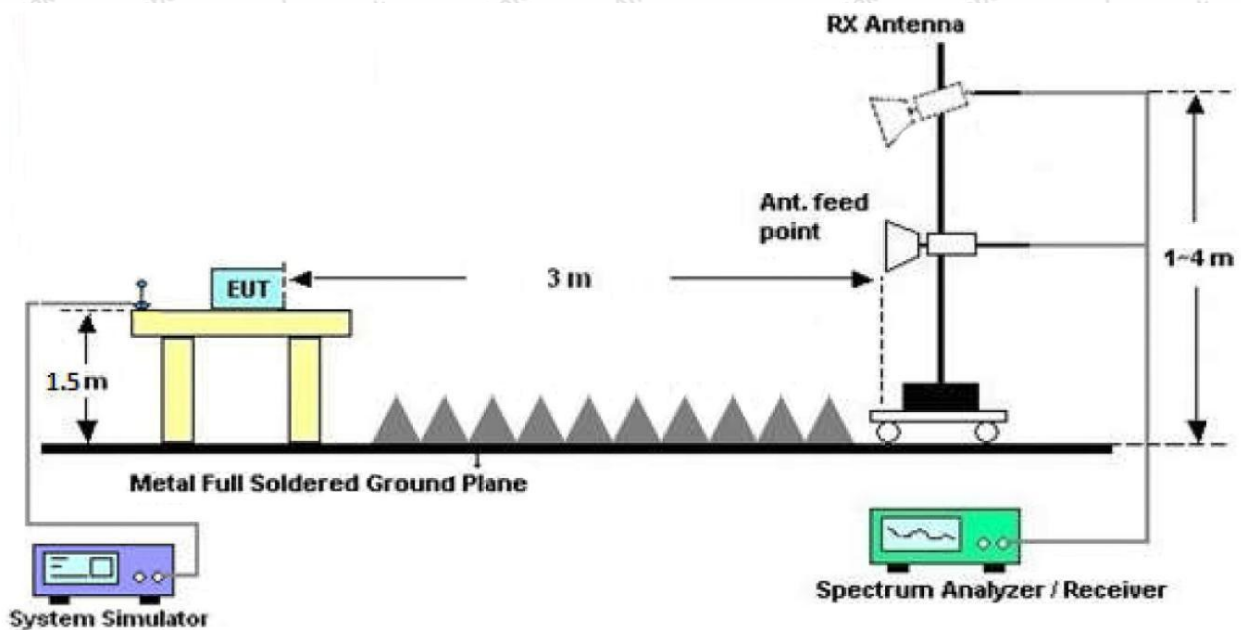


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

–VBW=10Hz, When duty cycle is no less than 98 percent

– $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.



Test Results (30~1000MHz)

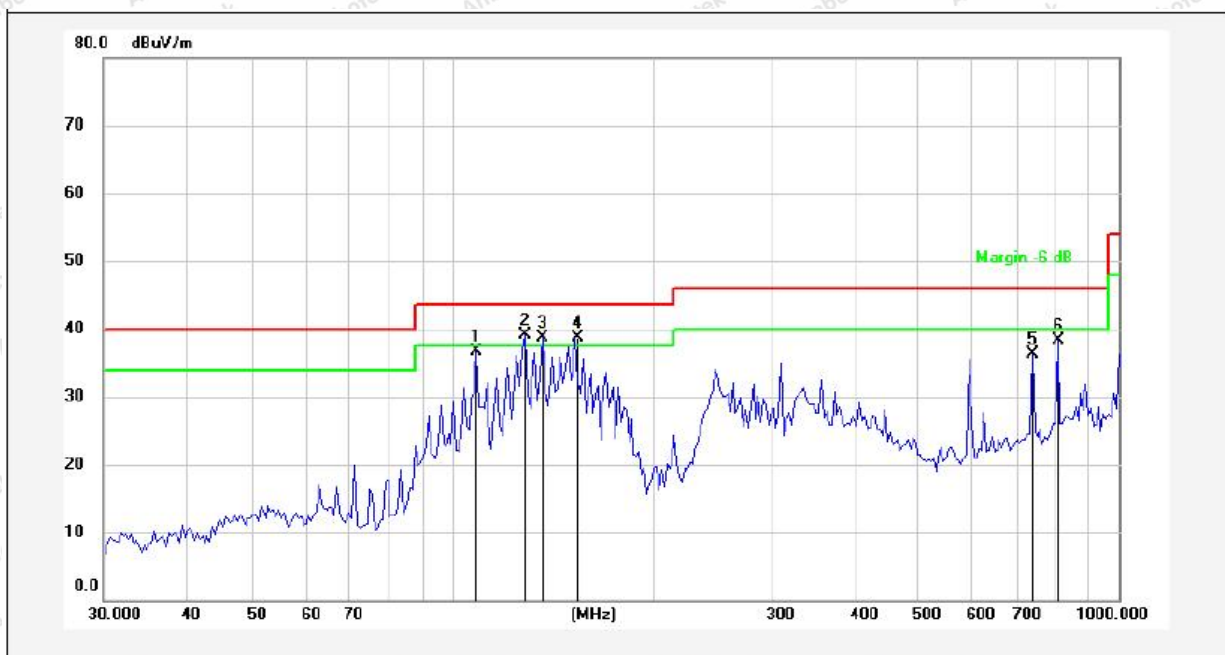
Test model: NW1493T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	108.8375	54.73	-18.10	36.63	43.50	-6.87	QP			
2	128.5629	59.66	-20.63	39.03	43.50	-4.47	QP			
3	136.6991	59.83	-21.18	38.65	43.50	-4.85	QP			
4	153.2004	59.63	-20.93	38.70	43.50	-4.80	QP			
5	742.2586	43.05	-6.76	36.29	46.00	-9.71	QP			
6	810.2653	44.07	-5.75	38.32	46.00	-7.68	QP			



Test Results (30~1000MHz)

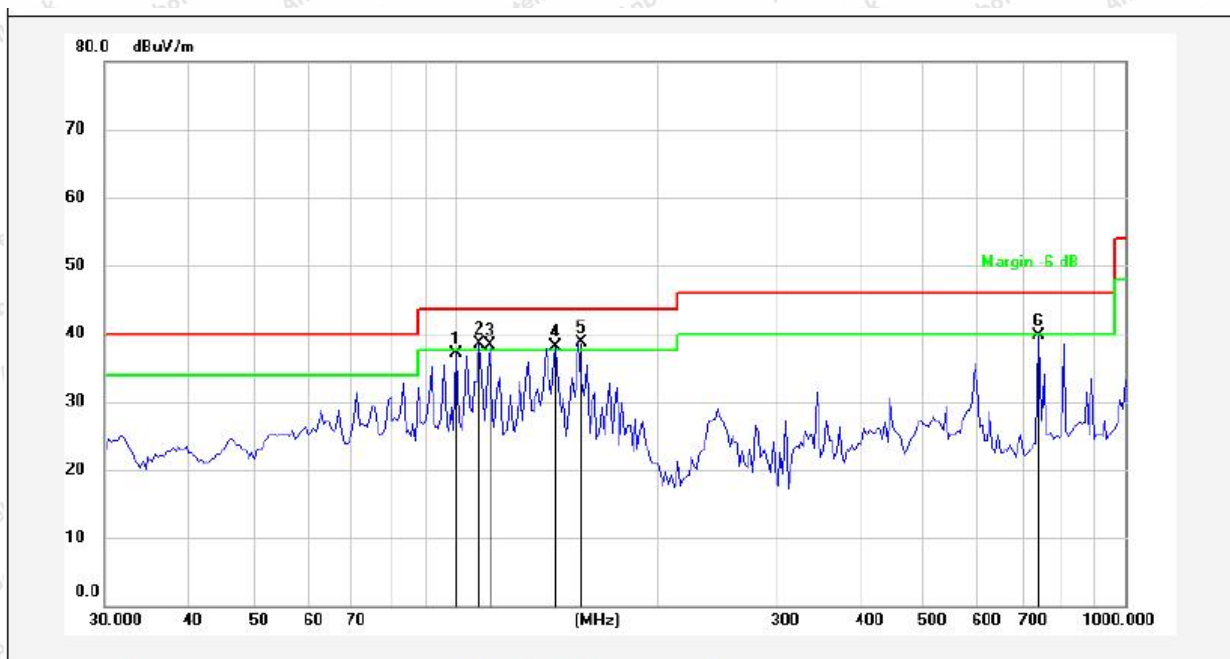
Test model: NW1493T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	100.5806	54.11	-17.03	37.08	43.50	-6.42	QP			
2	108.8375	56.57	-18.10	38.47	43.50	-5.03	QP			
3	112.7218	56.93	-18.61	38.32	43.50	-5.18	QP			
4	141.5776	59.37	-21.32	38.05	43.50	-5.45	QP			
5	153.2004	59.55	-20.93	38.62	43.50	-4.88	QP			
6	742.2586	46.48	-6.76	39.72	46.00	-6.28	QP			



Test Results (30~1000MHz)

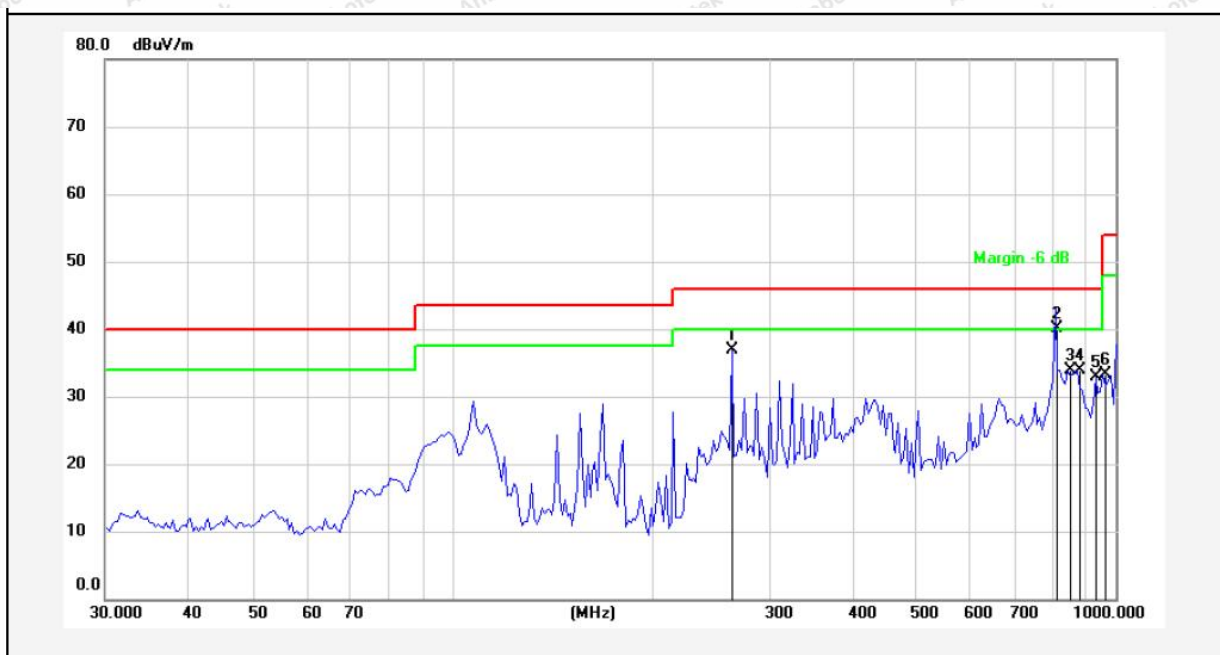
Test model: NW1693T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	263.8190	52.60	-15.73	36.87	46.00	-9.13	QP			
2	810.2654	45.91	-5.75	40.16	46.00	-5.84	QP			
3	846.5708	39.08	-5.24	33.84	46.00	-12.16	QP			
4	876.7829	38.69	-4.81	33.88	46.00	-12.12	QP			
5	932.2715	37.06	-4.15	32.91	46.00	-13.09	QP			
6	957.1148	37.17	-3.91	33.26	46.00	-12.74	QP			



Report No.: 18220WC20200101

FCC ID: 2ABC5-E0025

Page 26 of 45

Test Results (30~1000MHz)

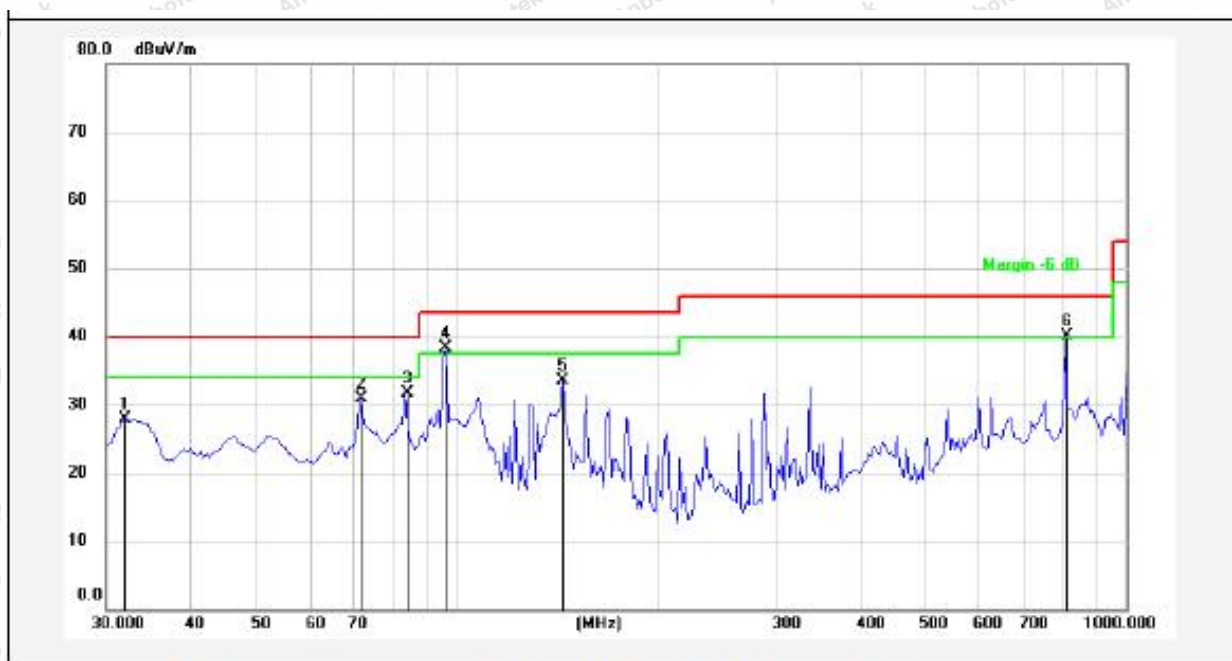
Test model: NW1693T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.8986	46.00	-18.04	27.96	40.00	-12.04	QP			
2	72.0843	52.61	-21.66	30.95	40.00	-9.05	QP			
3	83.6688	52.25	-20.45	31.80	40.00	-8.20	QP			
4	96.2672	55.71	-17.47	38.24	43.50	-5.26	QP			
5	144.0819	54.74	-21.26	33.48	43.50	-10.02	QP			
6	810.2654	45.78	-5.75	40.03	46.00	-5.97	QP			



Report No.: 18220WC20200101

FCC ID: 2ABC5-E0025

Page 27 of 45

Test Results (30~1000MHz)

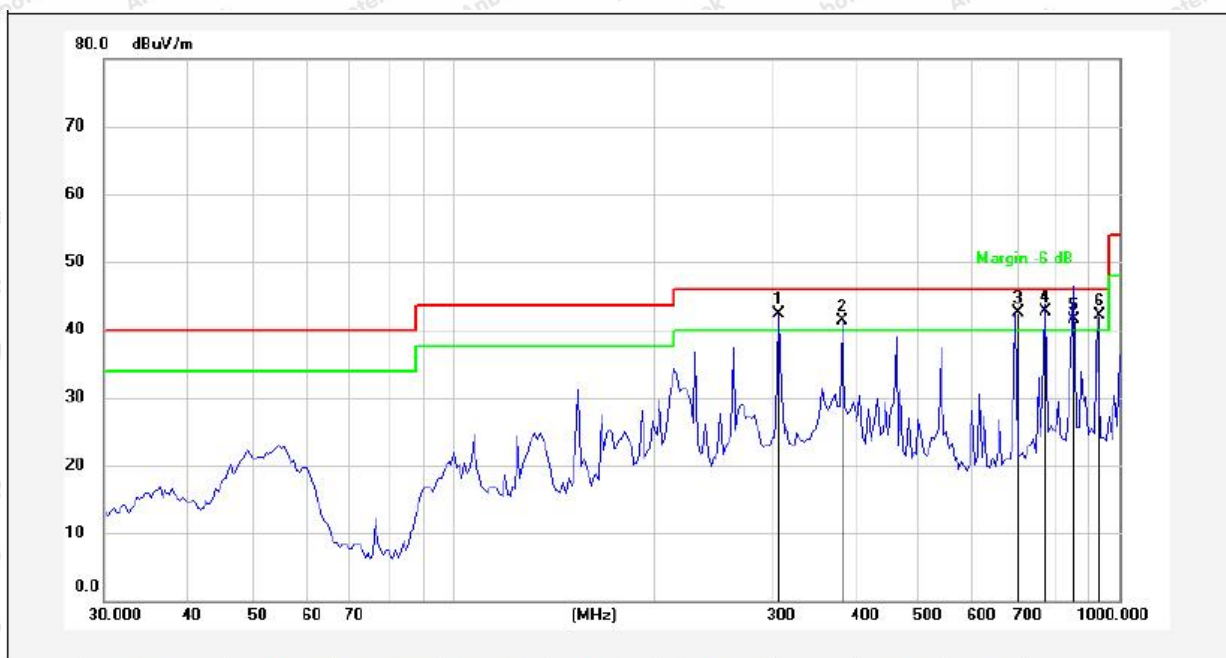
Test model: NW2193T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	308.9126	56.94	-14.63	42.31	46.00	-3.69	QP			
2	384.6055	54.08	-12.79	41.29	46.00	-4.71	QP			
3	698.0796	49.90	-7.42	42.48	46.00	-3.52	QP			
4	775.5169	48.90	-6.26	42.64	46.00	-3.36	QP			
5	854.0247	46.63	-5.14	41.49	46.00	-4.51	QP			
6	924.1346	46.25	-4.24	42.01	46.00	-3.99	QP			



Test Results (30~1000MHz)

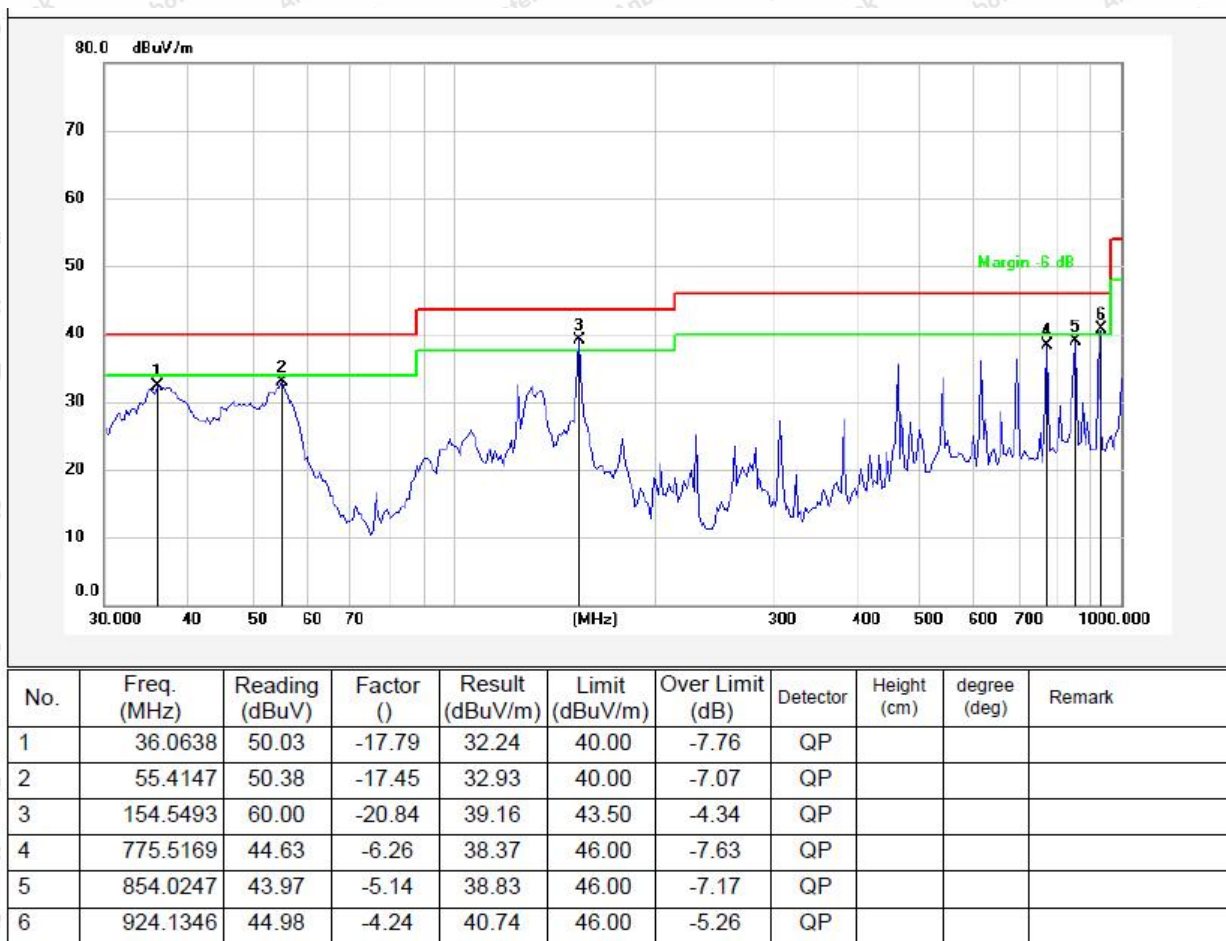
Test model: NW2193T

Test Mode: High CH (2480MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.5°C/50%RH



Test Results (1GHz-25GHz)

Test model: NW1493T

Test Mode: CH00

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.35	15.27	42.62	74.00	-31.38	Vertical
7206.00	27.61	18.09	45.70	74.00	-28.30	Vertical
9608.00	28.08	23.76	51.84	74.00	-22.16	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	27.11	15.27	42.38	74.00	-31.62	Horizontal
7206.00	27.72	18.09	45.81	74.00	-28.19	Horizontal
9608.00	27.64	23.76	51.40	74.00	-22.60	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	15.62	15.27	30.89	54.00	-23.11	Vertical
7206.00	16.66	18.09	34.75	54.00	-19.25	Vertical
9608.00	17.55	23.76	41.31	54.00	-12.69	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	15.44	15.27	30.71	54.00	-23.29	Horizontal
7206.00	16.75	18.09	34.84	54.00	-19.16	Horizontal
9608.00	17.15	23.76	40.91	54.00	-13.09	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW1493T

Test Mode: CH19

Test channel: Middle

Peak value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
4880.00	26.90	15.42	42.32	74.00	-31.68	Vertical
7320.00	27.58	18.02	45.60	74.00	-28.40	Vertical
9760.00	27.58	23.80	51.38	74.00	-22.62	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	26.92	15.42	42.34	74.00	-31.66	Horizontal
7320.00	27.59	18.02	45.61	74.00	-28.39	Horizontal
9760.00	27.36	23.80	51.16	74.00	-22.84	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	
4880.00	15.71	15.42	31.13	54.00	-22.87	polarization
7320.00	16.52	18.02	34.54	54.00	-19.46	Vertical
9760.00	17.40	23.80	41.20	54.00	-12.80	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	15.55	15.42	30.97	54.00	-23.03	Vertical
7320.00	17.10	18.02	35.12	54.00	-18.88	Horizontal
9760.00	17.45	23.80	41.25	54.00	-12.75	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW1493T

Test Mode: CH39

Test channel: Highest

Peak value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
4960.00	27.03	15.58	42.61	74.00	-31.39	Vertical
7440.00	27.74	17.93	45.67	74.00	-28.33	Vertical
9920.00	28.28	23.83	52.11	74.00	-21.89	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	27.06	15.58	42.64	74.00	-31.36	Horizontal
7440.00	27.80	17.93	45.73	74.00	-28.27	Horizontal
9920.00	27.74	23.83	51.57	74.00	-22.43	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	polarization
4960.00	16.83	15.58	32.41	54.00	-21.59	Vertical
7440.00	17.79	17.93	35.72	54.00	-18.28	Vertical
9920.00	18.05	23.83	41.88	54.00	-12.12	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	16.73	15.58	32.31	54.00	-21.69	Horizontal
7440.00	17.90	17.93	35.83	54.00	-18.17	Horizontal
9920.00	17.60	23.83	41.43	54.00	-12.57	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (1GHz-25GHz)

Test model: NW1693T

Test Mode: CH00

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.73	15.27	43.00	74.00	-31.00	Vertical
7206.00	27.92	18.09	46.01	74.00	-27.99	Vertical
9608.00	28.52	23.76	52.28	74.00	-21.72	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	27.46	15.27	42.73	74.00	-31.27	Horizontal
7206.00	28.18	18.09	46.27	74.00	-27.73	Horizontal
9608.00	27.80	23.76	51.56	74.00	-22.44	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	15.81	15.27	31.08	54.00	-22.92	Vertical
7206.00	16.81	18.09	34.90	54.00	-19.10	Vertical
9608.00	17.76	23.76	41.52	54.00	-12.48	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	15.61	15.27	30.88	54.00	-23.12	Horizontal
7206.00	16.97	18.09	35.06	54.00	-18.94	Horizontal
9608.00	17.23	23.76	40.99	54.00	-13.01	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW1693T

Test Mode: CH19

Test channel: Middle

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.28	15.42	42.70	74.00	-31.30	Vertical
7320.00	27.89	18.02	45.91	74.00	-28.09	Vertical
9760.00	28.02	23.80	51.82	74.00	-22.18	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	27.27	15.42	42.69	74.00	-31.31	Horizontal
7320.00	28.05	18.02	46.07	74.00	-27.93	Horizontal
9760.00	27.52	23.80	51.32	74.00	-22.68	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	
4880.00	16.09	15.42	31.51	54.00	-22.49	polarization
7320.00	16.83	18.02	34.85	54.00	-19.15	Vertical
9760.00	17.84	23.80	41.64	54.00	-12.36	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	15.90	15.42	31.32	54.00	-22.68	Vertical
7320.00	17.56	18.02	35.58	54.00	-18.42	Horizontal
9760.00	17.61	23.80	41.41	54.00	-12.59	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW1693T

Test Mode: CH39

Test channel: Highest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.41	15.58	42.99	74.00	-31.01	Vertical
7440.00	28.05	17.93	45.98	74.00	-28.02	Vertical
9920.00	28.72	23.83	52.55	74.00	-21.45	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	27.41	15.58	42.99	74.00	-31.01	Horizontal
7440.00	28.26	17.93	46.19	74.00	-27.81	Horizontal
9920.00	27.90	23.83	51.73	74.00	-22.27	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.21	15.58	32.79	54.00	-21.21	Vertical
7440.00	18.10	17.93	36.03	54.00	-17.97	Vertical
9920.00	18.49	23.83	42.32	54.00	-11.68	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	17.08	15.58	32.66	54.00	-21.34	Horizontal
7440.00	18.36	17.93	36.29	54.00	-17.71	Horizontal
9920.00	17.76	23.83	41.59	54.00	-12.41	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (1GHz-25GHz)

Test model: NW2193T

Test Mode: CH00

Test channel: Lowest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.16	15.27	43.43	74.00	-30.57	Vertical
7206.00	28.27	18.09	46.36	74.00	-27.64	Vertical
9608.00	29.02	23.76	52.78	74.00	-21.22	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	27.85	15.27	43.12	74.00	-30.88	Horizontal
7206.00	28.69	18.09	46.78	74.00	-27.22	Horizontal
9608.00	27.98	23.76	51.74	74.00	-22.26	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.43	15.27	31.70	54.00	-22.30	Vertical
7206.00	17.32	18.09	35.41	54.00	-18.59	Vertical
9608.00	18.49	23.76	42.25	54.00	-11.75	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	16.18	15.27	31.45	54.00	-22.55	Horizontal
7206.00	17.72	18.09	35.81	54.00	-18.19	Horizontal
9608.00	17.49	23.76	41.25	54.00	-12.75	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW2193T

Test Mode: CH19

Test channel: Middle

Peak value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
4880.00	27.71	15.42	43.13	74.00	-30.87	Vertical
7320.00	28.24	18.02	46.26	74.00	-27.74	Vertical
9760.00	28.52	23.80	52.32	74.00	-21.68	Vertical
12200.00	*			74.00		Vertical
14640.00	*			74.00		Vertical
4880.00	27.66	15.42	43.08	74.00	-30.92	Horizontal
7320.00	28.56	18.02	46.58	74.00	-27.42	Horizontal
9760.00	27.70	23.80	51.50	74.00	-22.50	Horizontal
12200.00	*			74.00		Horizontal
14640.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	
4880.00	16.52	15.42	31.94	54.00	-22.06	polarization
7320.00	17.18	18.02	35.20	54.00	-18.80	Vertical
9760.00	18.34	23.80	42.14	54.00	-11.86	Vertical
12200.00	*			54.00		Vertical
14640.00	*			54.00		Vertical
4880.00	16.29	15.42	31.71	54.00	-22.29	Vertical
7320.00	18.07	18.02	36.09	54.00	-17.91	Horizontal
9760.00	17.79	23.80	41.59	54.00	-12.41	Horizontal
12200.00	*			54.00		Horizontal
14640.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test model: NW2193T

Test Mode: CH39

Test channel: Highest

Peak value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.84	15.58	43.42	74.00	-30.58	Vertical
7440.00	28.40	17.93	46.33	74.00	-27.67	Vertical
9920.00	29.22	23.83	53.05	74.00	-20.95	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	27.80	15.58	43.38	74.00	-30.62	Horizontal
7440.00	28.77	17.93	46.70	74.00	-27.30	Horizontal
9920.00	28.08	23.83	51.91	74.00	-22.09	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.64	15.58	33.22	54.00	-20.78	Vertical
7440.00	18.45	17.93	36.38	54.00	-17.62	Vertical
9920.00	18.99	23.83	42.82	54.00	-11.18	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	17.47	15.58	33.05	54.00	-20.95	Horizontal
7440.00	18.87	17.93	36.80	54.00	-17.20	Horizontal
9920.00	17.94	23.83	41.77	54.00	-12.23	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

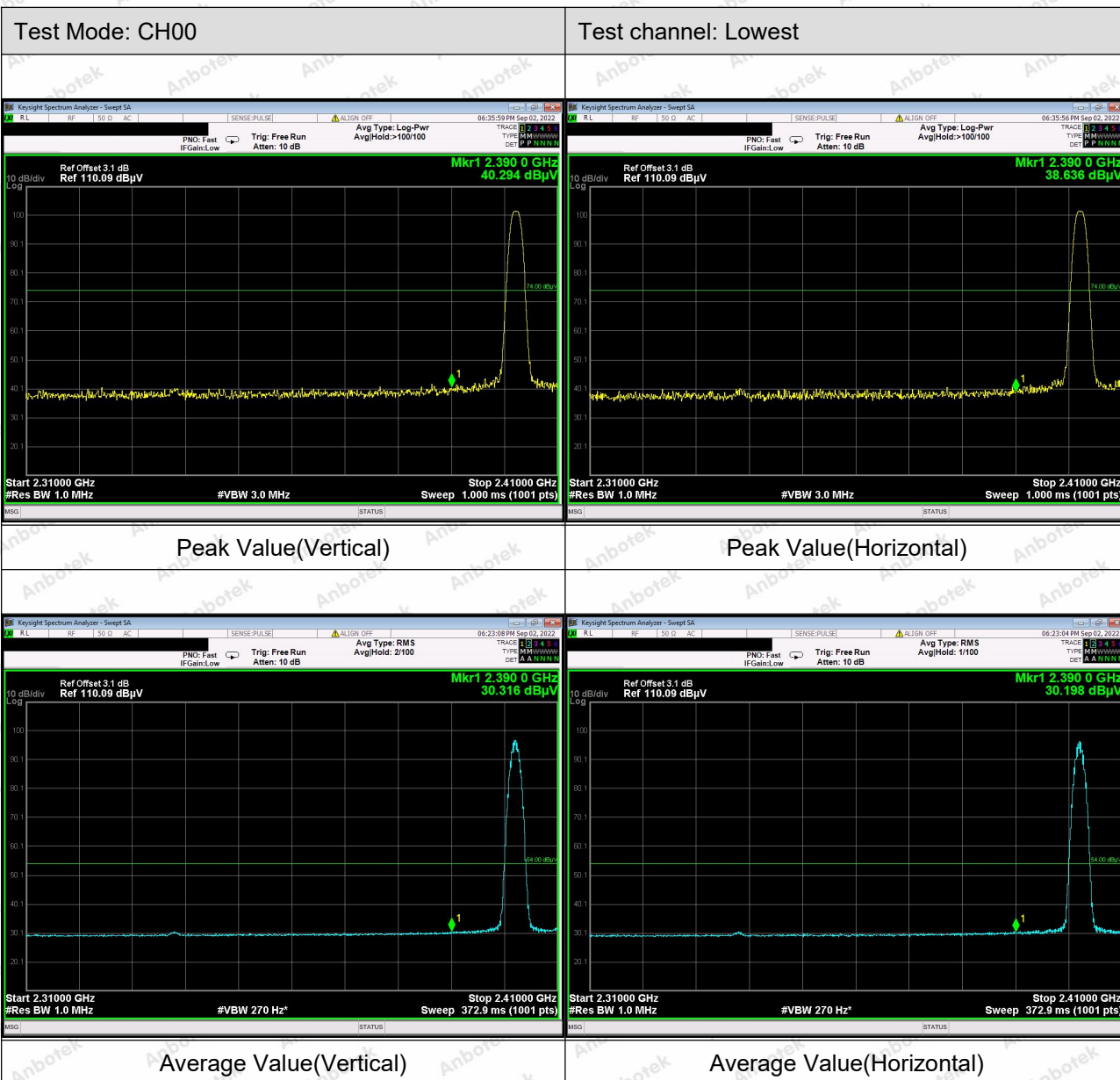
Remark:

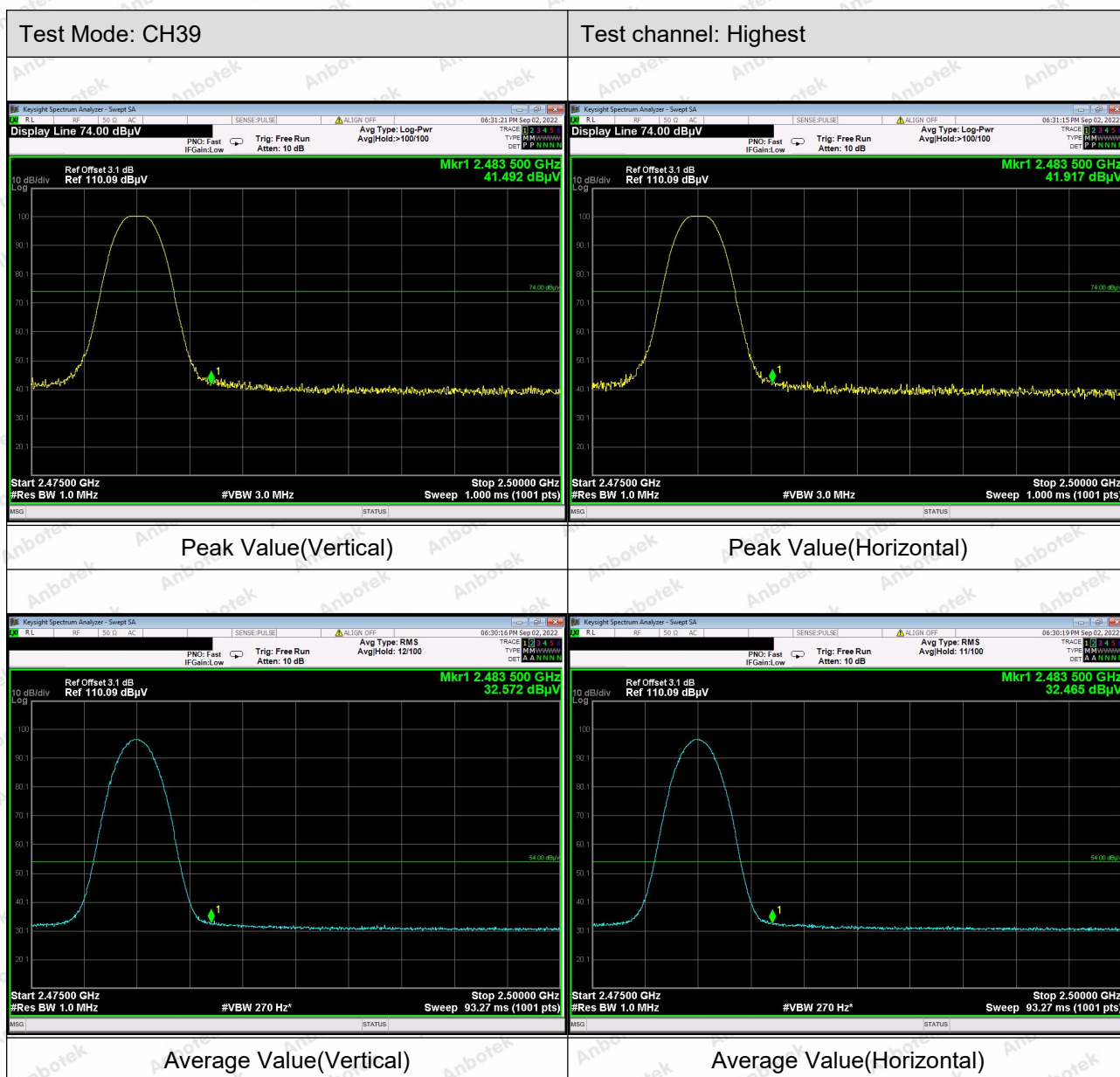
1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:



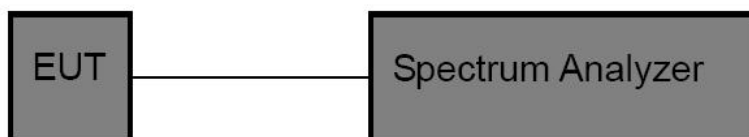


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	1W (30dBm)

5.2. Test Setup



5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

1. Set the RBW $\geq$ DTS bandwidth.
2. Set the VBW $\geq 3 \times$ RBW.
3. Set the span $\geq 3 \times$ RBW.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

5.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

Additional test for duty cycle.

Please refer to Appendix G of the Appendix Test Data.

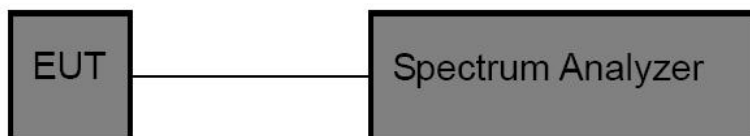


6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	≥500kHz

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 100kHz, VBW≥3*RBW
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

Please refer to Appendix A of the Appendix Test Data.

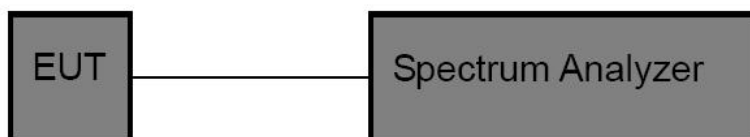


7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (e)
Test Limit	8dBm/3KHz

7.2. Test Setup



7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW $\geq 3 \times$ RBW, Span = 1.5x DTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.

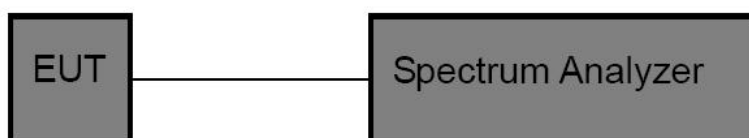


8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

8.4. Test Data

Pass

Please refer to Appendix E&F of the Appendix Test Data.



9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

9.2. Antenna Connected Construction

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 2.23 dBi . It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

