



# FCC RADIO TEST REPORT

Applicant : D-Link Corporation

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Address : 14420 Myford Road Suite 100, Irvine, California  
92606, United States

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Equipment : AX3000 Wall Plate Access Point

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Model No. : DAP-X3060W

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Trade Name : D-Link

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FCC ID : KA2APX3060WA1

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**I HEREBY CERTIFY THAT :**

The sample was received on Mar. 31, 2025 and the testing was completed on Jul. 28, 2025 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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# 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**

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407	6 dB Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS
2.1091	Radio Frequency Exposure	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.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(25010405-TEFV01).



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

Operation Frequency Range	2.4GHz:802.11b/g/n(TurboQAM)/ax:2400-2483.5MHz 5GHz:802.11a/n/ac/ax:5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz
Center Frequency Range	2.4GHz:802.11b/g/n(TurboQAM)/ax:2412MHz-2462MHz 5GHz:802.11a/n/ac/ax:5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
Modulation Type	2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	DSSS, OFDM, OFDMA
Data Rate	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 MCS0 – MCS9, VHT20/40(TurboQAM) 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, VHT20/40/80/160 802.11ax: MCS0 – MCS11, HE20/40/80/160
Antenna Type	PCB Antenna
Antenna Gain	2400-2500MHz: ANT A: 2.98dBi, ANT B: 2.85dBi 5150-5250MHz: ANT A: 4.97dBi, ANT B: 4.93dBi 5250-5350MHz: ANT A: 4.99dBi, ANT B: 4.97dBi 5470-5725MHz: ANT A: 4.87dBi, ANT B: 4.93dBi 5725-5850MHz: ANT A: 4.93dBi, ANT B: 4.93dBi

Note:

1. EUT support TPC Function.
2. EUT support AP Mode(Master).
3. EUT only support Full RU.
4. WLAN 2.4GHz 802.11n Support TurboQAM.
5. WLAN 2.4GHz 802.11n(TurboQAM) & 802.11ax support beamforming Function.
6. WLAN 5GHz 802.11ac & 802.11ax support beamforming Function.
7. EUT FW: v1.01
8. For more details, please refer to the User's manual of the EUT.



## 2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*36</b>	<b>5180</b>	44	5220
<b>*40</b>	<b>5200</b>	<b>*48</b>	<b>5240</b>

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*38</b>	<b>5190</b>	<b>*46</b>	<b>5230</b>

802.11ac VHT80 , 802.11ax HE80

Channel	Frequency(MHz)
<b>*42</b>	<b>5210</b>

802.11ac VHT160 , 802.11ax HE160

Channel	Frequency(MHz)
<b>*50</b>	<b>5250</b>

Band: 5250MHz-5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*52</b>	<b>5260</b>	<b>*60</b>	<b>5300</b>
56	5280	<b>*64</b>	<b>5320</b>

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*54</b>	<b>5270</b>	<b>*62</b>	<b>5310</b>

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
<b>*58</b>	<b>5290</b>

Band: 5470MHz-5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*100</b>	<b>5500</b>	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	<b>*140</b>	<b>5700</b>
<b>*120</b>	<b>5600</b>		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*102</b>	<b>5510</b>	126	5630
110	5550	<b>*134</b>	<b>5670</b>
<b>*118</b>	<b>5590</b>		

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*106</b>	<b>5530</b>	<b>*122</b>	<b>5610</b>

802.11ax HE160

Channel	Frequency(MHz)
<b>*114</b>	<b>5570</b>



Band 3: Straddle Channel

802.11a, 802.11n HT 20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)
<b>*144</b>	<b>5720</b>

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)
<b>*142</b>	<b>5710</b>

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
<b>*138</b>	<b>5690</b>

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*149</b>	<b>5745</b>	161	5805
153	5765	<b>*165</b>	<b>5825</b>
<b>*157</b>	<b>5785</b>		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*151</b>	<b>5755</b>	<b>*159</b>	<b>5795</b>

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
<b>*155</b>	<b>5775</b>

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. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, " QSPR Ver.5.0.00200 " under Windows OS system was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps), TX Mode
2	802.11ax HE20 (7.3Mbps) , TX Mode
3	802.11ax HE40 (14.6Mbps) , TX Mode
4	802.11ax HE80 (30.6Mbps) , TX Mode
5	802.11ax HE160 (61.3Mbps) , TX Mode
caused "Test Mode 3" generated the worst case, it was reported as the final data.	
Radiation Emissions (below 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , TX Mode
2	802.11ax HE20 (7.3Mbps) , TX Mode
3	802.11ax HE40 (14.6Mbps) , TX Mode
4	802.11ax HE80 (30.6Mbps) , TX Mode
5	802.11ax HE160 (61.3Mbps) , TX Mode
caused "Test Mode 3" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , TX Mode
2	802.11ax HE20 (7.3Mbps) , TX Mode
3	802.11ax HE40 (14.6Mbps) , TX Mode
4	802.11ax HE80 (30.6Mbps) , TX Mode
5	802.11ax HE160 (61.3Mbps) , TX Mode
caused "Test Mode 1~5" generated the worst case, they were reported as the final data.	

- Note: 1.Non-Beamforming was used for the test result.  
 2.There are two kinds of EUT Power Type: Power From Adapter and Power From PoE. After engineering evaluation, Adapter is worst case, hence, is used at test report.  
 3.There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz. For AC Power Line Conducted Emission, AC 120V / 60Hz is worst case. For Radiated Spurious Emission(Below 1GHz), AC 240V / 60Hz is worst case.



The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11a	2TX
802.11n HT20	2TX
802.11n HT40	2TX
802.11ac VHT20	2TX
802.11ac VHT40	2TX
802.11ac VHT80	2TX
802.11ac VHT160	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX
802.11ax HE160	2TX



### 2.4. Description of Test System

#### Non-Beamforming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / 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
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

#### Beamforming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	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 30 MHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

**Non-Beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/04/15	26.1°C / 51%	Leon Huang
RF Conducted	RFCON01-NK	2025/04/16	25.8°C / 48%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/09	23.1°C / 54%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/10	21.5°C / 59%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/14	21.8°C / 57%	Leon Huang
Radiated Emissions	3M02-NK	2025/07/28	19.5°C / 63%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/07/28	23.4°C / 56%	Leon Huang

**Beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/04/17	25.1°C / 53%	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
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

Non-Beamforming

Test Item	Radiated Emissions(04/09-04/14)				
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	Schwarzbeck	FMZB 1513	00414	2025/02/18	2026/02/17
Horn Antenna	EMCO	3116	31974	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	31589	2024/06/27	2025/06/26
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2024/07/16	2025/07/15
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60659	2024/12/16	2025/12/15
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
Highpass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2025/02/21	2026/02/20
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2025/02/11	2026/02/10
Highpass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2024/10/15	2025/10/14
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA



Non-Beamforming

Test Item	Radiated Emissions(07/28)				
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	Schwarzbeck	FMZB 1513	00414	2025/02/18	2026/02/17
Horn Antenna	EMCO	3116	31974	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	31589	2025/02/20	2026/02/19
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2025/05/19	2026/05/18
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60659	2024/12/16	2025/12/15
Cable-4m(9k-3G)	E MEC	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
Highpass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2025/02/21	2026/02/20
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2025/02/11	2026/02/10
Highpass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2024/10/15	2025/10/14
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11

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	2025/05/19	2026/05/18
Cable-4m(9k-3G)	E MEC	RG-223	18274M	2024/08/08	2025/08/07
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



Beamforming

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11



## 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 15.407 (a), 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	PCB Antenna
Antenna Gain	5150-5250MHz: ANT A: 4.97dBi, ANT B: 4.93dBi 5250-5350MHz: ANT A: 4.99dBi, ANT B: 4.97dBi 5470-5725MHz: ANT A: 4.87dBi, ANT B: 4.93dBi 5725-5850MHz: ANT A: 4.93dBi, ANT B: 4.93dBi

(Non-Beamforming)

5150-5250MHz
For Power directional gain= $G_{ant} = 4.97$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.96$ (dBi)
5250-5350MHz
For Power directional gain= $G_{ant} = 4.99$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.99$ (dBi)
5470-5725MHz
For Power directional gain= $G_{ant} = 4.93$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.91$ (dBi)
5725-5850MHz
For Power directional gain= $G_{ant} = 4.93$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.94$ (dBi)

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

(Beamforming)

5150-5250MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.96$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.96$ (dBi)
5250-5350MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.99$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.99$ (dBi)
5470-5725MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.91$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.91$ (dBi)
5725-5850MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.94$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 7.94$ (dBi)



## 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 $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

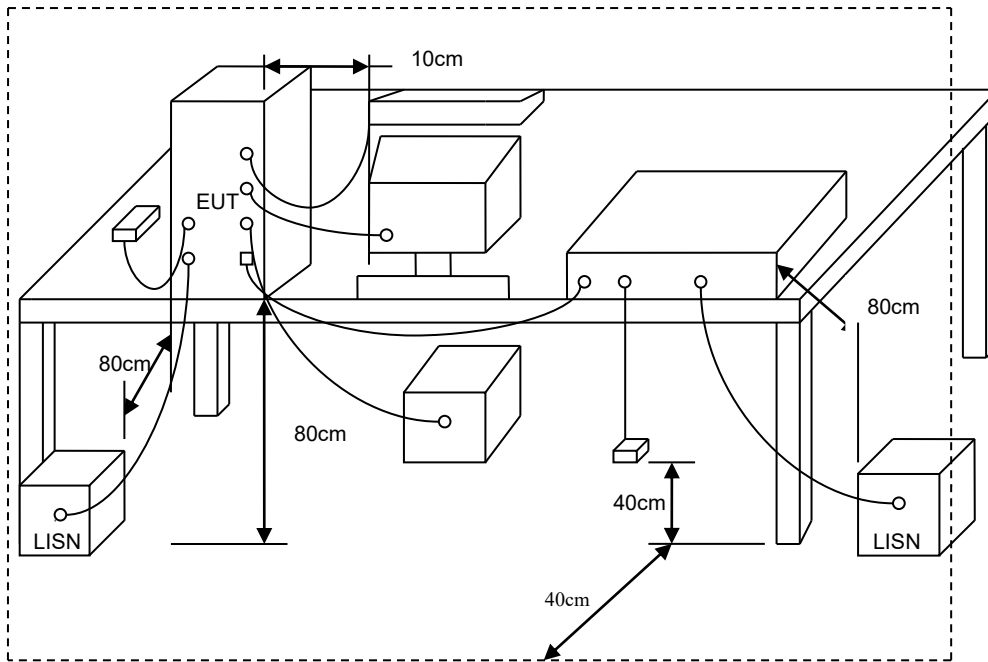
\*Decreases with the logarithm of the frequency.

### 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

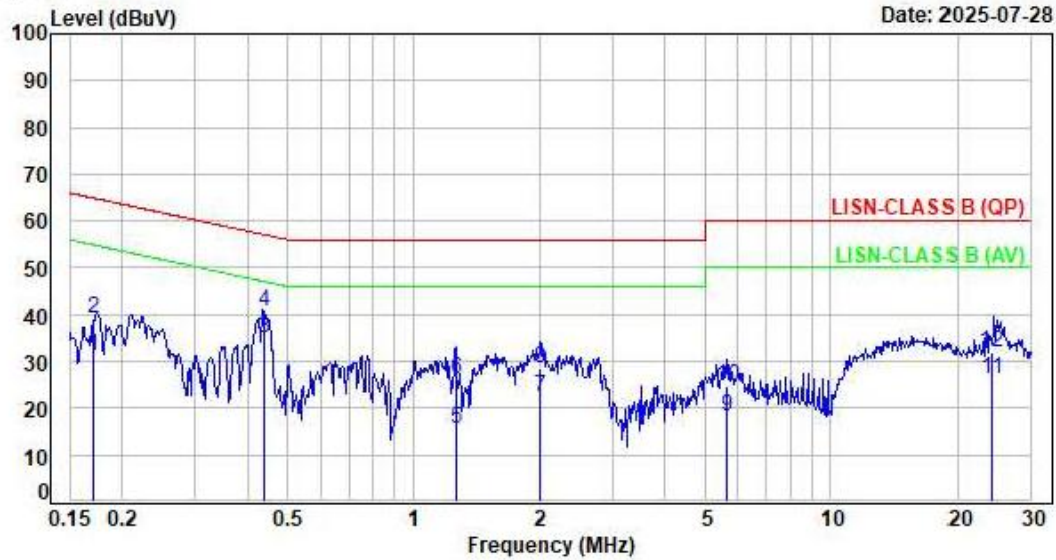




### 5.4. Test Result and Data

Test Mode : 2TX 11a CH149 6Mbps  
Voltage : From POE(AC 120V/60Hz)  
Phase : Line

Data: 5



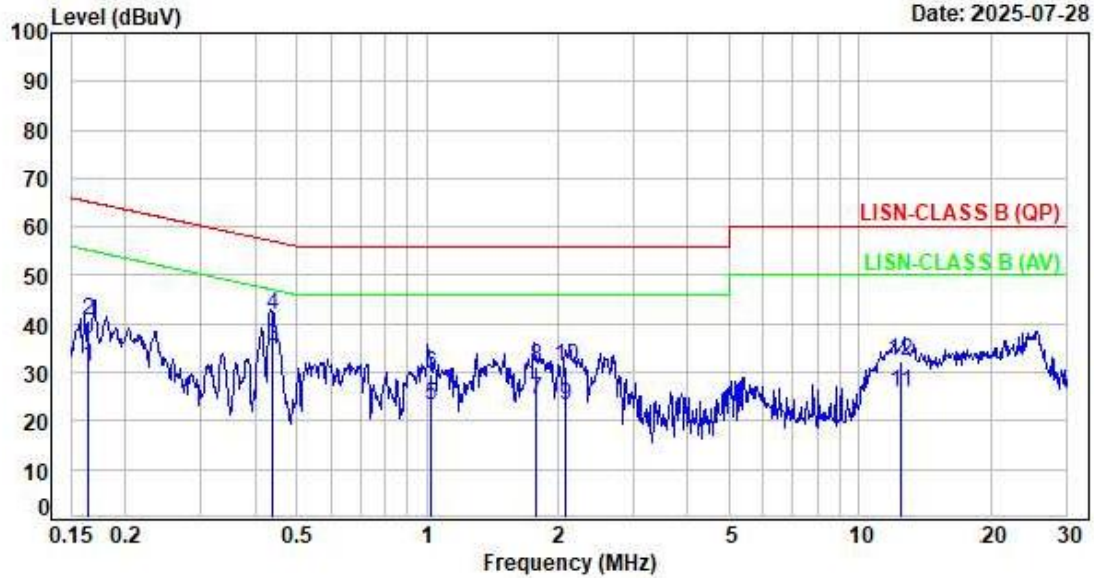
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1711	9.63	21.56	31.19	54.91	-23.72	Average	P
2	0.1711	9.63	29.60	39.23	64.91	-25.68	QP	P
3	0.4388	9.65	25.52	35.17	47.08	-11.91	Average	P
4	0.4388	9.65	31.08	40.73	57.08	-16.35	QP	P
5	1.2729	9.67	5.84	15.51	46.00	-30.49	Average	P
6	1.2729	9.67	16.75	26.42	56.00	-29.58	QP	P
7	2.0166	9.69	12.81	22.50	46.00	-23.50	Average	P
8	2.0166	9.69	18.92	28.61	56.00	-27.39	QP	P
9	5.6483	9.77	8.30	18.07	50.00	-31.93	Average	P
10	5.6483	9.77	14.94	24.71	60.00	-35.29	QP	P
11	24.0163	9.94	16.18	26.12	50.00	-23.88	Average	P
12	24.0163	9.94	21.90	31.84	60.00	-28.16	QP	P

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



Test Mode : 2TX 11a CH149 6Mbps  
Voltage : From POE(AC 120V/60Hz)  
Phase : Neutral

Data: 6



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1648	9.61	21.43	31.04	55.22	-24.18	Average	P
2	0.1648	9.61	30.94	40.55	65.22	-24.67	QP	P
3	0.4399	9.62	25.75	35.37	47.06	-11.69	Average	P
4	0.4399	9.62	32.04	41.66	57.06	-15.40	QP	P
5	1.0216	9.65	13.52	23.17	46.00	-22.83	Average	P
6	1.0216	9.65	20.11	29.76	56.00	-26.24	QP	P
7	1.7921	9.67	14.83	24.50	46.00	-21.50	Average	P
8	1.7921	9.67	21.59	31.26	56.00	-24.74	QP	P
9	2.0983	9.68	13.50	23.18	46.00	-22.82	Average	P
10	2.0983	9.68	21.61	31.29	56.00	-24.71	QP	P
11	12.4333	9.88	16.13	26.01	50.00	-23.99	Average	P
12	12.4333	9.88	22.59	32.47	60.00	-27.53	QP	P

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



## 6. Test of Spurious Emission (Radiated)

### 6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:  
All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



## 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.

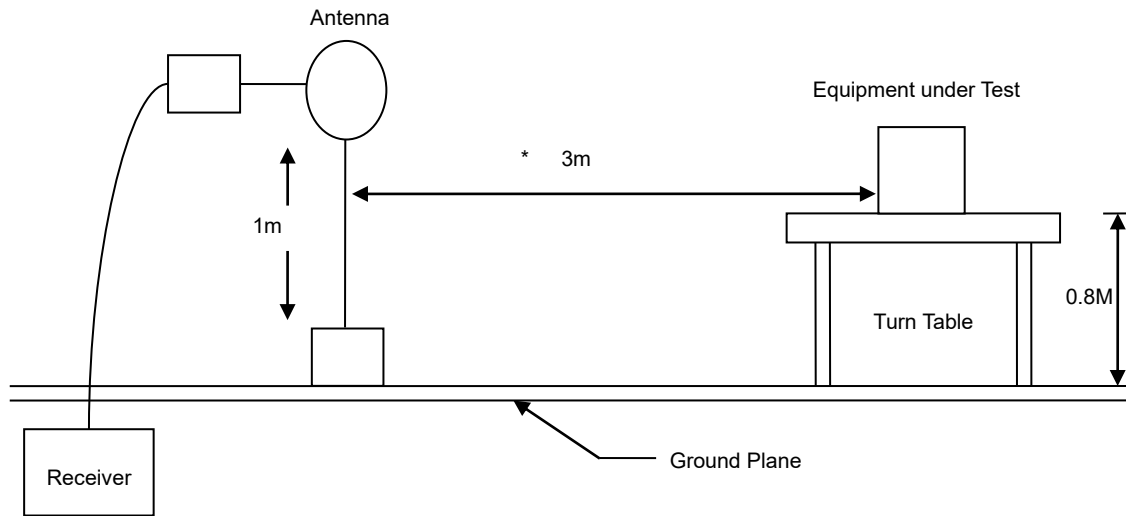
Note:

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

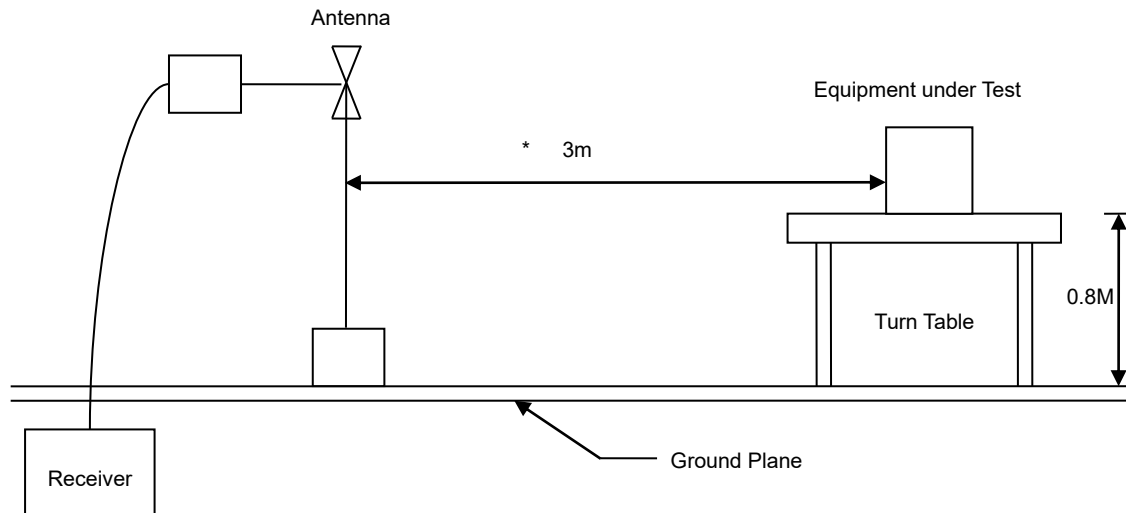


### 6.3. Typical Test Setup

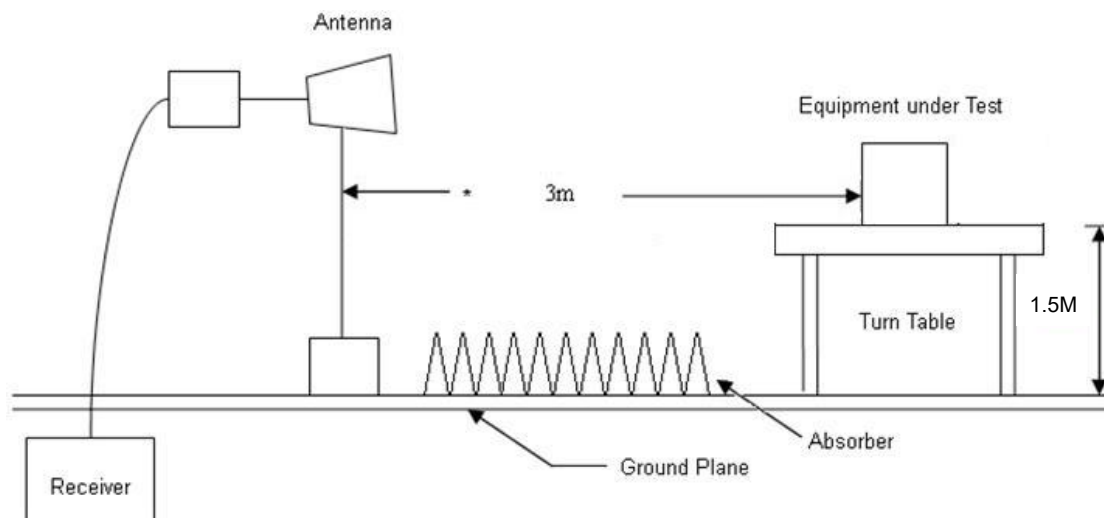
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



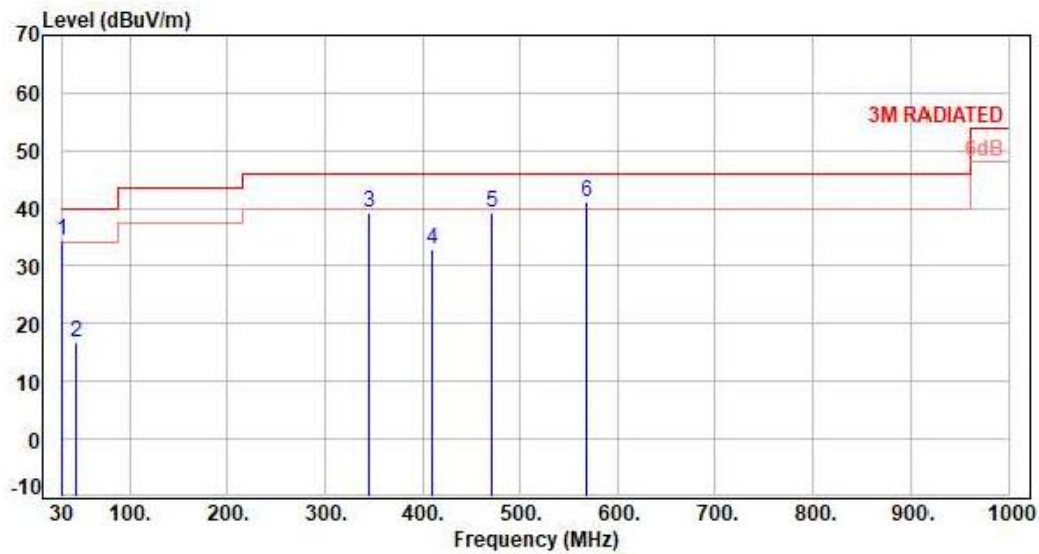


### 6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Test Mode : 2TX 11ax40 CH159 NSS1 MCS0  
Voltage : From Adapter(AC240V/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	-10.28	44.70	34.42	40.00	-5.58	QP	100	0	P
2	45.52	-9.46	26.20	16.74	40.00	-23.26	QP	100	144	P
3	344.28	-6.57	45.92	39.35	46.00	-6.65	Peak	400	0	P
4	410.24	-4.87	37.80	32.93	46.00	-13.07	QP	100	245	P
5	470.38	-3.55	42.69	39.14	46.00	-6.86	QP	100	12	P
6	567.38	-1.15	42.20	41.05	46.00	-4.95	QP	100	360	P

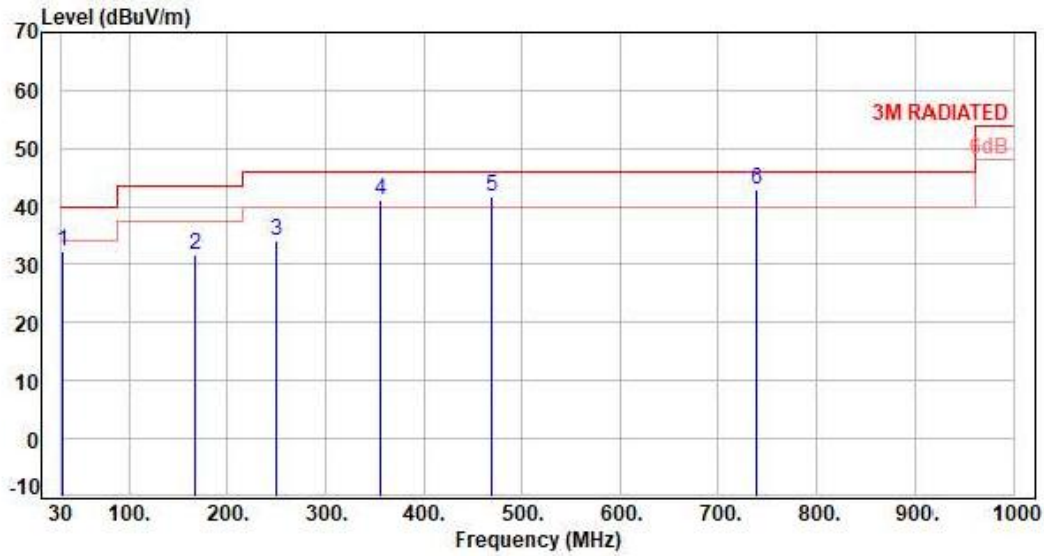
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH159 NSS1 MCS0  
Voltage : From Adapter(AC240V/60Hz)  
Pol : Horizontal



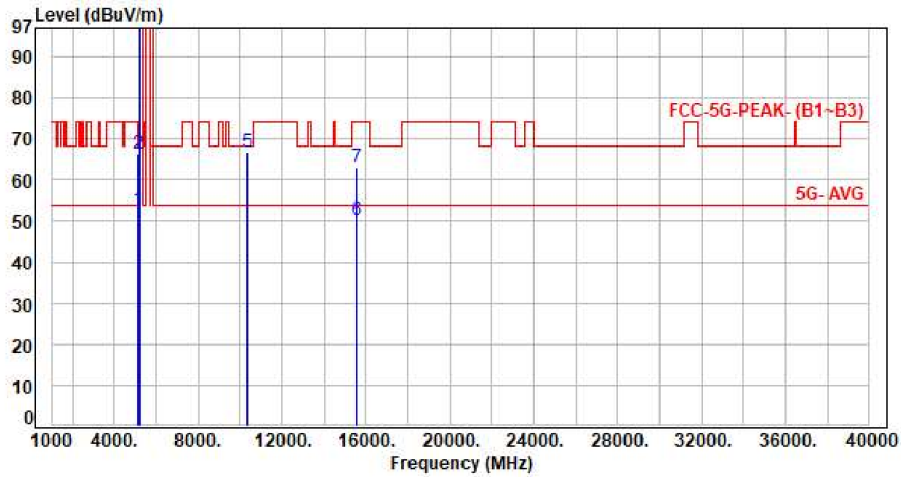
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-10.27	42.43	32.16	40.00	-7.84	Peak	400	360	P
2	167.74	-9.68	41.37	31.69	43.50	-11.81	Peak	400	360	P
3	249.22	-10.54	44.54	34.00	46.00	-12.00	Peak	400	360	P
4	355.92	-6.36	47.51	41.15	46.00	-4.85	QP	100	114	P
5	468.44	-3.59	45.40	41.81	46.00	-4.19	QP	100	149	P
6	738.10	2.06	40.97	43.03	46.00	-2.97	QP	100	124	P

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



### 6.6. Test Result and Data (1GHz ~ 40GHz)

Test Mode : 2TX 11a CH36 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

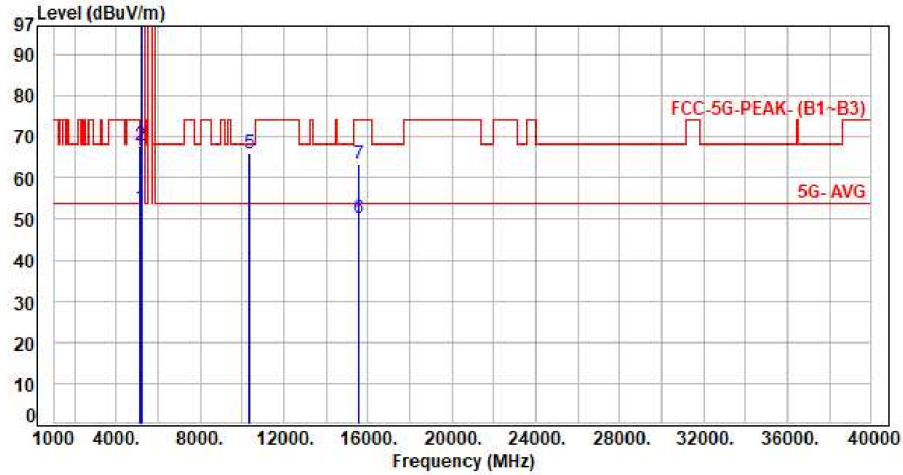


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.68	52.86	54.00	-1.14	Average	334	162	P
2	5150.00	7.18	59.32	66.50	74.00	-7.50	Peak	334	162	P
3	5180.00	7.25	96.95	104.20	200.00	-95.80	Average	334	162	P
4	5180.00	7.25	106.51	113.76	200.00	-86.24	Peak	334	162	P
5	10360.00	16.31	50.30	66.61	68.20	-1.59	Peak	100	164	P
6	15540.00	20.90	29.30	50.20	54.00	-3.80	Average	100	262	P
7	15540.00	20.90	42.12	63.02	74.00	-10.98	Peak	100	262	P

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



Test Mode : 2TX 11a CH36 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

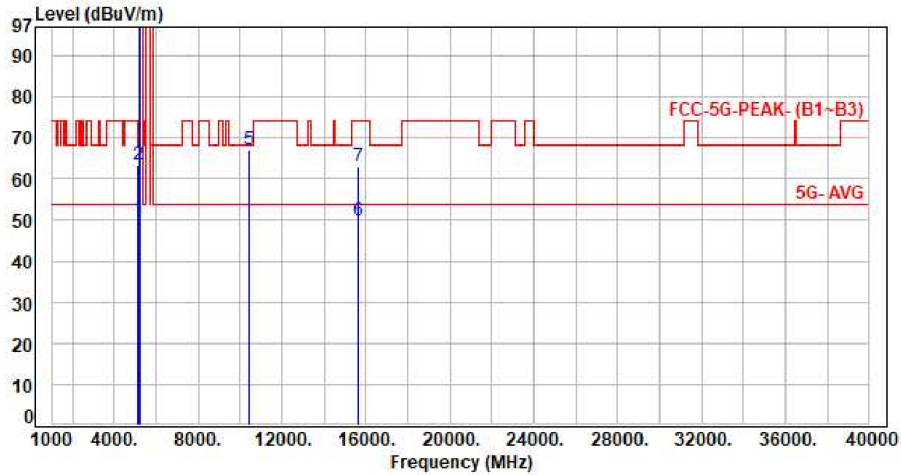


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.43	52.61	54.00	-1.39	Average	379	99	P
2	5150.00	7.18	60.51	67.69	74.00	-6.31	Peak	379	99	P
3	5180.00	7.25	97.65	104.90	200.00	-95.10	Average	379	99	P
4	5180.00	7.25	107.04	114.29	200.00	-85.71	Peak	379	99	P
5	10360.00	16.31	49.73	66.04	68.20	-2.16	Peak	100	207	P
6	15540.00	20.90	29.35	50.25	54.00	-3.75	Average	100	74	P
7	15540.00	20.90	42.57	63.47	74.00	-10.53	Peak	100	74	P

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



Test Mode : 2TX 11a CH40 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

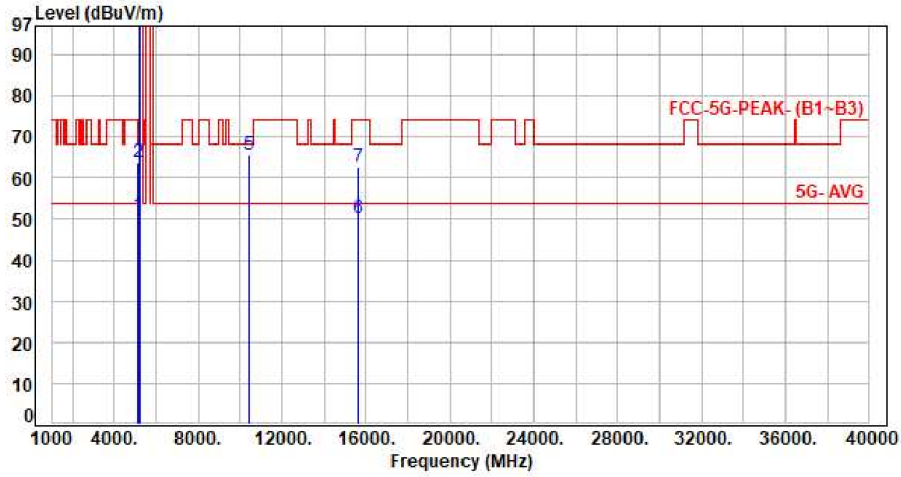


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.16	50.34	54.00	-3.66	Average	330	182	P
2	5150.00	7.18	56.29	63.47	74.00	-10.53	Peak	330	182	P
3	5200.00	7.30	98.25	105.55	200.00	-94.45	Average	330	182	P
4	5200.00	7.30	107.47	114.77	200.00	-85.23	Peak	330	182	P
5	10400.00	16.26	50.74	67.00	68.20	-1.20	Peak	100	165	P
6	15600.00	20.55	29.19	49.74	54.00	-4.26	Average	100	259	P
7	15600.00	20.55	42.54	63.09	74.00	-10.91	Peak	100	259	P

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



Test Mode : 2TX 11a CH40 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

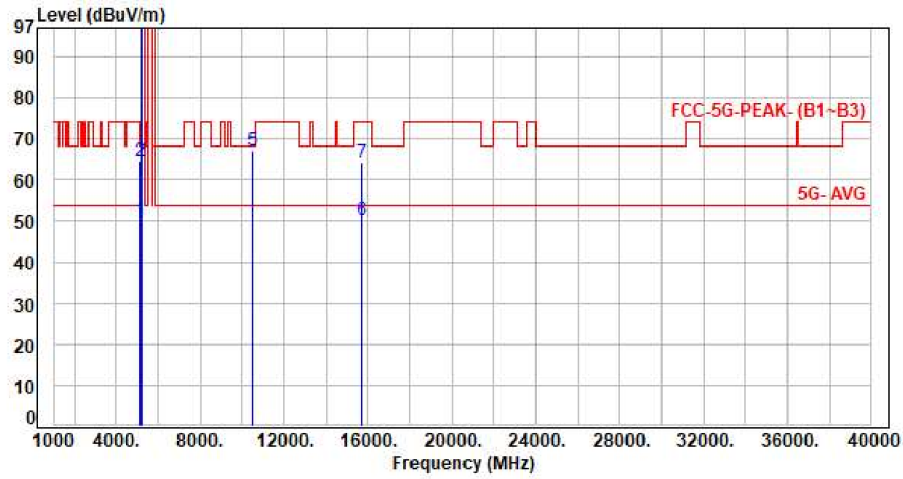


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.54	50.72	54.00	-3.28	Average	393	122	P
2	5150.00	7.18	56.67	63.85	74.00	-10.15	Peak	393	122	P
3	5200.00	7.30	97.27	104.57	200.00	-95.43	Average	393	122	P
4	5200.00	7.30	107.09	114.39	200.00	-85.61	Peak	393	122	P
5	10400.00	16.26	49.52	65.78	68.20	-2.42	Peak	100	211	P
6	15600.00	20.55	29.44	49.99	54.00	-4.01	Average	100	71	P
7	15600.00	20.55	42.02	62.57	74.00	-11.43	Peak	100	71	P

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



Test Mode : 2TX 11a CH48 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

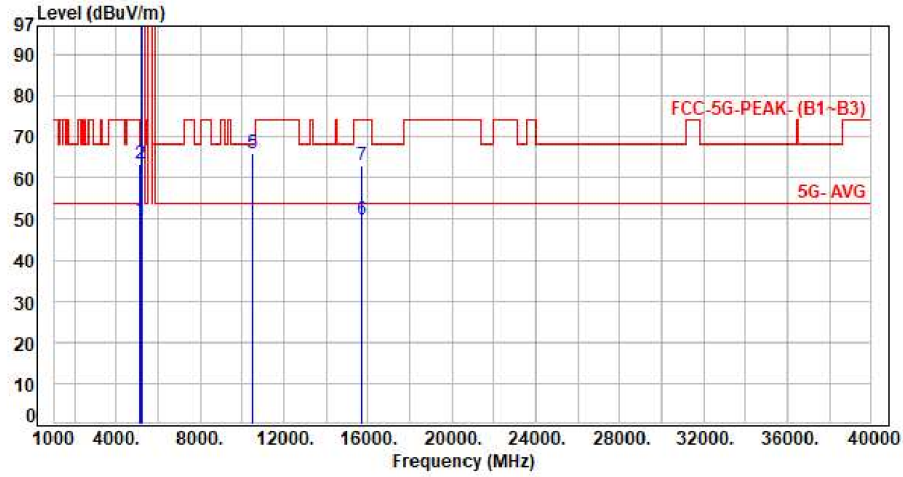


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.94	50.12	54.00	-3.88	Average	346	163	P
2	5150.00	7.18	57.38	64.56	74.00	-9.44	Peak	346	163	P
3	5240.00	7.32	98.22	105.54	200.00	-94.46	Average	346	163	P
4	5240.00	7.32	107.83	115.15	200.00	-84.85	Peak	346	163	P
5	10480.00	16.54	50.43	66.97	68.20	-1.23	Peak	100	162	P
6	15720.00	20.71	29.43	50.14	54.00	-3.86	Average	100	267	P
7	15720.00	20.71	43.55	64.26	74.00	-9.74	Peak	100	267	P

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



Test Mode : 2TX 11a CH48 6Mbps  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

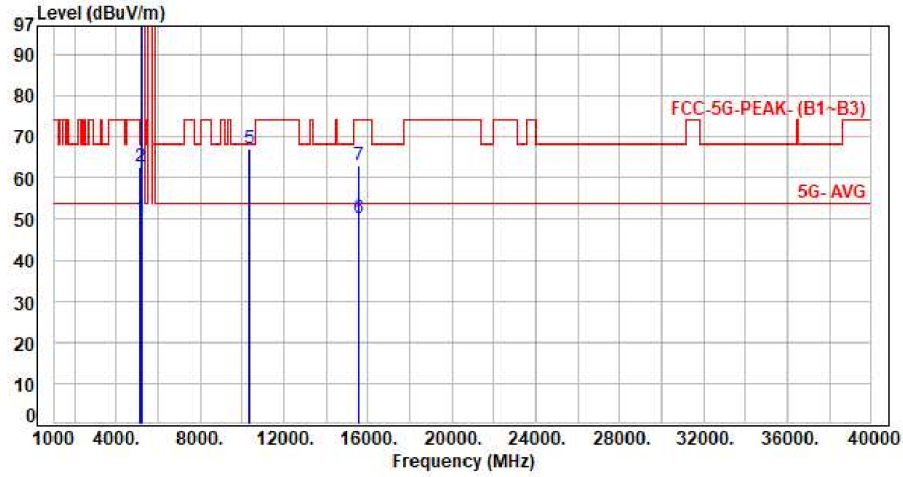


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.61	49.79	54.00	-4.21	Average	391	97	P
2	5150.00	7.18	56.32	63.50	74.00	-10.50	Peak	391	97	P
3	5240.00	7.32	98.84	106.16	200.00	-93.84	Average	391	97	P
4	5240.00	7.32	108.38	115.70	200.00	-84.30	Peak	391	97	P
5	10480.00	16.54	49.52	66.06	68.20	-2.14	Peak	100	211	P
6	15720.00	20.71	29.26	49.97	54.00	-4.03	Average	100	74	P
7	15720.00	20.71	42.49	63.20	74.00	-10.80	Peak	100	74	P

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



Test Mode : 2TX 11ax20 CH36 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

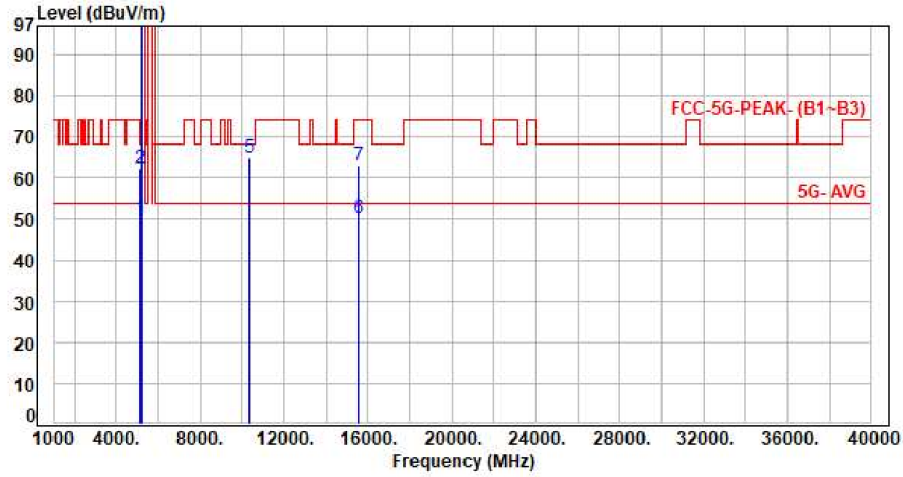


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.16	50.34	54.00	-3.66	Average	333	174	P
2	5150.00	7.18	55.50	62.68	74.00	-11.32	Peak	333	174	P
3	5180.00	7.25	95.83	103.08	200.00	-96.92	Average	333	174	P
4	5180.00	7.25	108.88	116.13	200.00	-83.87	Peak	333	174	P
5	10360.00	16.31	50.66	66.97	68.20	-1.23	Peak	100	162	P
6	15540.00	20.90	29.31	50.21	54.00	-3.79	Average	100	261	P
7	15540.00	20.90	42.26	63.16	74.00	-10.84	Peak	100	261	P

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



Test Mode : 2TX 11ax20 CH36 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

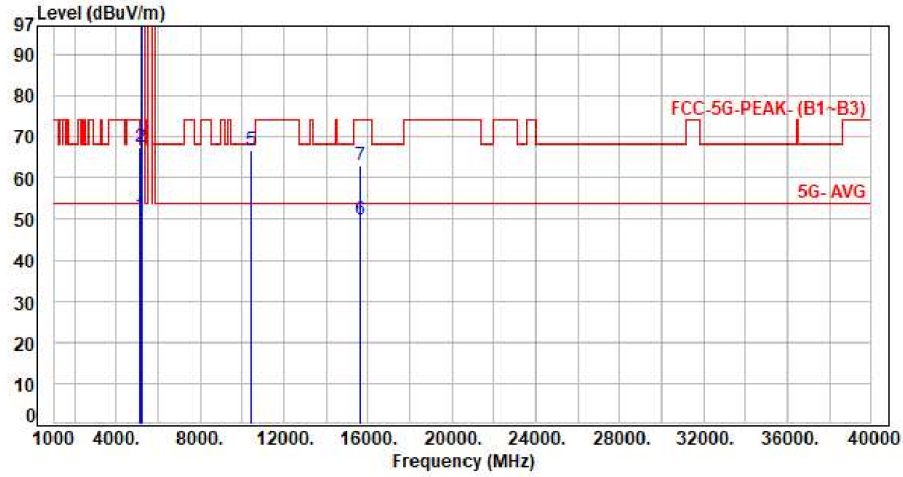


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.85	50.03	54.00	-3.97	Average	275	100	P
2	5150.00	7.18	55.08	62.26	74.00	-11.74	Peak	275	100	P
3	5180.00	7.25	95.06	102.31	200.00	-97.69	Average	275	100	P
4	5180.00	7.25	108.84	116.09	200.00	-83.91	Peak	275	100	P
5	10360.00	16.31	48.54	64.85	68.20	-3.35	Peak	100	207	P
6	15540.00	20.90	29.44	50.34	54.00	-3.66	Average	100	72	P
7	15540.00	20.90	42.13	63.03	74.00	-10.97	Peak	100	72	P

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



Test Mode : 2TX 11ax20 CH40 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

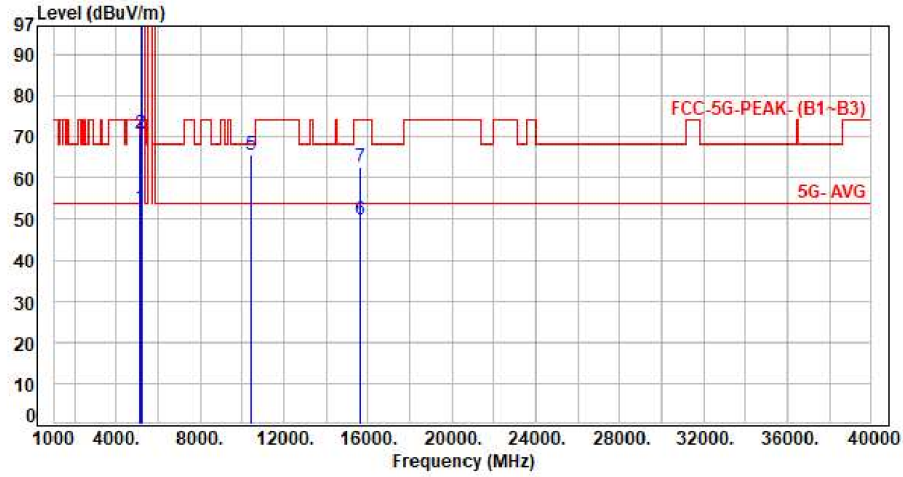


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.59	50.77	54.00	-3.23	Average	350	175	P
2	5150.00	7.18	60.39	67.57	74.00	-6.43	Peak	350	175	P
3	5200.00	7.30	96.96	104.26	200.00	-95.74	Average	350	175	P
4	5200.00	7.30	109.90	117.20	200.00	-82.80	Peak	350	175	P
5	10400.00	16.26	50.41	66.67	68.20	-1.53	Peak	100	161	P
6	15600.00	20.55	29.29	49.84	54.00	-4.16	Average	100	267	P
7	15600.00	20.55	42.43	62.98	74.00	-11.02	Peak	100	267	P

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



Test Mode : 2TX 11ax20 CH40 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

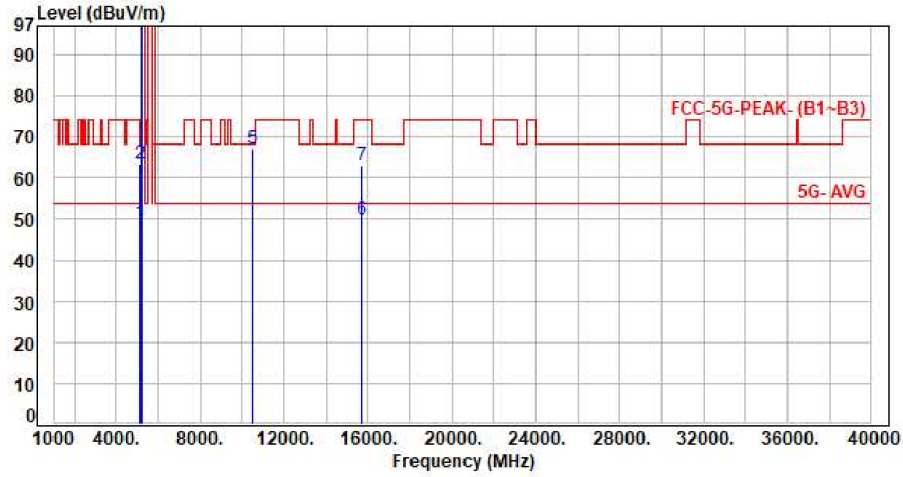


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.63	52.81	54.00	-1.19	Average	277	130	P
2	5150.00	7.18	63.77	70.95	74.00	-3.05	Peak	277	130	P
3	5200.00	7.30	96.55	103.85	200.00	-96.15	Average	277	130	P
4	5200.00	7.30	109.80	117.10	200.00	-82.90	Peak	277	130	P
5	10400.00	16.26	49.24	65.50	68.20	-2.70	Peak	100	208	P
6	15600.00	20.55	29.38	49.93	54.00	-4.07	Average	100	75	P
7	15600.00	20.55	42.13	62.68	74.00	-11.32	Peak	100	75	P

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



Test Mode : 2TX 11ax20 CH48 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Vertical

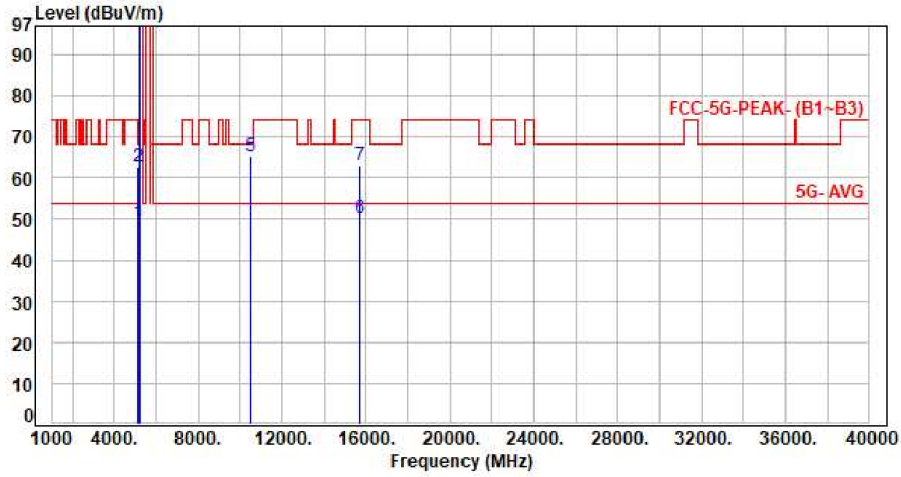


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	41.88	49.06	54.00	-4.94	Average	361	167	P
2	5150.00	7.18	56.15	63.33	74.00	-10.67	Peak	361	167	P
3	5240.00	7.32	97.32	104.64	200.00	-95.36	Average	361	167	P
4	5240.00	7.32	110.35	117.67	200.00	-82.33	Peak	361	167	P
5	10480.00	16.54	50.49	67.03	68.20	-1.17	Peak	100	170	P
6	15720.00	20.71	29.25	49.96	54.00	-4.04	Average	100	265	P
7	15720.00	20.71	42.39	63.10	74.00	-10.90	Peak	100	265	P

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



Test Mode : 2TX 11ax20 CH48 NSS1 MCS0  
Voltage : From POE(AC120V/60Hz)  
Pol : Horizontal

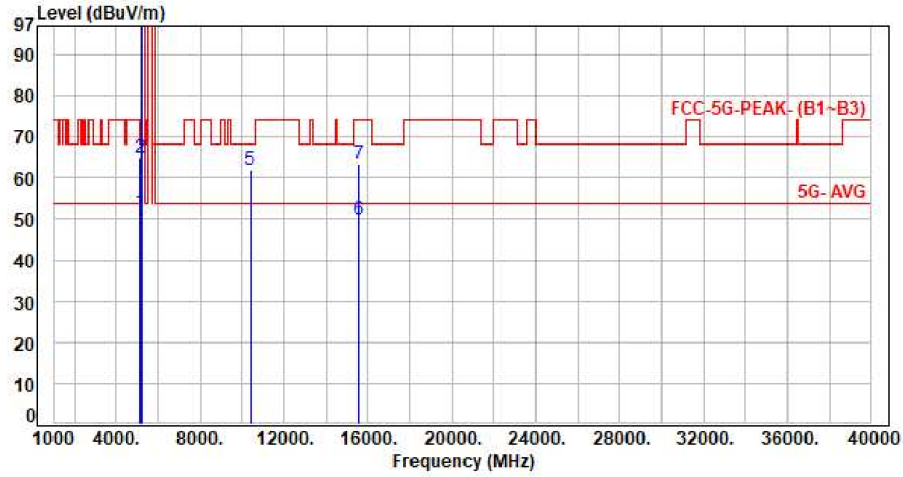


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	41.81	48.99	54.00	-5.01	Average	391	95	P
2	5150.00	7.18	55.41	62.59	74.00	-11.41	Peak	391	95	P
3	5240.00	7.32	97.88	105.20	200.00	-94.80	Average	391	95	P
4	5240.00	7.32	110.24	117.56	200.00	-82.44	Peak	391	95	P
5	10480.00	16.54	48.92	65.46	68.20	-2.74	Peak	100	214	P
6	15720.00	20.71	29.38	50.09	54.00	-3.91	Average	100	73	P
7	15720.00	20.71	42.40	63.11	74.00	-10.89	Peak	100	73	P

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



Test Mode : 2TX 11ax40 CH38 NSS1 MCS0  
Voltage : From POE(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	5150.00	7.18	44.60	51.78	54.00	-2.22	Average	328	175	P
2	5150.00	7.18	57.64	64.82	74.00	-9.18	Peak	328	175	P
3	5190.00	7.28	89.79	97.07	200.00	-102.93	Average	328	175	P
4	5190.00	7.28	102.08	109.36	200.00	-90.64	Peak	328	175	P
5	10380.00	16.29	45.68	61.97	68.20	-6.23	Peak	100	165	P
6	15570.00	20.70	29.17	49.87	54.00	-4.13	Average	100	260	P
7	15570.00	20.70	42.76	63.46	74.00	-10.54	Peak	100	260	P

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