FCC RADIO TEST REPORT

Applicant	:	Ubiquiti Inc.
Address	:	685 Third Avenue, New York, New York 10017, USA
Equipment	:	PoE Audio Port
Model No.	:	UPL-Port-W, UPL-Port-B
Trade Name	:	UBIQUITI
FCC ID	:	SWX-UPLP

I HEREBY CERTIFY THAT :

The sample was received on May. 09, 2025 and the testing was completed on Jul. 01, 2025 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Vic Hsiao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

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History of this test report

Report No.	Issued Date	Description
25040713-TRFCC03	Jul. 01, 2025	Original

1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Output Power	PASS
15.247(e)	. Power Spectral Density	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

Frequency Range	BT/BLE: 2400-2483.5MHz 802.11b/g/n/ax: 2400-2483.5MHz 802.11a/n/ac/ax: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
Center Frequency Range	BT/BLE: 2402-2480MHz 802.11b/g/n/ax: 2412MHz-2462MHz 802.11a/n/ac/ax: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Modulation Type	BT: GFSK, π/4-DQPSK, 8DPSK BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	FHSS, DTS, DSSS, OFDM, OFDMA
Data Rate	BT: GFSK: 1Mbps, π/4-DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ax: MCS0 – MCS11, HE20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80
Antenna Type	BT/BLE: Dipole Antenna WLAN 2.4GHz/5GHz: PIFA Antenna
Antenna Gain	BT/BLE: 2400MHz-2500MHz: 1.0dBi WLAN: 2400MHz-2500MHz: ANT A: 2.0dBi; ANT B: 2.0dBi 5180MHz-5850MHz: ANT A: 6.0dBi; ANT B: 6.0dBi
Adapter	UBIQUITI \ ADS-18LD-12 12018EPCU

Note:
1. EUT support TPC Function.
2. EUT supports DFS Client Mode, without radar detection.
3. For more details, please refer to the User's manual of the EUT.

Difference description:

Model No.	Color of Enclosure
UPL-Port-W	White
UPL-Port-B	Black

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, 802.11ax HE20 (2412MHz-2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
***01**	**2412**	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	***11**	**2462**
***06**	**2437**	---	---

802.11n HT40, 802.11ax HE40 (2422MHz-2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
***03**	**2422**	***09**	**2452**
04	2427	---	---
05	2432	---	---
***06**	**2437**	---	---

Note: Channels remarked * are selected to perform test.

2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.

b. An executive program, ”iwpriv command Ver.: N/A” under Windows 10 system was executed to transmit and receive data via WLAN.

c. The test Model No. is UPL-Port-B. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode 1	802.11ax HE20 (7.3Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 2	802.11ax HE20 (7.3Mbps), TX Mode, Power from PoE (AC 120V/60Hz)
Test Mode 3	802.11ax HE20 (7.3Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiated Emissions (30MHz ~ 1GHz)	
Test Mode 1	802.11ax HE20 (7.3Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 2	802.11ax HE20 (7.3Mbps), TX Mode, Power from PoE (AC 120V/60Hz)
Test Mode 3	802.11ax HE20 (7.3Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiated Emissions (1GHz ~ 25GHz)	
Test Mode 1	TX Mode, Power from Adapter (AC 120V/60Hz)

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	1TX (Diversity)
802.11g	1TX (Diversity)
802.11n HT20	2TX
802.11n HT40	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX

*After engineering evaluation, SISO ANT B is the worst case.

2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A

Radiated Emissions (3M02-NK)				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5270	N/A	Adapter / 1.8m / NS
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
PoE	UBIQUITI	GP-V480-032G	N/A	0.6m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

Radiated Emissions (3M03-NK)				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
PoE	UBIQUITI	GP-V480-032G	N/A	0.6m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
Type-C Cable (Blue)	kolin	KEX-DLCP08	1m / NS	N/A
PoE	UBIQUITI	GP-V480-032G	N/A	0.6m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

2.5 General Information of Test

Organization	Cerpass Technology Corp.	
☒ Test Site	Cerpass 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 25,000MHz	
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	2025/05/26	23.9°C / 53%	Leon Huang
RF Conducted	RFCON01-NK	2025/07/01	25.9°C / 47%	Leon Huang
Radiated Emissions (Above 1G)	3M02-NK	2025/05/22	19.2°C / 62%	Leon Huang
Radiated Emissions (Below 1G)	3M03-NK	2025/05/24	19.5°C / 64%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/05/24	21.4°C / 59%	Leon Huang

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)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±5.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±7.6%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%

3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions(Above 1G)				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
Bilog Antenna	Schwarzbeck	VULB9168	VULB 9168-369	2025/02/17	2026/02/16
Active Loop Antenna	EMCO	6507	00040855	2025/04/28	2026/04/27
Horn Antenna	EMCO	3116	31974	2024/10/18	2025/10/17
Horn Antenna	EMCO	3115	31589	2025/02/20	2026/02/19
Spectrum Analyzer	R&S	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	R&S	ESCI	101423	2024/07/16	2025/07/15
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SEE	980993	2024/10/24	2025/10/23
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60820	2024/06/14	2025/06/13
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Cable-3in1 (30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2025/02/21	2026/02/20
Cable-0.5m (1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2025/02/26	2026/02/25
Cable-3m (1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2025/02/26	2026/02/25
Cable-8m (1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2025/02/26	2026/02/25
Cable-3m (10M-40G)	HUBER SUHNER	SF102	804619/2	2024/10/14	2025/10/13
Cable-1m (10M-40G)	HUBER SUHNER	SF102	804398/2	2024/10/14	2025/10/13
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	Radiated Emissions(Below 1G)				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
Bilog Antenna	Sunol	JB1	A020514-2	2024/07/09	2025/07/08
Active Loop Antenna	EMCO	6507	00040855	2025/04/28	2026/04/27
Horn Antenna	EMCO	3116	31974	2024/10/18	2025/10/17
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2024/08/28	2025/08/27
Spectrum Analyzer	R&S	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	R&S	ESCI	101423	2024/07/16	2025/07/15
Preamplifier	EMC INSTRUMENTS	EMC0518A45SE	981069	2024/12/17	2025/12/16
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60820	2024/06/14	2025/06/13
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Cable-8m (10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2024/10/14	2025/10/13
Cable-3m (10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2024/10/14	2025/10/13
Cable-1m (10M-40G)	HUBER SUHNER	SF102	804398/2	2024/10/14	2025/10/13
Cable-1m (1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2024/10/14	2025/10/13
Cable-4m (30M-1G)	HUBER SUHNER	RG-214	02953M	2024/09/04	2025/09/03
Cable-1m (30M-1G)	HUBER SUHNER	RG-214	05094M	2024/09/04	2025/09/03
Cable-9m (30M-1G)	HUBER SUHNER	RG-214	00402M	2024/09/04	2025/09/03
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2024/07/03	2025/07/02
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR377WC2B2	2024/10/15	2025/10/14

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
Spectrum Analyzer	R&S	FSP 40	100047	2025/03/03	2026/03/02
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11
Cable-0.5m (30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2024/10/24	2025/10/23
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Switch Box	Theda	1-4	TW5451159	NA	NA

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
EMI Receiver	R&S	ESCI	101423	2024/07/16	2025/07/15
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
LISN	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Two-Line V-Network	R&S	ENV216	102185	2024/08/27	2025/08/26

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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain	ANT A: 2.0dBi; ANT B: 2.0dBi

SISO-ANT A:
For Power directional gain= G_{ant} = 2.00 dBi
For PSD directional gain = G_{ant} = 2.00dBi

SISO-ANT B:
For Power directional gain= G_{ant} = 2.00 dBi
For PSD directional gain = G_{ant} = 2.00dBi

MIMO:
For Power directional gain= G_{ant}= 2.00 dBi
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$
= 5.01 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.

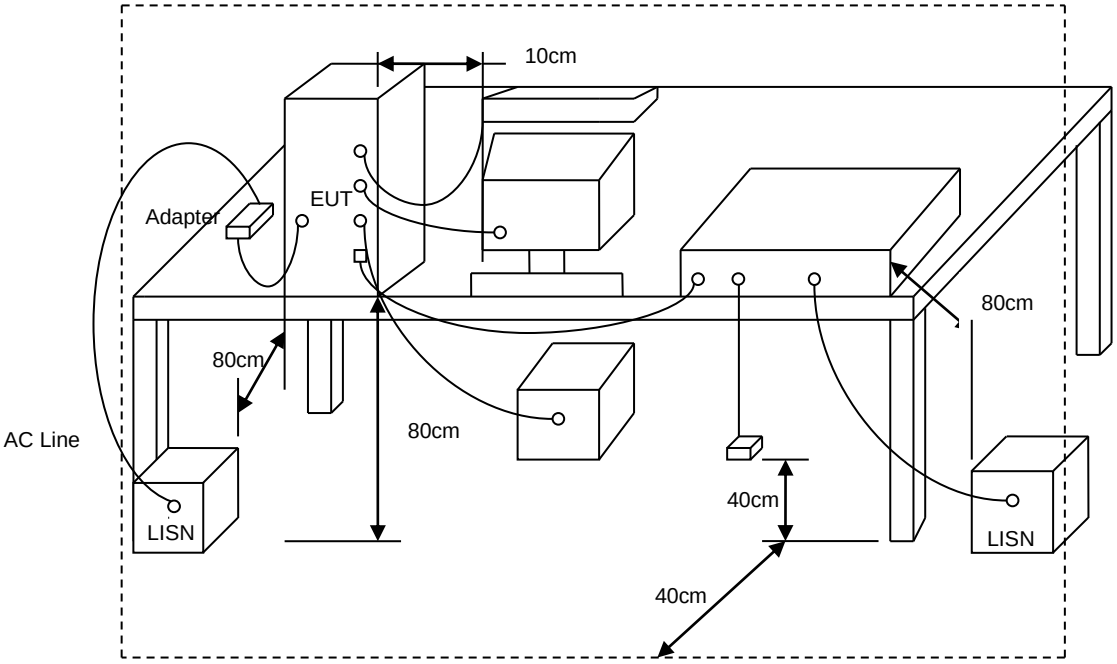
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

a. 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.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

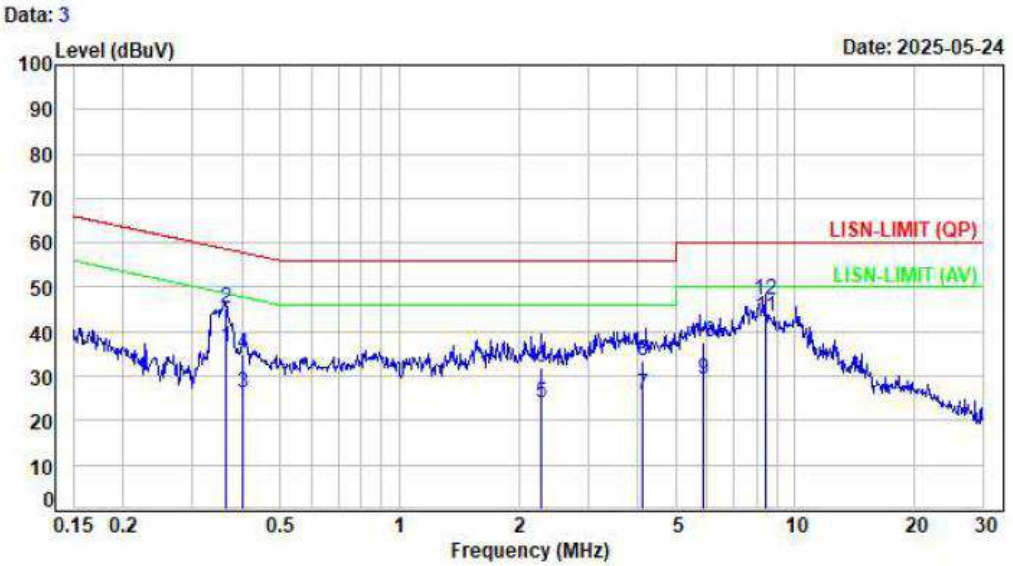
5.3 Typical Test Setup



5.4 Test Result and Data

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Phase : Line

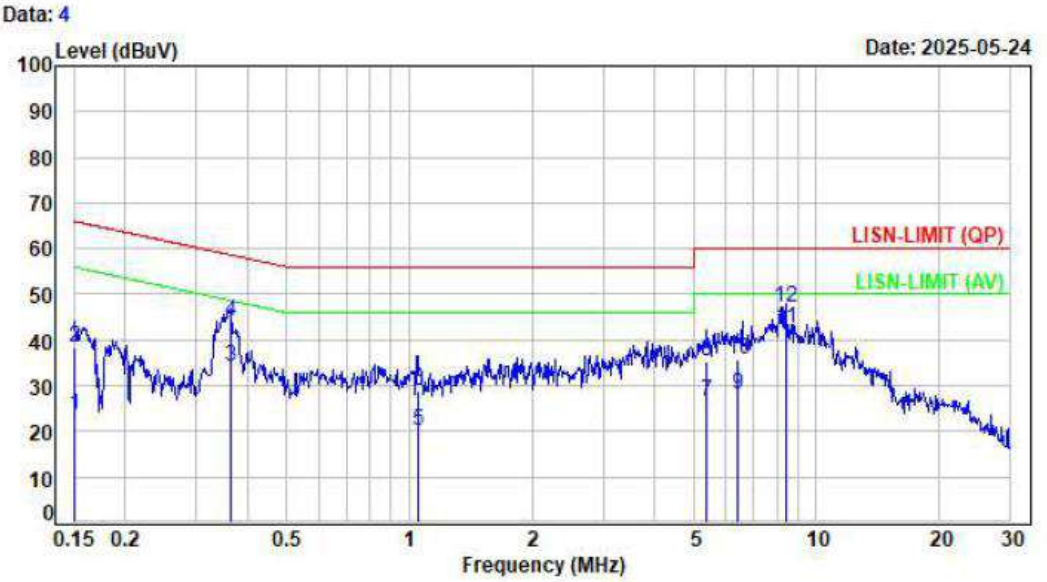


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3628	9.65	26.80	36.45	48.67	-12.22	Average	P
2	0.3628	9.65	35.78	45.43	58.67	-13.24	QP	P
3	0.4002	9.65	16.40	26.05	47.85	-21.80	Average	P
4	0.4002	9.65	25.34	34.99	57.85	-22.86	QP	P
5	2.2874	9.70	14.19	23.89	46.00	-22.11	Average	P
6	2.2874	9.70	22.42	32.12	56.00	-23.88	QP	P
7	4.1212	9.74	15.99	25.73	46.00	-20.27	Average	P
8	4.1212	9.74	23.69	33.43	56.00	-22.57	QP	P
9	5.8705	9.77	19.37	29.14	50.00	-20.86	Average	P
10	5.8705	9.77	27.75	37.52	60.00	-22.48	QP	P
11	8.3929	9.80	33.52	43.32	50.00	-6.68	Average	P
12	8.3929	9.80	37.42	47.22	60.00	-12.78	QP	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Phase : Neutral



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1503	9.61	14.11	23.72	55.99	-32.27	Average	P
2	0.1503	9.61	28.72	38.33	65.99	-27.66	QP	P
3	0.3634	9.62	24.54	34.16	48.65	-14.49	Average	P
4	0.3634	9.62	34.54	44.16	58.65	-14.49	QP	P
5	1.0486	9.65	10.45	20.10	46.00	-25.90	Average	P
6	1.0486	9.65	19.16	28.81	56.00	-27.19	QP	P
7	5.3932	9.75	16.98	26.73	50.00	-23.27	Average	P
8	5.3932	9.75	25.62	35.37	60.00	-24.63	QP	P
9	6.4151	9.77	18.25	28.02	50.00	-21.98	Average	P
10	6.4151	9.77	26.12	35.89	60.00	-24.11	QP	P
11	8.3939	9.80	32.97	42.77	50.00	-7.23	Average	P
12	8.3939	9.80	37.20	47.00	60.00	-13.00	QP	P

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

6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

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.

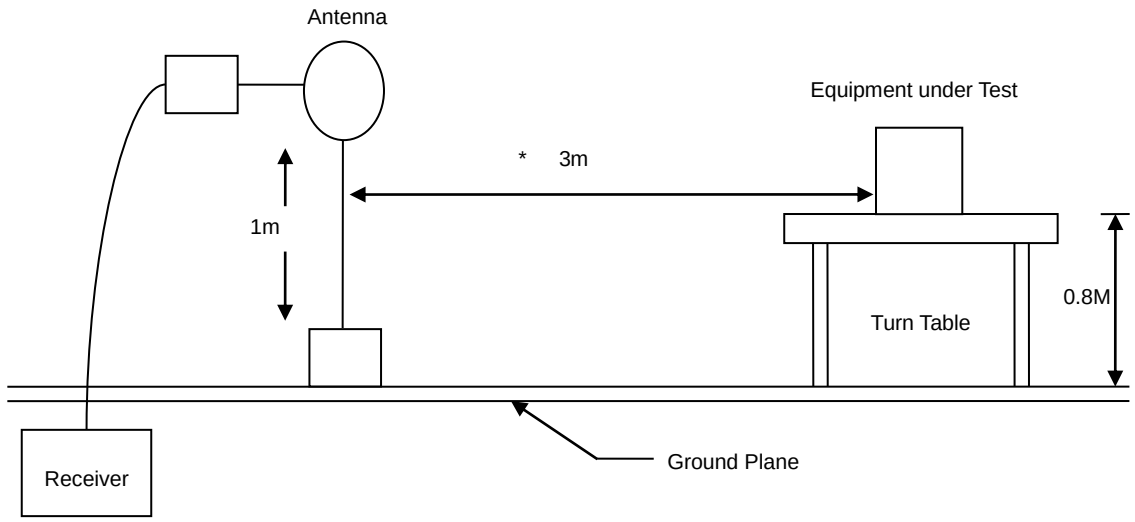
Note:

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.

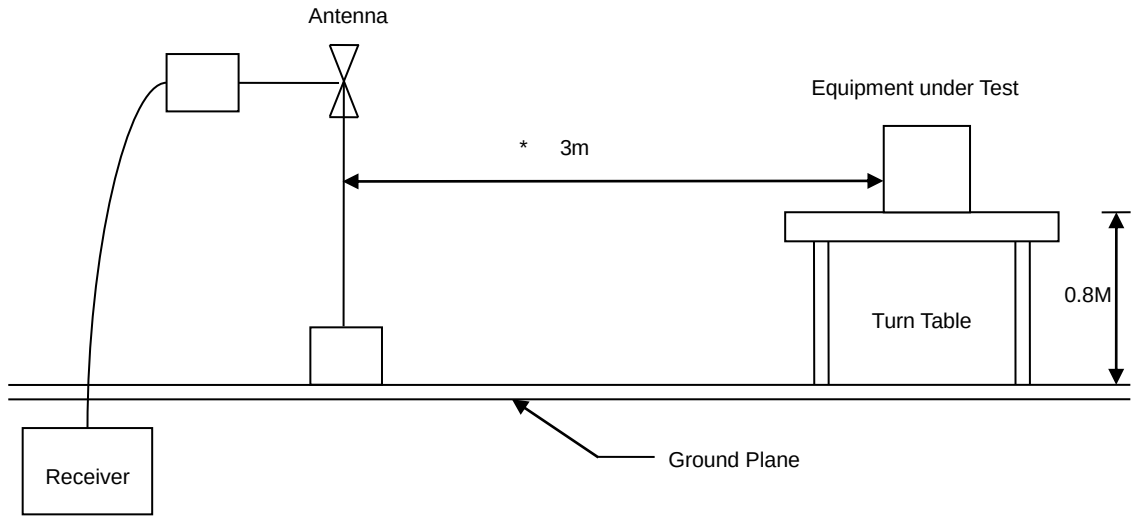
2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

6.3 Typical Test Setup

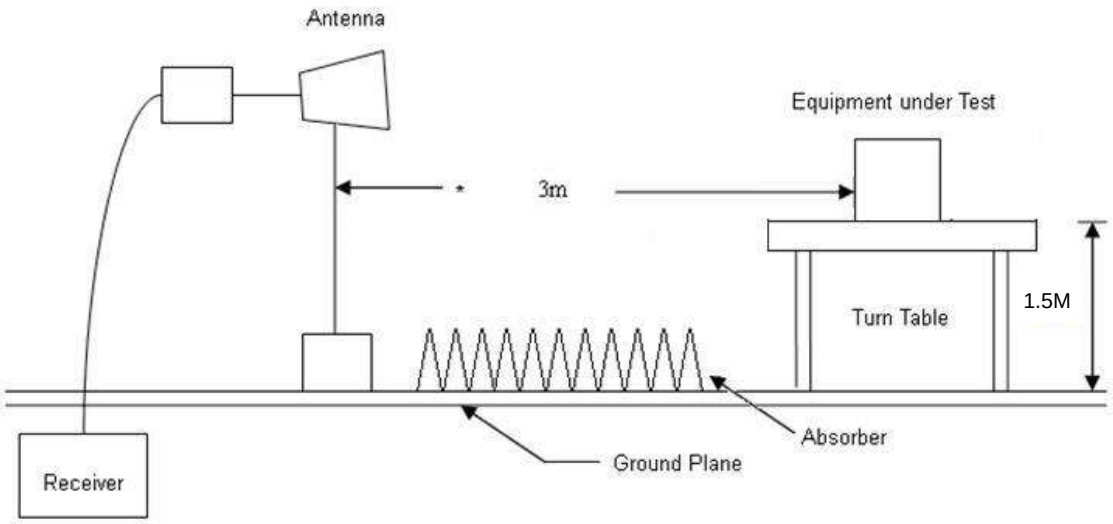
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



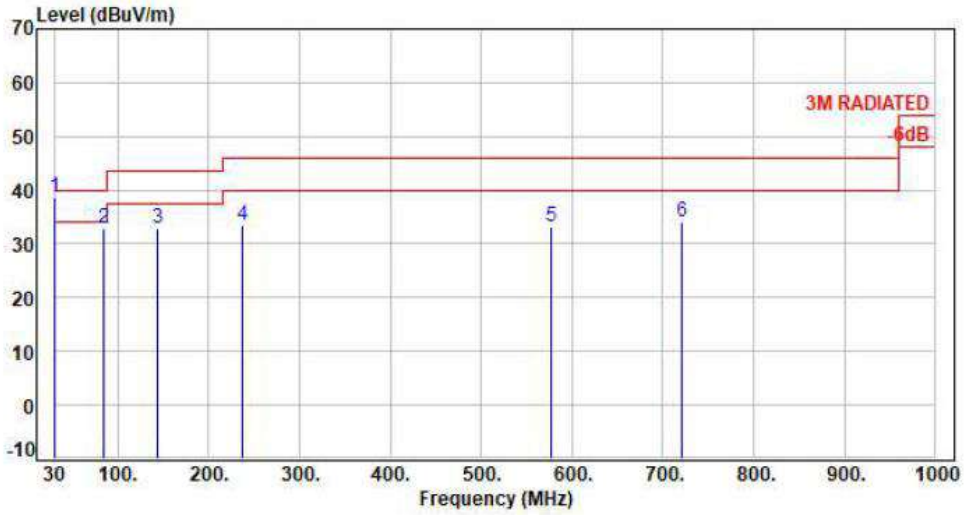
6.4 Test Result and Data (9KHz ~ 30MHz)

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

6.5 Test Result and Data (30MHz ~ 1GHz)

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

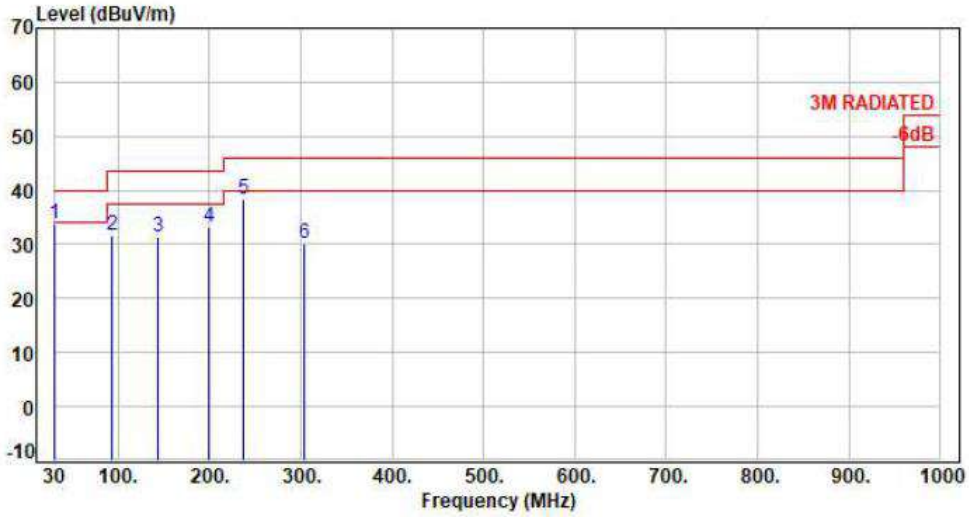


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.37	42.00	38.63	40.00	-1.37	QP	100	110	P
2	84.32	-17.56	50.46	32.90	40.00	-7.10	Peak	400	360	P
3	144.46	-11.21	43.99	32.78	43.50	-10.72	Peak	400	360	P
4	237.58	-12.02	45.40	33.38	46.00	-12.62	Peak	400	360	P
5	577.08	-3.48	36.52	33.04	46.00	-12.96	Peak	400	360	P
6	720.64	-1.04	35.03	33.99	46.00	-12.01	Peak	400	360	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Horizontal



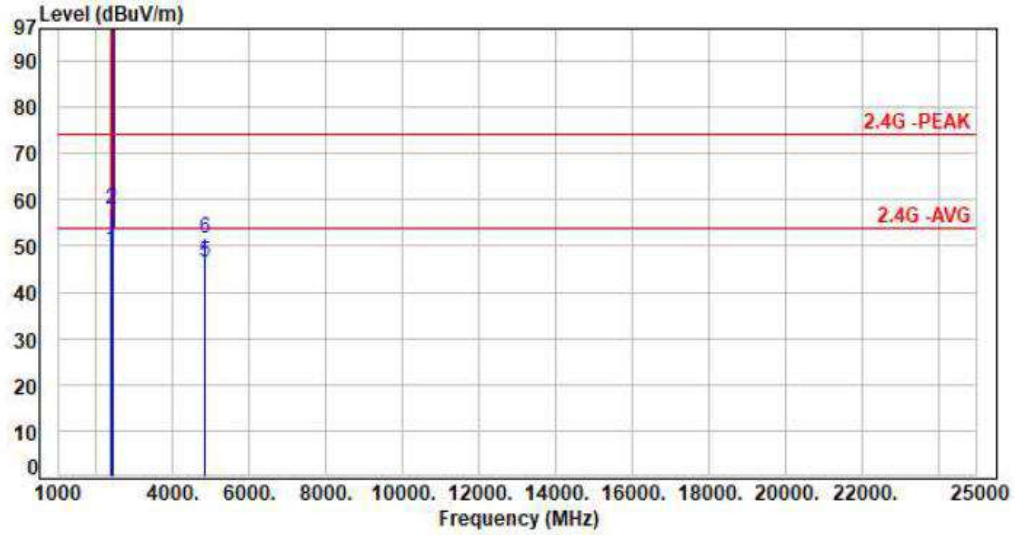
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.72	-3.87	37.60	33.73	40.00	-6.27	QP	100	360	P
2	94.02	-16.02	47.62	31.60	43.50	-11.90	Peak	400	0	P
3	144.46	-11.21	42.52	31.31	43.50	-12.19	Peak	400	0	P
4	198.78	-11.04	44.13	33.09	43.50	-10.41	Peak	400	0	P
5	237.58	-12.02	50.29	38.27	46.00	-7.73	Peak	400	0	P
6	303.54	-9.59	39.88	30.29	46.00	-15.71	Peak	400	0	P

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

6.6 Test Result and Data (1GHz ~ 25GHz)

Test Mode	Mode 1

Test Mode : 1TX 11b CH01 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

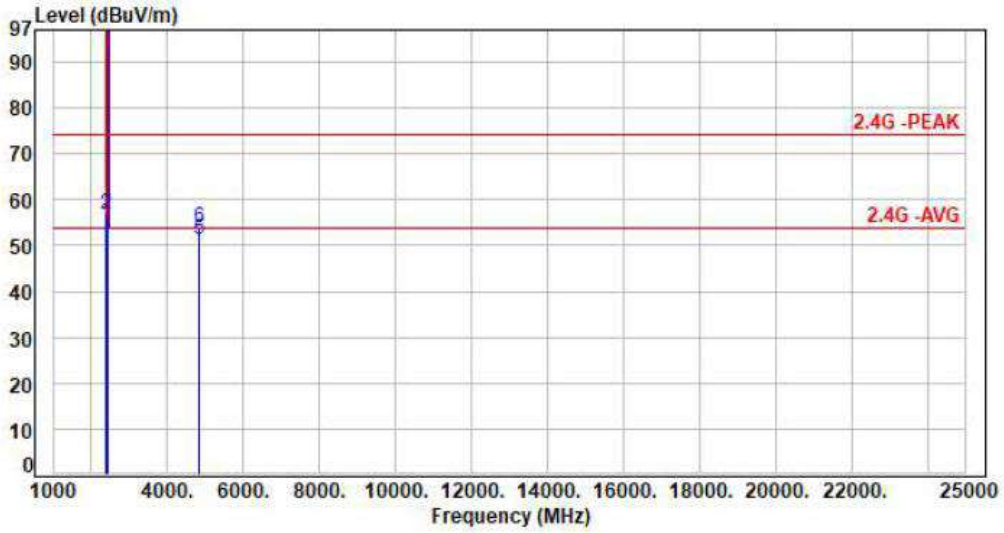


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	53.70	49.18	54.00	-4.82	Average	116	295	P
2	2390.00	-4.52	62.39	57.87	74.00	-16.13	Peak	116	295	P
3	2412.00	-4.66	107.33	102.67	200.00	-97.33	Average	116	295	P
4	2412.00	-4.66	112.54	107.88	200.00	-92.12	Peak	116	295	P
5	4824.00	6.63	39.90	46.53	54.00	-7.47	Average	100	125	P
6	4824.00	6.63	45.00	51.63	74.00	-22.37	Peak	100	125	P

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

Test Mode	Mode 1

Test Mode : 1TX 11b CH01 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

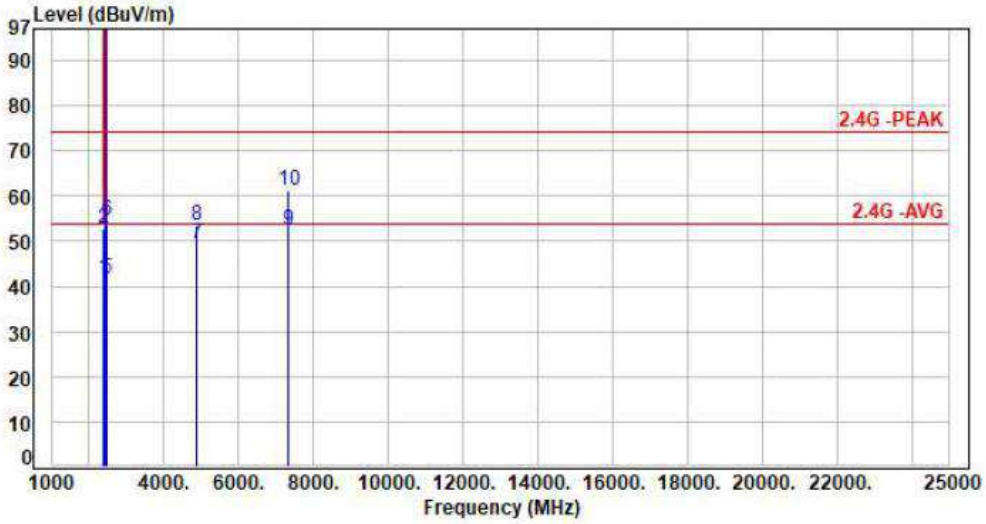


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	54.64	50.12	54.00	-3.88	Average	100	33	P
2	2390.00	-4.52	61.15	56.63	74.00	-17.37	Peak	100	33	P
3	2412.00	-4.66	104.10	99.44	200.00	-100.56	Average	100	33	P
4	2412.00	-4.66	108.93	104.27	200.00	-95.73	Peak	100	33	P
5	4824.00	6.63	44.61	51.24	54.00	-2.76	Average	100	247	P
6	4824.00	6.63	47.36	53.99	74.00	-20.01	Peak	100	247	P

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

Test Mode	Mode 1

Test Mode : 1TX 11b CH06 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

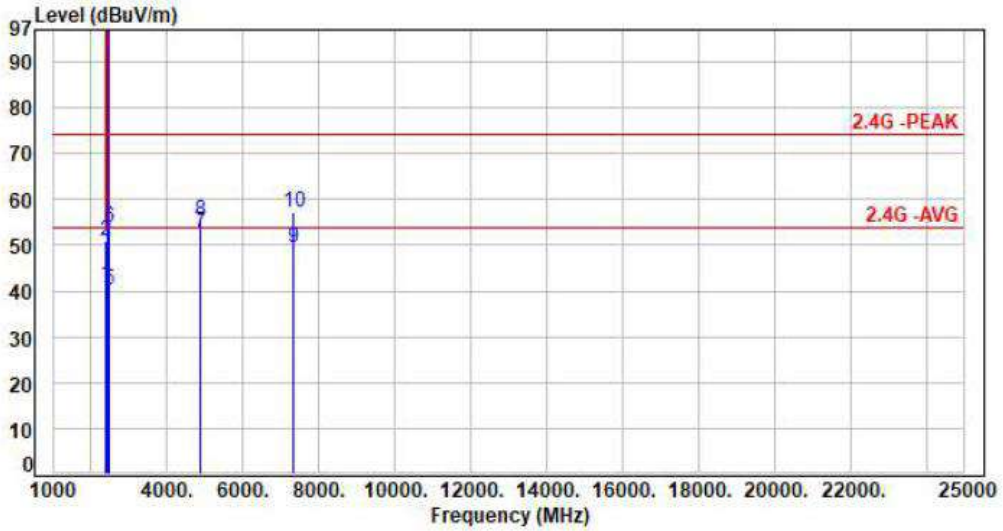


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	46.02	41.50	54.00	-12.50	Average	100	287	P
2	2390.00	-4.52	57.26	52.74	74.00	-21.26	Peak	100	287	P
3	2437.00	-4.71	107.87	103.16	200.00	-96.84	Average	100	287	P
4	2437.00	-4.71	112.68	107.97	200.00	-92.03	Peak	100	287	P
5	2483.50	-4.75	46.57	41.82	54.00	-12.18	Average	100	287	P
6	2483.50	-4.75	59.34	54.59	74.00	-19.41	Peak	100	287	P
7	4874.00	6.83	42.46	49.29	54.00	-4.71	Average	100	255	P
8	4874.00	6.83	46.64	53.47	74.00	-20.53	Peak	100	255	P
9	7311.00	12.96	39.59	52.55	54.00	-1.45	Average	100	266	P
10	7311.00	12.96	48.14	61.10	74.00	-12.90	Peak	100	266	P

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

Test Mode	Mode 1

Test Mode : 1TX 11b CH06 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

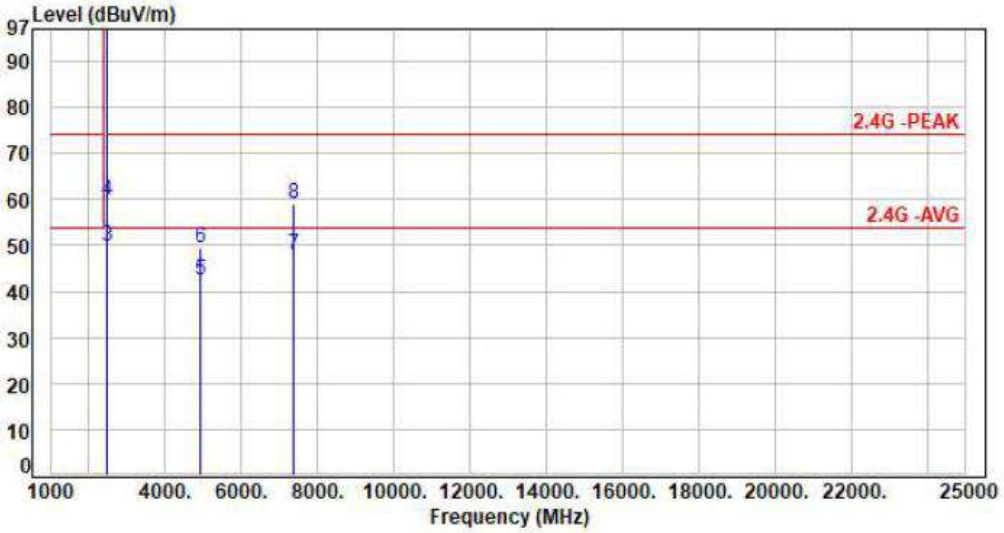


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	45.97	41.45	54.00	-12.55	Average	142	37	P
2	2390.00	-4.52	55.56	51.04	74.00	-22.96	Peak	142	37	P
3	2437.00	-4.71	107.65	102.94	200.00	-97.06	Average	142	37	P
4	2437.00	-4.71	112.71	108.00	200.00	-92.00	Peak	142	37	P
5	2483.50	-4.75	45.07	40.32	54.00	-13.68	Average	142	37	P
6	2483.50	-4.75	58.44	53.69	74.00	-20.31	Peak	142	37	P
7	4874.00	6.83	45.86	52.69	54.00	-1.31	Average	100	248	P
8	4874.00	6.83	48.40	55.23	74.00	-18.77	Peak	100	248	P
9	7311.00	12.96	36.37	49.33	54.00	-4.67	Average	100	291	P
10	7311.00	12.96	44.32	57.28	74.00	-16.72	Peak	100	291	P

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

Test Mode	Mode 1

Test Mode : 1TX 11b CH11 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

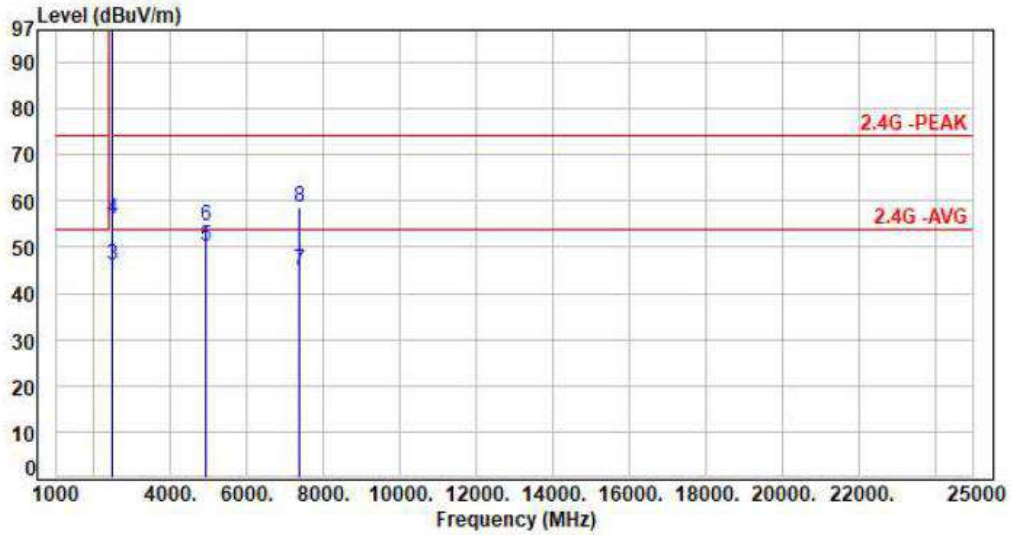


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	106.52	101.82	200.00	-98.18	Average	100	285	P
2	2462.00	-4.70	111.80	107.10	200.00	-92.90	Peak	100	285	P
3	2483.50	-4.75	54.37	49.62	54.00	-4.38	Average	100	285	P
4	2483.50	-4.75	64.33	59.58	74.00	-14.42	Peak	100	285	P
5	4924.00	7.07	35.44	42.51	54.00	-11.49	Average	100	258	P
6	4924.00	7.07	42.52	49.59	74.00	-24.41	Peak	100	258	P
7	7386.00	13.19	34.94	48.13	54.00	-5.87	Average	100	292	P
8	7386.00	13.19	45.92	59.11	74.00	-14.89	Peak	100	292	P

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

Test Mode	Mode 1

Test Mode : 1TX 11b CH11 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

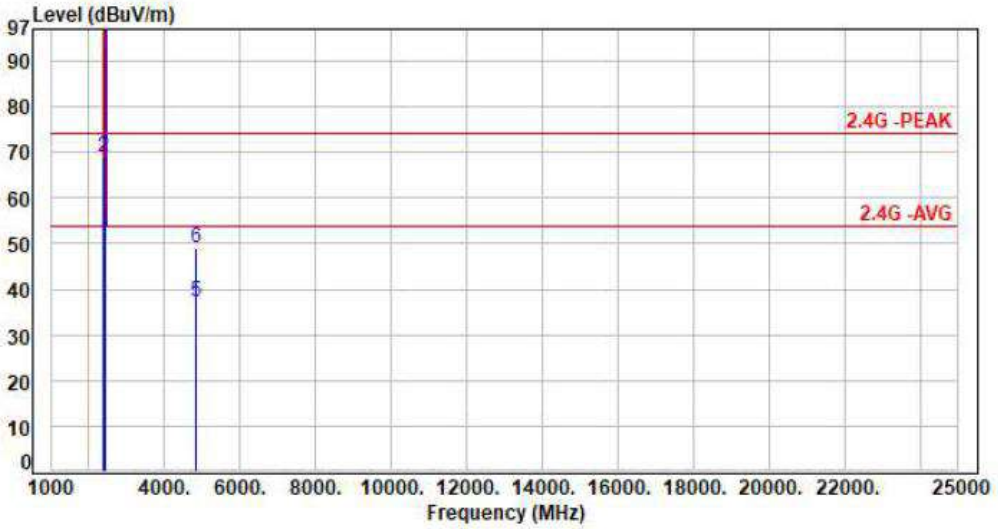


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	105.92	101.22	200.00	-98.78	Average	133	317	P
2	2462.00	-4.70	110.64	105.94	200.00	-94.06	Peak	133	317	P
3	2483.50	-4.75	50.99	46.24	54.00	-7.76	Average	133	317	P
4	2483.50	-4.75	60.97	56.22	74.00	-17.78	Peak	133	317	P
5	4924.00	7.07	43.10	50.17	54.00	-3.83	Average	100	243	P
6	4924.00	7.07	47.34	54.41	74.00	-19.59	Peak	100	243	P
7	7386.00	13.19	31.71	44.90	54.00	-9.10	Average	100	292	P
8	7386.00	13.19	45.63	58.82	74.00	-15.18	Peak	100	292	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH01 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

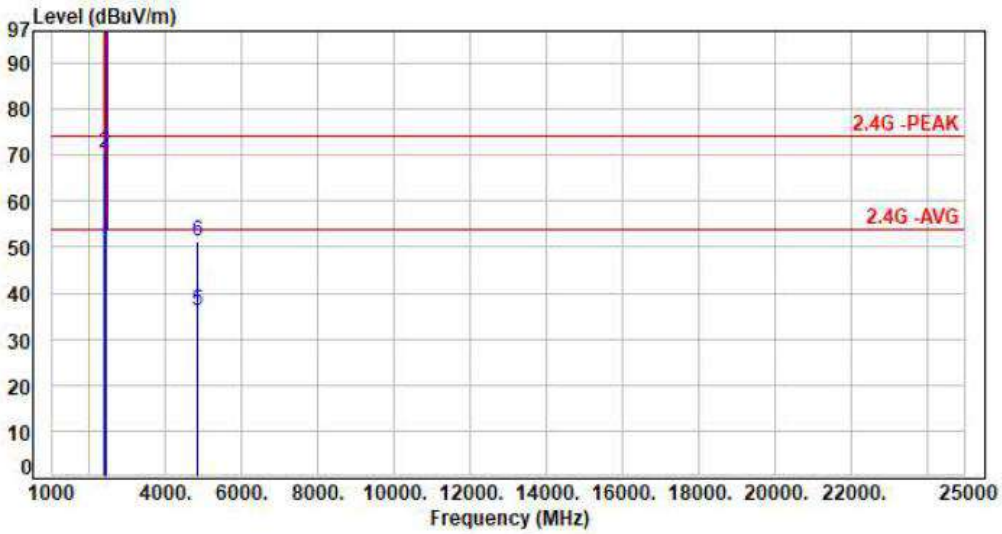


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	54.50	49.98	54.00	-4.02	Average	100	287	P
2	2390.00	-4.52	73.31	68.79	74.00	-5.21	Peak	100	287	P
3	2412.00	-4.66	100.46	95.80	200.00	-104.20	Average	100	287	P
4	2412.00	-4.66	110.17	105.51	200.00	-94.49	Peak	100	287	P
5	4824.00	6.63	30.69	37.32	54.00	-16.68	Average	100	287	P
6	4824.00	6.63	42.28	48.91	74.00	-25.09	Peak	100	287	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH01 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

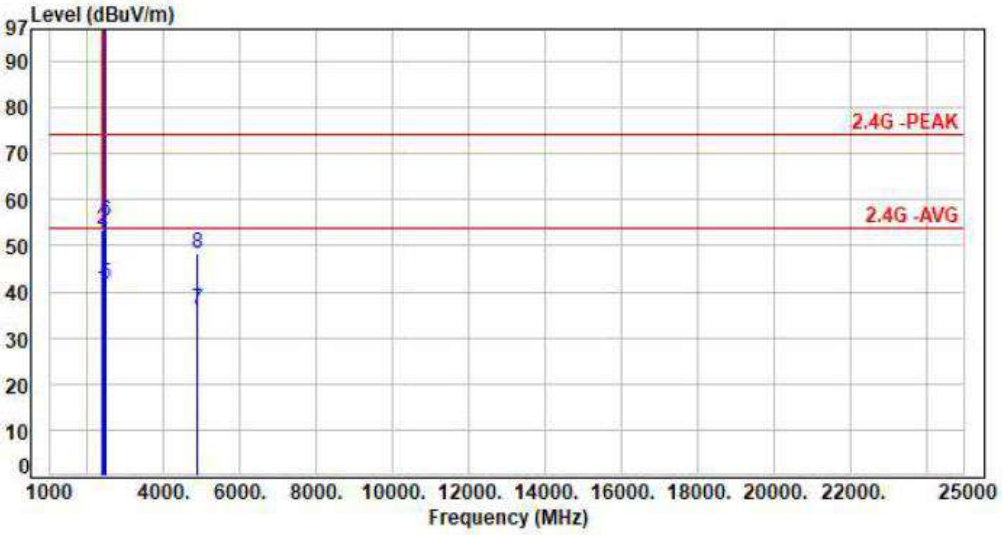


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	54.53	50.01	54.00	-3.99	Average	100	23	P
2	2390.00	-4.52	74.87	70.35	74.00	-3.65	Peak	100	23	P
3	2412.00	-4.66	100.17	95.51	200.00	-104.49	Average	100	23	P
4	2412.00	-4.66	110.16	105.50	200.00	-94.50	Peak	100	23	P
5	4824.00	6.63	29.61	36.24	54.00	-17.76	Average	100	251	P
6	4824.00	6.63	44.52	51.15	74.00	-22.85	Peak	100	251	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH06 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

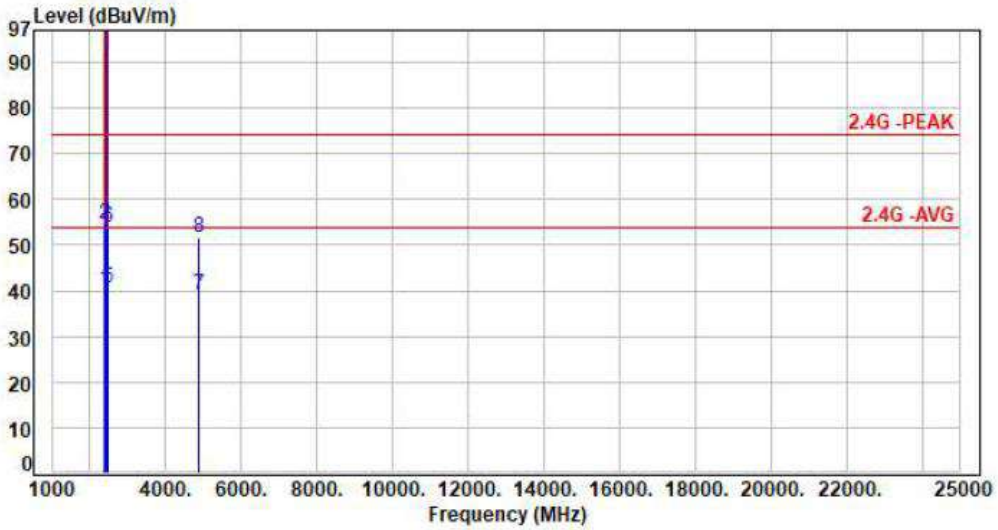


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	45.14	40.62	54.00	-13.38	Average	100	293	P
2	2390.00	-4.52	58.04	53.52	74.00	-20.48	Peak	100	293	P
3	2437.00	-4.71	103.53	98.82	200.00	-101.18	Average	100	293	P
4	2437.00	-4.71	112.36	107.65	200.00	-92.35	Peak	100	293	P
5	2483.50	-4.75	46.57	41.82	54.00	-12.18	Average	100	293	P
6	2483.50	-4.75	60.16	55.41	74.00	-18.59	Peak	100	293	P
7	4874.00	6.83	29.32	36.15	54.00	-17.85	Average	100	244	P
8	4874.00	6.83	41.50	48.33	74.00	-25.67	Peak	100	244	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH06 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

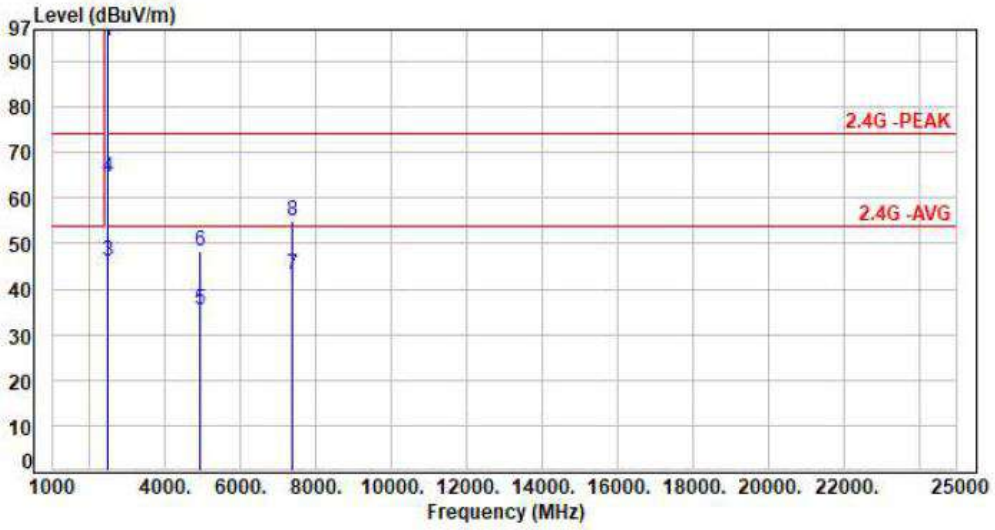


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	44.63	40.11	54.00	-13.89	Average	100	28	P
2	2390.00	-4.52	59.00	54.48	74.00	-19.52	Peak	100	28	P
3	2437.00	-4.71	102.86	98.15	200.00	-101.85	Average	100	28	P
4	2437.00	-4.71	112.07	107.36	200.00	-92.64	Peak	100	28	P
5	2483.50	-4.75	45.35	40.60	54.00	-13.40	Average	100	28	P
6	2483.50	-4.75	58.68	53.93	74.00	-20.07	Peak	100	28	P
7	4874.00	6.83	32.23	39.06	54.00	-14.94	Average	100	248	P
8	4874.00	6.83	44.64	51.47	74.00	-22.53	Peak	100	248	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH11 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

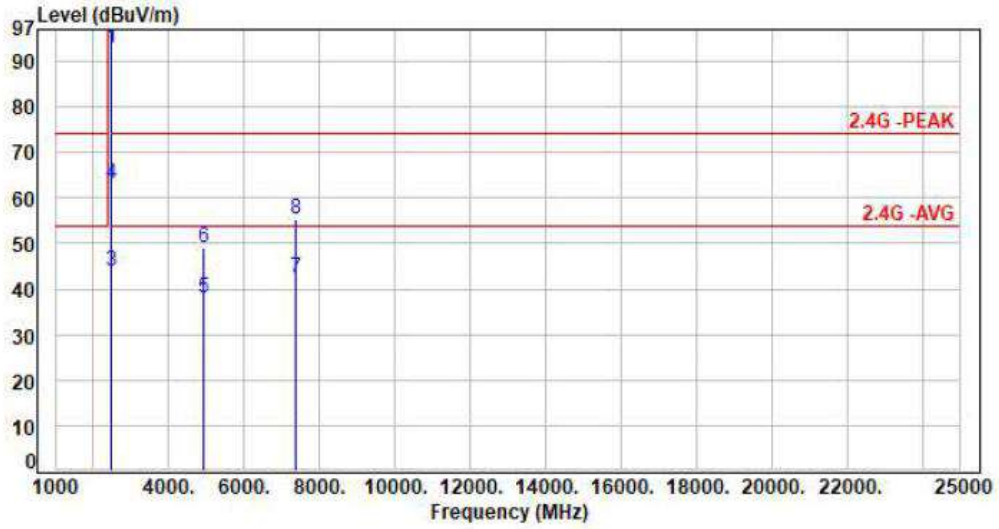


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	98.99	94.29	200.00	-105.71	Average	100	280	P
2	2462.00	-4.70	109.27	104.57	200.00	-95.43	Peak	100	280	P
3	2483.50	-4.75	50.81	46.06	54.00	-7.94	Average	100	280	P
4	2483.50	-4.75	69.22	64.47	74.00	-9.53	Peak	100	280	P
5	4924.00	7.07	28.49	35.56	54.00	-18.44	Average	100	115	P
6	4924.00	7.07	41.36	48.43	74.00	-25.57	Peak	100	115	P
7	7386.00	13.19	29.86	43.05	54.00	-10.95	Average	100	212	P
8	7386.00	13.19	41.76	54.95	74.00	-19.05	Peak	100	212	P

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

Test Mode	Mode 1

Test Mode : 1TX 11g CH11 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

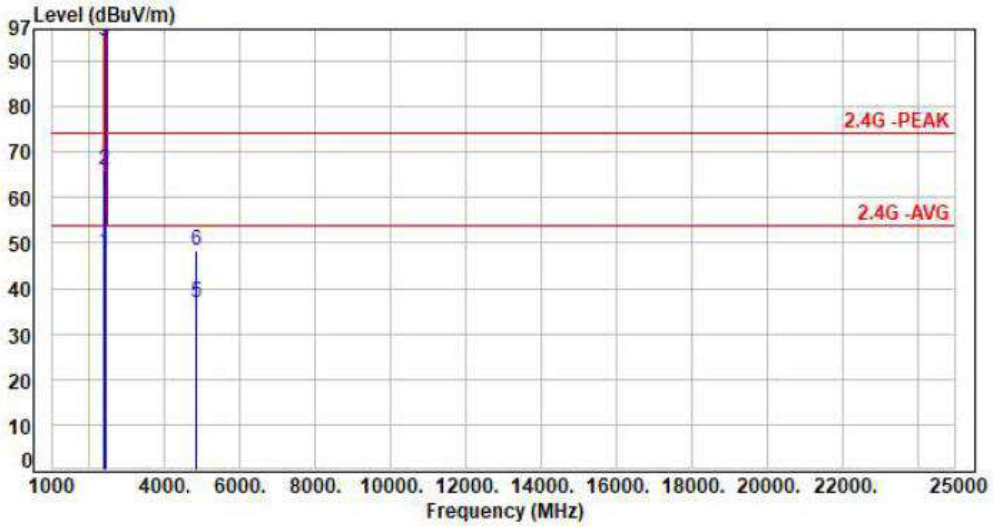


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	97.63	92.93	200.00	-107.07	Average	100	25	P
2	2462.00	-4.70	107.74	103.04	200.00	-96.96	Peak	100	25	P
3	2483.50	-4.75	48.70	43.95	54.00	-10.05	Average	100	25	P
4	2483.50	-4.75	67.78	63.03	74.00	-10.97	Peak	100	25	P
5	4924.00	7.07	31.03	38.10	54.00	-15.90	Average	100	224	P
6	4924.00	7.07	41.94	49.01	74.00	-24.99	Peak	100	224	P
7	7386.00	13.19	29.20	42.39	54.00	-11.61	Average	100	115	P
8	7386.00	13.19	42.29	55.48	74.00	-18.52	Peak	100	115	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH01 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

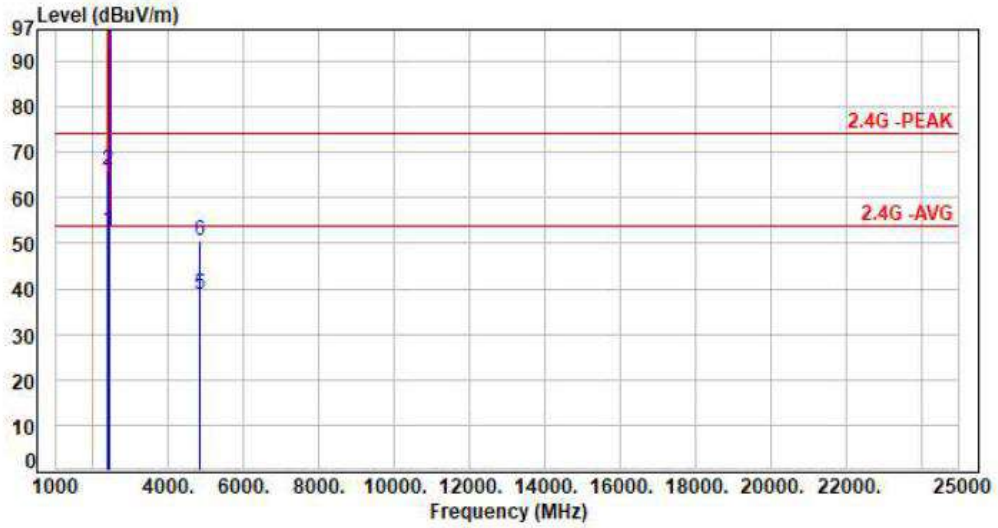


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	52.39	47.87	54.00	-6.13	Average	111	291	P
2	2390.00	-4.52	70.53	66.01	74.00	-7.99	Peak	111	291	P
3	2412.00	-4.66	99.17	94.51	200.00	-105.49	Average	111	291	P
4	2412.00	-4.66	112.52	107.86	200.00	-92.14	Peak	111	291	P
5	4824.00	6.63	30.42	37.05	54.00	-16.95	Average	100	225	P
6	4824.00	6.63	41.79	48.42	74.00	-25.58	Peak	100	225	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH01 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

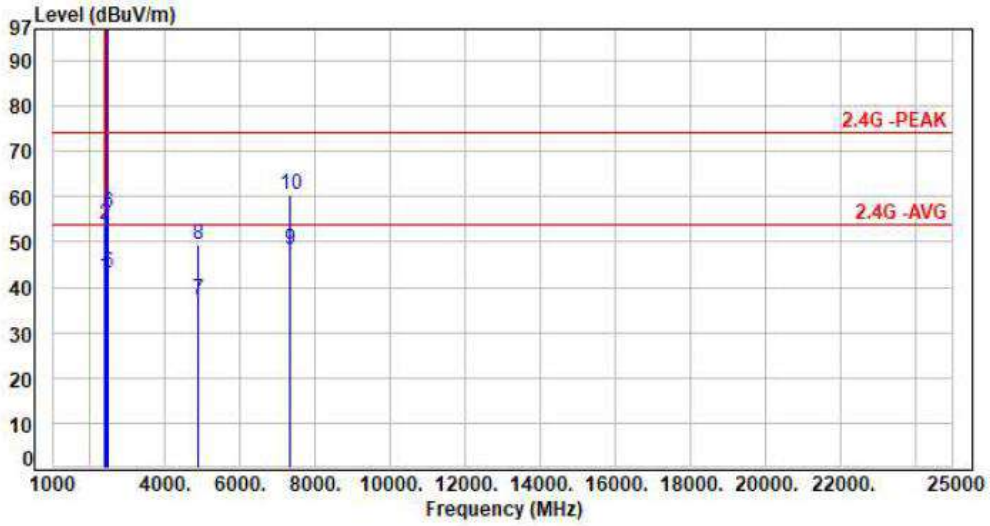


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	57.44	52.92	54.00	-1.08	Average	119	34	P
2	2390.00	-4.52	70.44	65.92	74.00	-8.08	Peak	119	34	P
3	2412.00	-4.66	102.22	97.56	200.00	-102.44	Average	119	34	P
4	2412.00	-4.66	116.83	112.17	200.00	-87.83	Peak	119	34	P
5	4824.00	6.63	31.91	38.54	54.00	-15.46	Average	100	273	P
6	4824.00	6.63	44.03	50.66	74.00	-23.34	Peak	100	273	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

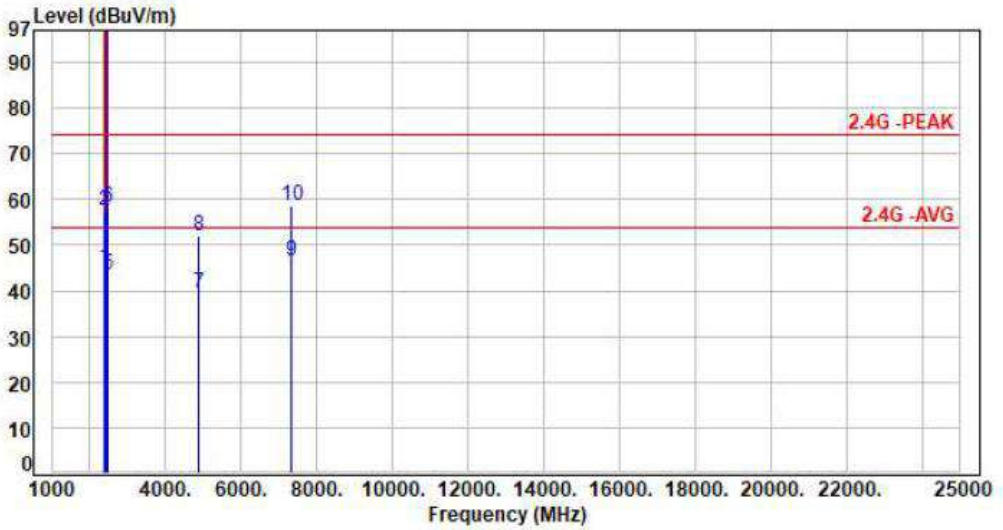


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	46.99	42.47	54.00	-11.53	Average	105	286	P
2	2390.00	-4.52	58.47	53.95	74.00	-20.05	Peak	105	286	P
3	2437.00	-4.71	104.13	99.42	200.00	-100.58	Average	105	286	P
4	2437.00	-4.71	113.55	108.84	200.00	-91.16	Peak	105	286	P
5	2483.50	-4.75	47.98	43.23	54.00	-10.77	Average	105	286	P
6	2483.50	-4.75	61.03	56.28	74.00	-17.72	Peak	105	286	P
7	4874.00	6.83	30.35	37.18	54.00	-16.82	Average	100	126	P
8	4874.00	6.83	42.62	49.45	74.00	-24.55	Peak	100	126	P
9	7311.00	12.96	35.19	48.15	54.00	-5.85	Average	100	235	P
10	7311.00	12.96	47.61	60.57	74.00	-13.43	Peak	100	235	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH06 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

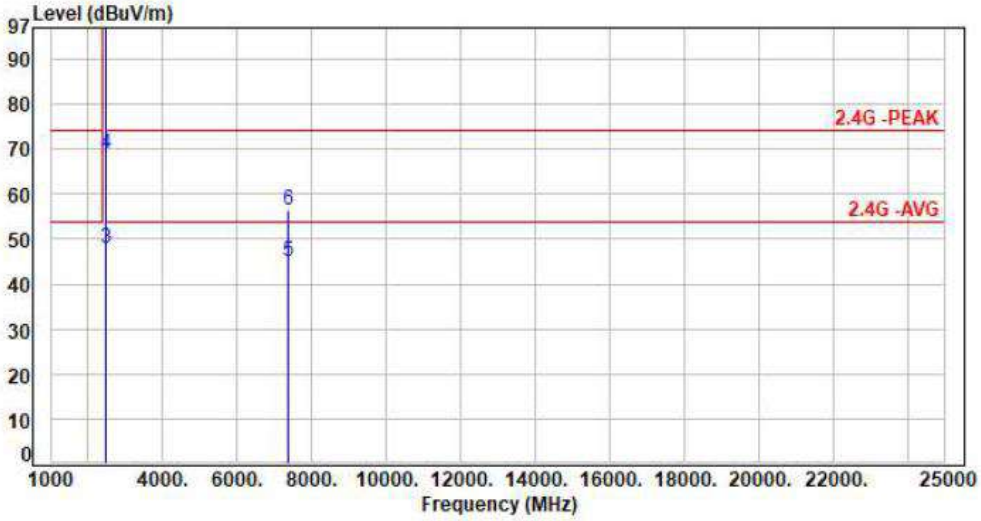


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	49.42	44.90	54.00	-9.10	Average	145	46	P
2	2390.00	-4.52	61.91	57.39	74.00	-16.61	Peak	145	46	P
3	2437.00	-4.71	104.95	100.24	200.00	-99.76	Average	145	46	P
4	2437.00	-4.71	115.59	110.88	200.00	-89.12	Peak	145	46	P
5	2483.50	-4.75	48.11	43.36	54.00	-10.64	Average	145	46	P
6	2483.50	-4.75	63.09	58.34	74.00	-15.66	Peak	145	46	P
7	4874.00	6.83	32.60	39.43	54.00	-14.57	Average	100	287	P
8	4874.00	6.83	45.18	52.01	74.00	-21.99	Peak	100	287	P
9	7311.00	12.96	33.64	46.60	54.00	-7.40	Average	100	287	P
10	7311.00	12.96	45.76	58.72	74.00	-15.28	Peak	100	287	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH11 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

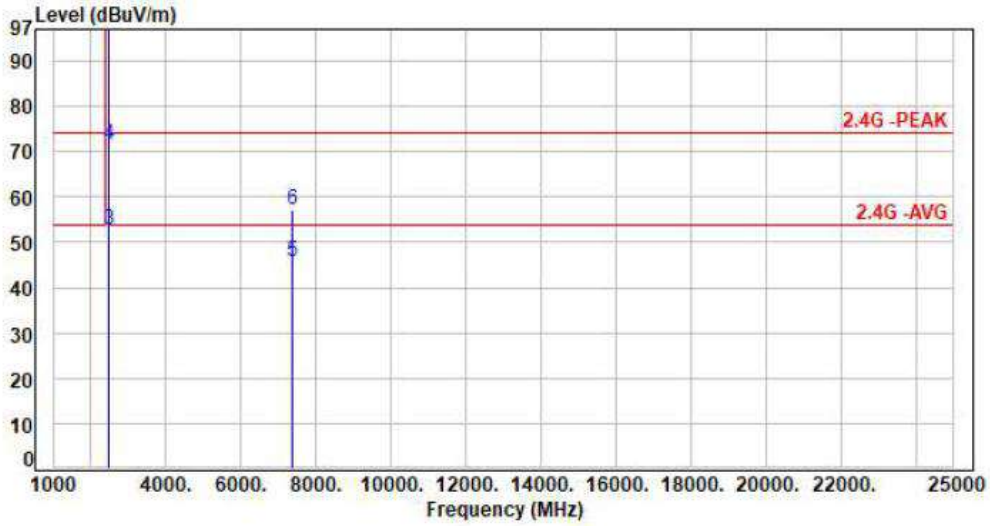


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	100.36	95.66	200.00	-104.34	Average	109	329	P
2	2462.00	-4.70	111.05	106.35	200.00	-93.65	Peak	109	329	P
3	2483.50	-4.75	52.83	48.08	54.00	-5.92	Average	109	329	P
4	2483.50	-4.75	73.70	68.95	74.00	-5.05	Peak	109	329	P
5	7386.00	13.19	31.77	44.96	54.00	-9.04	Average	100	125	P
6	7386.00	13.19	43.23	56.42	74.00	-17.58	Peak	100	125	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax20 CH11 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

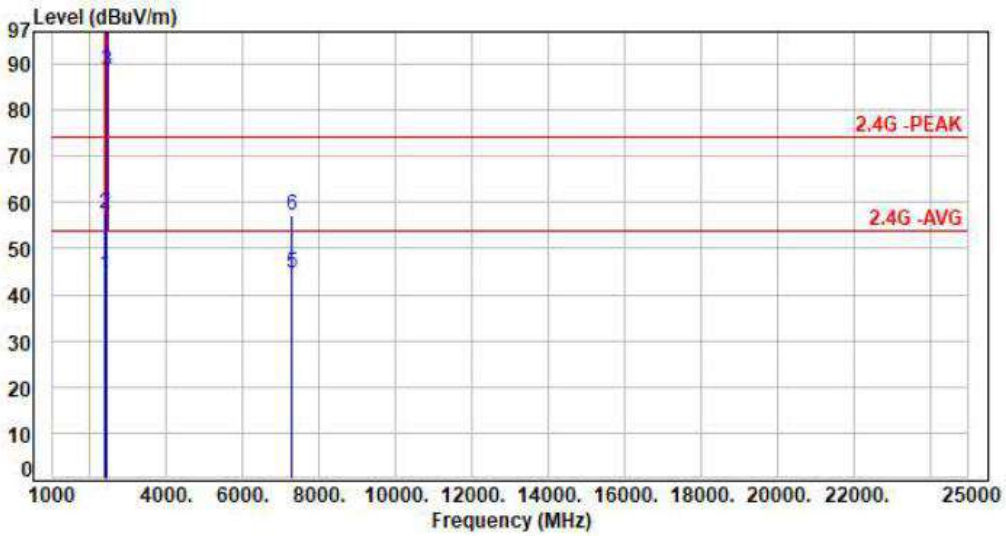


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	102.47	97.77	200.00	-102.23	Average	167	47	P
2	2462.00	-4.70	114.69	109.99	200.00	-90.01	Peak	167	47	P
3	2483.50	-4.75	57.37	52.62	54.00	-1.38	Average	167	47	P
4	2483.50	-4.75	76.28	71.53	74.00	-2.47	Peak	167	47	P
5	7386.00	13.19	32.63	45.82	54.00	-8.18	Average	100	272	P
6	7386.00	13.19	43.97	57.16	74.00	-16.84	Peak	100	272	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH03 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

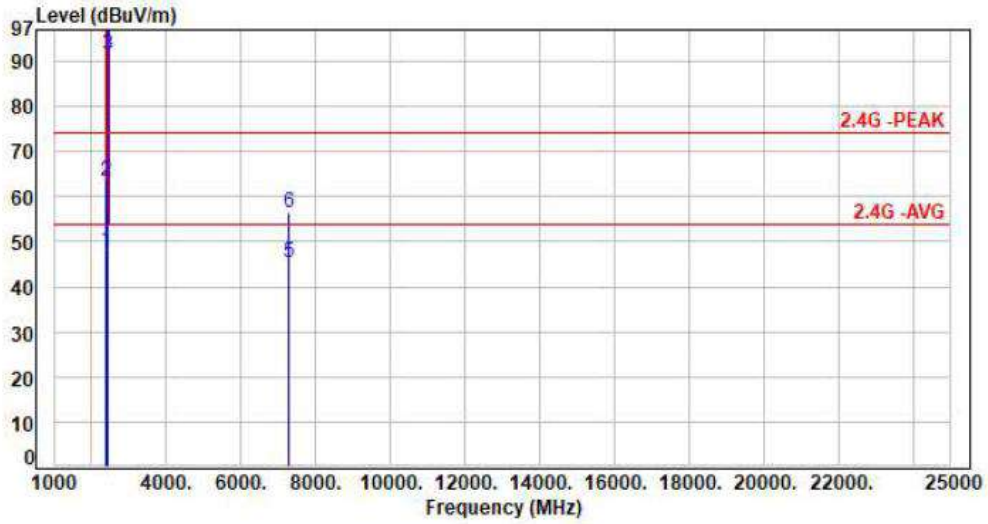


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	48.85	44.33	54.00	-9.67	Average	100	293	P
2	2390.00	-4.52	62.10	57.58	74.00	-16.42	Peak	100	293	P
3	2422.00	-4.61	93.00	88.39	200.00	-111.61	Average	100	293	P
4	2422.00	-4.61	106.25	101.64	200.00	-98.36	Peak	100	293	P
5	7266.00	12.80	31.73	44.53	54.00	-9.47	Average	100	135	P
6	7266.00	12.80	44.27	57.07	74.00	-16.93	Peak	100	135	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH03 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

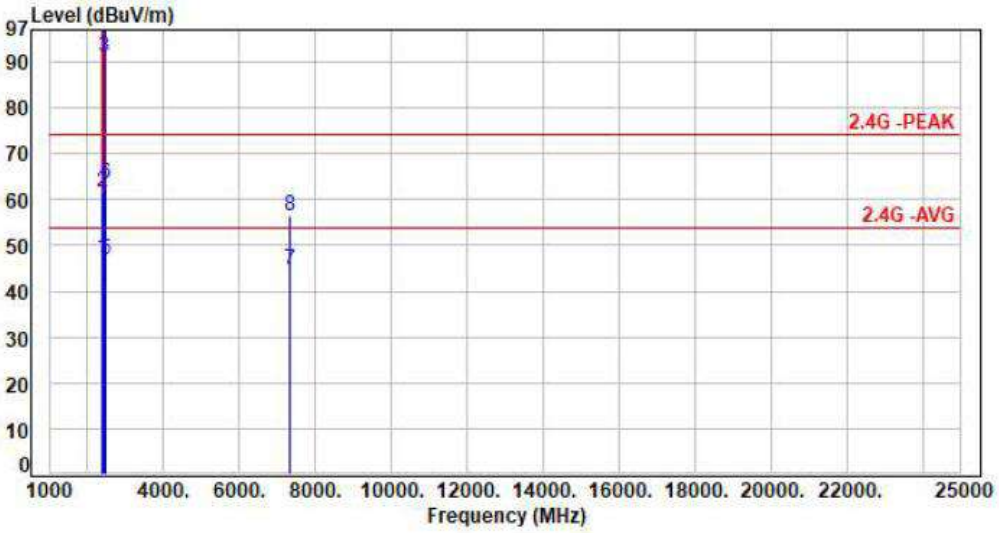


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	52.31	47.79	54.00	-6.21	Average	100	37	P
2	2390.00	-4.52	67.85	63.33	74.00	-10.67	Peak	100	37	P
3	2422.00	-4.61	96.08	91.47	200.00	-108.53	Average	100	37	P
4	2422.00	-4.61	107.62	103.01	200.00	-96.99	Peak	100	37	P
5	7266.00	12.80	32.63	45.43	54.00	-8.57	Average	100	221	P
6	7266.00	12.80	43.63	56.43	74.00	-17.57	Peak	100	221	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH06 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

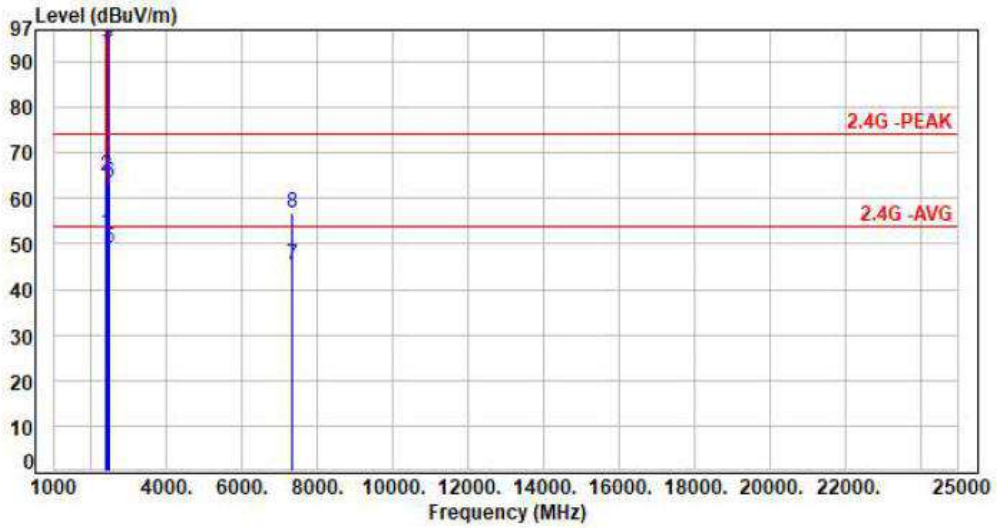


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	51.60	47.08	54.00	-6.92	Average	112	279	P
2	2390.00	-4.52	66.27	61.75	74.00	-12.25	Peak	112	279	P
3	2437.00	-4.71	95.83	91.12	200.00	-108.88	Average	112	279	P
4	2437.00	-4.71	108.51	103.80	200.00	-96.20	Peak	112	279	P
5	2483.50	-4.75	51.73	46.98	54.00	-7.02	Average	112	279	P
6	2483.50	-4.75	68.35	63.60	74.00	-10.40	Peak	112	279	P
7	7311.00	12.96	31.51	44.47	54.00	-9.53	Average	100	115	P
8	7311.00	12.96	43.55	56.51	74.00	-17.49	Peak	100	115	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH06 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

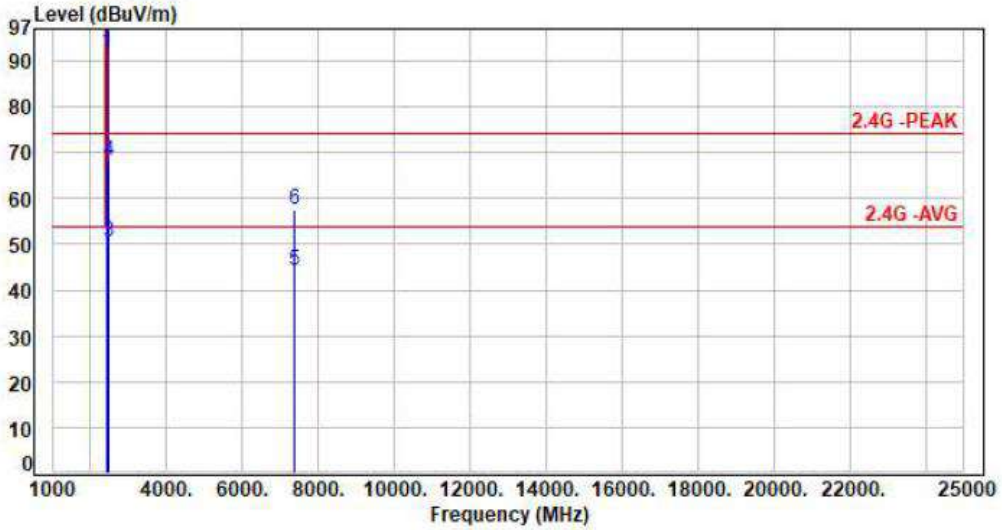


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	56.75	52.23	54.00	-1.77	Average	100	37	P
2	2390.00	-4.52	69.57	65.05	74.00	-8.95	Peak	100	37	P
3	2437.00	-4.71	98.69	93.98	200.00	-106.02	Average	100	37	P
4	2437.00	-4.71	111.50	106.79	200.00	-93.21	Peak	100	37	P
5	2483.50	-4.75	53.64	48.89	54.00	-5.11	Average	100	37	P
6	2483.50	-4.75	68.31	63.56	74.00	-10.44	Peak	100	37	P
7	7311.00	12.96	32.55	45.51	54.00	-8.49	Average	100	332	P
8	7311.00	12.96	43.86	56.82	74.00	-17.18	Peak	100	332	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH09 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

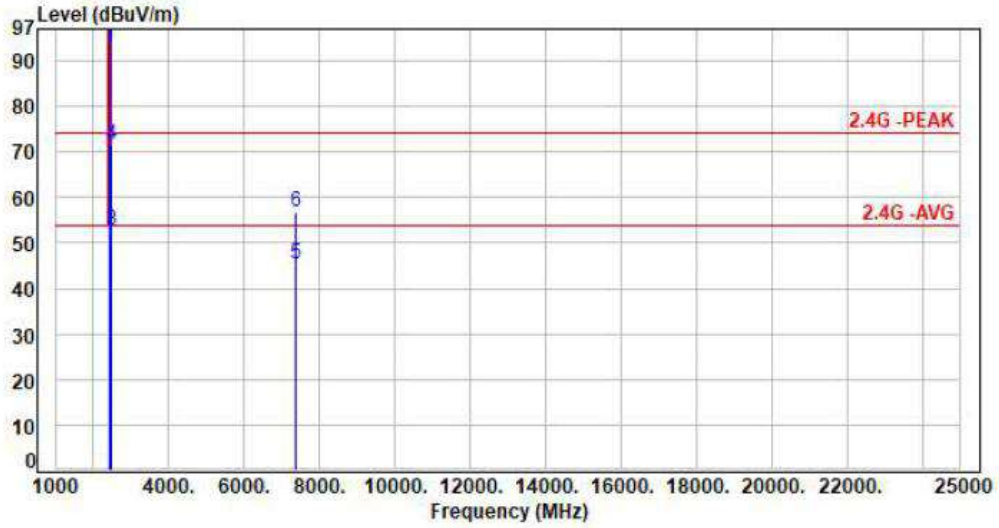


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-4.76	96.53	91.77	200.00	-108.23	Average	100	304	P
2	2452.00	-4.76	107.85	103.09	200.00	-96.91	Peak	100	304	P
3	2483.50	-4.75	55.27	50.52	54.00	-3.48	Average	100	304	P
4	2483.50	-4.75	73.00	68.25	74.00	-5.75	Peak	100	304	P
5	7356.00	13.16	31.25	44.41	54.00	-9.59	Average	100	214	P
6	7356.00	13.16	44.45	57.61	74.00	-16.39	Peak	100	214	P

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

Test Mode	Mode 1

Test Mode : 2TX 11ax40 CH09 MCS0
Voltage : From Adapter(AC120V/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	2452.00	-4.76	97.91	93.15	200.00	-106.85	Average	100	36	P
2	2452.00	-4.76	110.79	106.03	200.00	-93.97	Peak	100	36	P
3	2483.50	-4.75	57.42	52.67	54.00	-1.33	Average	100	36	P
4	2483.50	-4.75	76.12	71.37	74.00	-2.63	Peak	100	36	P
5	7356.00	13.16	32.12	45.28	54.00	-8.72	Average	100	115	P
6	7356.00	13.16	43.55	56.71	74.00	-17.29	Peak	100	115	P

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

6.7 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 – 5.250
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

7. Test of Conducted Spurious Emission

7.1 Test Limit

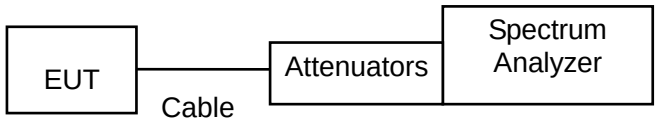
According to the methods defined in ANSI C63.10-2013 Section 11.11.1
Below –30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
d. The band edges was measured and recorded.

7.3 Test Setup Layout



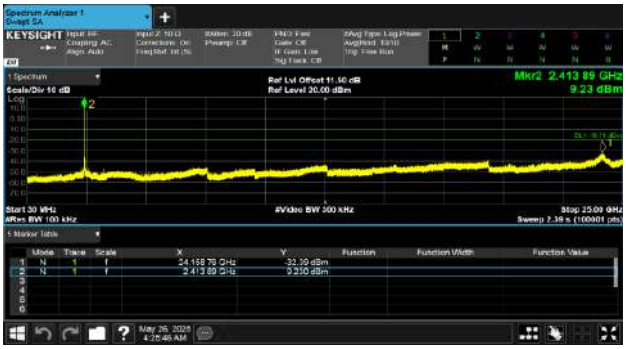
7.4 Test Result and Data

Note: Test plots refers to the following pages.

SISO ANT A

Modulation Type: 802.11b CH01

Modulation Type: 802.11b CH06

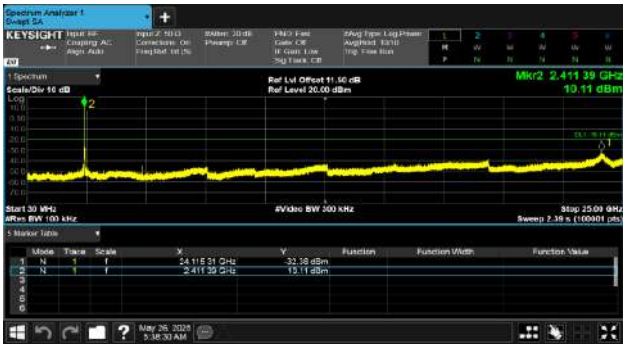


SISO ANT A
Modulation Type: 802.11b CH11

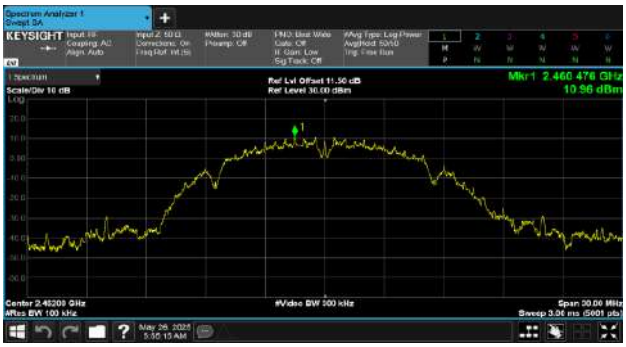
SISO ANT B

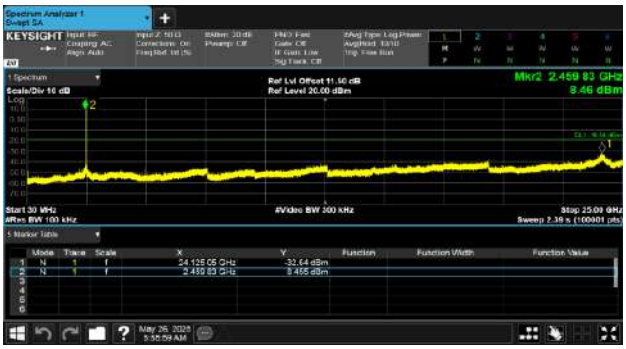
Modulation Type: 802.11b CH01

Modulation Type: 802.11b CH06



SISO ANT B
Modulation Type: 802.11b CH11

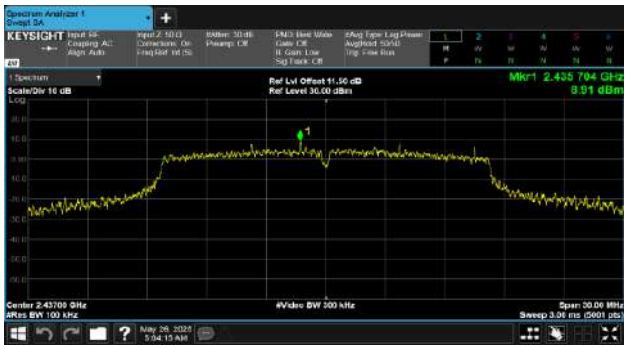


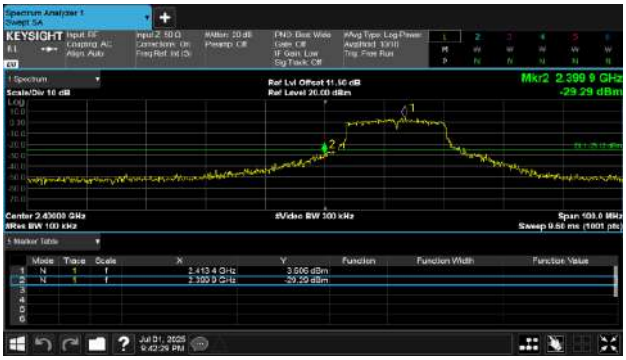


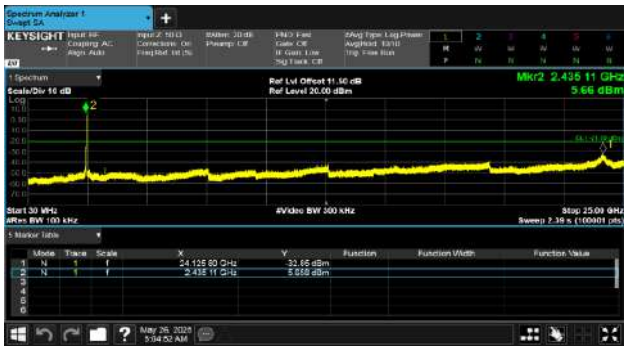
SISO ANT A

Modulation Type: 802.11g CH01

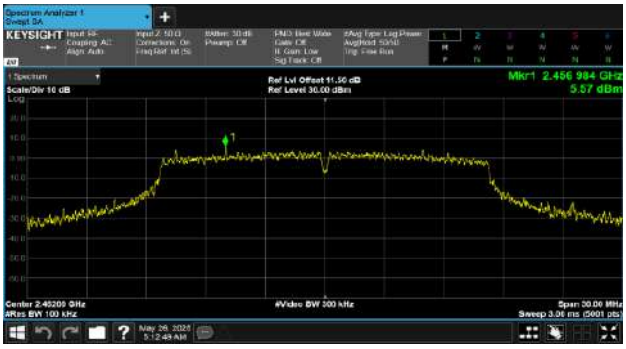
Modulation Type: 802.11g CH06

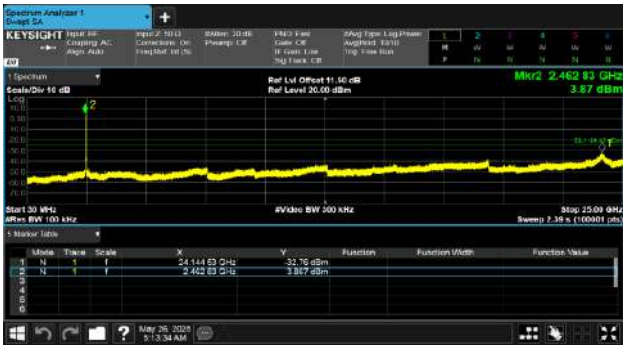






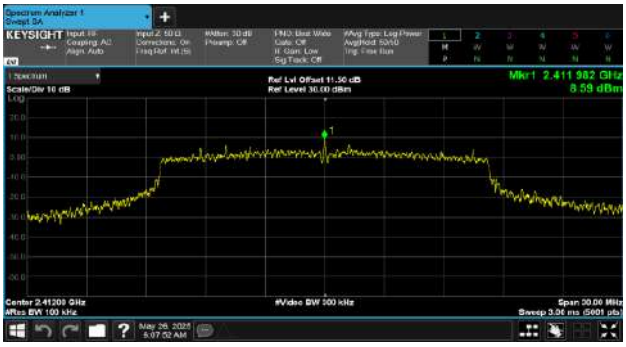
SISO ANT A
Modulation Type: 802.11g CH11



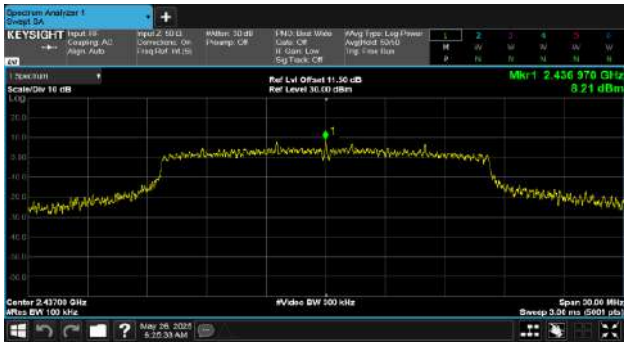


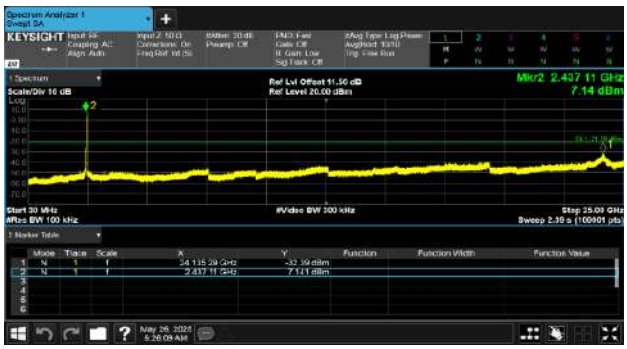
SISO ANT B

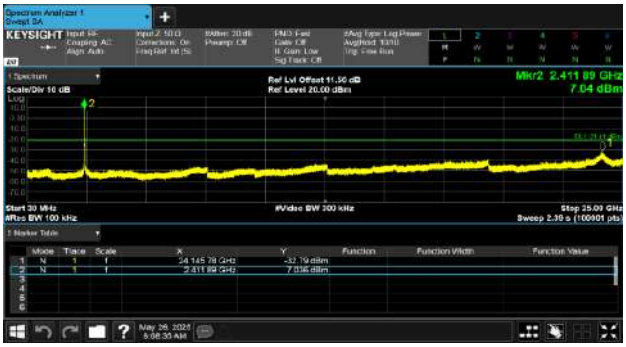
Modulation Type: 802.11g CH01



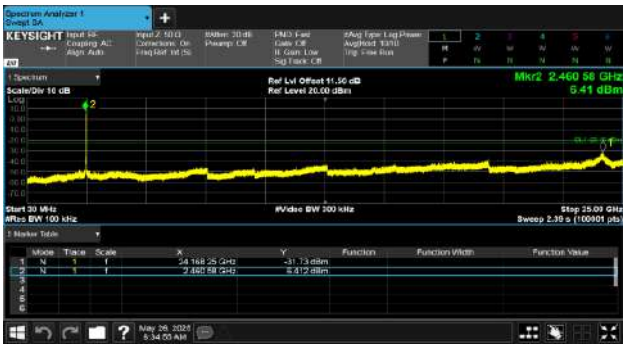
Modulation Type: 802.11g CH06



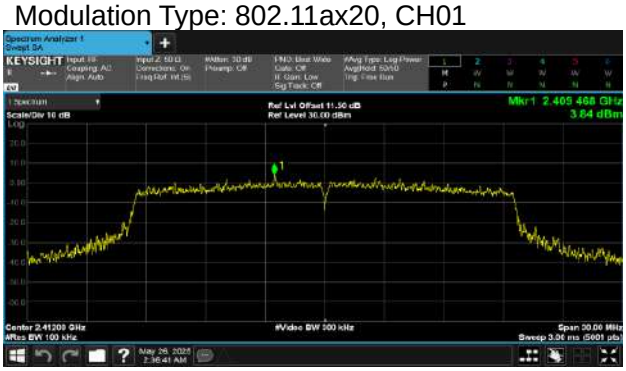




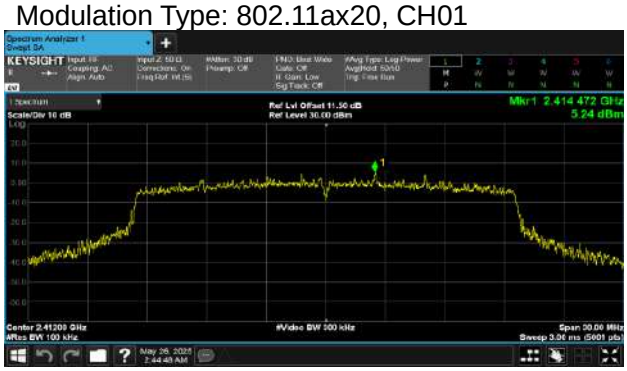
SISO ANT B
Modulation Type: 802.11g CH11

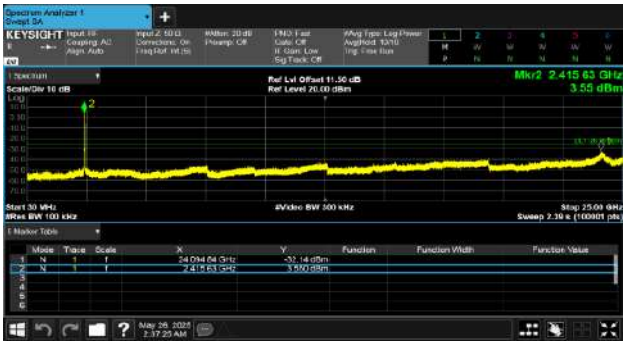


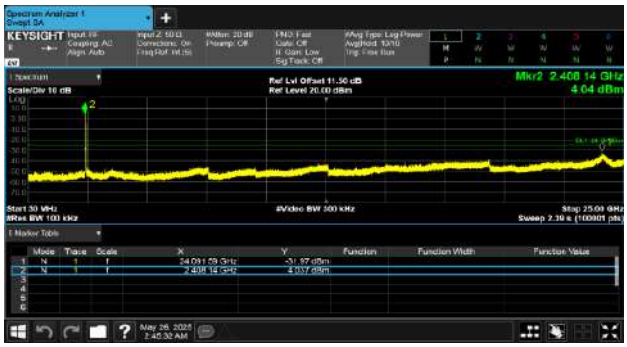
MIMO ANT A
Modulation Type: 802.11ax20, CH01



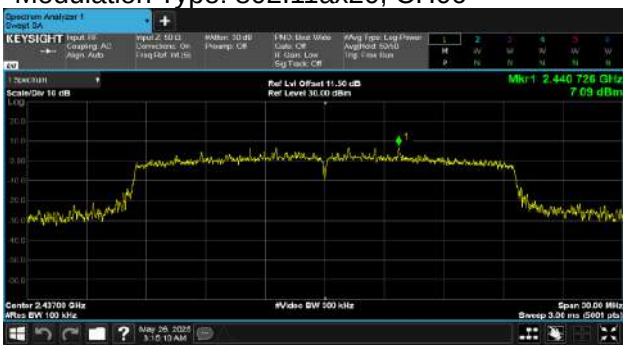
MIMO ANT B
Modulation Type: 802.11ax20, CH01



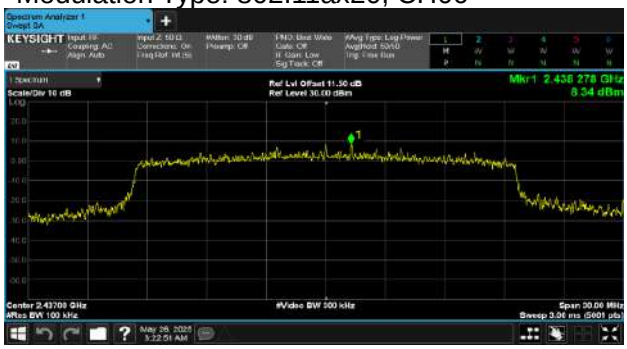




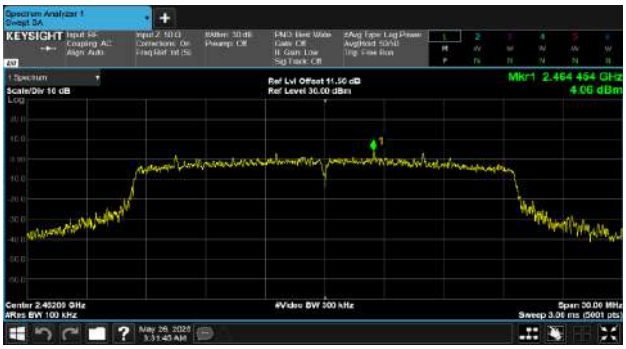
MIMO ANT A
Modulation Type: 802.11ax20, CH06



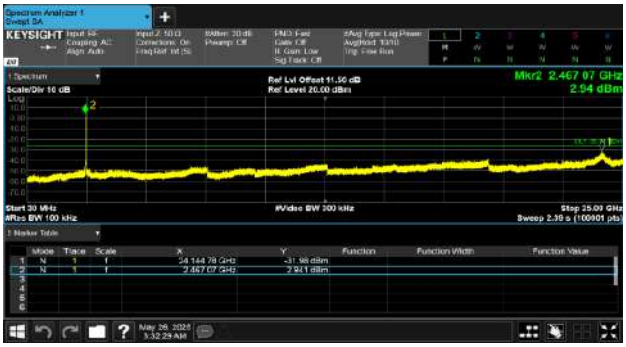
MIMO ANT B
Modulation Type: 802.11ax20, CH06

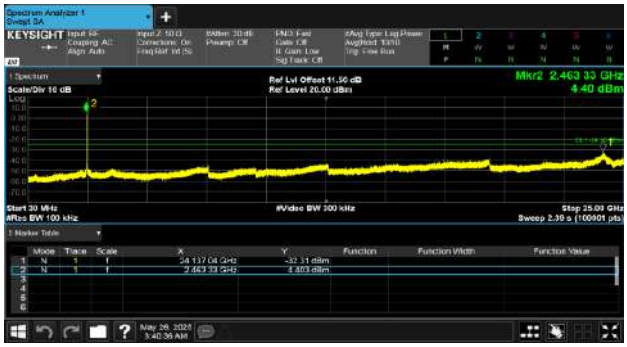


MIMO ANT A
Modulation Type: 802.11ax20, CH11

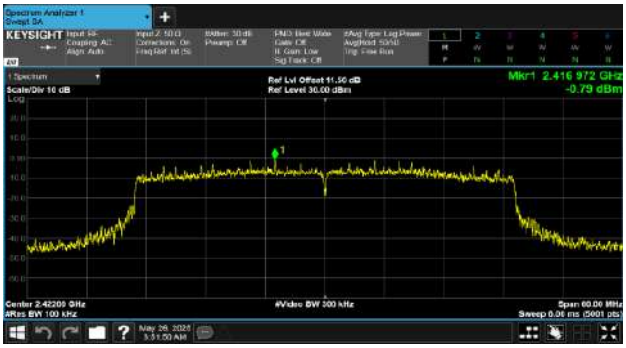


MIMO ANT B
Modulation Type: 802.11ax20, CH11

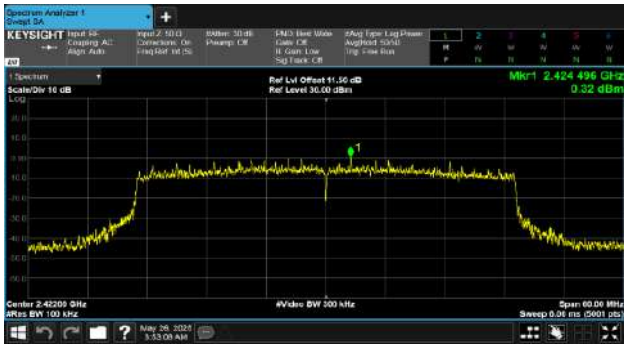


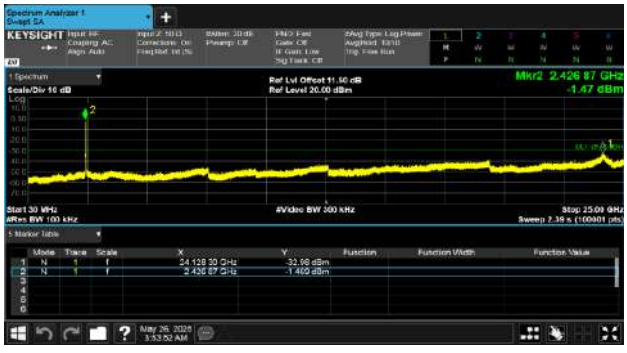


MIMO ANT A
Modulation Type: 802.11ax40, CH03

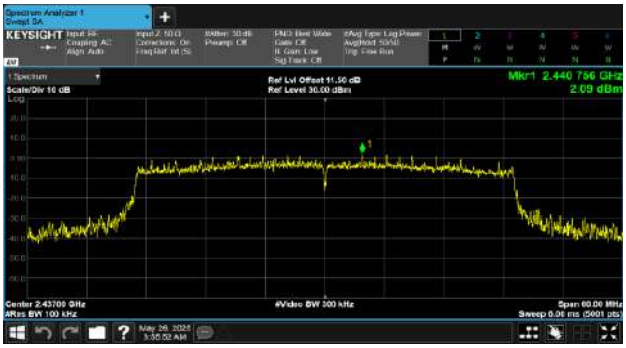


MIMO ANT B
Modulation Type: 802.11ax40, CH03

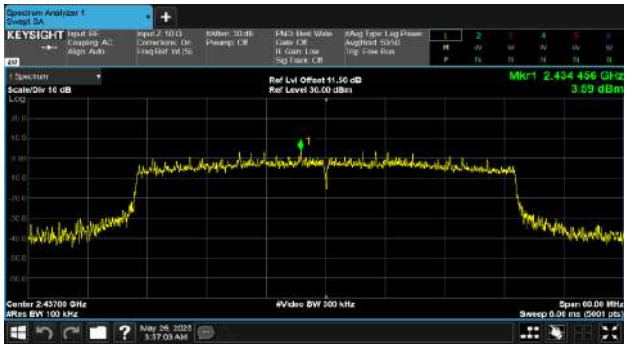


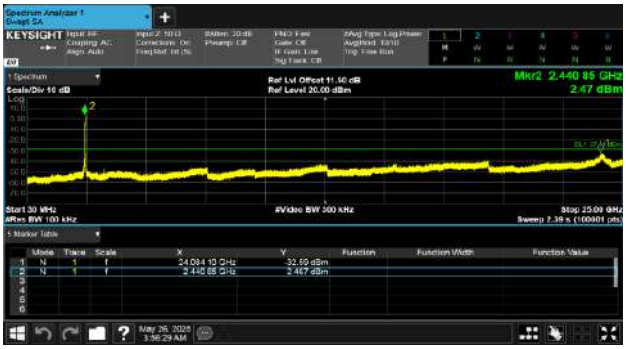


MIMO ANT A
Modulation Type: 802.11ax40, CH06

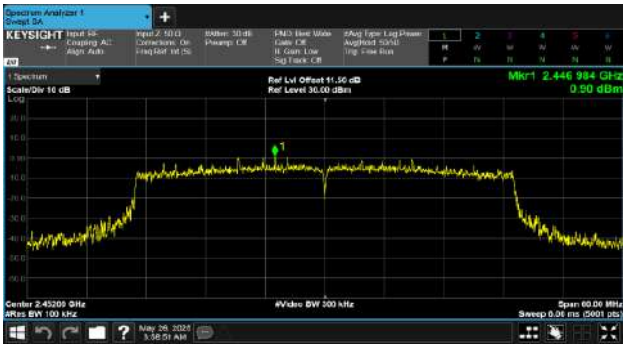


MIMO ANT B
Modulation Type: 802.11ax40, CH06

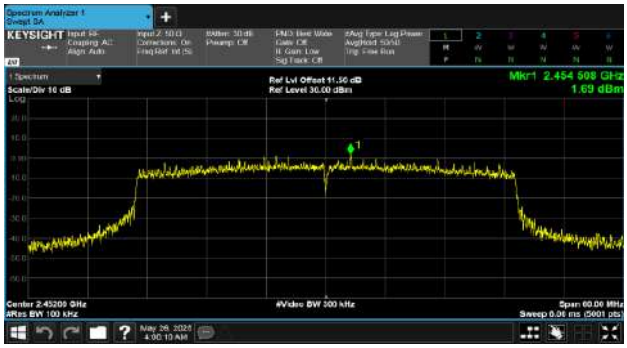


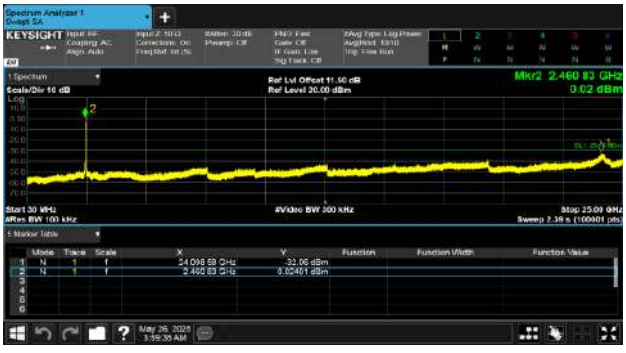


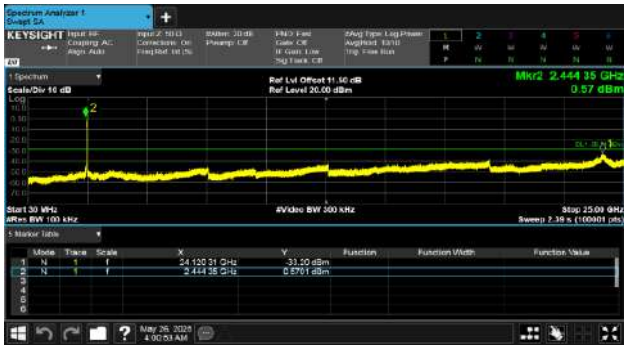
MIMO ANT A
Modulation Type: 802.11ax40, CH09



MIMO ANT B
Modulation Type: 802.11ax40, CH09







8. On Time, Duty Cycle and Measurement methods

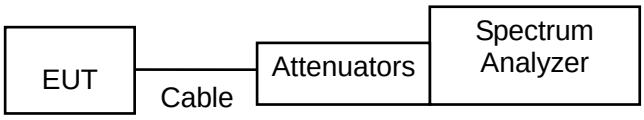
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6 Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

SISO ANT A

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	4.30	4.70	91.49%
11g,6M	1.40	1.81	77.40%

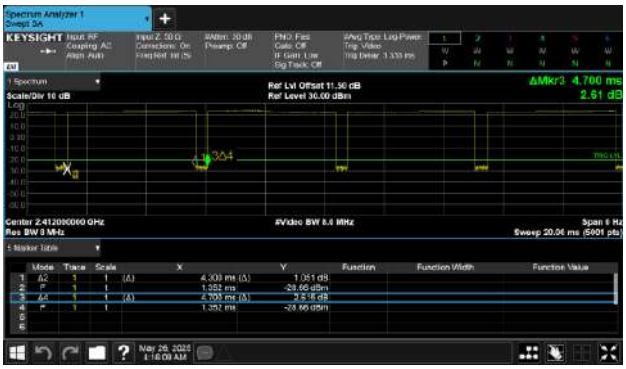
SISO ANT B

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	4.30	4.70	91.41%
11g,6M	1.40	1.81	77.54%

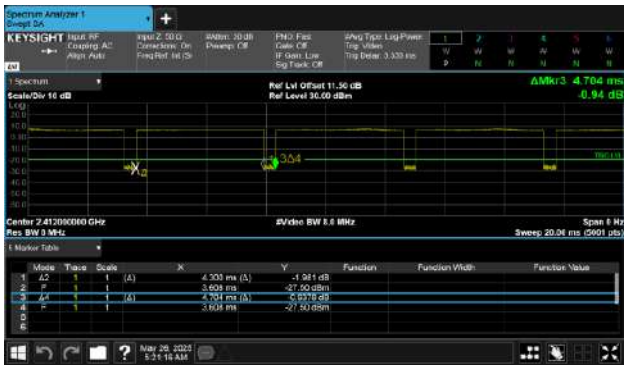
MIMO

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11ax HE20	0.65	1.06	61.26%
11ax HE40	0.36	0.77	46.67%

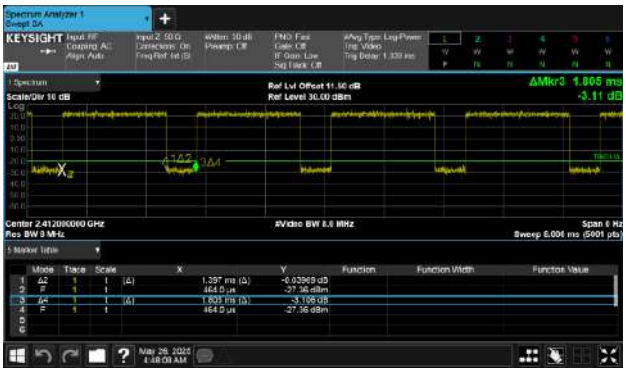
SISO ANT A
Modulation Type: 802.11b



SISO ANT B
Modulation Type: 802.11b



SISO ANT A
Modulation Type: 802.11g



SISO ANT B
Modulation Type: 802.11g

MIMO
Modulation Type: 802.11ax20

MIMO
Modulation Type: 802.11ax40

9. 6dB Bandwidth Measurement Data

9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

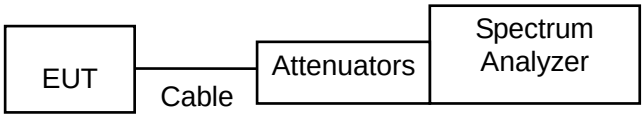
a. The transmitter output was connected to the spectrum analyzer.

b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.

c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

d. The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout



9.4 Test Result and Data

SISO ANT A

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1	2412	8.03	0.5
	6	2437	8.05	0.5
	11	2462	7.57	0.5
11g	1	2412	15.16	0.5
	6	2437	15.17	0.5
	11	2462	15.49	0.5

SISO ANT B

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1	2412	7.11	0.5
	6	2437	7.57	0.5
	11	2462	7.61	0.5
11g	1	2412	15.10	0.5
	6	2437	15.14	0.5
	11	2462	15.37	0.5

MIMO

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
11ax HE20	1	2412	15.45	16.62	0.5
	6	2437	15.17	16.62	0.5
	11	2462	14.19	15.55	0.5
11ax HE40	3	2422	35.09	35.85	0.5
	6	2437	35.11	35.10	0.5
	9	2452	35.10	35.10	0.5

SISO ANT A
Modulation Type: 802.11b CH01

SISO ANT B
Modulation Type: 802.11b CH01

Modulation Type: 802.11b CH06

Modulation Type: 802.11b CH06

Modulation Type: 802.11b CH11

Modulation Type: 802.11b CH11

SISO ANT A
Modulation Type: 802.11g CH01

SISO ANT B
Modulation Type: 802.11g CH01

Modulation Type: 802.11g CH06

Modulation Type: 802.11g CH06

Modulation Type: 802.11g CH11

Modulation Type: 802.11g CH11

MIMO ANT A
Modulation Type: 802.11ax20 CH01

MIMO ANT B
Modulation Type: 802.11ax20 CH01

Modulation Type: 802.11ax20 CH06

Modulation Type: 802.11ax20 CH06

Modulation Type: 802.11ax20 CH11

Modulation Type: 802.11ax20 CH11

MIMO ANT A
Modulation Type: 802.11ax40 CH03

MIMO ANT B
Modulation Type: 802.11ax40 CH03

Modulation Type: 802.11ax40 CH06

Modulation Type: 802.11ax40 CH06

Modulation Type: 802.11ax40 CH09

Modulation Type: 802.11ax40 CH09

10. Maximum Average Output Power

10.1 Test Limit

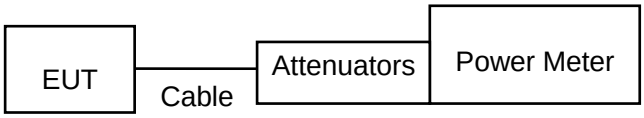
The Maximum Average Output Power Measurement is 30dBm.
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout



10.4 Test Result and Data

SISO ANT A

Data Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
1	0x0e	11b	1	2412	20.66	20.66	116.413	30.00
	0x10		6	2437	22.67	22.67	184.927	30.00
	0x0d		11	2462	19.78	19.78	95.060	30.00
6	0x13	11g	1	2412	19.79	19.79	95.280	30.00
	0x14		6	2437	21.08	21.08	128.233	30.00
	0x12		11	2462	18.70	18.70	74.131	30.00

SISO ANT B

Data Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
1	0x0e	11b	1	2412	20.75	20.75	118.850	30.00
	0x10		6	2437	23.37	23.37	217.270	30.00
	0x0d		11	2462	22.82	22.82	191.426	30.00
6	0x13	11g	1	2412	19.80	19.80	95.499	30.00
	0x14		6	2437	21.09	21.09	128.529	30.00
	0x12		11	2462	19.40	19.40	87.096	30.00

MIMO

Data Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
NSS1-MCS0	0x12	11ax HE20	1	2412	17.28	18.69	21.05	127.417	30.00
	0x14		6	2437	19.64	22.71	24.45	278.683	30.00
	0x11		11	2462	15.03	16.85	19.04	80.259	30.00
NSS1-MCS0	0x0f	11ax HE40	3	2422	14.66	15.58	18.15	65.383	30.00
	0x12		6	2437	16.07	17.70	19.97	99.342	30.00
	0x10		9	2452	16.07	16.21	19.15	82.241	30.00

11. Power Spectral Density

11.1 Test Limit

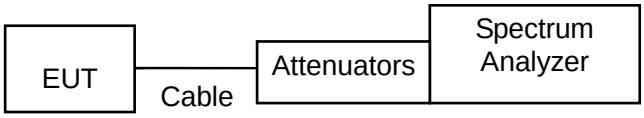
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.10.

11.3 Test Setup Layout



11.4 Test Result and Data

SISO ANT A

Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
11b	1	2412	-12.941	-12.94	0.39	-12.55	8.00
	6	2437	-12	-12.00	0.39	-11.61	8.00
	11	2462	-13.266	-13.27	0.39	-12.88	8.00
11g	1	2412	-17.466	-17.47	1.11	-16.36	8.00
	6	2437	-18.046	-18.05	1.11	-16.94	8.00
	11	2462	-19.357	-19.36	1.11	-18.25	8.00

SISO ANT B

Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
11b	1	2412	1.534	1.53	0.39	1.92	8.00
	6	2437	-0.411	-0.41	0.39	-0.02	8.00
	11	2462	1.682	1.68	0.39	2.07	8.00
11g	1	2412	0.227	0.23	1.10	1.33	8.00
	6	2437	1.215	1.22	1.10	2.32	8.00
	11	2462	-19.768	-19.77	1.10	-18.67	8.00

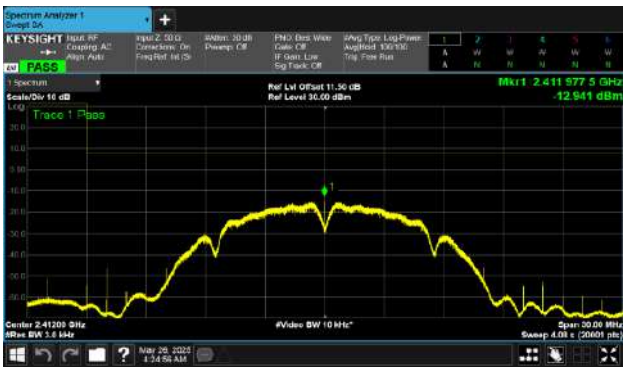
MIMO

Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE20	1	2412	-24.32	-23.264	-20.75	2.13	-18.62	8.00
	6	2437	-20.298	-1.488	-1.43	2.13	0.70	8.00
	11	2462	-23.63	-23.463	-20.54	2.13	-18.41	8.00

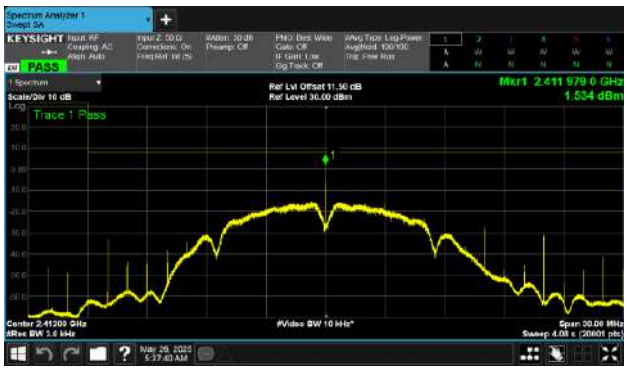
MIMO

Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 100KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE40	3	2422	-31.587	-31.756	-28.66	3.31	-25.35	8.00
	6	2437	-31.442	-29.048	-27.07	3.31	-23.76	8.00
	9	2452	-31.835	-32.517	-29.15	3.31	-25.84	8.00

SISO ANT A
Modulation Type: 802.11b CH01



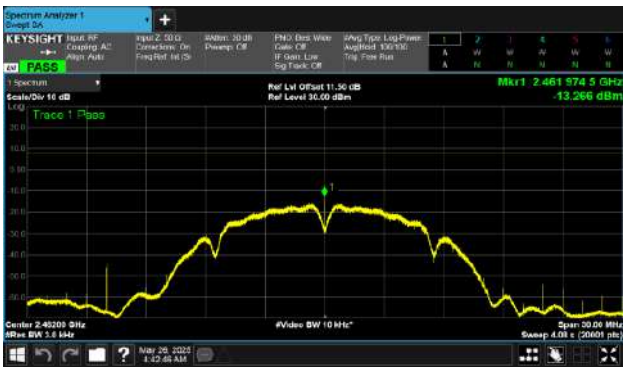
SISO ANT B
Modulation Type: 802.11b CH01



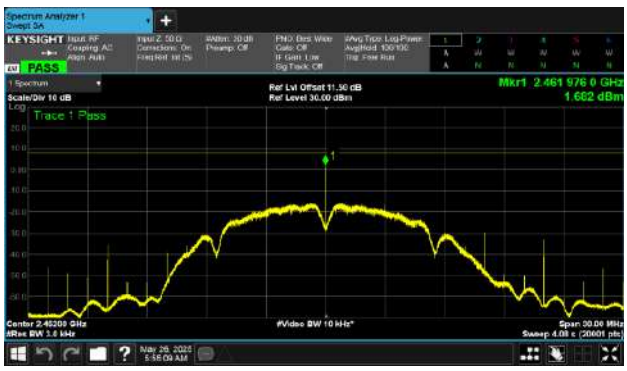
Modulation Type: 802.11b CH06

Modulation Type: 802.11b CH06

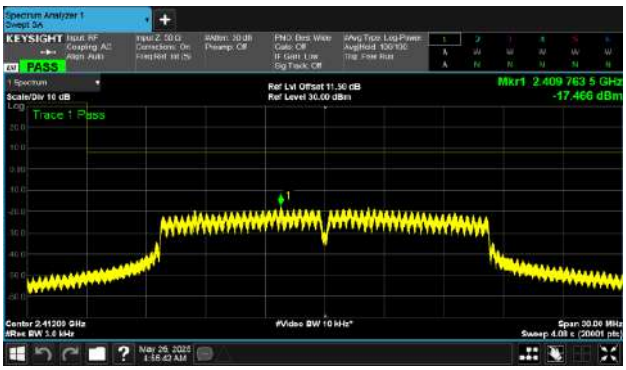
Modulation Type: 802.11b CH11



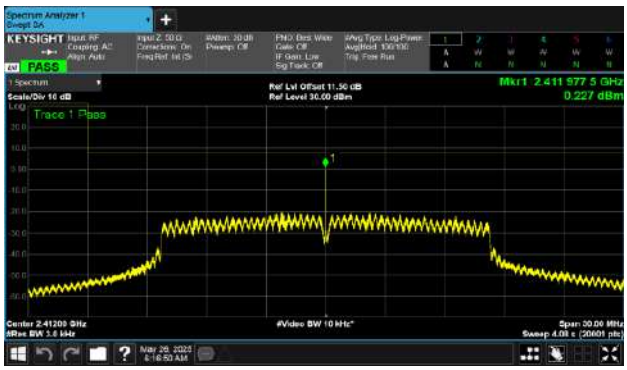
Modulation Type: 802.11b CH11



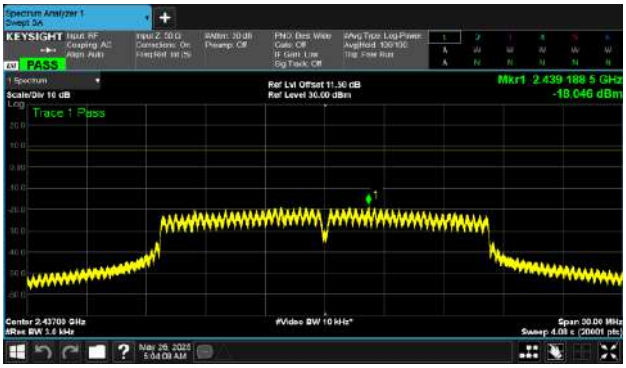
SISO ANT A
Modulation Type: 802.11g CH01



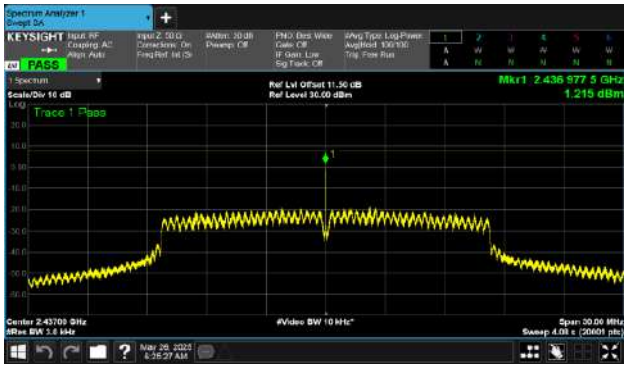
SISO ANT B
Modulation Type: 802.11g CH01



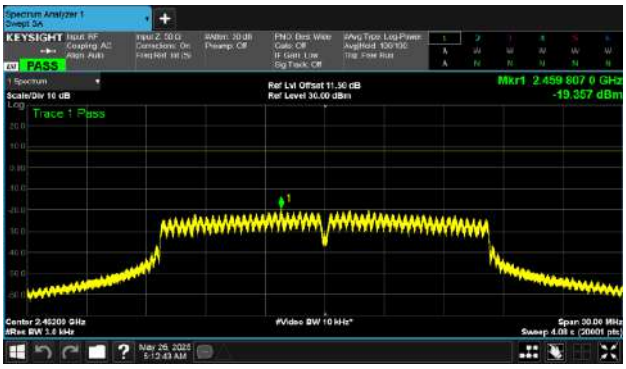
Modulation Type: 802.11g CH06



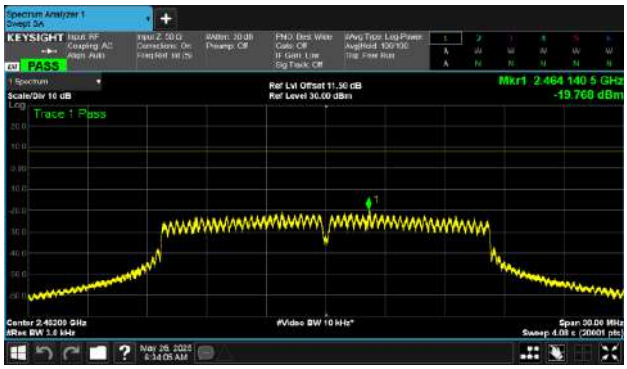
Modulation Type: 802.11g CH06



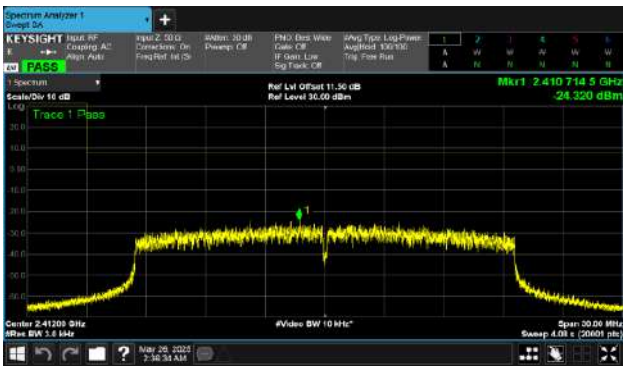
Modulation Type: 802.11g CH11



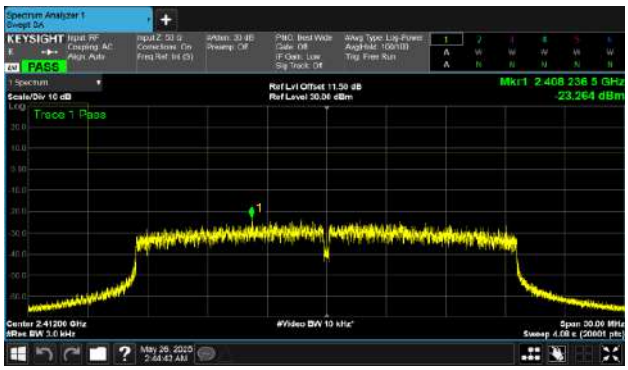
Modulation Type: 802.11g CH11



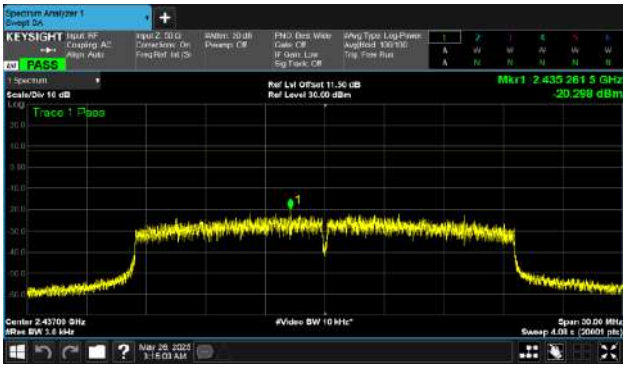
MIMO ANT A
Modulation Type: 802.11ax20 CH01



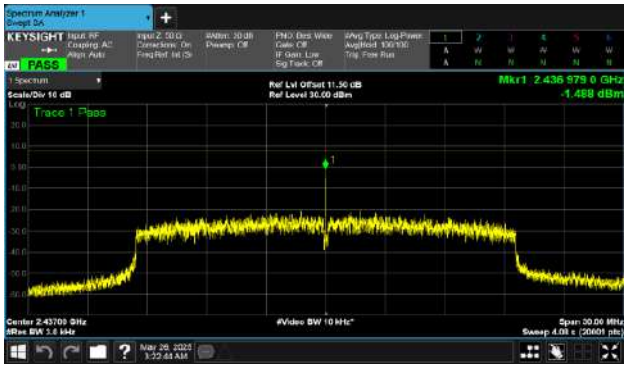
MIMO ANT B
Modulation Type: 802.11ax20 CH01



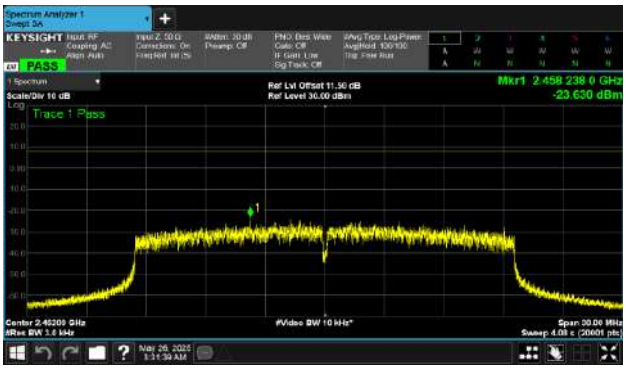
Modulation Type: 802.11ax20 CH06



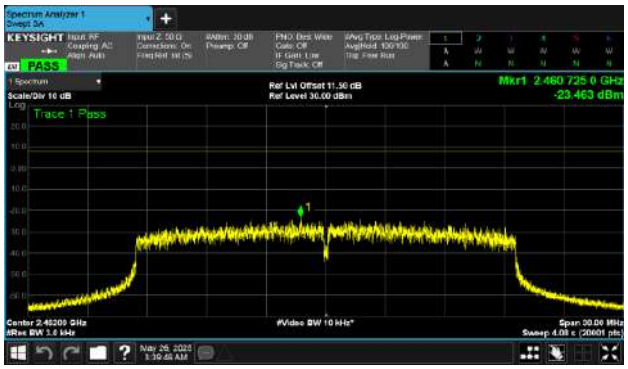
Modulation Type: 802.11ax20 CH06



Modulation Type: 802.11ax20 CH11



Modulation Type: 802.11ax20 CH11



MIMO ANT A
Modulation Type: 802.11ax40 CH03

MIMO ANT B
Modulation Type: 802.11ax40 CH03

Modulation Type: 802.11ax40 CH06

Modulation Type: 802.11ax40 CH06

Modulation Type: 802.11ax40 CH09

Modulation Type: 802.11ax40 CH09

----------THE END OF REPORT----------