



FCC RADIO TEST REPORT

Applicant : Cerio Corporation

Address : 10F., No. 495, Zhongzheng Rd., Xindian Dist.,
New Taipei City 231613, Taiwan (R.O.C.)

Equipment : Networking Product

Model No. : OW-500

Series Model No. : OW-400, OW-450, CW-500,
OW-550, OW-600, OW-650

Trade Name : CERIO

FCC ID : 2BTPKOW4XX-5XX-6XX

I HEREBY CERTIFY THAT :

The sample was received on Sep. 02, 2025 and the testing was completed on Nov. 02, 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:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory



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History of this test report

Report No.	Issued Date	Description
25080270-TRFCC02	Nov. 21, 2025	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

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	N/A
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	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.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(25080270-TEFV01).



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	For IPQ6010: 2.4GHz:802.11b/g/n/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax:5150-5250MHz For QCN9072: 5GHz:802.11a/n/ac/ax:5150-5250MHz
Center Frequency Range	For IPQ6010: 2.4GHz:802.11b/g/n/ax: 2412MHz-2462MHz 5GHz:802.11a/n/ac/ax:5180-5240MHz For QCN9072: 5GHz:802.11a/n/ac/ax:5180-5240MHz
Modulation Type	For IPQ6010: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM 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 For QCN9072: 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	OFDM 、 DSSS 、 OFDMA
Data Rate	For IPQ6010: 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, HE20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80 For QCN9072: 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, HE20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80
Antenna Type	Omnidirectional Antenna



Antenna Gain	For IPQ6010: 2390-2483.5MHz: ANT A: 4.92dBi, ANT B: 4.92dBi 5150-5250MHz: ANT C: 6.87dBi, ANT D: 6.87dBi For QCN9072: 5150-5250MHz: ANT E: 6.87dBi, ANT F: 6.87dBi
Antenna Cable Loss	For IPQ6010: 2.4G:1.5dB 5G:1.5dB For QCN9072: 5G:1.5dB
POE Injector	Brand: CERIO Model: NPE03GE-T
POE Adapter	Brand: SPC Model: ZZU1588-060550-2A

Note: 1. EUT support TPC Function.

2. For more details, please refer to the User's manual of the EUT.

Difference description:

Model No.	Remark
OW-500, OW-400, OW-450, CW-500, OW-550, OW-600, OW-650	Market segmentation.

Note: OW-500 was the worst case, so it was used for the test result.

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)
*36	5180	44	5220
*40	5200	*48	5240

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
*42	5210

Note: Channels remarked * are selected to perform test.



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- For IPQ6010: An executive program, "QSPR V5.0-00197" under Windows OS system was executed to transmit and receive data via WLAN.
- For QCN9072: An executive program, "QSPR V5.0-00197" under Windows OS system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

For IPQ6010 & QCN9072

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a, TX Mode, From POE
2	802.11ax HE20, TX Mode, From POE
3	802.11ax HE40, TX Mode, From POE
4	802.11ax HE80, TX Mode, From POE
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	802.11a, TX Mode, From POE
2	802.11ax HE20, TX Mode, From POE
3	802.11ax HE40, TX Mode, From POE
4	802.11ax HE80, TX Mode, From POE
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a, TX Mode, From POE
2	802.11ax HE20, TX Mode, From POE
3	802.11ax HE40, TX Mode, From POE
4	802.11ax HE80, TX Mode, From POE
caused "Test Mode 1~4" generated the worst case, they were reported as the final data.	

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

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

For Radiated Spurious Emission, AC 120V / 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
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX

2.4. Description of Test System

For IPQ6010 & QCN9072

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	Lenovo	L440	N/A	Adapter / 1.8m / NS
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
testfixture	YD-TECH	MCS-73-LV	N/A	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	Lenovo	TP00050C	N/A	Adapter / 1.8m / NS
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
testfixture	YD-TECH	MCS-73 LV	N/A	N/A
USB Cable (M to F)(Black)	Cerpass	E478371	3m/NS	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
RJ45 Cable	N/A	N/A	1.2m / NS	N/A
testfixture	YD-TECH	MCS-73 LV	N/A	N/A
USB Cable (A to B)	iMAX	BUSB3100AMA	1.5m / 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 9 kHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

For IPQ6010

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/10/31	23.8°C / 50%	Leon Huang
Radiated Emissions	3M02-NK	2025/10/14	19.5°C / 63%	Leon Huang
Radiated Emissions	3M02-NK	2025/10/21	17.4°C / 56%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/10/27	18.7°C / 63%	Leon Huang

For QCN9072

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/11/02	24.5°C / 55%	Leon Huang
Radiated Emissions	3M02-NK	2025/10/13	19.8°C / 59%	Leon Huang
Radiated Emissions	3M02-NK	2025/10/21	17.4°C / 56%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/10/27	18.7°C / 63%	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)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.5%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±223.073Hz



3. Test Equipment and Ancillaries Used for Tests

For IPQ6010 & QCN9072

Test Item	Radiated Emissions				
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	2025/08/18	2026/08/17
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2025/07/10	2026/07/09
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	60659	2024/12/16	2025/12/15
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
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-1m(1G-40G)	HUBER SUHNER	SF102E	602125	2025/07/19	2026/07/18
Cable-3m(1G-40G)	HUBER SUHNER	SF102E	552450	2025/07/09	2026/07/08
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
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2025/07/09	2026/07/08
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2025/10/23	2026/10/22
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
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	1197	2025/02/26	2026/02/25
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101584	2025/02/26	2026/02/25
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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	Omnidirectional Antenna
Antenna Gain	For IPQ6010 5150-5250MHz: ANT C: 6.87dBi, ANT D: 6.87dBi For QCN9072 5150-5250MHz: ANT C: 6.87dBi, ANT D: 6.87dBi
Antenna Cable Loss	1.5dB

For IPQ6010

5150MHz -5250MHz
For Power directional gain= $G_{ant} = 5.37 \text{ dBi}$ For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.38 \text{ (dBi)}$

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

For QCN9072

5150MHz -5250MHz
For Power directional gain= $G_{ant} = 5.37 \text{ dBi}$ For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.38 \text{ (dBi)}$

*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 C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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

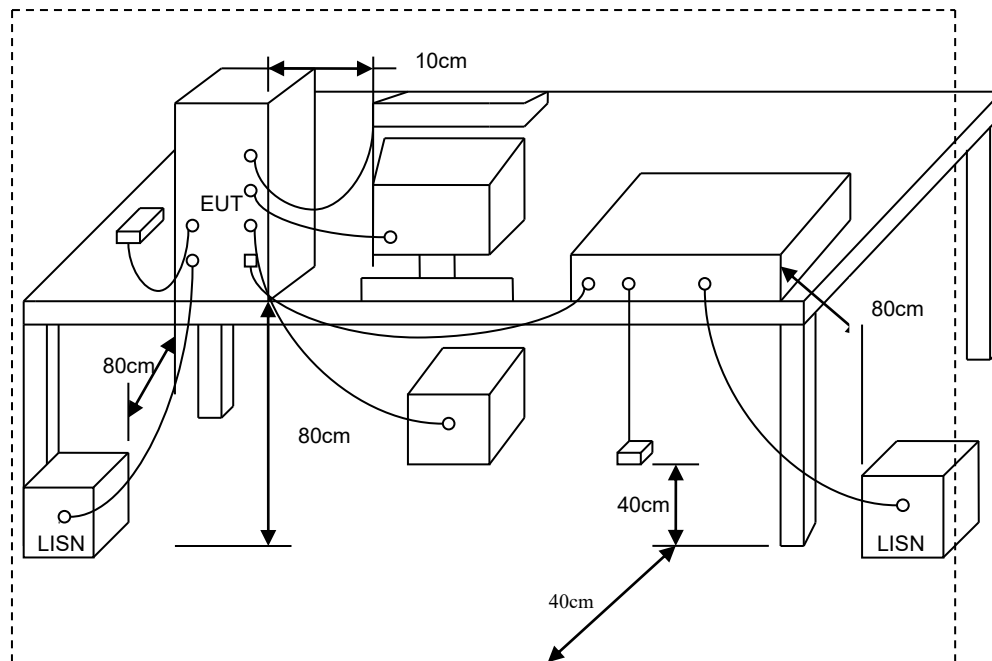
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

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



5.3. Typical Test Setup



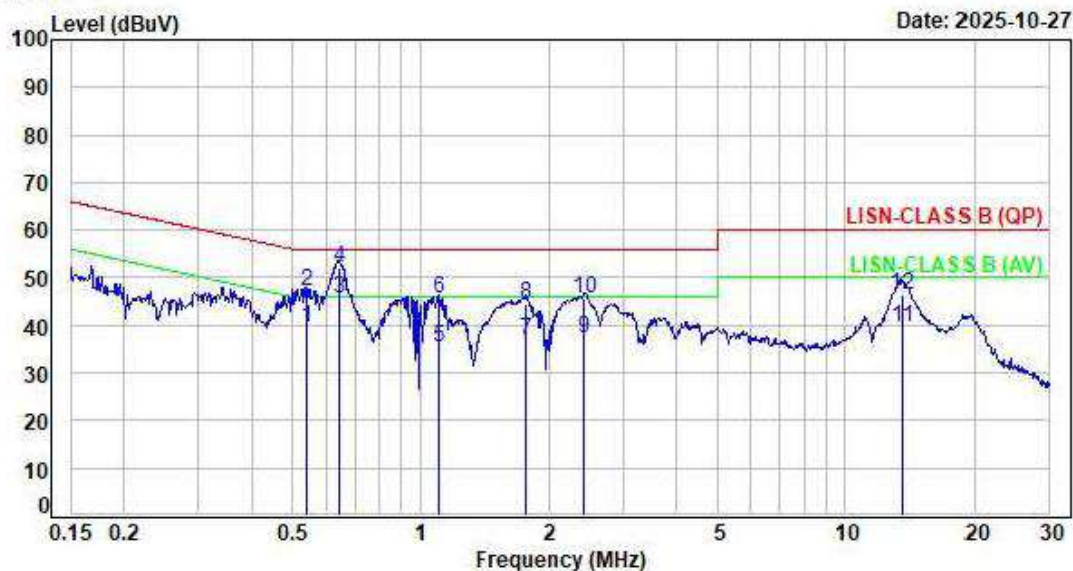


5.4. Test Result and Data

For IPQ6010

Test Mode : 2TX 11ax20 CH48 NSS1 MCS0
Voltage : From POE(POE AC 240V/60Hz)
Phase : Line

Data: 8



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5380	9.56	29.91	39.47	46.00	-6.53	Average	P
2	0.5380	9.56	37.54	47.10	56.00	-8.90	QP	P
3	0.6448	9.57	36.12	45.69	46.00	-0.31	Average	P
4	0.6448	9.57	42.66	52.23	56.00	-3.77	QP	P
5	1.1012	9.58	25.95	35.53	46.00	-10.47	Average	P
6	1.1012	9.58	35.90	45.48	56.00	-10.52	QP	P
7	1.7649	9.58	27.46	37.04	46.00	-8.96	Average	P
8	1.7649	9.58	35.02	44.60	56.00	-11.40	QP	P
9	2.4225	9.60	27.56	37.16	46.00	-8.84	Average	P
10	2.4225	9.60	35.94	45.54	56.00	-10.46	QP	P
11	13.5882	9.92	29.75	39.67	50.00	-10.33	Average	P
12	13.5882	9.92	36.60	46.52	60.00	-13.48	QP	P

Note: Level=Reading+Factor

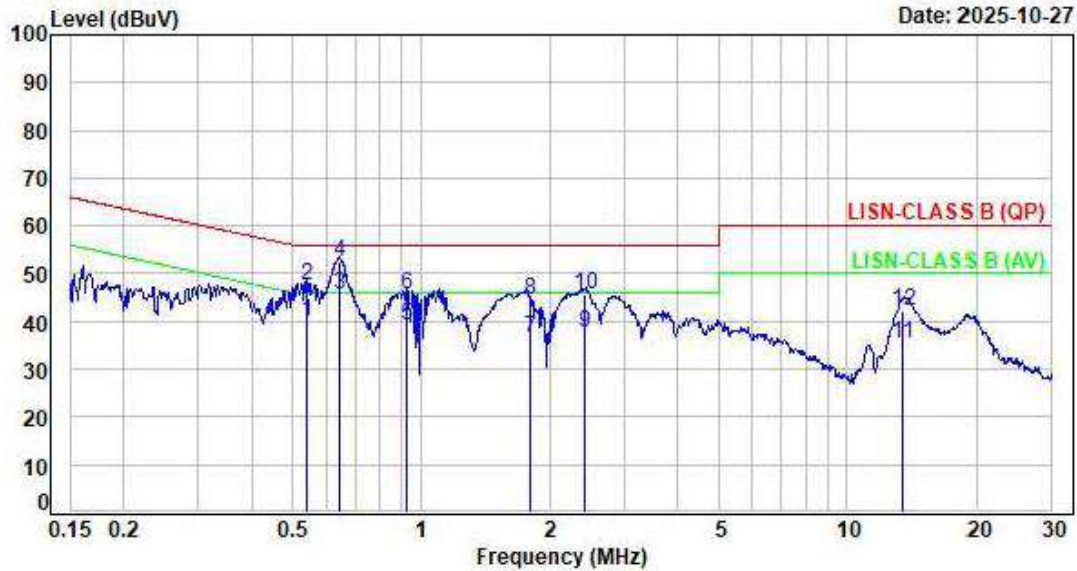
Margin=Level-Limit

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



Test Mode : 2TX 11ax20 CH48 NSS1 MCS0
Voltage : From POE(POE AC 240V/60Hz)
Phase : Neutral

Data: 9



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5384	9.60	30.31	39.91	46.00	-6.09	Average	P
2	0.5384	9.60	37.84	47.44	56.00	-8.56	QP	P
3	0.6446	9.62	36.15	45.77	46.00	-0.23	Average	P
4	0.6446	9.62	42.71	52.33	56.00	-3.67	QP	P
5	0.9290	9.64	29.61	39.25	46.00	-6.75	Average	P
6	0.9290	9.64	36.00	45.64	56.00	-10.36	QP	P
7	1.8109	9.73	26.93	36.66	46.00	-9.34	Average	P
8	1.8109	9.73	34.62	44.35	56.00	-11.65	QP	P
9	2.4226	9.73	27.74	37.47	46.00	-8.53	Average	P
10	2.4226	9.73	36.03	45.76	56.00	-10.24	QP	P
11	13.4775	10.02	25.23	35.25	50.00	-14.75	Average	P
12	13.4775	10.02	32.05	42.07	60.00	-17.93	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

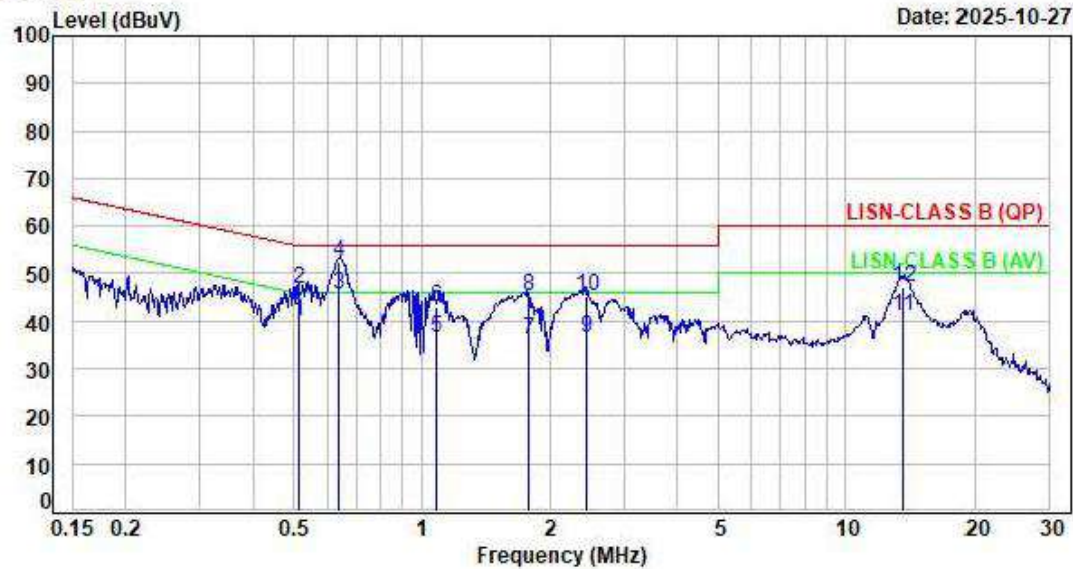
Factor=(LISM or ISN or Current Probe)Factor + Cable Loss



For QCN9072

Test Mode : 2TX 11ax20 CH48 NSS1 MCS0
Voltage : From POE(POE AC 240V/60Hz)
Phase : Line

Data: 13



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5140	9.56	30.51	40.07	46.00	-5.93	Average	P
2	0.5140	9.56	37.12	46.68	56.00	-9.32	QP	P
3	0.6360	9.57	36.04	45.61	46.00	-0.39	Average	P
4	0.6360	9.57	42.94	52.51	56.00	-3.49	QP	P
5	1.0861	9.58	27.00	36.58	46.00	-9.42	Average	P
6	1.0861	9.58	33.40	42.98	56.00	-13.02	QP	P
7	1.7844	9.59	26.60	36.19	46.00	-9.81	Average	P
8	1.7844	9.59	35.53	45.12	56.00	-10.88	QP	P
9	2.4446	9.60	26.90	36.50	46.00	-9.50	Average	P
10	2.4446	9.60	35.56	45.16	56.00	-10.84	QP	P
11	13.6516	9.92	31.09	41.01	50.00	-8.99	Average	P
12	13.6516	9.92	37.06	46.98	60.00	-13.02	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

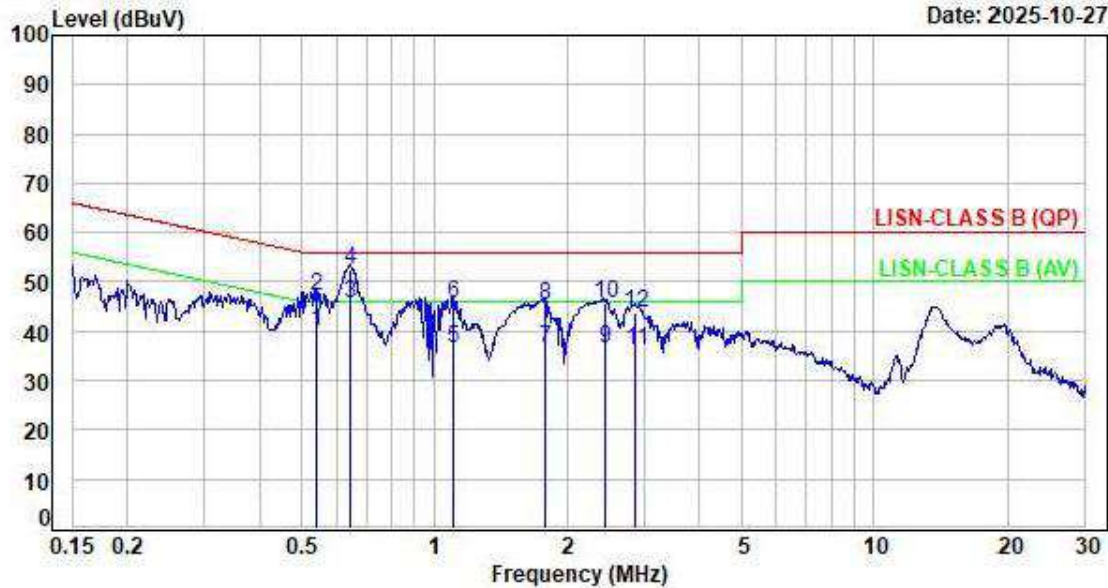
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Test Mode : 2TX 11ax20 CH48 NSS1 MCS0
Voltage : From POE(POE AC 240V/60Hz)
Phase : Neutral

Data: 14

Date: 2025-10-27



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.5379	9.60	30.17	39.77	46.00	-6.23	Average	P
2	0.5379	9.60	37.70	47.30	56.00	-8.70	QP	P
3	0.6438	9.62	36.12	45.74	46.00	-0.26	Average	P
4	0.6438	9.62	42.67	52.29	56.00	-3.71	QP	P
5	1.0994	9.65	27.00	36.65	46.00	-9.35	Average	P
6	1.0994	9.65	36.02	45.67	56.00	-10.33	QP	P
7	1.7850	9.73	26.77	36.50	46.00	-9.50	Average	P
8	1.7850	9.73	35.64	45.37	56.00	-10.63	QP	P
9	2.4441	9.73	26.88	36.61	46.00	-9.39	Average	P
10	2.4441	9.73	35.76	45.49	56.00	-10.51	QP	P
11	2.8687	9.72	26.48	36.20	46.00	-9.80	Average	P
12	2.8687	9.72	33.93	43.65	56.00	-12.35	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.

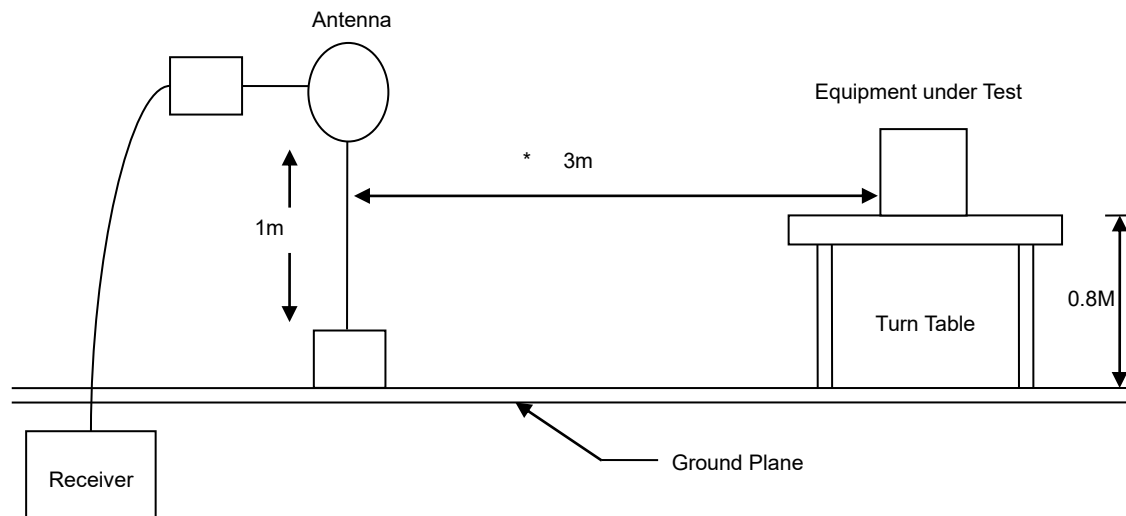
Note:

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.
(Y-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.

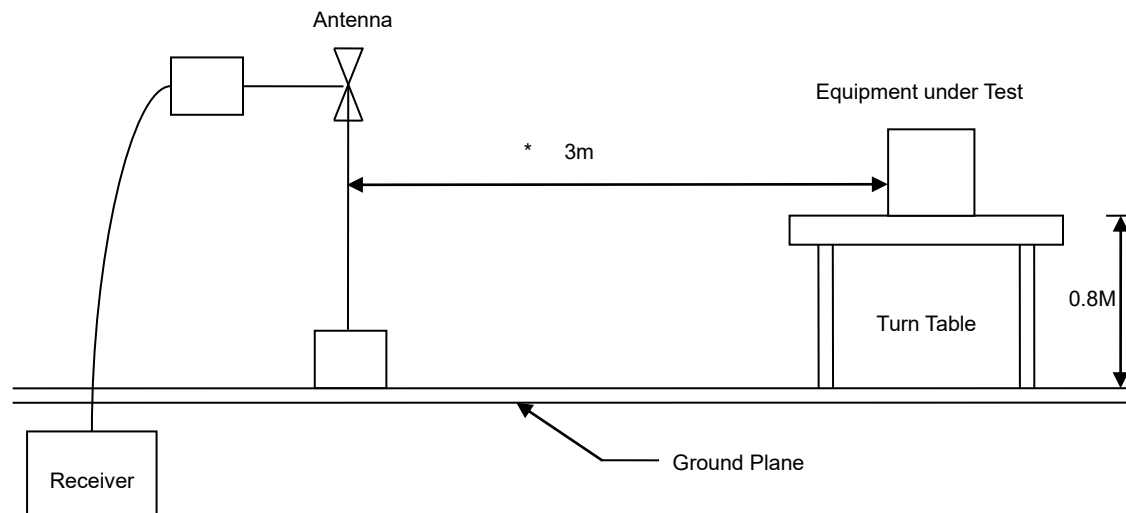


6.3. Typical Test Setup

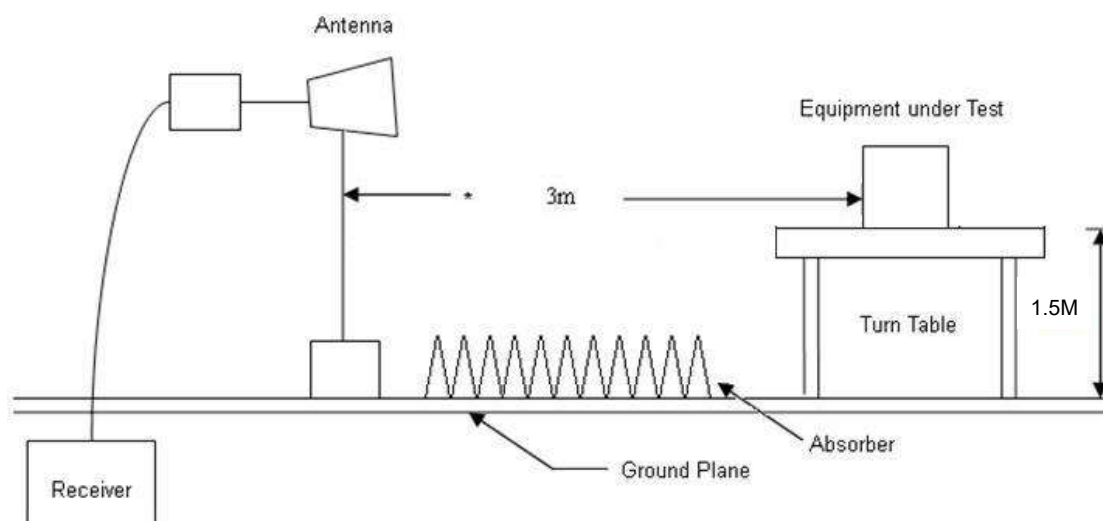
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





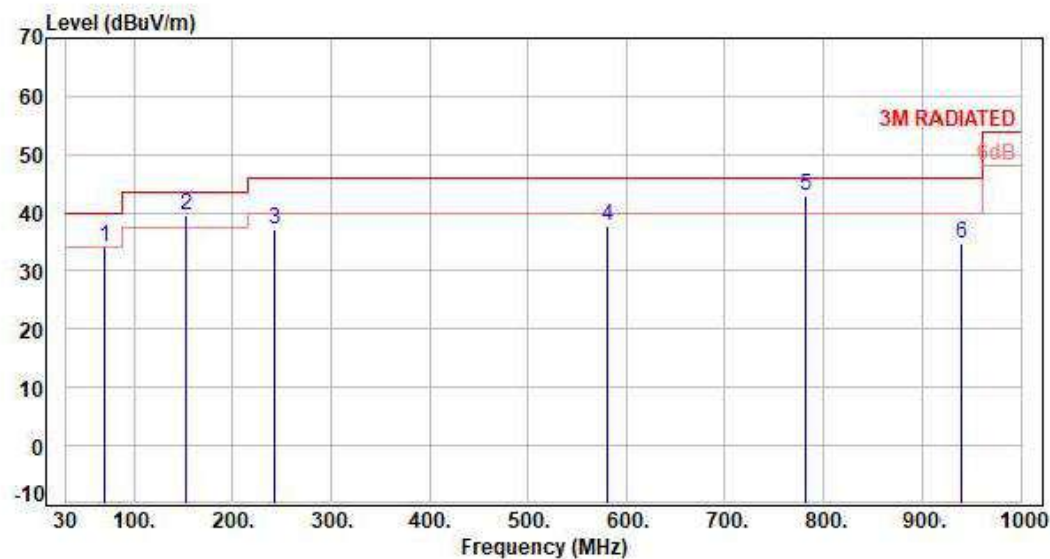
6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

For IPQ6010

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	70.74	-12.26	46.23	33.97	40.00	-6.03	QP	100	113	P
2	152.22	-9.76	49.26	39.50	43.50	-4.00	QP	100	118	P
3	243.40	-10.71	47.84	37.13	46.00	-8.87	Peak	400	0	P
4	580.96	-1.14	38.95	37.81	46.00	-8.19	Peak	400	0	P
5	782.72	2.55	40.31	42.86	46.00	-3.14	QP	100	23	P
6	937.92	5.24	29.62	34.86	46.00	-11.14	QP	100	26	P

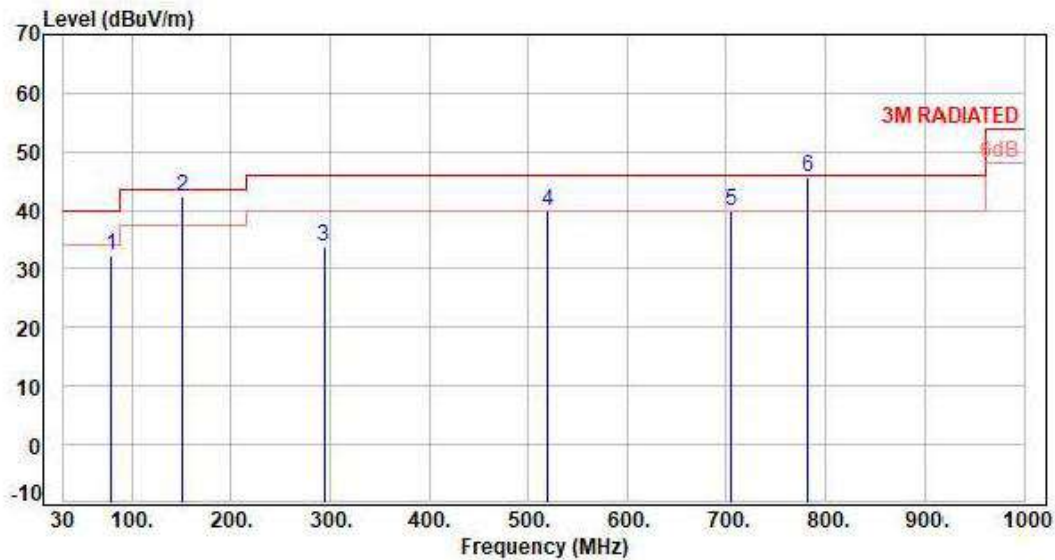
Note: Level=Reading+Factor

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	78.50	-14.20	46.36	32.16	40.00	-7.84	Peak	400	360	P
2	150.28	-9.75	52.10	42.35	43.50	-1.15	QP	228	80	P
3	293.84	-8.52	42.43	33.91	46.00	-12.09	Peak	400	360	P
4	518.88	-2.39	42.37	39.98	46.00	-6.02	Peak	400	360	P
5	705.12	1.38	38.53	39.91	46.00	-6.09	Peak	400	360	P
6	782.72	2.55	43.03	45.58	46.00	-0.42	QP	100	182	P

Note: Level=Reading+Factor

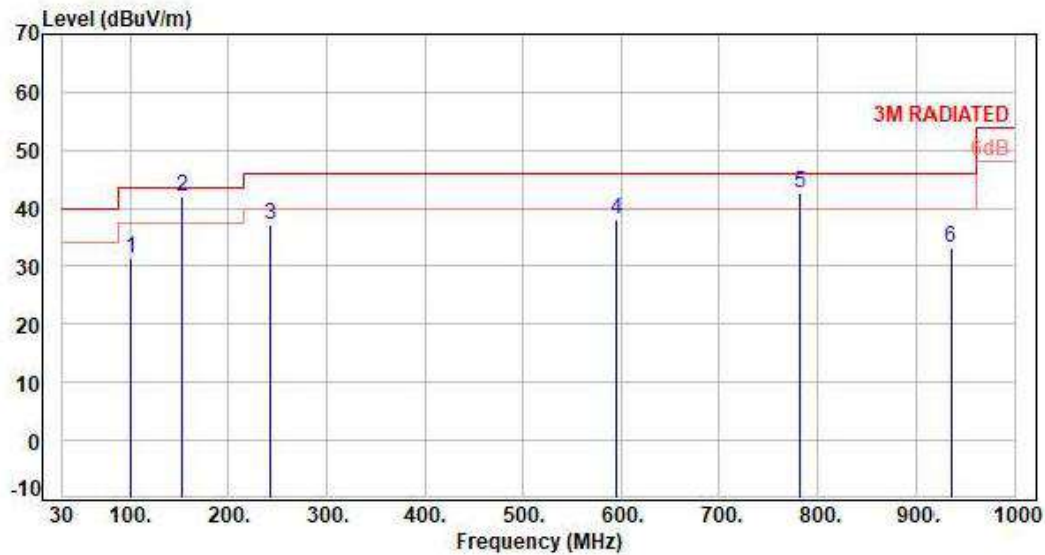
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



For QCN9072

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	100.00	-14.69	46.00	31.31	43.50	-12.19	QP	100	115	P
2	152.22	-9.76	51.80	42.04	43.50	-1.46	QP	100	183	P
3	243.40	-10.71	48.01	37.30	46.00	-8.70	Peak	400	0	P
4	594.54	-0.34	38.49	38.15	46.00	-7.85	Peak	400	0	P
5	782.72	2.55	40.21	42.76	46.00	-3.24	QP	100	24	P
6	934.04	5.28	27.90	33.18	46.00	-12.82	QP	100	23	P

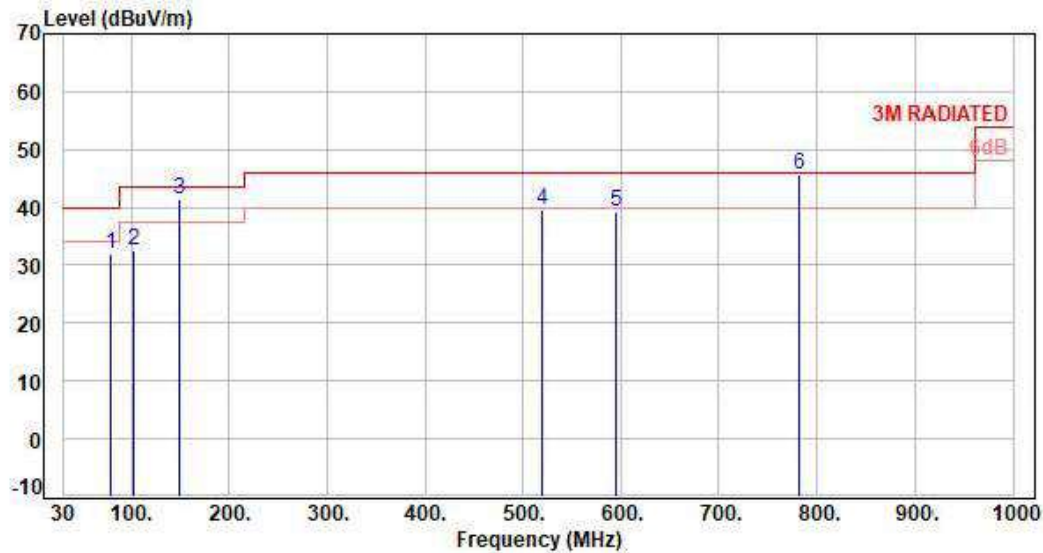
Note: Level=Reading+Factor

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	78.50	-14.20	46.21	32.01	40.00	-7.99	Peak	400	360	P
2	101.78	-14.30	47.02	32.72	43.50	-10.78	Peak	400	360	P
3	149.31	-9.75	51.29	41.54	43.50	-1.96	QP	227	75	P
4	518.88	-2.39	41.92	39.53	46.00	-6.47	Peak	400	360	P
5	594.54	-0.34	39.65	39.31	46.00	-6.69	Peak	400	360	P
6	782.72	2.55	43.06	45.61	46.00	-0.39	QP	100	176	P

Note: Level=Reading+Factor

Margin=Level-Limit

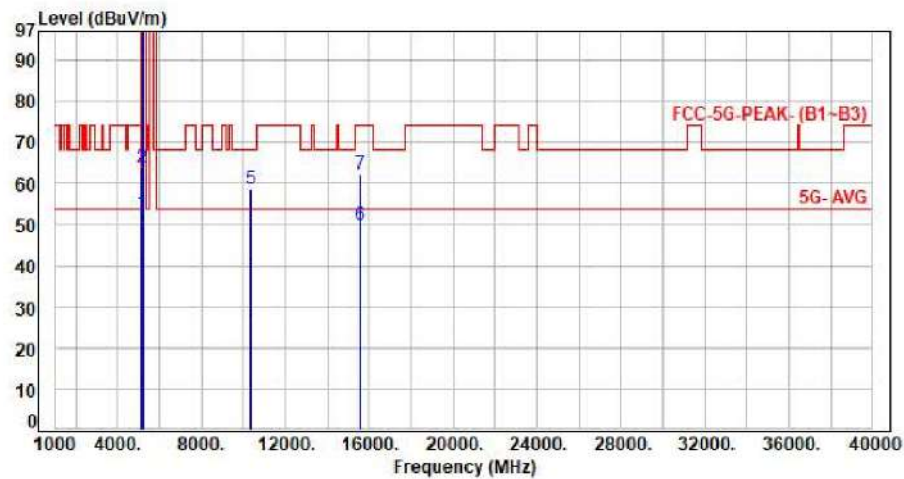
Factor=Antenna Factor + cable loss - Amplifier Factor



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

For IPQ6010

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

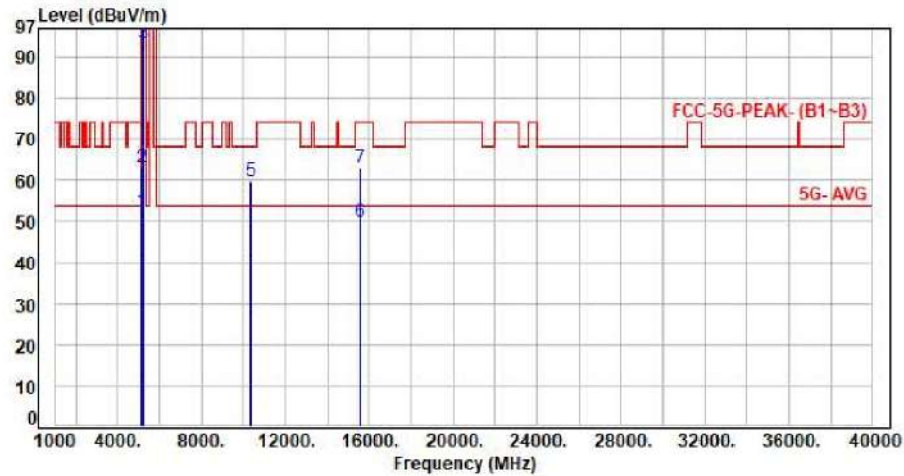


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.62	52.80	54.00	-1.20	Average	206	197	P
2	5150.00	7.18	56.53	63.71	74.00	-10.29	Peak	206	197	P
3	5180.00	7.25	102.49	109.74	200.00	-90.26	Average	206	197	P
4	5180.00	7.25	112.38	119.63	200.00	-80.37	Peak	206	197	P
5	10360.00	15.21	43.27	58.48	68.20	-9.72	Peak	100	114	P
6	15540.00	19.80	29.90	49.70	54.00	-4.30	Average	100	269	P
7	15540.00	19.80	42.47	62.27	74.00	-11.73	Peak	100	269	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

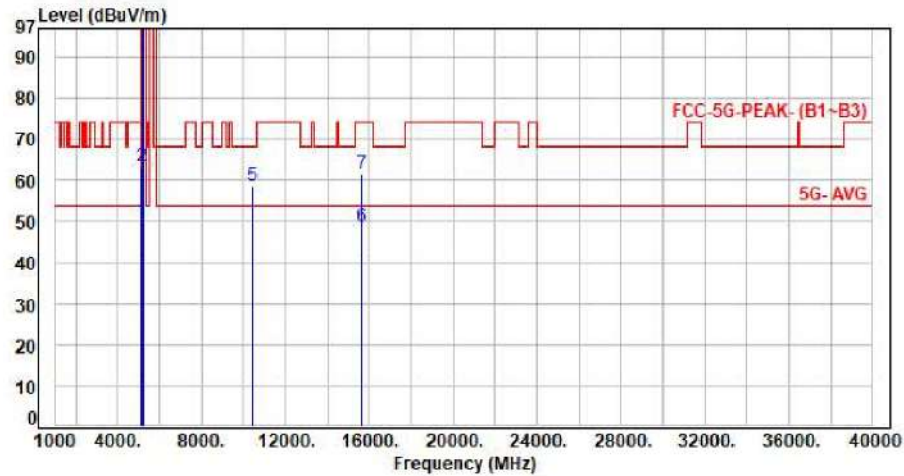


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.12	52.30	54.00	-1.70	Average	100	36	P
2	5150.00	7.18	55.96	63.14	74.00	-10.86	Peak	100	36	P
3	5180.00	7.25	86.23	93.48	200.00	-106.52	Average	100	36	P
4	5180.00	7.25	95.99	103.24	200.00	-96.76	Peak	100	36	P
5	10360.00	15.21	44.38	59.59	68.20	-8.61	Peak	100	152	P
6	15540.00	19.80	30.07	49.87	54.00	-4.13	Average	100	80	P
7	15540.00	19.80	43.44	63.24	74.00	-10.76	Peak	100	80	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

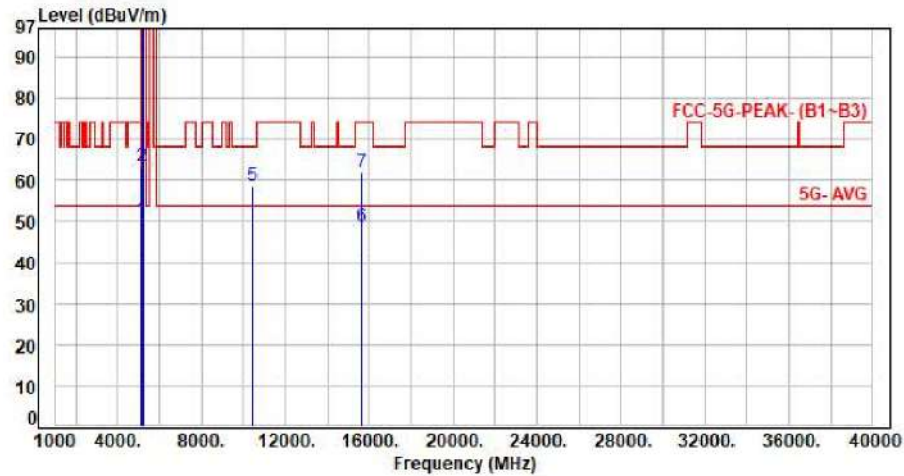


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.09	50.27	54.00	-3.73	Average	100	272	P
2	5150.00	7.18	56.37	63.55	74.00	-10.45	Peak	100	272	P
3	5200.00	7.30	99.72	107.02	200.00	-92.98	Average	100	272	P
4	5200.00	7.30	109.73	117.03	200.00	-82.97	Peak	100	272	P
5	10400.00	15.16	43.48	58.64	68.20	-9.56	Peak	100	152	P
6	15600.00	19.45	29.40	48.85	54.00	-5.15	Average	100	84	P
7	15600.00	19.45	42.09	61.54	74.00	-12.46	Peak	100	84	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

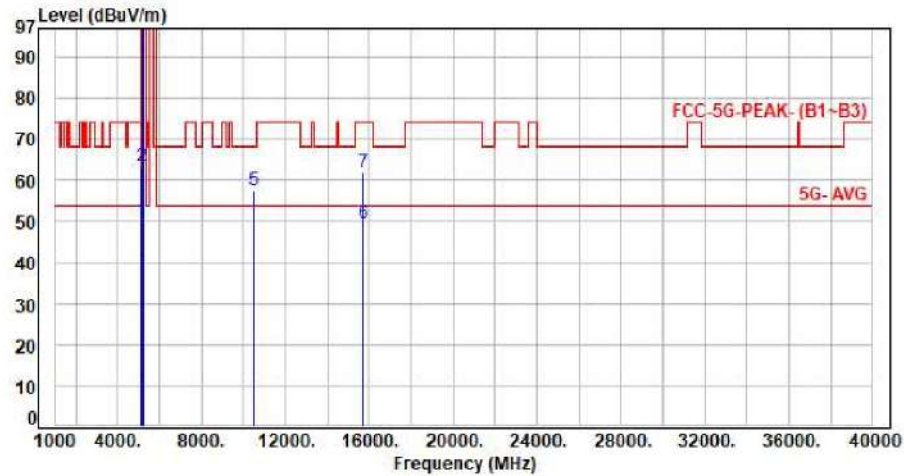


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.19	50.37	54.00	-3.63	Average	100	185	P
2	5150.00	7.18	56.36	63.54	74.00	-10.46	Peak	100	185	P
3	5200.00	7.30	89.38	96.68	200.00	-103.32	Average	100	185	P
4	5200.00	7.30	98.68	105.98	200.00	-94.02	Peak	100	185	P
5	10400.00	15.16	43.35	58.51	68.20	-9.69	Peak	100	112	P
6	15600.00	19.45	29.38	48.83	54.00	-5.17	Average	100	268	P
7	15600.00	19.45	42.48	61.93	74.00	-12.07	Peak	100	268	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

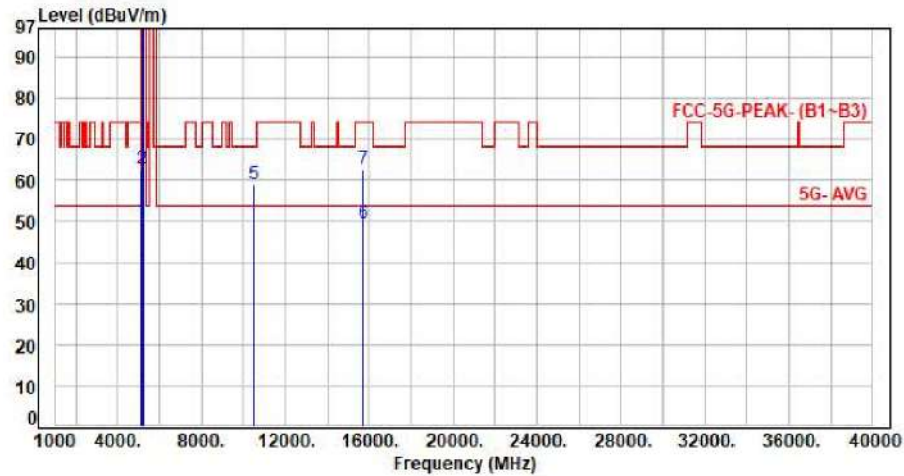


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.06	50.24	54.00	-3.76	Average	100	273	P
2	5150.00	7.18	56.15	63.33	74.00	-10.67	Peak	100	273	P
3	5240.00	7.32	98.60	105.92	200.00	-94.08	Average	100	273	P
4	5240.00	7.32	108.16	115.48	200.00	-84.52	Peak	100	273	P
5	10480.00	15.44	42.27	57.71	68.20	-10.49	Peak	100	156	P
6	15720.00	19.61	29.89	49.50	54.00	-4.50	Average	100	83	P
7	15720.00	19.61	42.39	62.00	74.00	-12.00	Peak	100	83	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

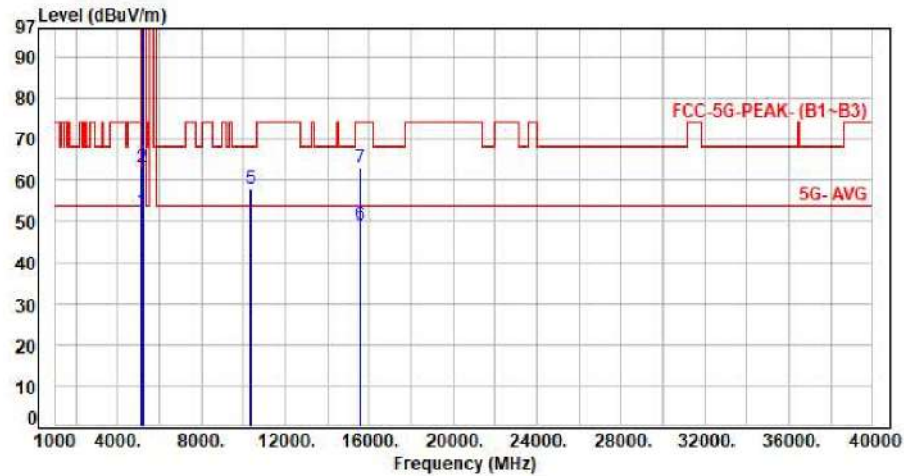


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.97	50.15	54.00	-3.85	Average	102	185	P
2	5150.00	7.18	55.36	62.54	74.00	-11.46	Peak	102	185	P
3	5240.00	7.32	89.16	96.48	200.00	-103.52	Average	102	185	P
4	5240.00	7.32	98.42	105.74	200.00	-94.26	Peak	102	185	P
5	10480.00	15.44	43.41	58.85	68.20	-9.35	Peak	100	115	P
6	15720.00	19.61	29.71	49.32	54.00	-4.68	Average	100	264	P
7	15720.00	19.61	43.05	62.66	74.00	-11.34	Peak	100	264	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

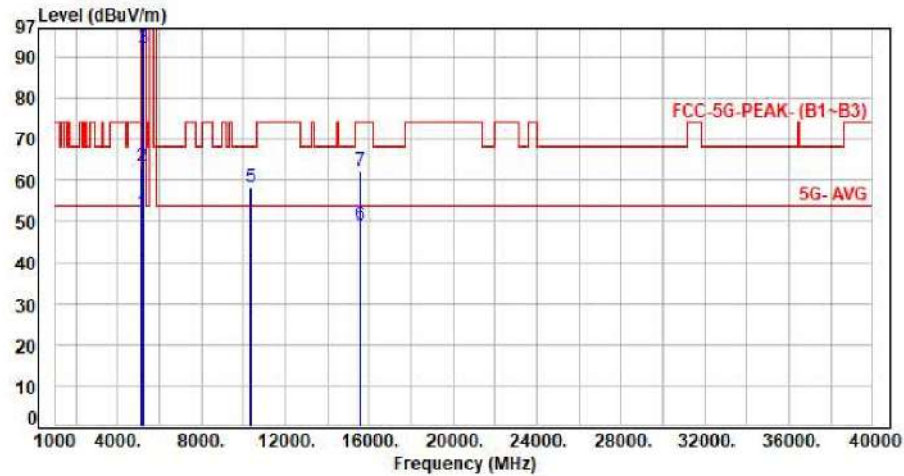


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.26	52.44	54.00	-1.56	Average	225	181	P
2	5150.00	7.18	56.04	63.22	74.00	-10.78	Peak	225	181	P
3	5180.00	7.25	99.95	107.20	200.00	-92.80	Average	225	181	P
4	5180.00	7.25	111.90	119.15	200.00	-80.85	Peak	225	181	P
5	10360.00	15.21	42.53	57.74	68.20	-10.46	Peak	100	112	P
6	15540.00	19.80	29.38	49.18	54.00	-4.82	Average	100	268	P
7	15540.00	19.80	43.42	63.22	74.00	-10.78	Peak	100	268	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

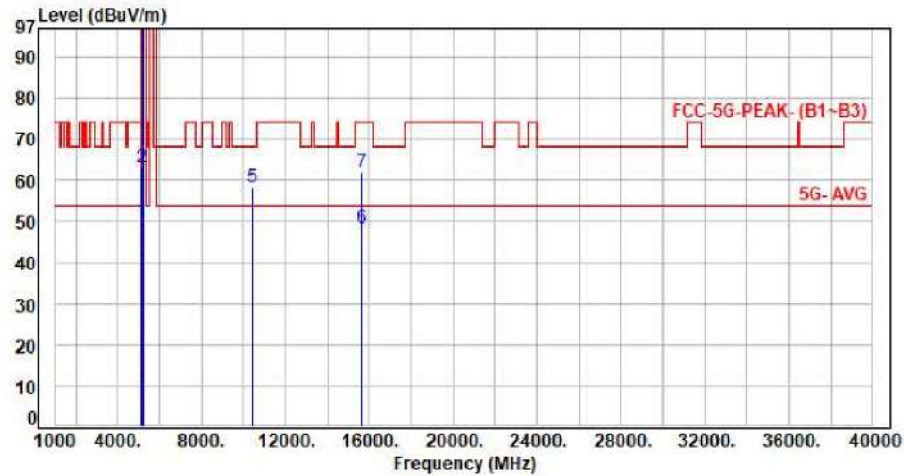


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	44.77	51.95	54.00	-2.05	Average	100	37	P
2	5150.00	7.18	56.16	63.34	74.00	-10.66	Peak	100	37	P
3	5180.00	7.25	84.93	92.18	200.00	-107.82	Average	100	37	P
4	5180.00	7.25	97.26	104.51	200.00	-95.49	Peak	100	37	P
5	10360.00	15.21	43.21	58.42	68.20	-9.78	Peak	100	152	P
6	15540.00	19.80	29.42	49.22	54.00	-4.78	Average	100	82	P
7	15540.00	19.80	42.52	62.32	74.00	-11.68	Peak	100	82	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

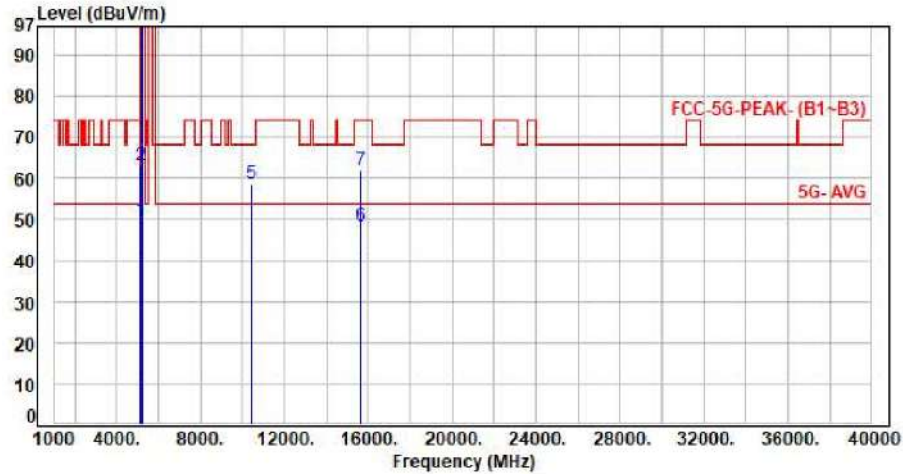


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.92	50.10	54.00	-3.90	Average	100	273	P
2	5150.00	7.18	55.79	62.97	74.00	-11.03	Peak	100	273	P
3	5200.00	7.30	99.26	106.56	200.00	-93.44	Average	100	273	P
4	5200.00	7.30	112.74	120.04	200.00	-79.96	Peak	100	273	P
5	10400.00	15.16	43.03	58.19	68.20	-10.01	Peak	100	153	P
6	15600.00	19.45	28.84	48.29	54.00	-5.71	Average	100	84	P
7	15600.00	19.45	42.46	61.91	74.00	-12.09	Peak	100	84	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

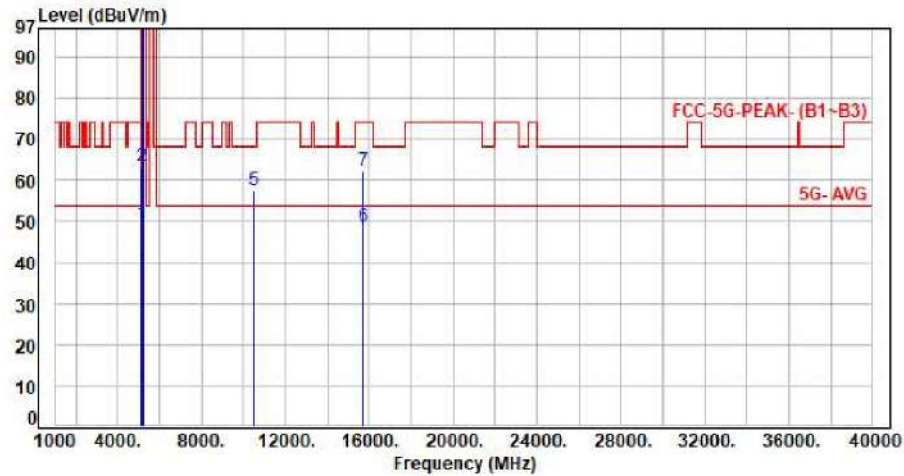


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.61	49.79	54.00	-4.21	Average	100	185	P
2	5150.00	7.18	55.78	62.96	74.00	-11.04	Peak	100	185	P
3	5200.00	7.30	89.76	97.06	200.00	-102.94	Average	100	185	P
4	5200.00	7.30	101.66	108.96	200.00	-91.04	Peak	100	185	P
5	10400.00	15.16	43.34	58.50	68.20	-9.70	Peak	100	118	P
6	15600.00	19.45	28.78	48.23	54.00	-5.77	Average	100	269	P
7	15600.00	19.45	42.53	61.98	74.00	-12.02	Peak	100	269	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

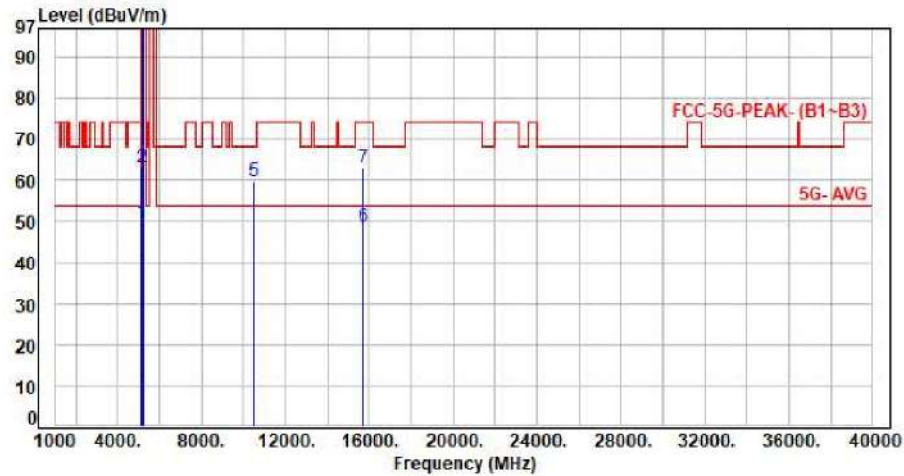


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.38	49.56	54.00	-4.44	Average	100	274	P
2	5150.00	7.18	56.14	63.32	74.00	-10.68	Peak	100	274	P
3	5240.00	7.32	98.24	105.56	200.00	-94.44	Average	100	274	P
4	5240.00	7.32	112.55	119.87	200.00	-80.13	Peak	100	274	P
5	10480.00	15.44	42.16	57.60	68.20	-10.60	Peak	100	154	P
6	15720.00	19.61	29.25	48.86	54.00	-5.14	Average	100	81	P
7	15720.00	19.61	42.80	62.41	74.00	-11.59	Peak	100	81	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

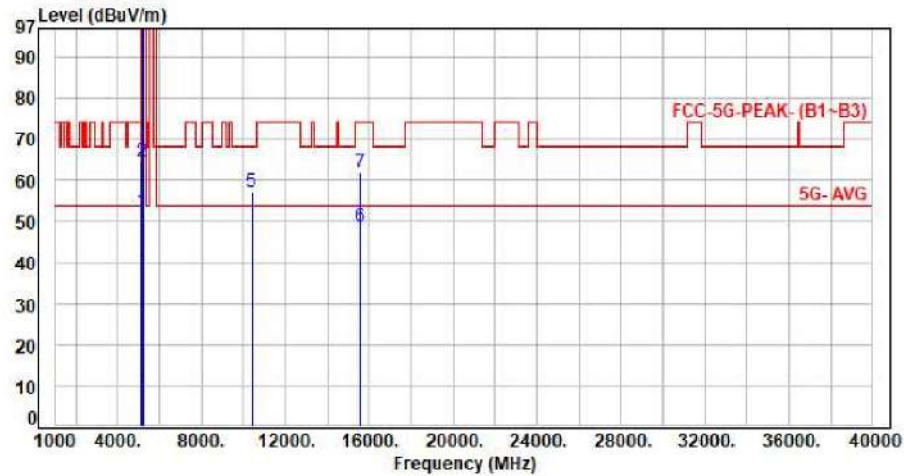


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.46	49.64	54.00	-4.36	Average	100	192	P
2	5150.00	7.18	55.81	62.99	74.00	-11.01	Peak	100	192	P
3	5240.00	7.32	88.34	95.66	200.00	-104.34	Average	100	192	P
4	5240.00	7.32	101.34	108.66	200.00	-91.34	Peak	100	192	P
5	10480.00	15.44	44.21	59.65	68.20	-8.55	Peak	100	115	P
6	15720.00	19.61	29.14	48.75	54.00	-5.25	Average	100	266	P
7	15720.00	19.61	43.41	63.02	74.00	-10.98	Peak	100	266	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

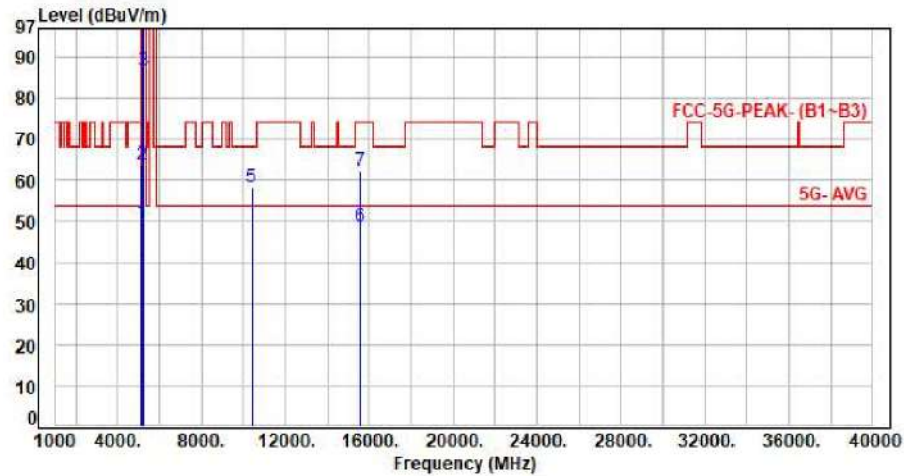


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.06	52.24	54.00	-1.76	Average	100	270	P
2	5150.00	7.18	57.22	64.40	74.00	-9.60	Peak	100	270	P
3	5190.00	7.28	91.03	98.31	200.00	-101.69	Average	100	270	P
4	5190.00	7.28	102.39	109.67	200.00	-90.33	Peak	100	270	P
5	10380.00	15.19	42.14	57.33	68.20	-10.87	Peak	100	153	P
6	15570.00	19.60	29.06	48.66	54.00	-5.34	Average	100	82	P
7	15570.00	19.60	42.44	62.04	74.00	-11.96	Peak	100	82	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 : Horizontal

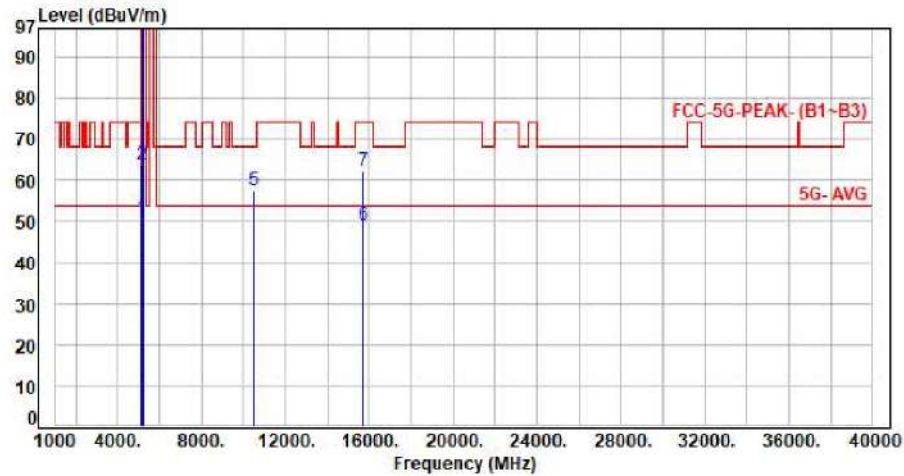


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.53	49.71	54.00	-4.29	Average	100	192	P
2	5150.00	7.18	56.69	63.87	74.00	-10.13	Peak	100	192	P
3	5190.00	7.28	79.28	86.56	200.00	-113.44	Average	100	192	P
4	5190.00	7.28	91.10	98.38	200.00	-101.62	Peak	100	192	P
5	10380.00	15.19	43.18	58.37	68.20	-9.83	Peak	100	115	P
6	15570.00	19.60	28.90	48.50	54.00	-5.50	Average	100	268	P
7	15570.00	19.60	42.64	62.24	74.00	-11.76	Peak	100	268	P

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



Test Mode : 2TX 11ax40 CH46 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical

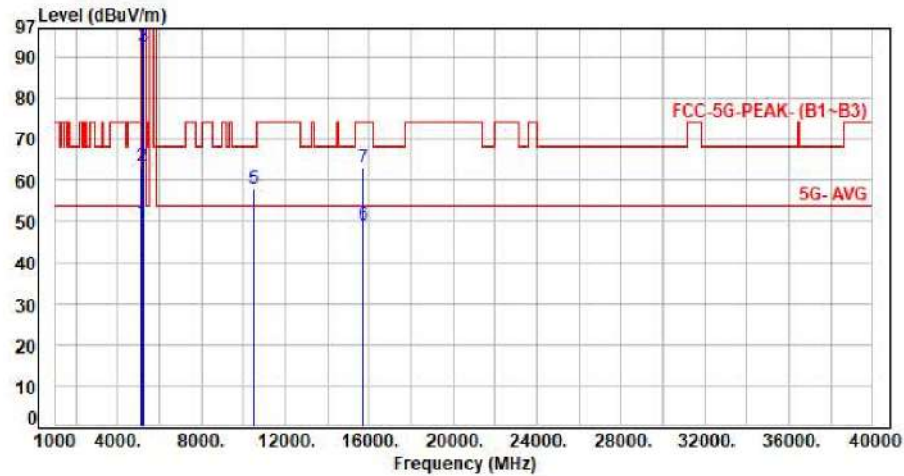


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.79	50.97	54.00	-3.03	Average	100	274	P
2	5150.00	7.18	56.47	63.65	74.00	-10.35	Peak	100	274	P
3	5230.00	7.31	95.38	102.69	200.00	-97.31	Average	100	274	P
4	5230.00	7.31	108.26	115.57	200.00	-84.43	Peak	100	274	P
5	10460.00	15.32	42.07	57.39	68.20	-10.81	Peak	100	153	P
6	15690.00	19.60	29.48	49.08	54.00	-4.92	Average	100	84	P
7	15690.00	19.60	42.89	62.49	74.00	-11.51	Peak	100	84	P

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



Test Mode : 2TX 11ax40 CH46 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal

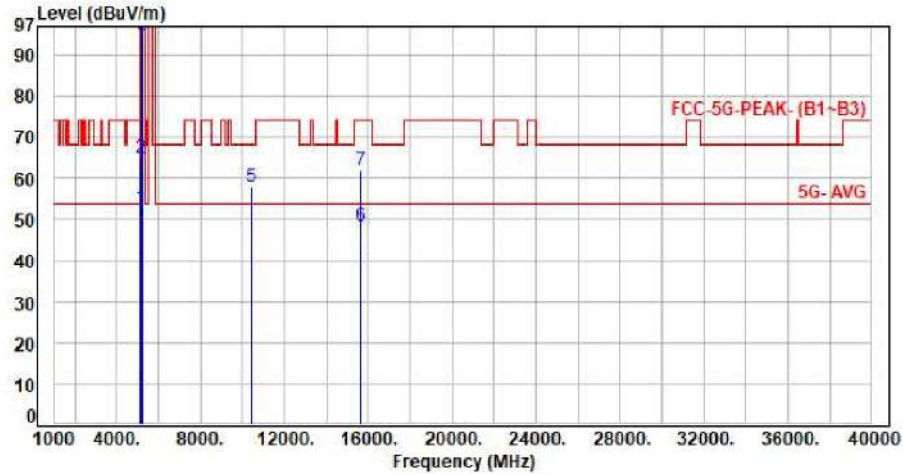


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.51	49.69	54.00	-4.31	Average	100	192	P
2	5150.00	7.18	56.09	63.27	74.00	-10.73	Peak	100	192	P
3	5230.00	7.31	85.22	92.53	200.00	-107.47	Average	100	192	P
4	5230.00	7.31	97.60	104.91	200.00	-95.09	Peak	100	192	P
5	10460.00	15.32	42.42	57.74	68.20	-10.46	Peak	100	115	P
6	15690.00	19.60	29.47	49.07	54.00	-4.93	Average	100	269	P
7	15690.00	19.60	43.30	62.90	74.00	-11.10	Peak	100	269	P

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



Test Mode : 2TX 11ax80 CH42 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical

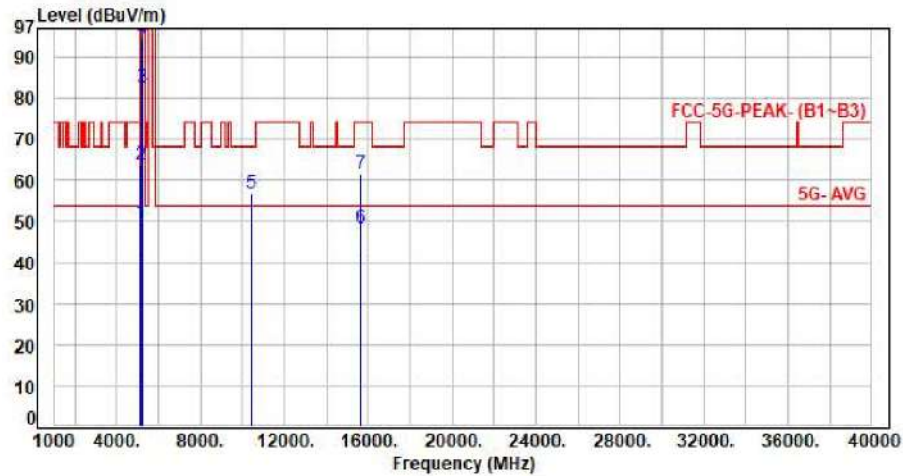


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.71	52.89	54.00	-1.11	Average	100	274	P
2	5150.00	7.18	57.89	65.07	74.00	-8.93	Peak	100	274	P
3	5210.00	7.31	87.34	94.65	200.00	-105.35	Average	100	274	P
4	5210.00	7.31	99.80	107.11	200.00	-92.89	Peak	100	274	P
5	10420.00	15.19	42.87	58.06	68.20	-10.14	Peak	100	152	P
6	15630.00	19.44	28.72	48.16	54.00	-5.84	Average	100	81	P
7	15630.00	19.44	42.60	62.04	74.00	-11.96	Peak	100	81	P

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



Test Mode : 2TX 11ax80 CH42 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



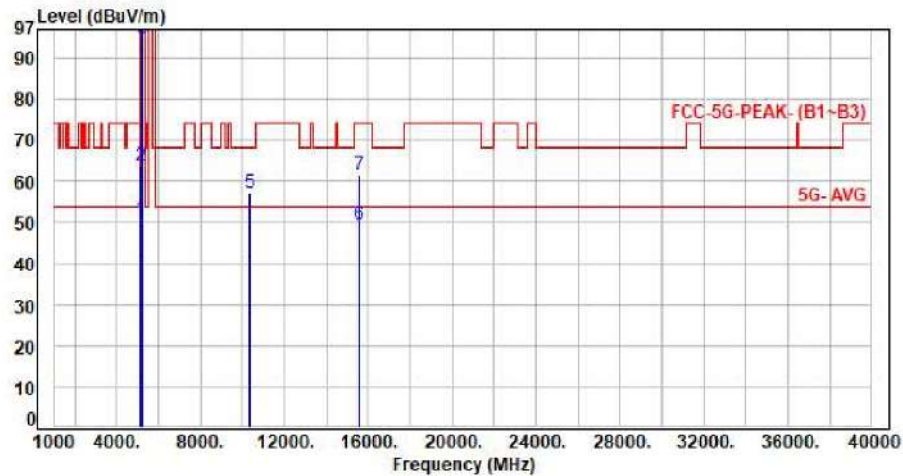
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.46	49.64	54.00	-4.36	Average	100	192	P
2	5150.00	7.18	56.63	63.81	74.00	-10.19	Peak	100	192	P
3	5210.00	7.31	75.22	82.53	200.00	-117.47	Average	100	192	P
4	5210.00	7.31	87.13	94.44	200.00	-105.56	Peak	100	192	P
5	10420.00	15.19	41.78	56.97	68.20	-11.23	Peak	100	114	P
6	15630.00	19.44	28.78	48.22	54.00	-5.78	Average	100	266	P
7	15630.00	19.44	42.28	61.72	74.00	-12.28	Peak	100	266	P

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



For QCN9072

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

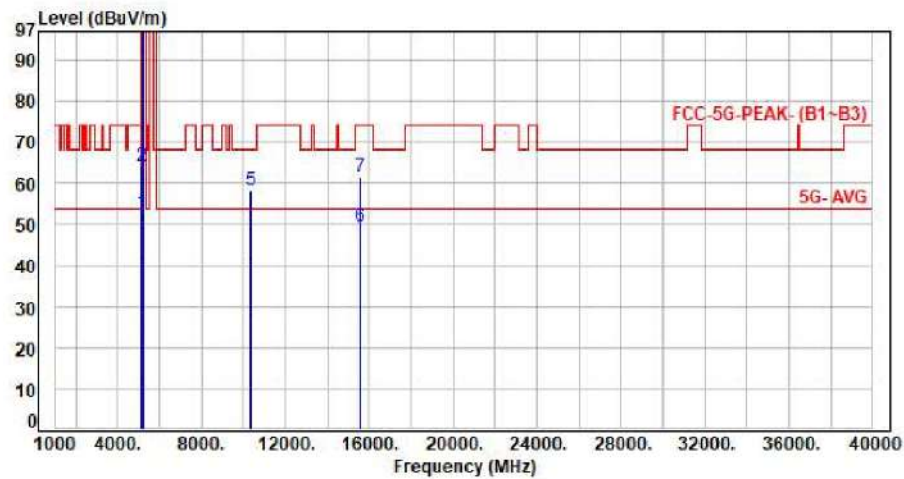


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.76	50.94	54.00	-3.06	Average	100	186	P
2	5150.00	7.18	56.54	63.72	74.00	-10.28	Peak	100	186	P
3	5180.00	7.25	87.67	94.92	200.00	-105.08	Average	100	186	P
4	5180.00	7.25	97.99	105.24	200.00	-94.76	Peak	100	186	P
5	10360.00	15.21	41.96	57.17	68.20	-11.03	Peak	100	225	P
6	15540.00	19.80	29.64	49.44	54.00	-4.56	Average	100	169	P
7	15540.00	19.80	41.95	61.75	74.00	-12.25	Peak	100	169	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

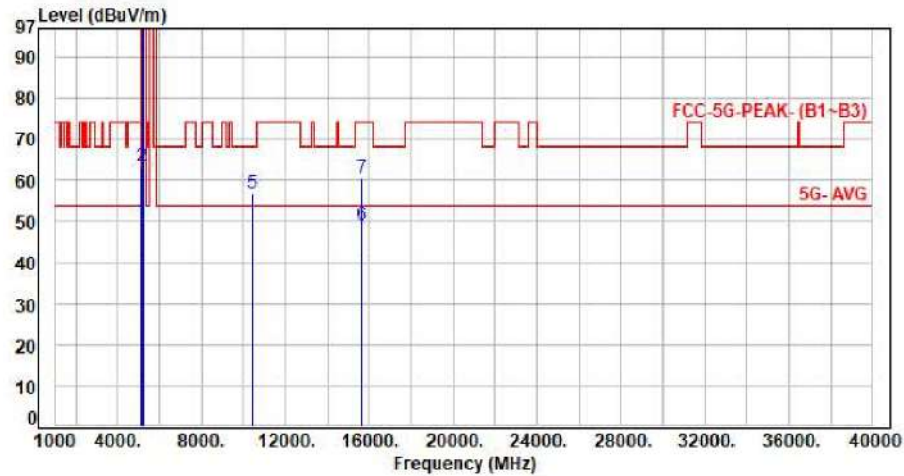


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.45	52.63	54.00	-1.37	Average	390	264	P
2	5150.00	7.18	56.98	64.16	74.00	-9.84	Peak	390	264	P
3	5180.00	7.25	99.42	106.67	200.00	-93.33	Average	390	264	P
4	5180.00	7.25	108.71	115.96	200.00	-84.04	Peak	390	264	P
5	10360.00	15.21	42.96	58.17	68.20	-10.03	Peak	100	221	P
6	15540.00	19.80	29.46	49.26	54.00	-4.74	Average	100	195	P
7	15540.00	19.80	41.96	61.76	74.00	-12.24	Peak	100	195	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

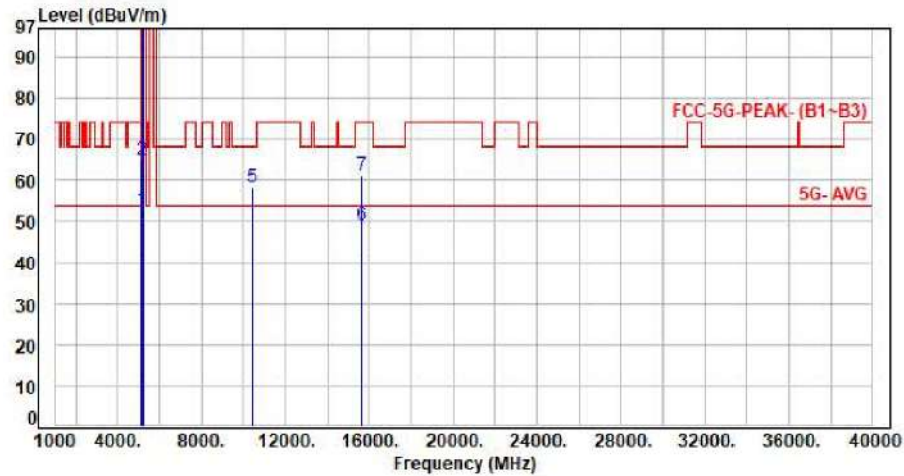


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.06	50.24	54.00	-3.76	Average	393	162	P
2	5150.00	7.18	56.24	63.42	74.00	-10.58	Peak	393	162	P
3	5200.00	7.30	92.53	99.83	200.00	-100.17	Average	393	162	P
4	5200.00	7.30	102.87	110.17	200.00	-89.83	Peak	393	162	P
5	10400.00	15.16	41.68	56.84	68.20	-11.36	Peak	100	227	P
6	15600.00	19.45	29.47	48.92	54.00	-5.08	Average	100	113	P
7	15600.00	19.45	40.96	60.41	74.00	-13.59	Peak	100	113	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

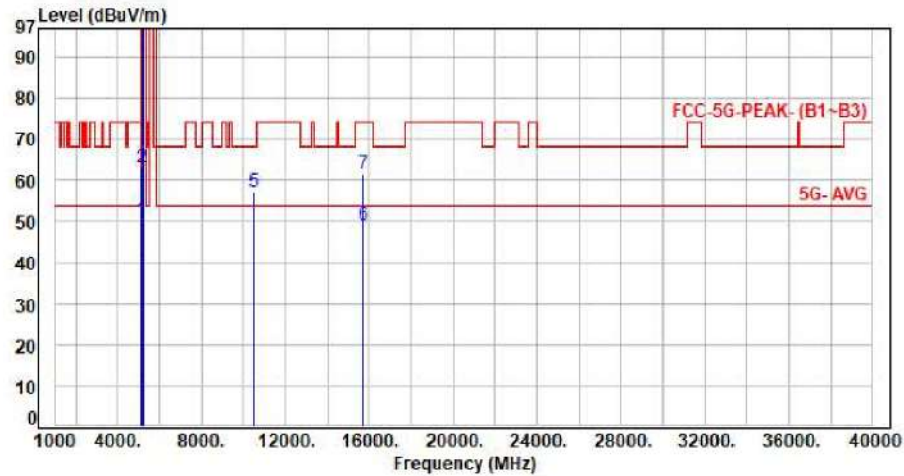


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.60	52.78	54.00	-1.22	Average	100	269	P
2	5150.00	7.18	57.91	65.09	74.00	-8.91	Peak	100	269	P
3	5200.00	7.30	102.18	109.48	200.00	-90.52	Average	100	269	P
4	5200.00	7.30	111.97	119.27	200.00	-80.73	Peak	100	269	P
5	10400.00	15.16	42.96	58.12	68.20	-10.08	Peak	100	241	P
6	15600.00	19.45	29.47	48.92	54.00	-5.08	Average	100	188	P
7	15600.00	19.45	41.85	61.30	74.00	-12.70	Peak	100	188	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

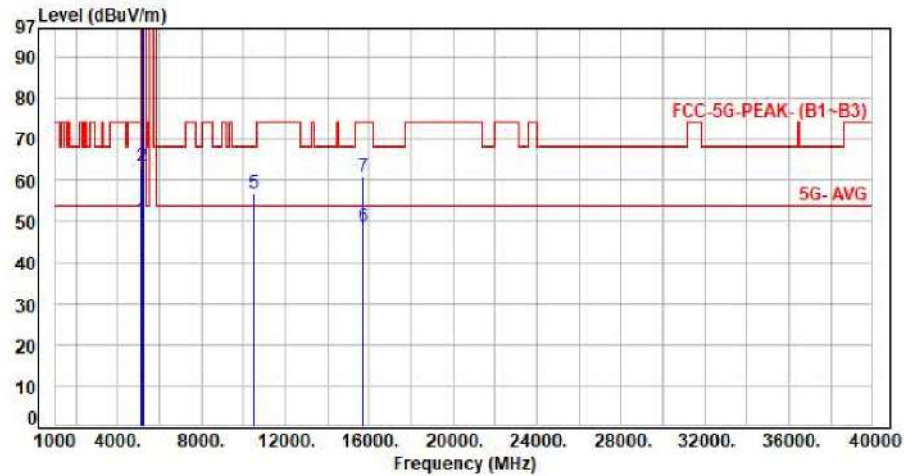


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.29	50.47	54.00	-3.53	Average	100	185	P
2	5150.00	7.18	55.98	63.16	74.00	-10.84	Peak	100	185	P
3	5240.00	7.32	91.79	99.11	200.00	-100.89	Average	100	185	P
4	5240.00	7.32	101.11	108.43	200.00	-91.57	Peak	100	185	P
5	10480.00	15.44	41.55	56.99	68.20	-11.21	Peak	100	221	P
6	15720.00	19.61	29.47	49.08	54.00	-4.92	Average	100	259	P
7	15720.00	19.61	41.95	61.56	74.00	-12.44	Peak	100	259	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

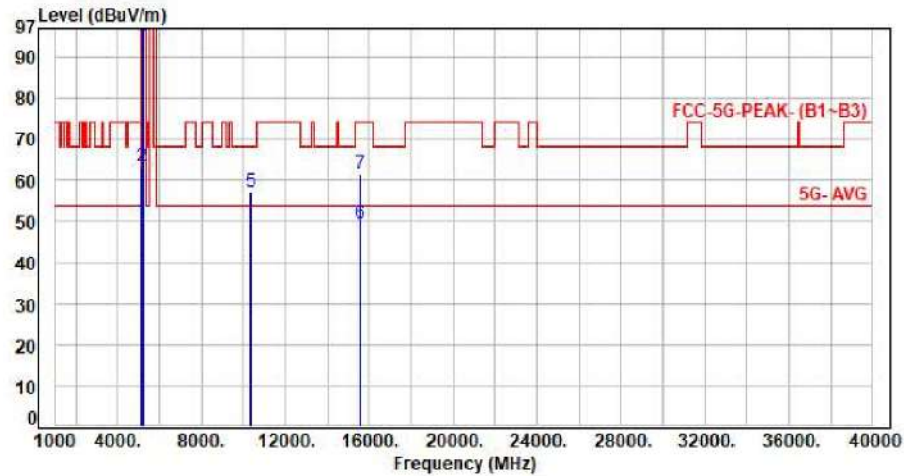


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.31	50.49	54.00	-3.51	Average	346	96	P
2	5150.00	7.18	56.43	63.61	74.00	-10.39	Peak	346	96	P
3	5240.00	7.32	104.03	111.35	200.00	-88.65	Average	346	96	P
4	5240.00	7.32	113.12	120.44	200.00	-79.56	Peak	346	96	P
5	10480.00	15.44	41.32	56.76	68.20	-11.44	Peak	100	224	P
6	15720.00	19.61	29.13	48.74	54.00	-5.26	Average	100	118	P
7	15720.00	19.61	41.26	60.87	74.00	-13.13	Peak	100	118	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

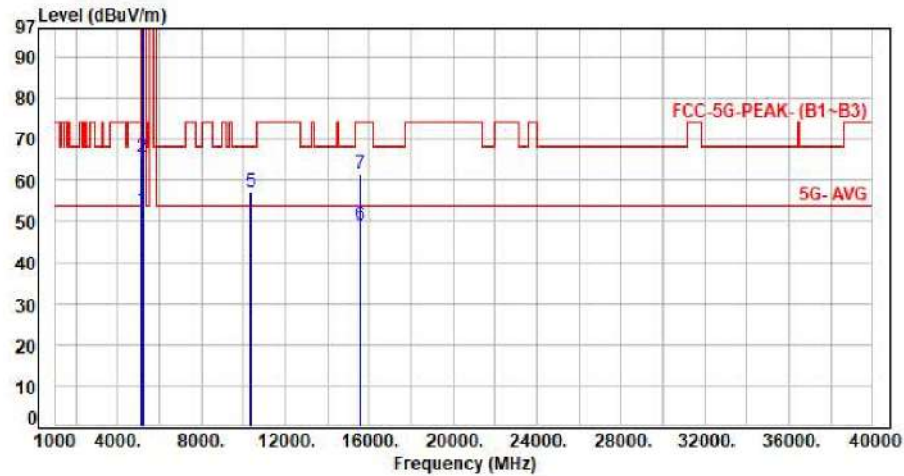


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.11	50.29	54.00	-3.71	Average	320	187	P
2	5150.00	7.18	56.28	63.46	74.00	-10.54	Peak	320	187	P
3	5180.00	7.25	87.80	95.05	200.00	-104.95	Average	320	187	P
4	5180.00	7.25	99.52	106.77	200.00	-93.23	Peak	320	187	P
5	10360.00	15.21	42.00	57.21	68.20	-10.99	Peak	100	145	P
6	15540.00	19.80	29.66	49.46	54.00	-4.54	Average	100	131	P
7	15540.00	19.80	41.87	61.67	74.00	-12.33	Peak	100	131	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

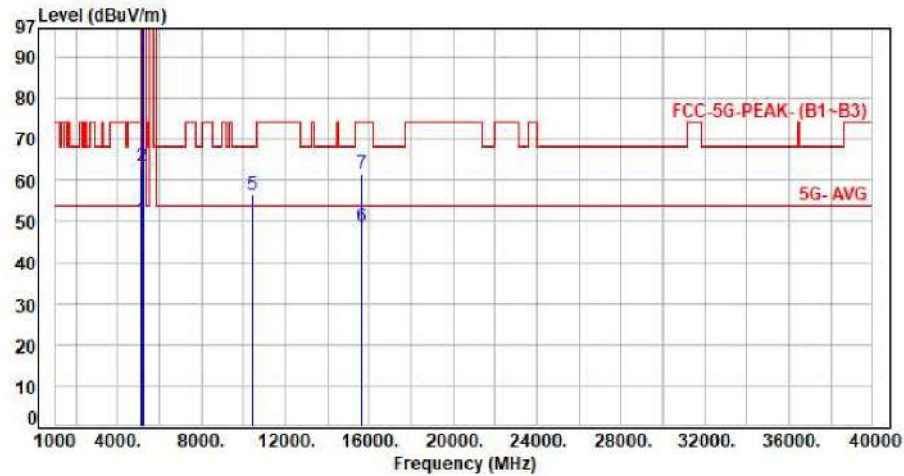


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.73	52.91	54.00	-1.09	Average	100	268	P
2	5150.00	7.18	58.35	65.53	74.00	-8.47	Peak	100	268	P
3	5180.00	7.25	98.94	106.19	200.00	-93.81	Average	100	268	P
4	5180.00	7.25	110.14	117.39	200.00	-82.61	Peak	100	268	P
5	10360.00	15.21	42.14	57.35	68.20	-10.85	Peak	100	255	P
6	15540.00	19.80	29.41	49.21	54.00	-4.79	Average	100	131	P
7	15540.00	19.80	41.75	61.55	74.00	-12.45	Peak	100	131	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

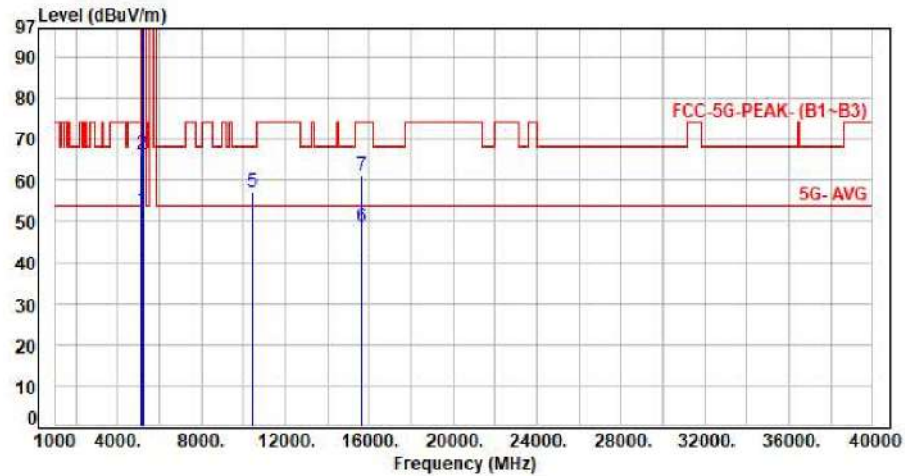


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.17	50.35	54.00	-3.65	Average	394	184	P
2	5150.00	7.18	56.17	63.35	74.00	-10.65	Peak	394	184	P
3	5200.00	7.30	90.15	97.45	200.00	-102.55	Average	394	184	P
4	5200.00	7.30	102.21	109.51	200.00	-90.49	Peak	394	184	P
5	10400.00	15.16	41.27	56.43	68.20	-11.77	Peak	100	188	P
6	15600.00	19.45	29.41	48.86	54.00	-5.14	Average	100	188	P
7	15600.00	19.45	42.31	61.76	74.00	-12.24	Peak	100	188	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

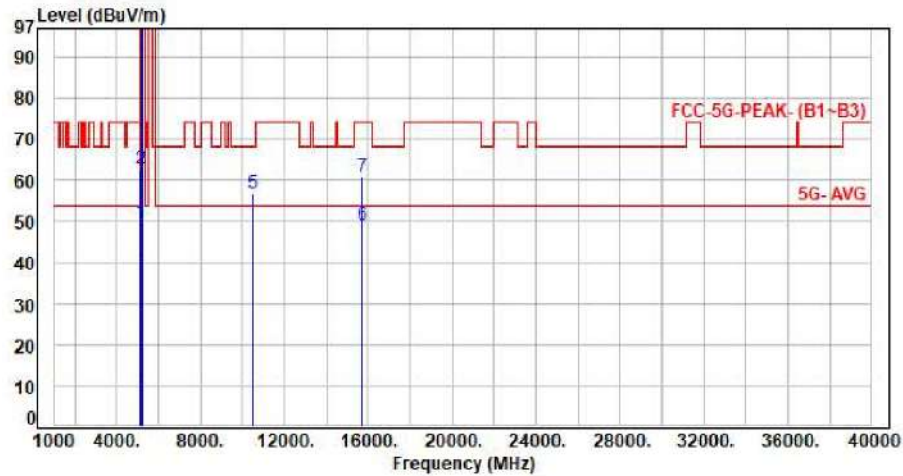


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.54	52.72	54.00	-1.28	Average	100	268	P
2	5150.00	7.18	59.27	66.45	74.00	-7.55	Peak	100	268	P
3	5200.00	7.30	101.91	109.21	200.00	-90.79	Average	100	268	P
4	5200.00	7.30	113.70	121.00	200.00	-79.00	Peak	100	268	P
5	10400.00	15.16	42.19	57.35	68.20	-10.85	Peak	100	212	P
6	15600.00	19.45	29.41	48.86	54.00	-5.14	Average	100	115	P
7	15600.00	19.45	41.96	61.41	74.00	-12.59	Peak	100	115	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

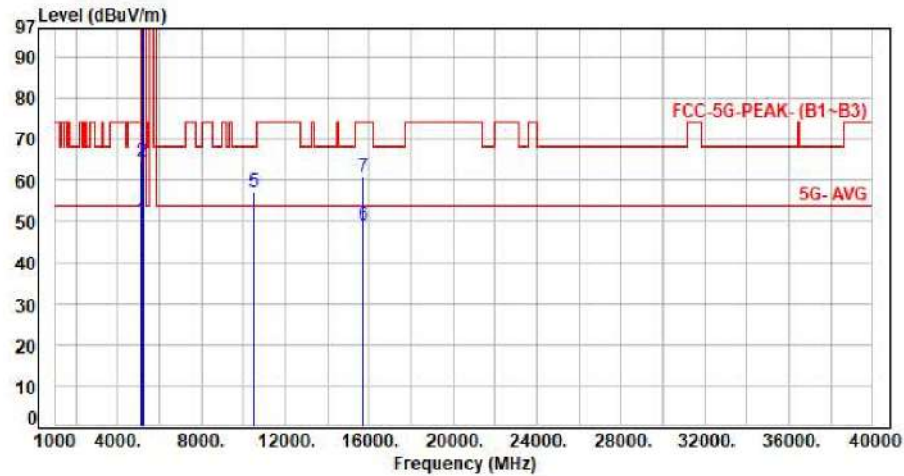


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.79	49.97	54.00	-4.03	Average	100	185	P
2	5150.00	7.18	55.65	62.83	74.00	-11.17	Peak	100	185	P
3	5240.00	7.32	91.98	99.30	200.00	-100.70	Average	100	185	P
4	5240.00	7.32	103.01	110.33	200.00	-89.67	Peak	100	185	P
5	10480.00	15.44	41.23	56.67	68.20	-11.53	Peak	100	199	P
6	15720.00	19.61	29.43	49.04	54.00	-4.96	Average	100	131	P
7	15720.00	19.61	41.28	60.89	74.00	-13.11	Peak	100	131	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

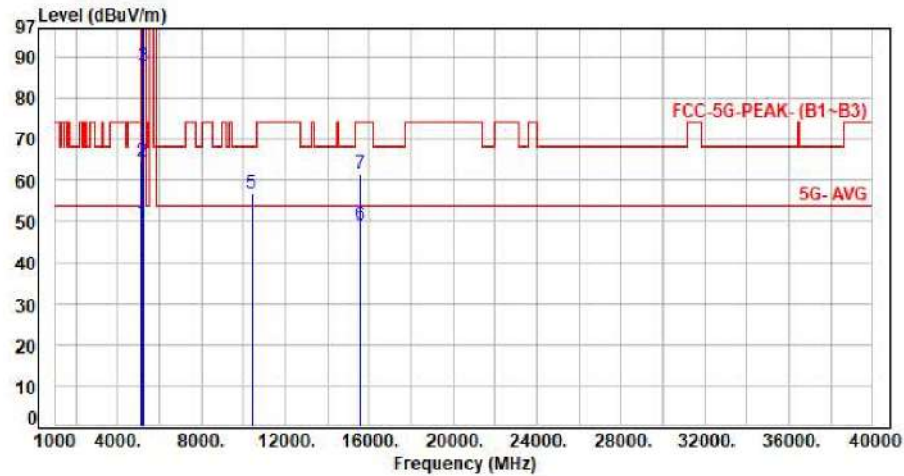


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	43.38	50.56	54.00	-3.44	Average	100	273	P
2	5150.00	7.18	57.27	64.45	74.00	-9.55	Peak	100	273	P
3	5240.00	7.32	102.72	110.04	200.00	-89.96	Average	100	273	P
4	5240.00	7.32	115.28	122.60	200.00	-77.40	Peak	100	273	P
5	10480.00	15.44	41.62	57.06	68.20	-11.14	Peak	100	213	P
6	15720.00	19.61	29.42	49.03	54.00	-4.97	Average	100	131	P
7	15720.00	19.61	41.32	60.93	74.00	-13.07	Peak	100	131	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

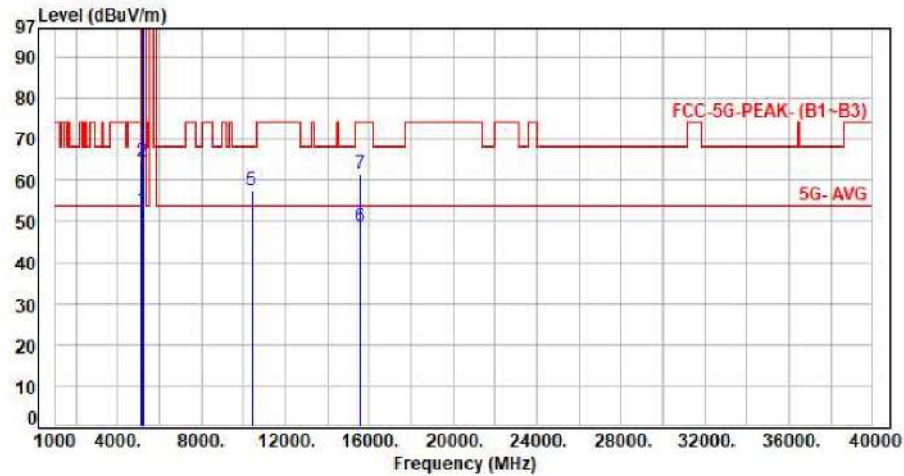


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.76	49.94	54.00	-4.06	Average	100	186	P
2	5150.00	7.18	57.46	64.64	74.00	-9.36	Peak	100	186	P
3	5190.00	7.28	80.53	87.81	200.00	-112.19	Average	100	186	P
4	5190.00	7.28	92.47	99.75	200.00	-100.25	Peak	100	186	P
5	10380.00	15.19	41.62	56.81	68.20	-11.39	Peak	100	261	P
6	15570.00	19.60	29.48	49.08	54.00	-4.92	Average	100	131	P
7	15570.00	19.60	41.99	61.59	74.00	-12.41	Peak	100	131	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 : Horizontal

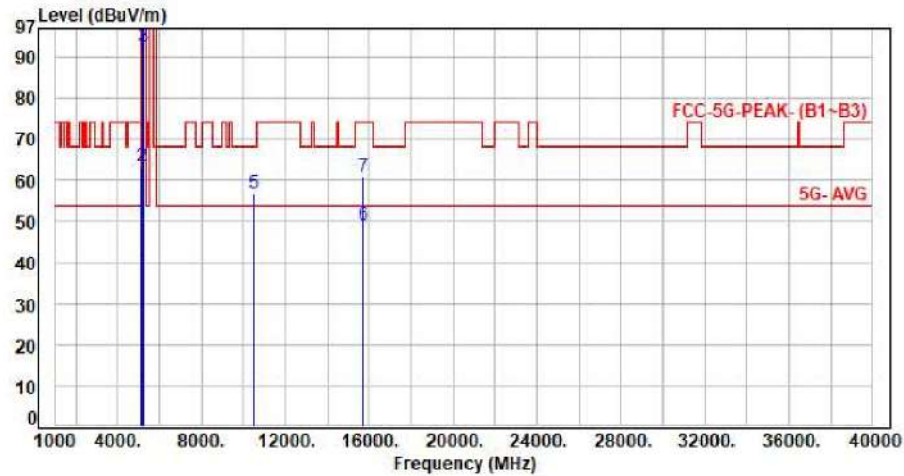


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.51	52.69	54.00	-1.31	Average	100	270	P
2	5150.00	7.18	57.18	64.36	74.00	-9.64	Peak	100	270	P
3	5190.00	7.28	91.44	98.72	200.00	-101.28	Average	100	270	P
4	5190.00	7.28	105.46	112.74	200.00	-87.26	Peak	100	270	P
5	10380.00	15.19	42.18	57.37	68.20	-10.83	Peak	100	116	P
6	15570.00	19.60	29.17	48.77	54.00	-5.23	Average	100	213	P
7	15570.00	19.60	41.96	61.56	74.00	-12.44	Peak	100	213	P

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



Test Mode : 2TX 11ax40 CH46 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical

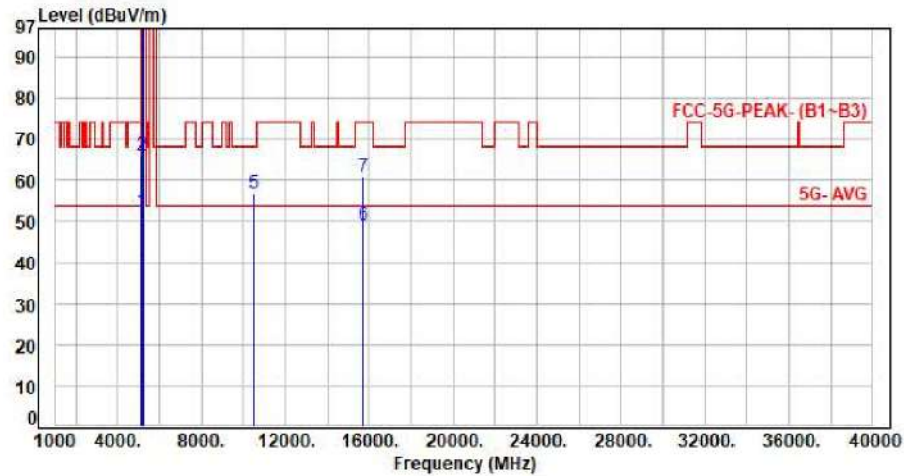


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.83	50.01	54.00	-3.99	Average	100	185	P
2	5150.00	7.18	56.33	63.51	74.00	-10.49	Peak	100	185	P
3	5230.00	7.31	85.17	92.48	200.00	-107.52	Average	100	185	P
4	5230.00	7.31	96.67	103.98	200.00	-96.02	Peak	100	185	P
5	10460.00	15.32	41.39	56.71	68.20	-11.49	Peak	100	114	P
6	15690.00	19.60	29.44	49.04	54.00	-4.96	Average	100	117	P
7	15690.00	19.60	41.33	60.93	74.00	-13.07	Peak	100	117	P

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



Test Mode : 2TX 11ax40 CH46 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal

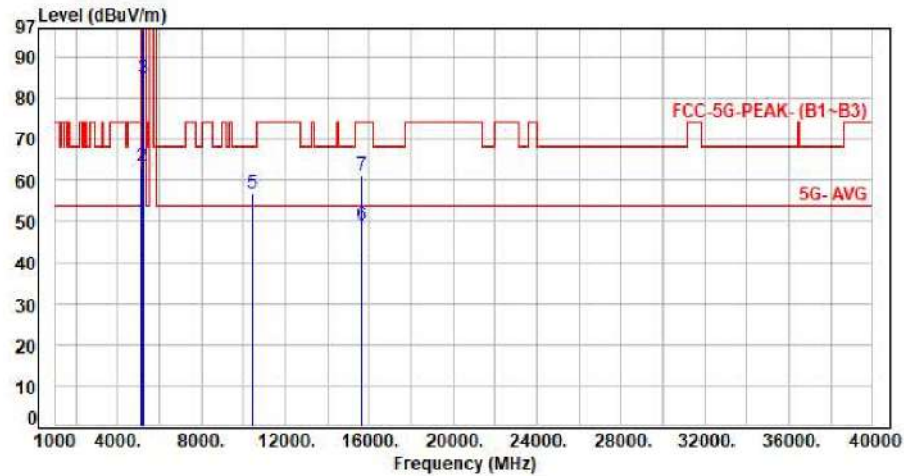


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	45.15	52.33	54.00	-1.67	Average	100	271	P
2	5150.00	7.18	58.72	65.90	74.00	-8.10	Peak	100	271	P
3	5230.00	7.31	96.88	104.19	200.00	-95.81	Average	100	271	P
4	5230.00	7.31	110.26	117.57	200.00	-82.43	Peak	100	271	P
5	10460.00	15.32	41.32	56.64	68.20	-11.56	Peak	100	209	P
6	15690.00	19.60	29.32	48.92	54.00	-5.08	Average	100	241	P
7	15690.00	19.60	41.37	60.97	74.00	-13.03	Peak	100	241	P

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



Test Mode : 2TX 11ax80 CH42 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical

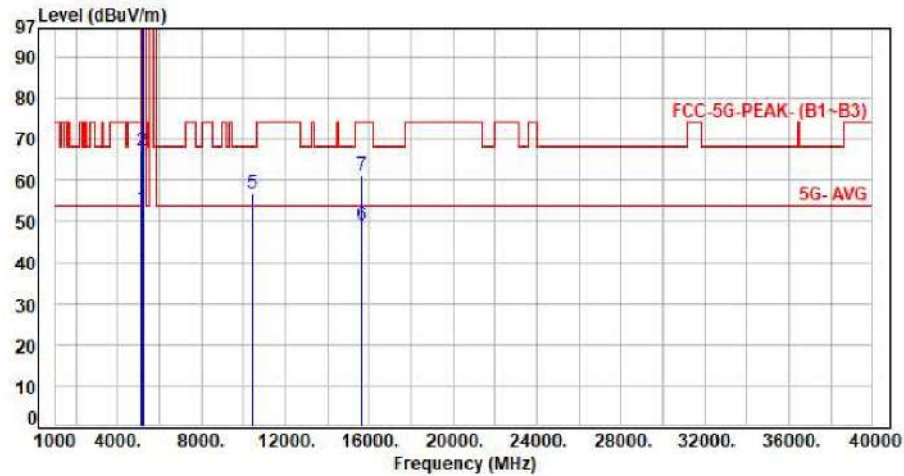


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	7.18	42.94	50.12	54.00	-3.88	Average	100	186	P
2	5150.00	7.18	56.40	63.58	74.00	-10.42	Peak	100	186	P
3	5210.00	7.31	77.58	84.89	200.00	-115.11	Average	100	186	P
4	5210.00	7.31	89.17	96.48	200.00	-103.52	Peak	100	186	P
5	10420.00	15.19	41.57	56.76	68.20	-11.44	Peak	100	117	P
6	15630.00	19.44	29.44	48.88	54.00	-5.12	Average	100	123	P
7	15630.00	19.44	41.76	61.20	74.00	-12.80	Peak	100	123	P

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



Test Mode : 2TX 11ax80 CH42 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	45.76	52.94	54.00	-1.06	Average	100	270	P
2	5150.00	7.18	60.12	67.30	74.00	-6.70	Peak	100	270	P
3	5210.00	7.31	88.66	95.97	200.00	-104.03	Average	100	270	P
4	5210.00	7.31	100.78	108.09	200.00	-91.91	Peak	100	270	P
5	10420.00	15.19	41.57	56.76	68.20	-11.44	Peak	100	227	P
6	15630.00	19.44	29.48	48.92	54.00	-5.08	Average	100	117	P
7	15630.00	19.44	41.64	61.08	74.00	-12.92	Peak	100	117	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 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

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



7. On Time, Duty Cycle and Measurement methods

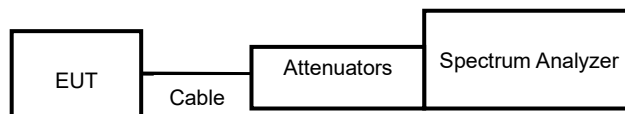
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

For IPQ6010

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a	1.99	2.16	92.04%
802.11ax HE20	5.46	6.77	80.69%
802.11ax HE40	5.46	6.78	80.59%
802.11ax HE80	5.47	6.79	80.55%

For QCN9072

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a	1.98	2.12	93.58%
802.11ax HE20	5.46	6.80	80.19%
802.11ax HE40	5.46	6.80	80.35%
802.11ax HE80	5.46	6.80	80.19%

7.5. Measurement Methods

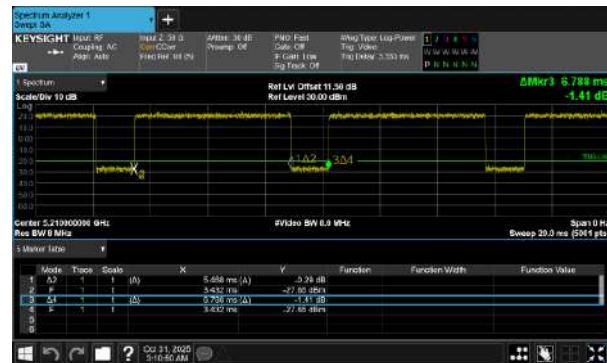
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v02r01, Sections G and H



For IPQ6010
Modulation Type: 802.11a



Modulation Type: 802.11ax HE80



Modulation Type: 802.11ax HE20



Modulation Type: 802.11ax HE40

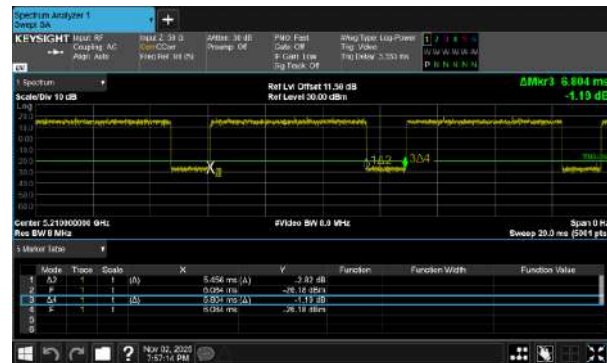




For QCN9072
Modulation Type: 802.11a



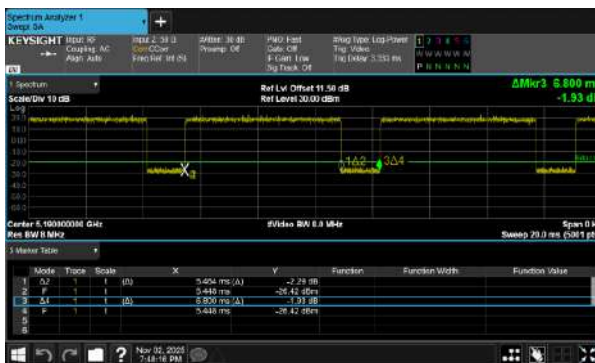
Modulation Type: 802.11ax HE80



Modulation Type: 802.11ax HE20



Modulation Type: 802.11ax HE40





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

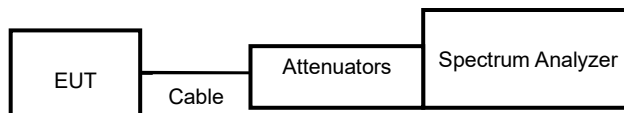
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

8.3. Test Setup Layout



8.4. Test Result and Data

N/A



9. 26dB Bandwidth & 99% Occupied Bandwidth

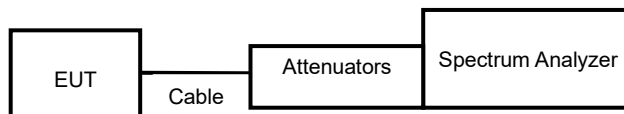
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data

For IPQ6010

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT C	ANT D
11a	36	5180	20.54	20.28
11a	40	5200	29.21	20.84
11a	48	5240	30	20.84
11ax HE20	36	5180	21.67	21.38
11ax HE20	40	5200	30	24.13
11ax HE20	48	5240	30	23.02
11ax HE40	38	5190	41.73	41.84
11ax HE40	46	5230	60	42.19
11ax HE80	42	5210	82.24	81.9

For QCN9072

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT E	ANT F
11a	36	5180	19.57	19.34
11a	40	5200	30	19.76
11a	48	5240	30	22.84
11ax HE20	36	5180	21.16	21.09
11ax HE20	40	5200	30	21.38
11ax HE20	48	5240	30	24.05
11ax HE40	38	5190	41.21	41.17
11ax HE40	46	5230	53.75	41.38
11ax HE80	42	5210	82.14	82.05



For IPQ6010

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT C	ANT D
11a	36	5180	16.41	16.43
11a	40	5200	17.01	16.47
11a	48	5240	17.23	16.45
11ax HE20	36	5180	18.93	18.93
11ax HE20	40	5200	19.45	18.97
11ax HE20	48	5240	19.32	18.97
11ax HE40	38	5190	37.86	37.88
11ax HE40	46	5230	38.56	37.97
11ax HE80	42	5210	76.99	77.08

For QCN9072

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT E	ANT F
11a	36	5180	16.43	16.38
11a	40	5200	17.20	16.39
11a	48	5240	22.61	16.47
11ax HE20	36	5180	18.88	18.90
11ax HE20	40	5200	19.11	18.91
11ax HE20	48	5240	20.44	18.97
11ax HE40	38	5190	37.79	37.80
11ax HE40	46	5230	37.89	37.80
11ax HE80	42	5210	77.05	77.08



26dB Bandwidth
For IPQ6010 ANT C
Modulation Type: 802.11a
CH36



802.11ax HE20
CH36



CH40



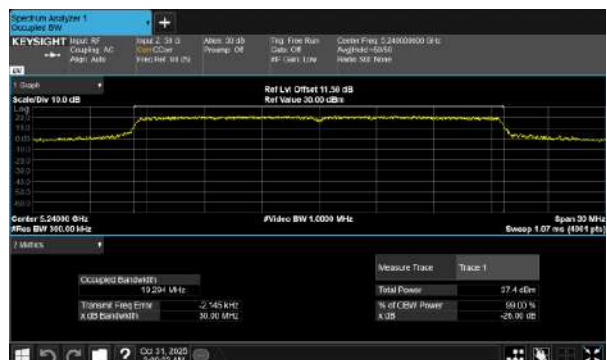
CH40



CH48



CH48





26dB Bandwidth
For IPQ6010 ANT C
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



CH46





26dB Bandwidth
For IPQ6010 ANT D
Modulation Type: 802.11a
CH36



802.11ax HE20
CH36



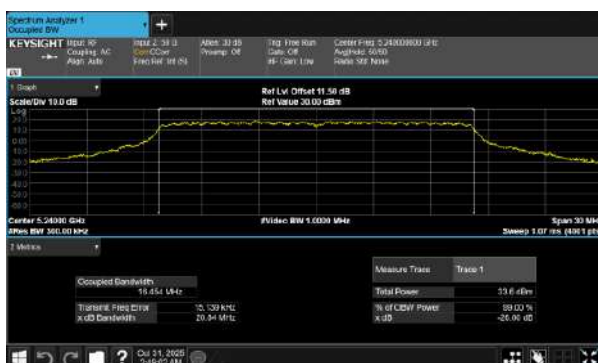
CH40



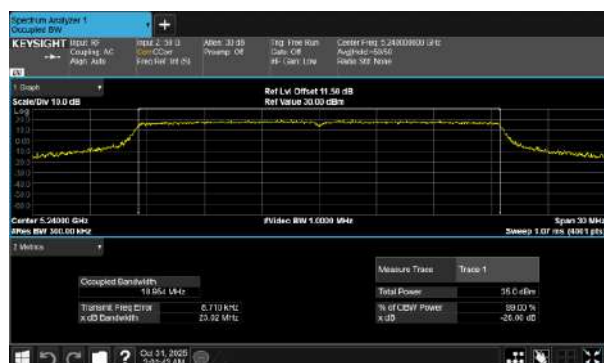
CH40



CH48



CH48





26dB Bandwidth
For IPQ6010 ANT D
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



CH46





26dB Bandwidth
For QCN9072 ANT E
Modulation Type: 802.11a
CH36



802.11ax HE20
CH36



CH40



CH40



CH48



CH48





26dB Bandwidth
For QCN9072 ANT E
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



CH46





26dB Bandwidth
For QCN9072 ANT F
Modulation Type: 802.11a
CH36



802.11ax HE20
CH36



CH40



CH40



CH48



CH48





26dB Bandwidth
For QCN9072 ANT F
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



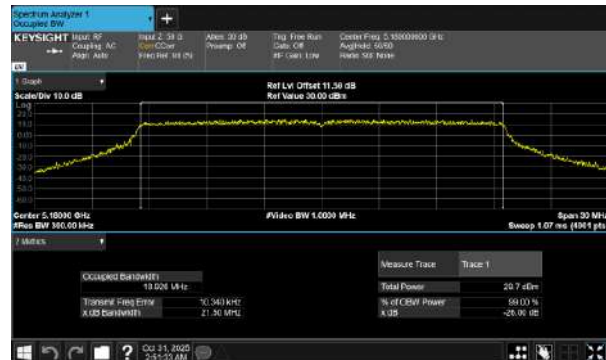
CH46





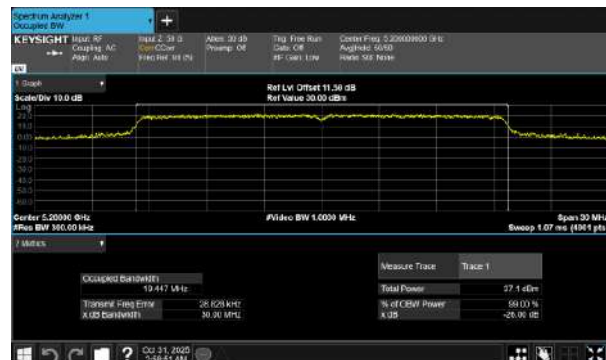
99% Bandwidth
For IPQ6010 ANT C
Modulation Type: 802.11a
CH36

802.11ax HE20
CH36



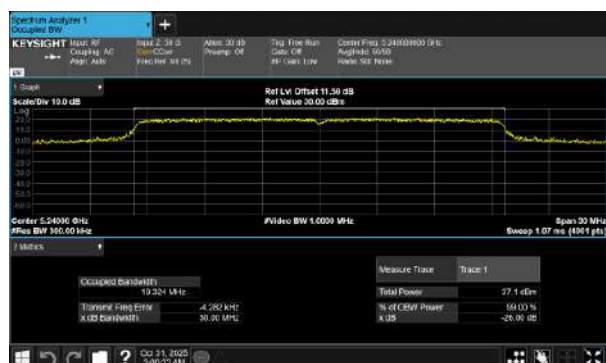
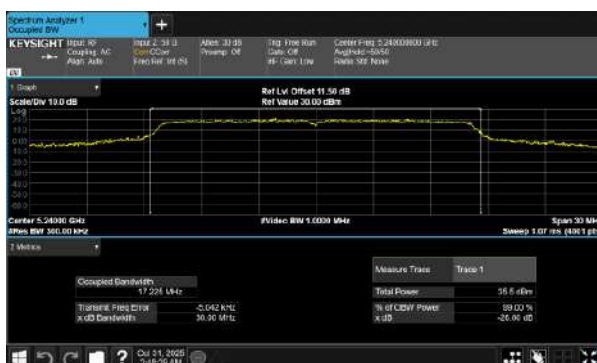
CH40

CH40



CH48

CH48





99% Bandwidth
For IPQ6010 ANT C
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



CH46

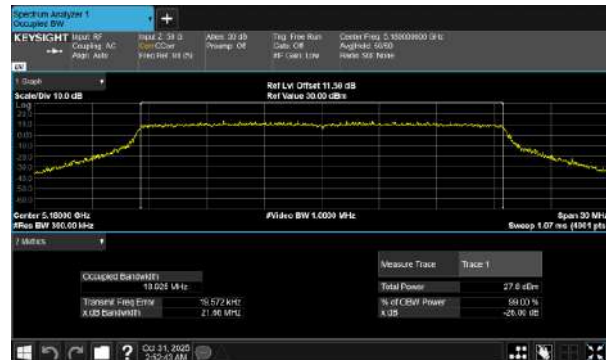




99% Bandwidth
For IPQ6010 ANT D
Modulation Type: 802.11a
CH36



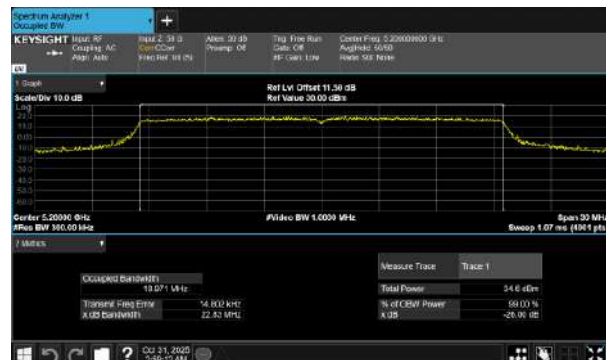
802.11ax HE20
CH36



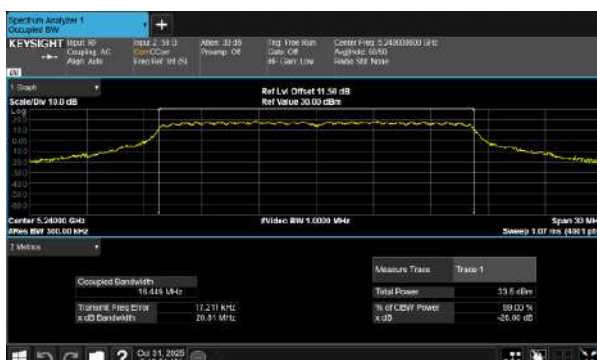
CH40



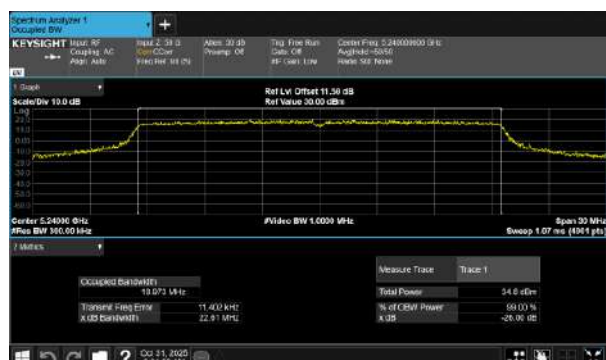
CH40



CH48



CH48





99% Bandwidth
For IPQ6010 ANT D
Modulation Type: 802.11 ax HE40
CH38



802.11ax HE80
CH42



CH46

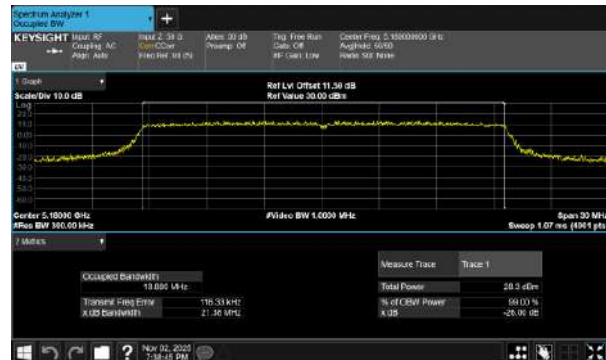




99% Bandwidth
For QCN9072 ANT E
Modulation Type: 802.11a
CH36



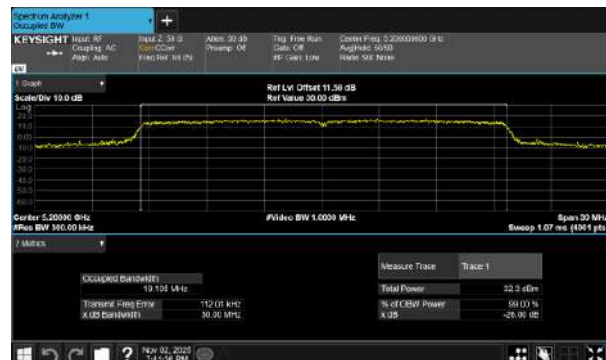
802.11ax HE20
CH36



CH40



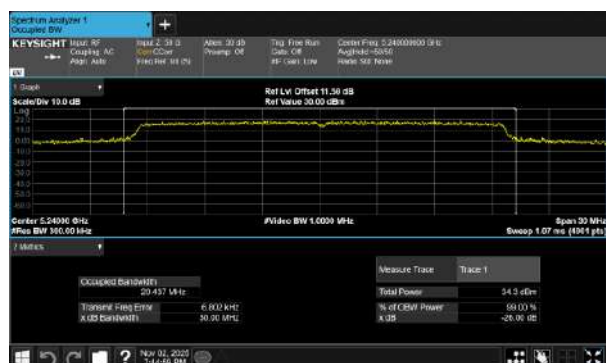
CH40



CH48



CH48





99% Bandwidth
For QCN9072 ANT E
Modulation Type: 802.11ax HE40
CH38



802.11ax HE80
CH42



CH46





99% Bandwidth
For QCN9072 ANT F
Modulation Type: 802.11a
CH36

802.11ax HE20
CH36



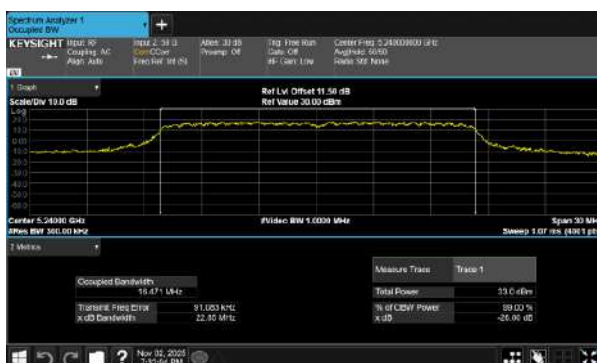
CH40



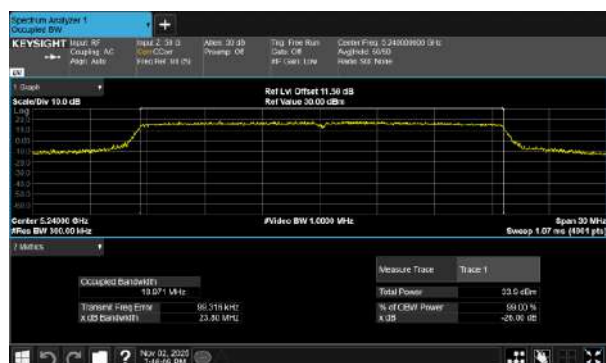
CH40



CH48



CH48





99% Bandwidth
For QCN9072 ANT F
Modulation Type: 802.11 ax HE40
CH38



802.11ax HE80
CH42



CH46





10. Average Power

10.1. Test Limit

Output Power:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
☒	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☐	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
☐	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



Frequency Band		Limit
☐	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☐	5.470-5.725 GHz	
☐	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

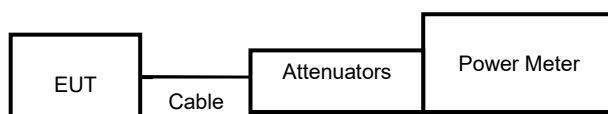
10.2.Test Procedure

According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 12.4

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3.Test Setup Layout



**10.4. Test Result and Data**

For IPQ6010

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT C	ANT D			
11a	6 Mbps	15	36	5180	22.02	20.16	24.20	262.974	30.00
11a	6 Mbps	19.5	40	5200	27.07	25.02	29.18	827.018	30.00
11a	6 Mbps	19.5	48	5240	27.91	25.42	29.85	966.354	30.00
11ax HE20	NSS1-MCS0	15	36	5180	21.54	19.82	23.77	238.501	30.00
11ax HE20	NSS1-MCS0	21	40	5200	27.32	26.09	29.76	945.954	30.00
11ax HE20	NSS1-MCS0	20.5	48	5240	27.45	26.29	29.92	981.503	30.00
11ax HE40	NSS1-MCS0	15	38	5190	21.97	20.21	24.19	262.353	30.00
11ax HE40	NSS1-MCS0	20	46	5230	27.29	26.27	29.82	959.440	30.00
11ax HE80	NSS1-MCS0	14.5	42	5210	21.83	20.02	24.03	252.867	30.00

For QCN9072

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT E	ANT F			
11a	6 Mbps	19	36	5180	20.35	20.98	23.69	233.707	30.00
11a	6 Mbps	22.5	40	5200	23.33	24.10	26.74	472.318	30.00
11a	6 Mbps	24	48	5240	25.81	24.72	28.31	677.549	30.00
11ax HE20	NSS1-MCS0	19	36	5180	20.21	21.01	23.64	231.137	30.00
11ax HE20	NSS1-MCS0	22.5	40	5200	23.39	24.03	24.03	252.930	30.00
11ax HE20	NSS1-MCS0	24	48	5240	25.92	24.67	28.35	683.930	30.00
11ax HE40	NSS1-MCS0	15	38	5190	16.79	17.12	19.97	99.276	30.00
11ax HE40	NSS1-MCS0	20.5	46	5230	22.11	22.28	25.21	331.599	30.00
11ax HE80	NSS1-MCS0	15	42	5210	16.12	16.91	19.54	90.017	30.00



The image shows a Keysight E6700A Network Analyzer screen. The main display area shows a plot of S11 (dB) versus frequency (Hz). The plot has a yellow trace with a sharp dip at approximately 4.15 GHz. The top status bar shows 'RMA2411B', 'Cr 100.5630r', and '11.50 dB'. The right sidebar contains menu options: 'Channel 1', 'Limit Checking', 'Sealing', 'Profile Display', 'Meas Hold', 'Detection Indication', 'Post Process'. The bottom status bar shows 'Cate', '22.18 dBm', '27.74 dBm', and '5.56 dB'.



A MA24-11B Cr 100.56% Cr 11.50 dB

CH1 +300.00 dBm = 5.00 dBZ

A dBm

20MHz

Av 640

200.000 us 4 H/s/s 14.500 ms

Gate 1

Av 21.74 dBm

Pk 28.25 dBm

Cr 6.51 dB

Channel

Set Up

Trigger

Gating

Averaging

Markers

More

AMA2411B [CF 100.56 MHz] 11.50 dB Channel 1

CH1 30.00 dBm 5.00 dB

A dBm

10 dBm

20 MHz

AV 640

-200.000 μ s +115.5/s 14.000 ms

data 1

AV	22.19 dBm
PK	28.43 dBm
CR	6.24 dB

Set Up

Trigger

Gating

Averaging

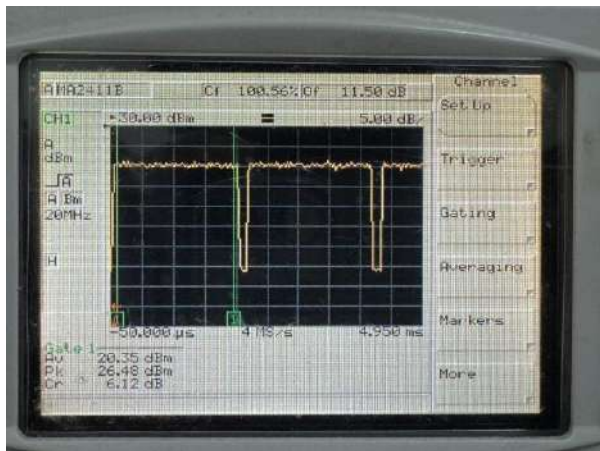
Markers

More

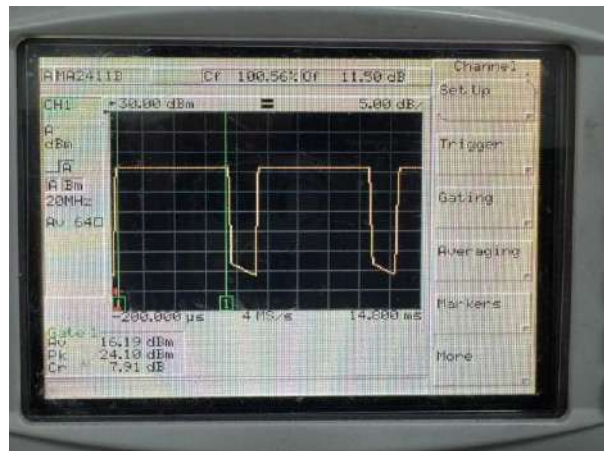


For QCN9072

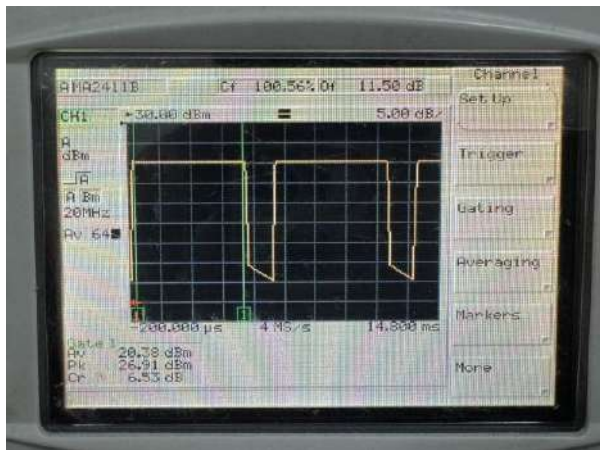
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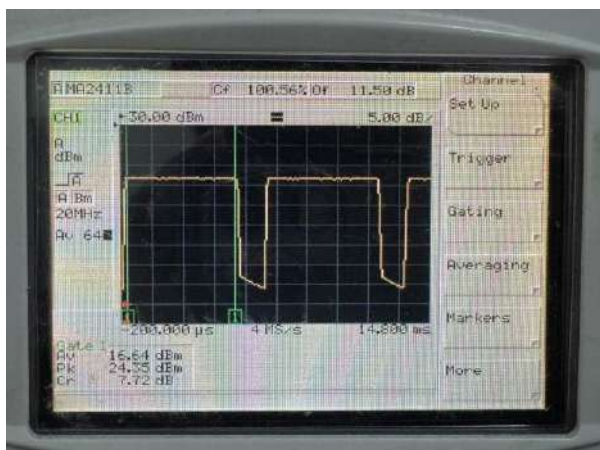
Modulation Type: 802.11ax HE80



Modulation Type: 802.11ax HE20



Modulation Type: 802.11ax HE40





11. Power Spectral Density

11.1. Test Limit

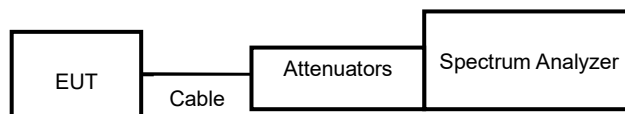
PSD:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	17 dBm/MHz
☒	Indoor access point	17 dBm/MHz
☐	Fixed point-to-point access points	17 dBm/MHz
☐	Mobile and portable client devices	11 dBm/MHz
☐	5.725~5.85 GHz	11 dBm/MHz
☐	5.470-5.725 GHz	11 dBm/MHz
☐	5.725~5.85 GHz	30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3. Test Setup Layout



**11.4. Test Result and Data**

For IPQ6010

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT C	ANT D				
11a	36	5180	7.022	5.114	9.18	0.36	9.54	14.62
11a	40	5200	11.733	9.889	13.92	0.36	14.28	14.62
11a	48	5240	12.043	10.167	14.22	0.36	14.58	14.62
11ax HE20	36	5180	-2.266	-3.874	0.01	0.93	0.94	14.62
11ax HE20	40	5200	3.311	1.164	5.38	0.93	6.31	14.62
11ax HE20	48	5240	3.122	1.264	5.30	0.93	6.23	14.62
11ax HE40	38	5190	-3.890	-5.576	-1.64	0.94	-0.70	14.62
11ax HE40	46	5230	0.741	-1.040	2.95	0.94	3.89	14.62
11ax HE80	42	5210	-6.497	-8.041	-4.19	0.94	-3.25	14.62

For QCN9072

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT E	ANT F				
11a	36	5180	5.725	5.742	8.74	0.29	9.03	14.62
11a	40	5200	8.977	8.987	11.99	0.29	12.28	14.62
11a	48	5240	10.643	10.128	13.40	0.29	13.69	14.62
11ax HE20	36	5180	-3.054	-2.697	0.14	0.96	1.10	14.62
11ax HE20	40	5200	-0.558	-0.224	2.62	0.96	3.58	14.62
11ax HE20	48	5240	0.994	0.730	3.87	0.96	4.83	14.62
11ax HE40	38	5190	-8.077	-8.037	-5.05	0.95	-4.10	14.62
11ax HE40	46	5230	-3.515	-3.943	-0.71	0.95	0.24	14.62
11ax HE80	42	5210	-10.838	-10.667	-7.74	0.96	-6.78	14.62



For IPQ6010 ANT C
Modulation Type: 802.11a
CH36



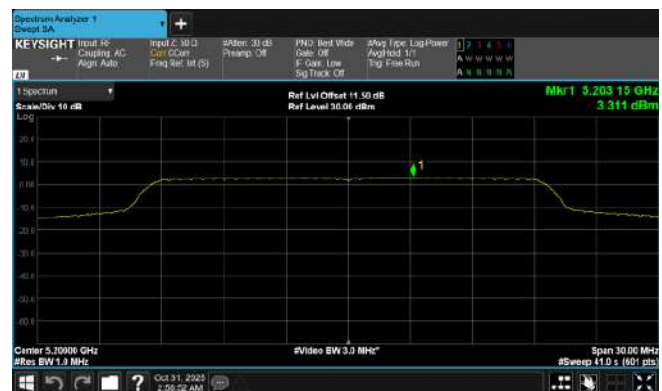
Modulation Type: 802.11ax HE20
CH36



CH40



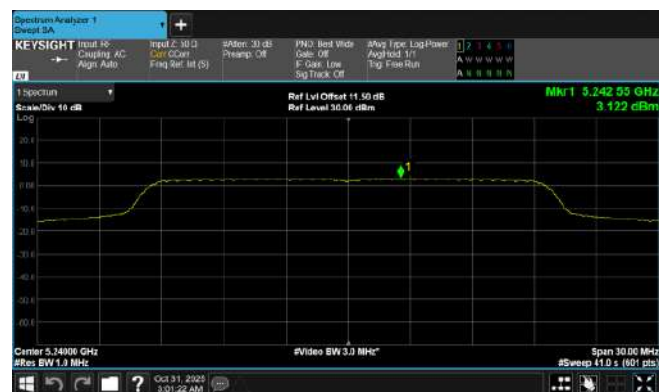
CH40



CH48



CH48





For IPQ6010 ANT C

Modulation Type: 802.11ax HE40

CH38



Modulation Type: 802.11ax HE80

CH42



CH46





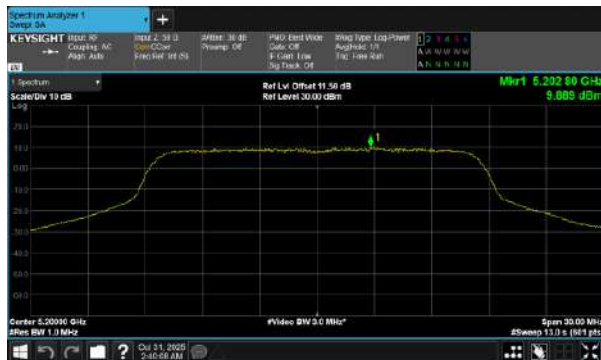
For IPQ6010 ANT D
Modulation Type: 802.11a
CH36



Modulation Type: 802.11ax HE20
CH36



CH40



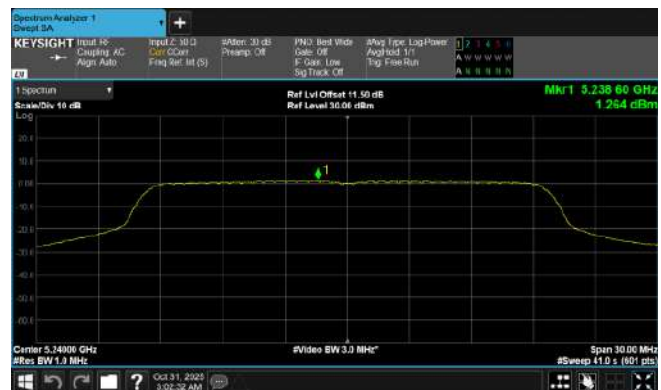
CH40



CH48



CH48





For IPQ6010 ANT D

Modulation Type: 802.11ax HE40

CH38



Modulation Type: 802.11ax HE80

CH42



CH46





For QCN9072 ANT E
Modulation Type: 802.11a
CH36



Modulation Type: 802.11ax HE20
CH36



CH40



CH40



CH48



CH48





For QCN9072 ANT E

Modulation Type: 802.11ax HE40

CH38



Modulation Type: 802.11ax HE80

CH42



CH46





For QCN9072 ANT F
Modulation Type: 802.11a
CH36



Modulation Type: 802.11ax HE20
CH36



CH40



CH40



CH48



CH48





For QCN9072 ANT F

Modulation Type: 802.11ax HE40

CH38



Modulation Type: 802.11ax HE80

CH42



CH46



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