



FCC RADIO TEST REPORT

Applicant : Hypertechnologie Ciara Inc. Ciara Technologies Inc

Address : 9300 Trans-Canada Hwy Saint-Laurent QC H4S 1K5
Canada

Equipment : Notebook PC

Model No. : CRIUS CO100-G1

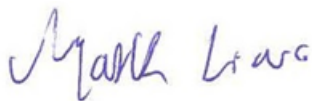
Trade Name : 

FCC ID : 2BDS2-CO100G1

I HEREBY CERTIFY THAT :

The sample was received on Mar. 27, 2024 and the testing was completed on Jul. 09, 2024 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
24030497-TRFCC02	Jul. 10, 2024	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

KDB 987594 D01 v02r02

KDB 987594 D02 v02r01

FCC KDB 662911 D01 v02r01

FCC KDB 412172 D01 v01r01

FCC Rule	Description of Test	Result	Remark
15.203	Antenna Requirement	PASS	-
15.207(a)	AC Power Line Conducted Emission	PASS	-
15.407(b) 15.209	Undesirable Emission	PASS	-
15.407(a)	26 dB & Occupied Bandwidth	PASS	-
15.407(a)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P.)	PASS	-
15.407(a)	Peak Power Spectral Density (E.I.R.P.)	PASS	-
15.407(d)	Contention-Based Protocol	PASS	-

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	6GHz: 802.11ax: 5925MHz~6425MHz, 6425MHz~6525MHz 6525MHz~6875MHz, 6875MHz~7125MHz
Center Frequency Range	6GHz: 802.11ax: 5955MHz~6415MHz, 6435MHz~6515MHz 6535MHz~6855MHz, 6875MHz~7115MHz
Modulation Type	6GHz: 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	OFDMA
Data Rate	802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	FPC Antenna
Antenna Gain	5925~7125MHz: ANT A: 1.88dBi, ANT B: 1.17dBi
Adapter	Brand: Jihongda Model: JHD-AP030U-PD-CF501
Type C Cable	Brand: Hong Zhan Xin Electronics Co.,Ltd. Model: E.BA.0000352

Note:

1. EUT is low-power client.
2. For more details, please refer to the User's manual of the EUT.
3. The EUT Only Support Full RU.
4. The device not support Channel Puncturing or Bandwidth Reduction mechanisms supported.



2.2. Carrier Frequency of Channels

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5925 ~ 7125	802.11ax(HE20)	5955 ~ 7115	1~233
5925 ~ 7125	802.11ax(HE40)	5965 ~ 7085	3~227
5925 ~ 7125	802.11ax(HE80)	5985 ~ 7025	7~215
5925 ~ 7125	802.11ax(HE160)	6025 ~ 6985	15~207

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX
802.11ax HE160	2TX



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, "DRTU Ver.DRTU.04956.22.250.0" under Windows OS system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps),Transmitter Mode, Power From Adapter
2	802.11ax HE40 (14.6Mbps),Transmitter Mode, Power From Adapter
3	802.11ax HE80 (30.6Mbps),Transmitter Mode, Power From Adapter
4	802.11ax HE160 (61.3Mbps),Transmitter Mode, Power From Adapter
caused "Test Mode 4" generated the worst case, it was reported as the final data.	
Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps),Transmitter Mode, Power From Adapter
2	802.11ax HE40 (14.6Mbps),Transmitter Mode, Power From Adapter
3	802.11ax HE80 (30.6Mbps),Transmitter Mode, Power From Adapter
4	802.11ax HE160 (61.3Mbps),Transmitter Mode, Power From Adapter
caused "Test Mode 4" generated the worst case, it was reported as the final data.	
Radiation Emissions (Above 1GHz)	
Test Mode	Operating Description
1	802.11ax HE20 (7.3Mbps),Transmitter Mode, Power From Adapter
2	802.11ax HE40 (14.6Mbps),Transmitter Mode, Power From Adapter
3	802.11ax HE80 (30.6Mbps),Transmitter Mode, Power From Adapter
4	802.11ax HE160 (61.3Mbps),Transmitter Mode, Power From Adapter
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	

Note:

There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

For AC Power Line Conducted Emission: AC 240V / 60Hz is worst case.

For Radiated Spurious Emission(Below 1GHz): AC 120V / 60Hz is worst case.

For Radiated Spurious Emission(Above 1GHz): AC 120V / 60Hz is worst case.

**2.4. Description of Test System**

CBP					
Equipment	Brand	Model	Length/Type	Power cord/Length/Type	FCC ID
Notebook	Lenovo	S2292L	N/A	Adapter / 1.8m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A	N/A
AP	NETGEAR	RAXE500	N/A	Adapter / 1.5m / NS	PY320300508



2.5. General Information of Test

☒ Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9KHz to 40,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2024/04/16	21.7℃ / 55%	Leon Huang
RF Conducted	RFCON01-NK	2024/5/6~2024/5/8	25.3~27.3℃ / 44~53%	Leon Huang
RF Conducted	RFCON01-NK	2024/05/24	25.5 / 51%	Leon Huang
RF Conducted	RFCON01-NK	2024/06/07	23 / 51%	Leon Huang
RF Conducted	RFCON01-NK	2024/07/09	25.9 / 47%	Leon Huang
Radiated Emissions	3M03-NK	2024/4/24~2024/04/26	24~25℃ / 56~66%	Park Chen
Radiated Emissions	3M03-NK	2024/05/23	23℃ / 50%	Park Chen
AC Power Line Conducted Emission	CON02-NK	2024/04/26	22.6℃ / 68%	Park Chen
CBP	RFDFS01-NK	2024/05/04	26℃ / 42%	Eason Hsu



2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A020514-2	2023/06/26	2024/06/25
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2024/01/16	2025/01/15
Horn Antenna	EMCO	3116	31974	2023/10/16	2024/10/15
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2023/08/17	2024/08/16
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2023/08/15	2024/08/14
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2023/07/05	2024/07/04
Preamplifier	EM Electronics corp.	EMC118A45V1SEE	980993	2023/10/16	2024/10/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2023/10/13	2024/10/12
Preamplifier	EM Electronics corp.	EM330	60820	2023/06/08	2024/06/07
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12
Cable-8m(10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2023/10/12	2024/10/11
Cable-3m(10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2023/10/12	2024/10/11
Cable-3m(10M-40G)	HUBER SUHNER	SF102	804619/2	2023/10/12	2024/10/11
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2023/10/12	2024/10/11
Cable-1m(1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2023/10/12	2024/10/11
Cable-4m(30M-1G)	HUBER SUHNER	RG-214	02953M	2023/9/20	2024/09/19
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	05094M	2023/9/4	2024/09/03
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00402M	2023/9/4	2024/09/03
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2023/07/03	2024/07/02
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR468FWC2B1	2023/08/18	2024/08/17
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2024/03/11	2025/03/10

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2023/11/06	2024/11/05
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19



Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2023/05/08	2024/05/07
TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	102185	2023/08/29	2024/08/28
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA

Test Item	CBP				
Test Site	RFDFS01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100291	2023/10/11	2024/10/10
MXG-B RF Vector Signal Generator + Frequency Extender	KEYSIGHT	N5182B+N5182BX07	MY53051383+ MY59362519	2024/02/16	2025/02/15
Control BOX	World-pallas	AD222	L4490A	NA	NA
IOT0047A	KEYSIGHT	V23.9.1.10	NA	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

4.2. Antenna Construction and Directional Gain

Antenna Type	FPC Antenna
Antenna Gain	5925MHz~7125MHz: ANT A: 1.88dBi, ANT B: 1.17dBi

5925MHz~7125MHz
For Power directional gain= $G_{ant}= 1.88 \text{ dBi}$ For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 4.54 (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

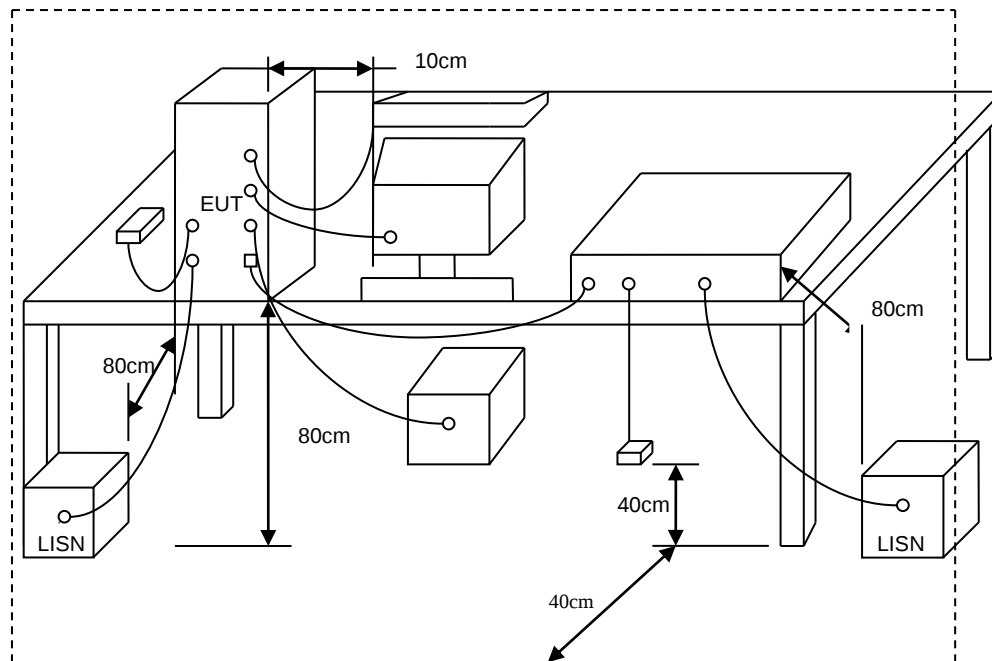
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3. Typical Test Setup

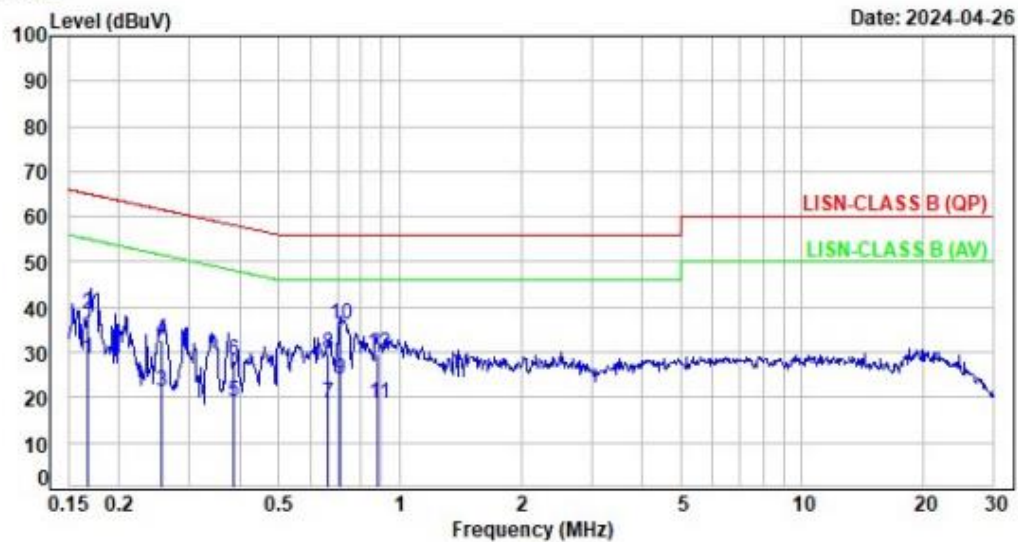




5.4. Test Result and Data

Test Mode : 2TX 11ax160 CH47 NSS1 MCS0
Voltage : From Adapter(AC 240V/60Hz)
Phase : Line

Data: 3



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.1672	9.64	18.83	28.47	55.10	-26.63	Average	P
2	0.1672	9.64	28.79	38.43	65.10	-26.67	QP	P
3	0.2544	9.63	11.69	21.32	51.61	-30.29	Average	P
4	0.2544	9.63	23.19	32.82	61.61	-28.79	QP	P
5	0.3855	9.65	9.21	18.86	48.16	-29.30	Average	P
6	0.3855	9.65	18.52	28.17	58.16	-29.99	QP	P
7	0.6600	9.64	9.07	18.71	46.00	-27.29	Average	P
8	0.6600	9.64	20.18	29.82	56.00	-26.18	QP	P
9	0.7125	9.64	14.41	24.05	46.00	-21.95	Average	P
10	0.7125	9.64	26.57	36.21	56.00	-19.79	QP	P
11	0.8832	9.64	9.03	18.67	46.00	-27.33	Average	P
12	0.8832	9.64	19.99	29.63	56.00	-26.37	QP	P

Note: Level=Reading+Factor

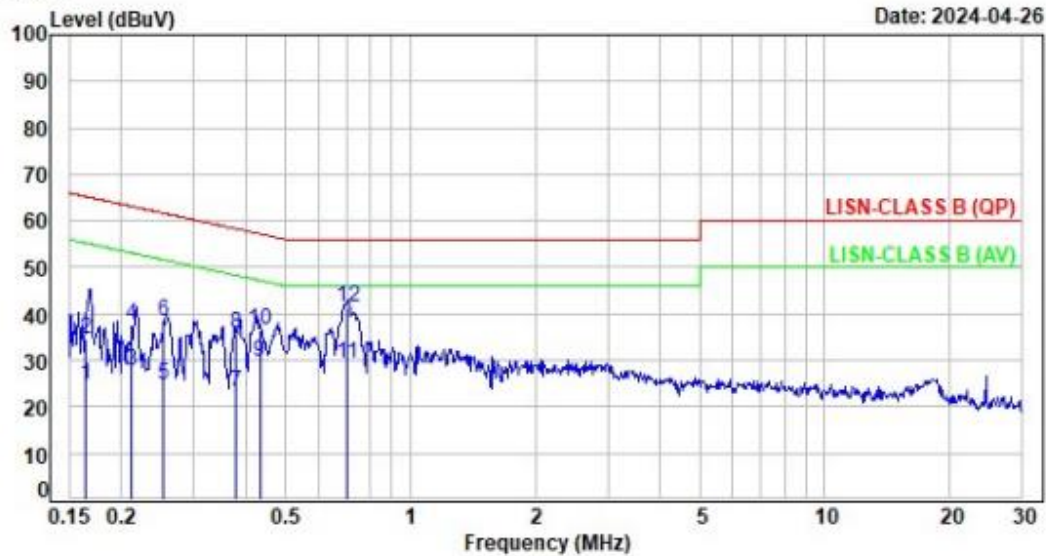
Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Test Mode : 2TX 11ax160 CH47 NSS1 MCS0
Voltage : From Adapter(AC 240V/60Hz)
Phase : Neutral

Data: 4



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1635	9.56	14.98	24.54	55.28	-30.74	Average	P
2	0.1635	9.56	25.06	34.62	65.28	-30.66	QP	P
3	0.2123	9.58	18.02	27.60	53.11	-25.51	Average	P
4	0.2123	9.58	28.24	37.82	63.11	-25.29	QP	P
5	0.2519	9.57	15.10	24.67	51.70	-27.03	Average	P
6	0.2519	9.57	28.72	38.29	61.70	-23.41	QP	P
7	0.3780	9.56	13.50	23.06	48.32	-25.26	Average	P
8	0.3780	9.56	26.08	35.64	58.32	-22.68	QP	P
9	0.4322	9.56	20.28	29.84	47.21	-17.37	Average	P
10	0.4322	9.56	26.82	36.38	57.21	-20.83	QP	P
11	0.7036	9.58	19.73	29.31	46.00	-16.69	Average	P
12	0.7036	9.58	31.75	41.33	56.00	-14.67	QP	P

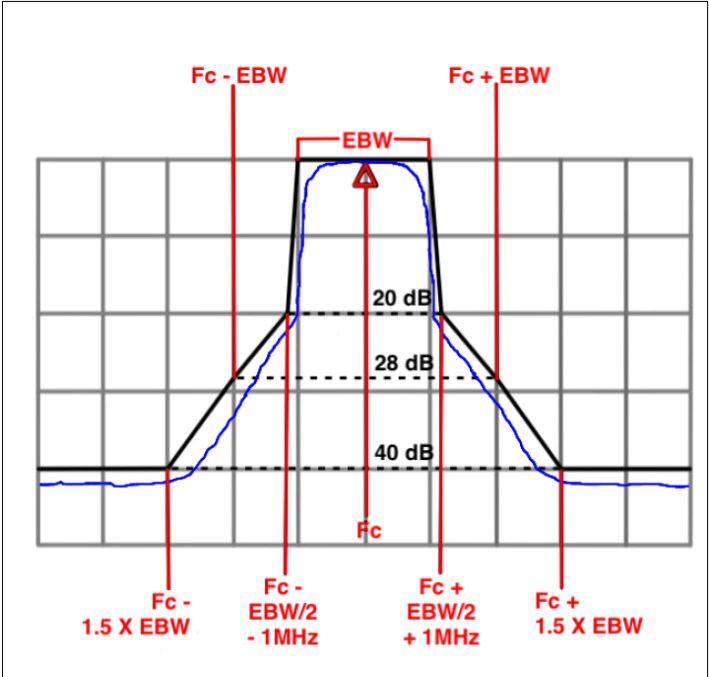
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Undesirable Emission (Radiated)

6.1. Test Limit

Un-restricted band emissions above 1GHz Limit

Frequency	Limit
Any outside the 5.945 – 7.125 GHz emission	e.i.r.p. -27 dBm [68.2 dBuV/m@3m] Note : -27 dBm EIRP OOBE is measured RMS which is a deviation from the current 15E rules for 5 GHz bands. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.
5.945 – 7.125 GHz	Emission MASK Limit Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one and one-half times the channel bandwidth must be suppressed by at least 40 dB. 



6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

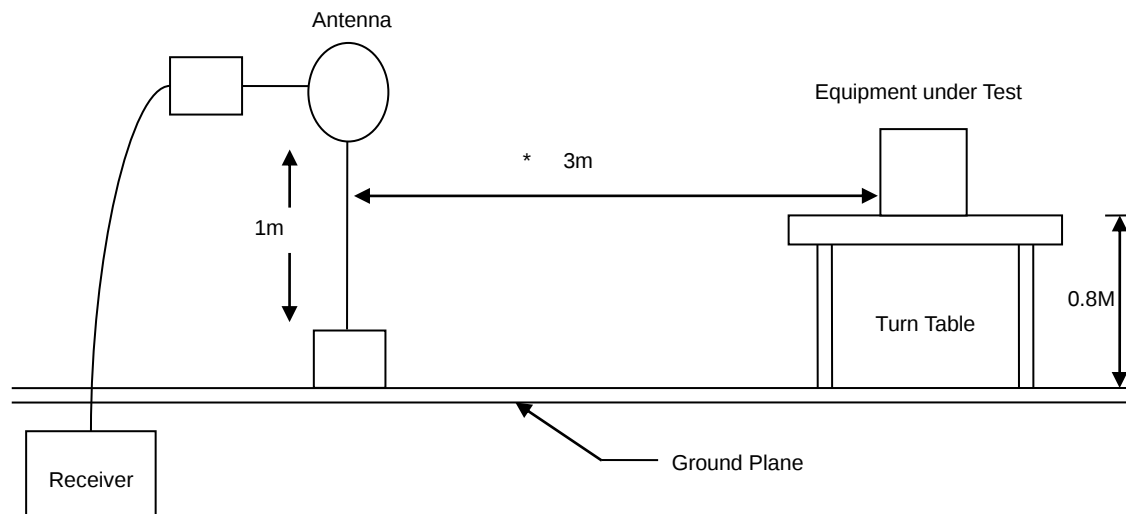
Note:

- 1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
- 2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.
- 3.Emission Level(dBuV/m)= 20log Emission Level(uV/m).
 $1\text{m Emission Limit Level} = 3\text{m Emission Limit Level} + 20 \log(3\text{m} / 1\text{m}).$

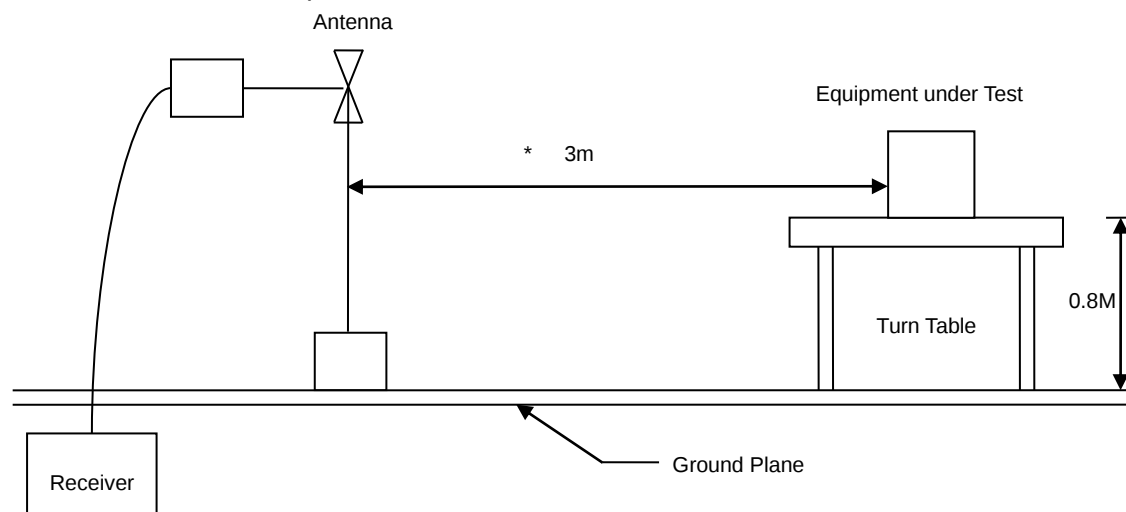


6.3. Typical Test Setup

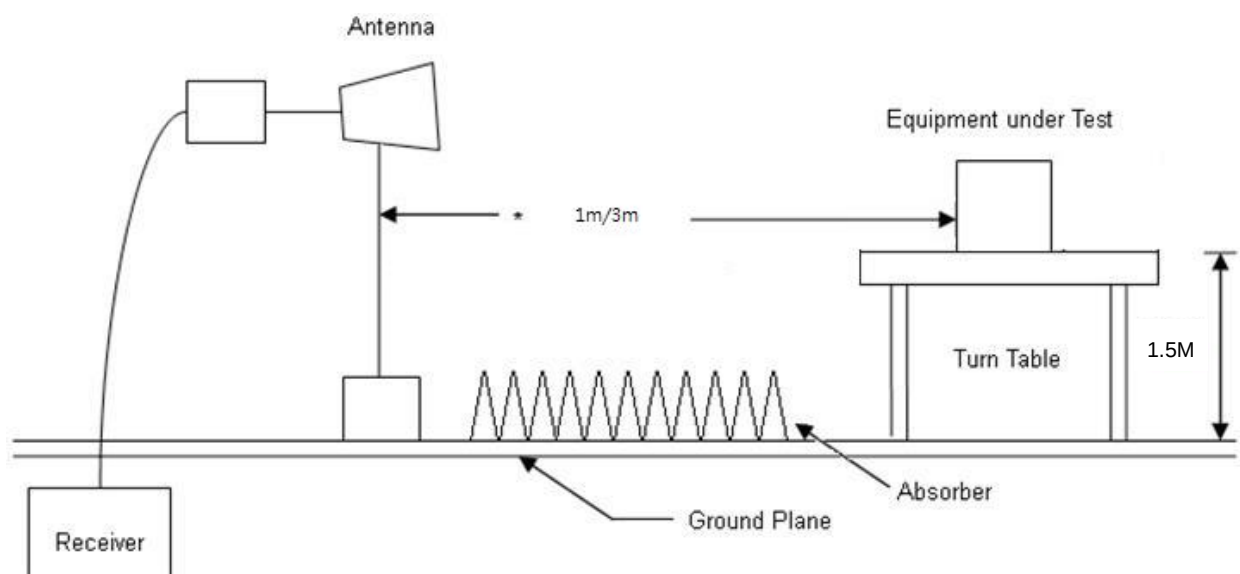
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





6.4. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

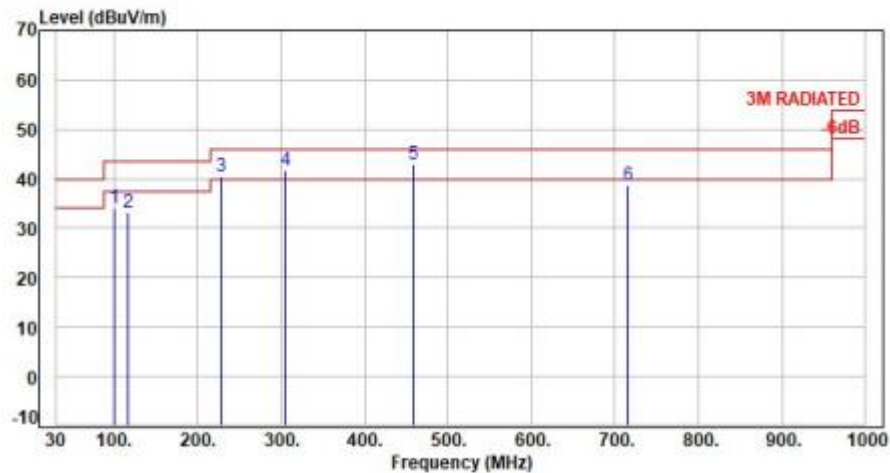


6.5. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.6. Test Result and Data (30MHz ~ 1GHz)

Test Mode : 2TX 11ax160 CH47 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	99.84	-14.67	48.67	34.00	43.50	-9.50	Peak	400	360	P
2	117.30	-10.85	44.07	33.22	43.50	-10.28	Peak	400	360	P
3	227.88	-13.03	53.47	40.44	46.00	-5.56	Peak	400	360	P
4	305.48	-10.06	51.06	41.00	46.00	-4.20	Peak	400	360	P
5	458.74	-5.71	48.68	42.97	46.00	-3.03	QP	100	124	P
6	714.82	-1.17	39.79	38.62	46.00	-7.38	Peak	400	360	P

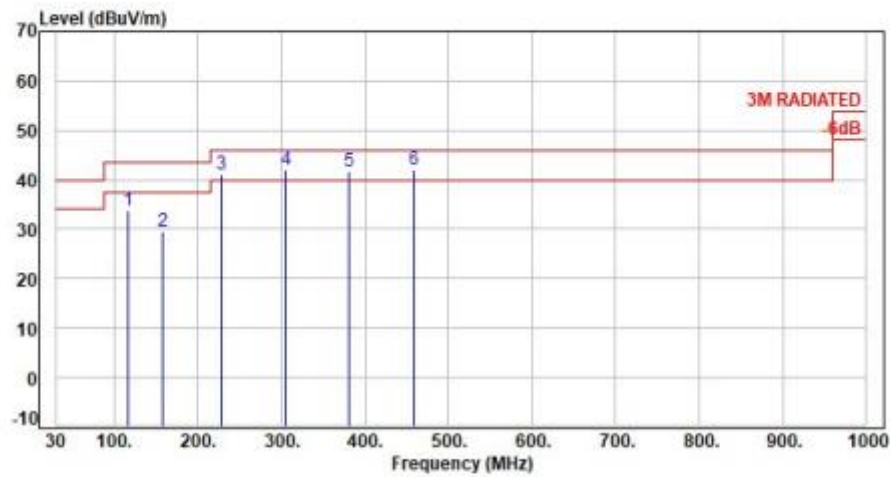
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax160 CH47 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	117.30	-10.85	44.67	33.82	43.50	-9.68	Peak	400	360	P
2	158.04	-12.48	41.90	29.42	43.50	-14.08	Peak	400	360	P
3	227.88	-13.03	54.18	41.15	46.00	-4.85	Peak	400	360	P
4	305.48	-10.06	52.22	42.16	46.00	-3.84	QP	100	261	P
5	381.14	-8.14	49.76	41.62	46.00	-4.38	Peak	400	360	P
6	458.74	-5.71	47.59	41.88	46.00	-4.12	Peak	400	360	P

Note: Level=Reading+Factor

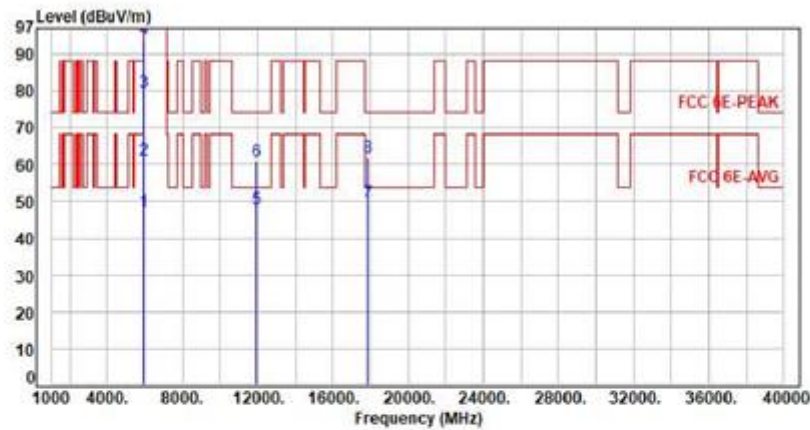
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.7. Test Result and Data (1GHz ~ 40GHz)

Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From Adapter(AC 110V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	46.20	47.05	68.20	-21.15	Average	208	65	P
2	5925.00	0.85	60.29	61.14	88.20	-27.06	Peak	208	65	P
3	5955.00	0.88	78.78	79.66	200.00	-120.34	Average	208	65	P
4	5955.00	0.88	93.29	94.17	200.00	-105.83	Peak	208	65	P
5	11910.00	3.86	44.24	48.10	54.00	-5.90	Average	100	164	P
6	11910.00	3.86	57.05	60.91	74.00	-13.09	Peak	100	164	P
7	17865.00	4.86	44.81	49.67	54.00	-4.33	Average	100	23	P
8	17865.00	4.86	56.96	61.82	74.00	-12.18	Peak	100	23	P

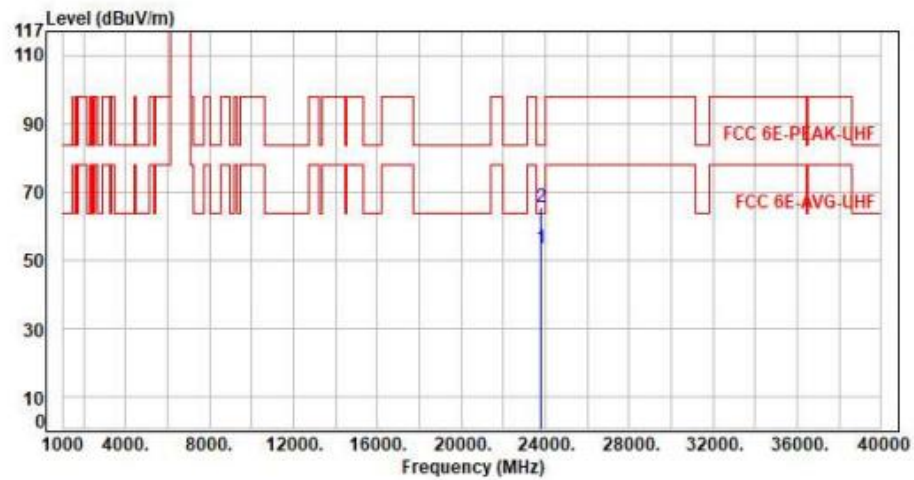
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	23820.00	11.19	42.14	53.33	63.54	-10.21	Average	150	360	P
2	23820.00	11.19	54.29	65.48	83.54	-18.06	Peak	150	360	P

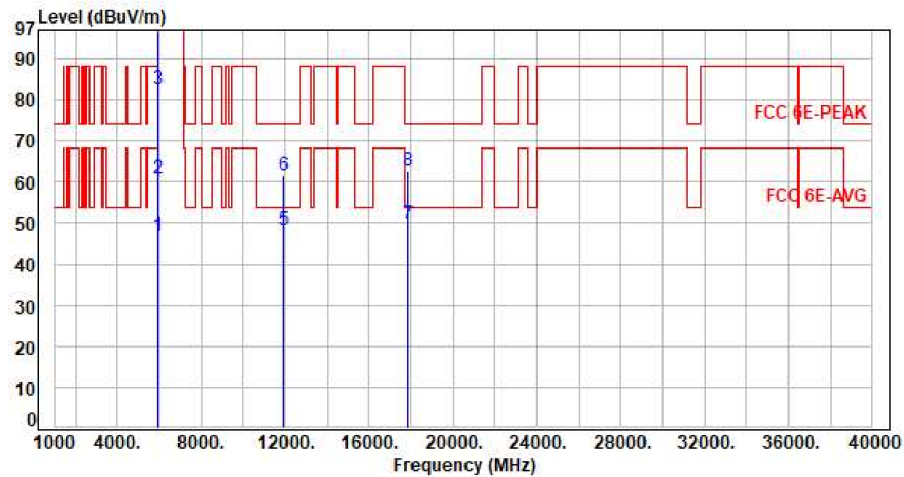
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From Adapter(AC 110V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	46.10	46.95	68.20	-21.25	Average	100	181	P
2	5925.00	0.85	60.02	60.87	88.20	-27.33	Peak	100	181	P
3	5955.00	0.88	81.58	82.46	200.00	-117.54	Average	100	181	P
4	5955.00	0.88	95.56	96.44	200.00	-103.56	Peak	100	181	P
5	11910.00	3.86	44.38	48.24	54.00	-5.76	Average	100	230	P
6	11910.00	3.86	57.75	61.61	74.00	-12.39	Peak	100	230	P
7	17865.00	4.86	44.81	49.67	54.00	-4.33	Average	100	266	P
8	17865.00	4.86	57.98	62.84	74.00	-11.16	Peak	100	266	P

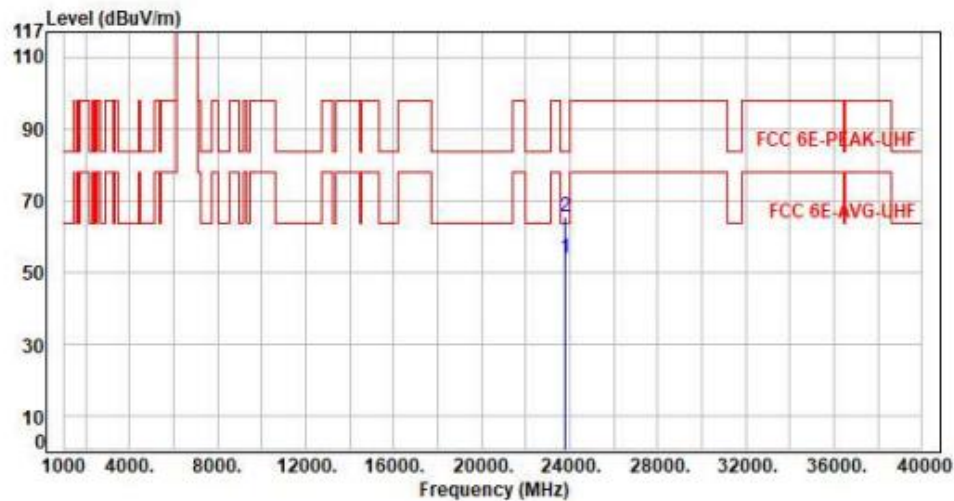
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	23820.00	11.19	42.57	53.76	63.54	-9.78	Average	150	360	P
2	23820.00	11.19	54.36	65.55	83.54	-17.99	Peak	150	360	P

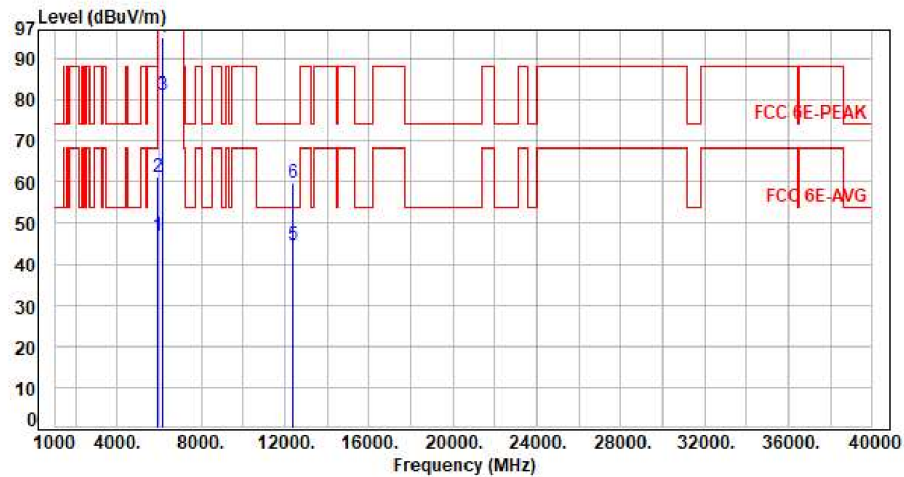
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH45 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

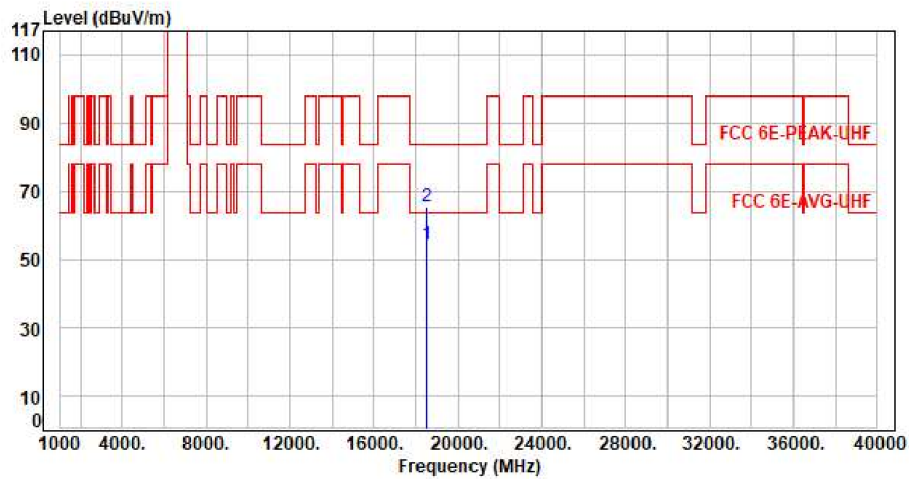


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	45.91	46.76	68.20	-21.44	Average	204	62	P
2	5925.00	0.85	60.20	61.05	88.20	-27.15	Peak	204	62	P
3	6175.00	1.59	79.68	81.27	200.00	-118.73	Average	204	62	P
4	6175.00	1.59	93.58	95.17	200.00	-104.83	Peak	204	62	P
5	12350.00	3.97	40.70	44.67	54.00	-9.33	Average	100	164	P
6	12350.00	3.97	55.95	59.92	74.00	-14.08	Peak	100	164	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH45 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

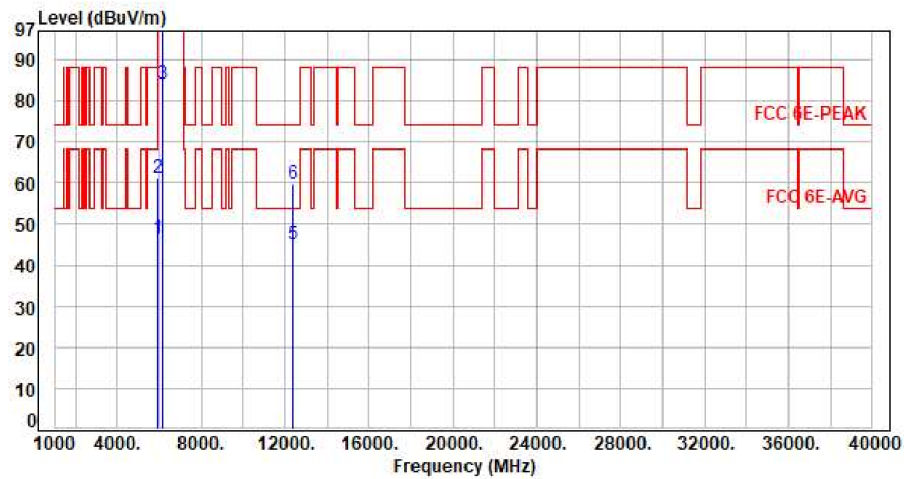


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	18525.00	10.45	43.97	54.42	63.54	-9.12	Average	150	360	P
2	18525.00	10.45	54.80	65.25	83.54	-18.29	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH45 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal

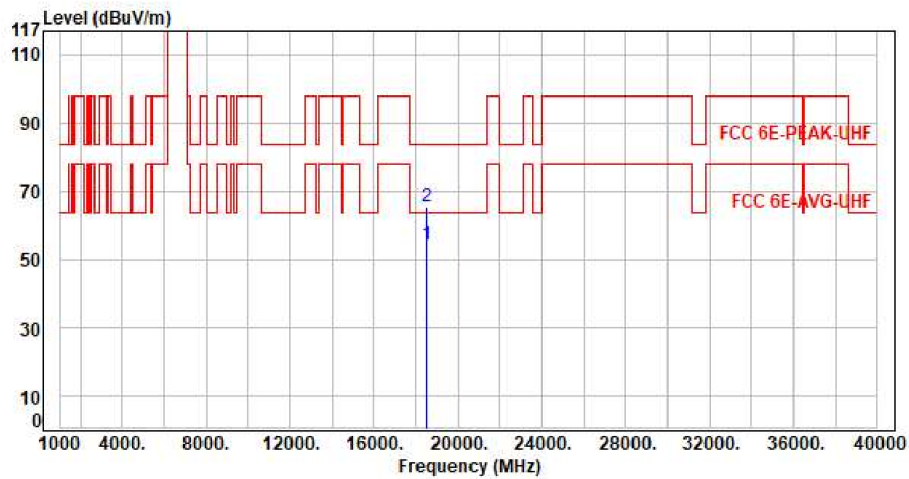


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	45.58	46.43	68.20	-21.77	Average	100	186	P
2	5925.00	0.85	60.26	61.11	88.20	-27.09	Peak	100	186	P
3	6175.00	1.59	82.47	84.06	200.00	-115.94	Average	100	186	P
4	6175.00	1.59	96.88	98.47	200.00	-101.53	Peak	100	186	P
5	12350.00	3.97	40.96	44.93	54.00	-9.07	Average	100	234	P
6	12350.00	3.97	55.83	59.80	74.00	-14.20	Peak	100	234	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH45 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal

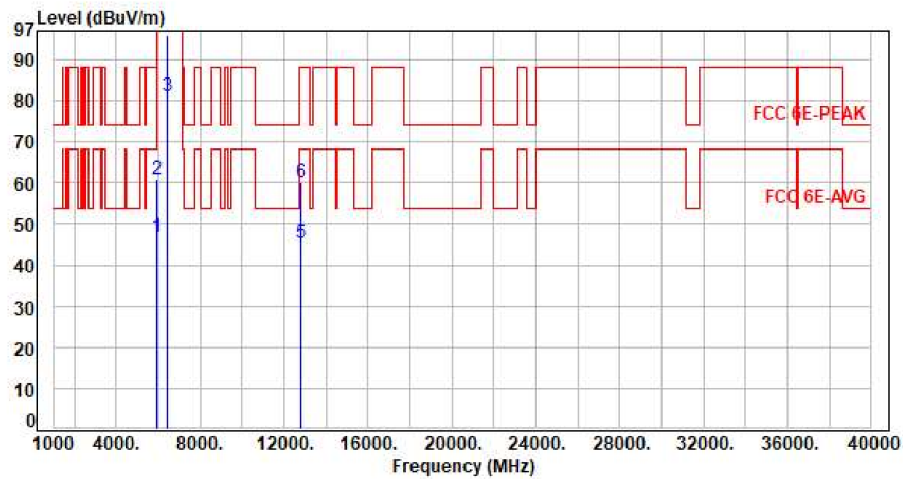


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	18525.00	10.45	43.87	54.32	63.54	-9.22	Average	150	360	P
2	18525.00	10.45	55.10	65.55	83.54	-17.99	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH93 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

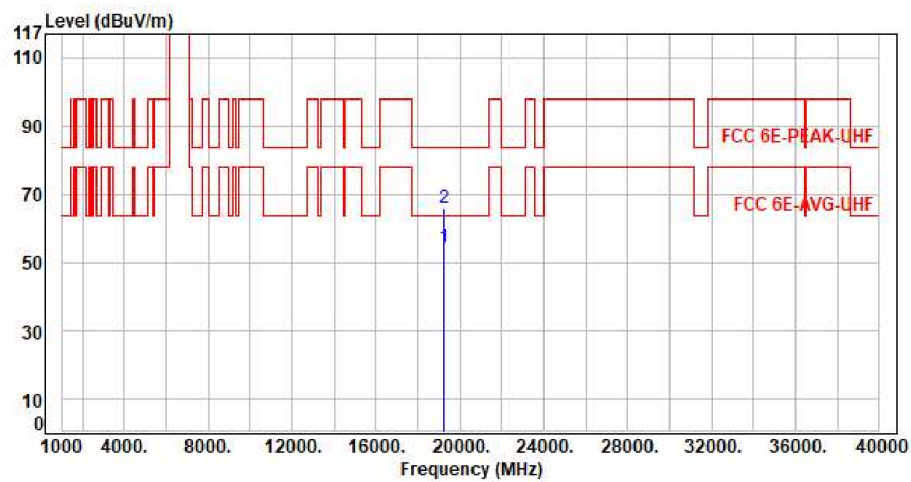


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	45.90	46.75	68.20	-21.45	Average	209	65	P
2	5925.00	0.85	59.94	60.79	88.20	-27.41	Peak	209	65	P
3	6415.00	2.92	78.13	81.05	200.00	-118.95	Average	209	65	P
4	6415.00	2.92	93.06	95.98	200.00	-104.02	Peak	209	65	P
5	12830.00	4.68	40.55	45.23	68.20	-22.97	Average	100	162	P
6	12830.00	4.68	55.41	60.09	88.20	-28.11	Peak	100	162	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH93 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

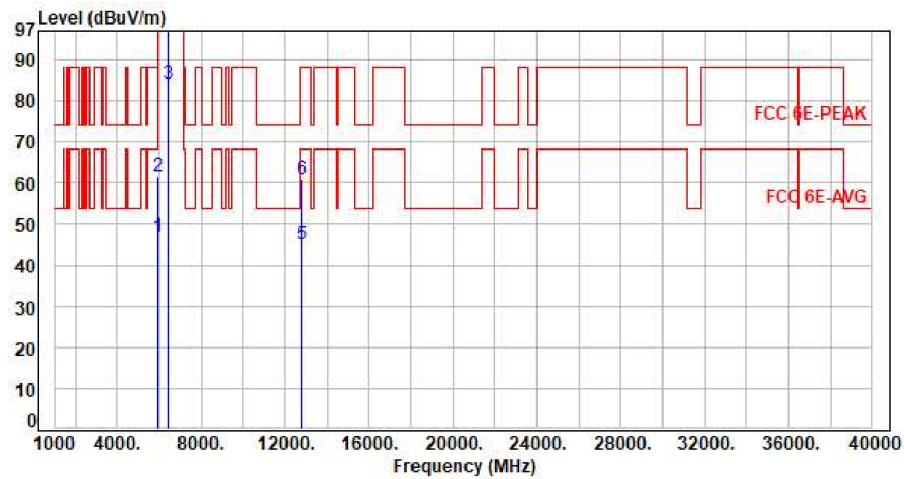


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	19245.00	10.81	43.66	54.47	63.54	-9.07	Average	150	360	P
2	19245.00	10.81	54.97	65.78	83.54	-17.76	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH93 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5925.00	0.85	45.93	46.78	68.20	-21.42	Average	100	181	P
2	5925.00	0.85	60.72	61.57	88.20	-26.63	Peak	100	181	P
3	6415.00	2.92	81.27	84.19	200.00	-115.81	Average	100	181	P
4	6415.00	2.92	96.05	98.97	200.00	-101.03	Peak	100	181	P
5	12830.00	4.68	40.39	45.07	68.20	-23.13	Average	100	234	P
6	12830.00	4.68	56.21	60.89	88.20	-27.31	Peak	100	234	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor