



Report No.: KSCR250900199104

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TEST REPORT

Application No.: KSCR2509001991AT
FCC ID: XMR202401AF68E
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Equipment Under Test (EUT):
EUT Name: Wi-Fi & Bluetooth Module
Model No.: AF68E
Trade Mark: QUECTEL
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-08-31
Date of Test: 2025-09-01 to 2025-09-04
Date of Issue: 2025-09-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Compliance Certification Services (Kunshan) Inc.
程智电子科技（昆山）有限公司

No.10 Weiye Road, Development Zone, Kunshan, Jiangsu, China
中国·江苏省昆山开发区伟业路10号 215301

t (86-512)57355888
f (86-512)57370818

www.sgsgroup.com.cn
sgs.china@sgs.com

Member of the SGS Group (SGS SA)



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Revision Record			
Version	Description	Date	Remark
00	Add a new antenna	2025-09-12	Based on KSCR240200030904

Authorized for issue by:				
Tested By		maker Qi		
		Maker_Qi/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	Test Lab*
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Customer Declaration	N/A
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Customer Declaration	N/A

Item	Standard	Method	Requirement	Result	Test Lab*
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass	B
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass (Note1)	A
99% Bandwidth		KDB 789033 II D	N/A	Pass (Note1)	A
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass (Note1)	A
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass (Note1)	A
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass (Note1)	A
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass (Note1)	A
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass	B
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass (Note1)	A
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass (Note1)	A
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass (Note1)	A



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Note1: This report was an additional report copied from the report KSCR240200030904, new report add a new antenna and test items for Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Spurious Emissions Below 1GHz, Radiated Spurious Emissions Above 1GHz and Radiated Emissions which fall in the restricted bands. And other test items data refer to original report KSCR240200030904.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.3-4.8V, Typ: 3.85V
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channel); U-NII-2C: 5530-5610MHz (2 Channel); U-NII-3: 5775MHz (1 Channel)
Operation Frequency/Number of channels (160MHz):	U-NII-2A: 5250MHz (1 Channel); U-NII-2C: 5570MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz; 802.11ac/ax 160: 160MHz
DFS Function:	Slave without Radar detection
TPC Function:	Support TPC function
Antenna Type:	External antenna
Antenna Gain:	5150MHz~5250MHz: ANT5(WIFI0): 3.3dBi (Provided by the manufacturer) ANT6(WIFI1): 3.0dBi (Provided by the manufacturer) 5250MHz~5350MHz: ANT5(WIFI0): 2.6dBi (Provided by the manufacturer) ANT6(WIFI1): 3.1dBi (Provided by the manufacturer) 5470MHz~5725MHz: ANT5(WIFI0): 3.2dBi (Provided by the manufacturer) ANT6(WIFI1): 3.0dBi (Provided by the manufacturer) 5725MHz~5850MHz: ANT5(WIFI0): 2.9dBi (Provided by the manufacturer) ANT6(WIFI1): 2.4dBi (Provided by the manufacturer)

4.2 Power level setting using in test

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)		802.11ax(HEW20)	
	Ant 1	Ant 2	Ant 2	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
40	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
48	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
52	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
60	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
64	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
100	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
116	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
140	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
144	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
149	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
157	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
165	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Channel	802.11n(HT40)		802.11ac(VHT40)		802.11ax(HEW40)			
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
38	17	17	17	17	17	17		
46	17	17	17	17	17	17		
54	17	17	17	17	17	17		
62	17	17	17	17	17	17		
102	17	17	17	17	17	17		
110	17	17	17	17	17	17		
134	17	17	17	17	17	17		
142	17	17	17	17	17	17		
151	17	17	17	17	17	17		
159	17	17	17	17	17	17		

Channel	802.11ac(VHT80)		802.11ax(HEW80)	
	Ant 1	Ant 2	Ant 1	Ant 2
42	16.5	16.5	16.5	16.5
58	16.5	16.5	16.5	16.5
106	16.5	16.5	16.5	16.5
122	16.5	16.5	16.5	16.5
138	16.5	16.5	16.5	16.5
155	16.5	16.5	16.5	16.5
Channel	802.11ac(VHT160)		802.11ax(HEW160)	
	Ant 1	Ant 2	Ant 1	Ant 2
50	16	16	16	16
114	16	16	16	16

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	Smauwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Bluetooth earphone	Lenovo	Thinplus BH3	SUWI-03-48-01

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.5 Test Location

Lab A:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

Lab B:

Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Spurious Emissions Below 1GHz, Radiated Spurious Emissions Above 1GHz and Radiated Emissions which fall in the restricted bands test at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

No.2, Tongsheng Road, Wuzhong District, Suzhou, Jiangsu, China

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

4.6 Test Facility

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

Lab A:**• A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

Lab B:**• A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Lab B:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
2	LISN	R&S	ENV216	SUWI-01-19-03	5/8/2025	5/7/2026
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	5/8/2025	5/7/2026
4	Test Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	11/21/2024	11/20/2025
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	1/16/2025	1/15/2026
6	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026
7	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027
8	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
9	Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	9/10/2024	9/9/2025
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	9/10/2024	9/9/2025
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	11/19/2024	11/18/2025
17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/16/2025	1/15/2026
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
19	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
20	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is External Antenna on the main PCB and no consideration of replacement. The best case gain of the U-NII-1: ANT5(WIFI0) 3.3dBi, ANT6(WIFI1) 3.0dBi; U-NII-2A: ANT5(WIFI0) 2.6dBi, ANT6(WIFI1) 3.1dBi, U-NII-2C: ANT5(WIFI0) 3.2dBi, ANT6(WIFI1) 3.0dBi, U-NII-3: ANT5(WIFI0) 2.9dBi, ANT6(WIFI1) 2.4dBi.

Antenna location: Refer to internal photo.

Directional Gain Calculations for MIMO:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

- If any transmit signals are correlated with each other,
Directional gain = $GANT + 10 \log(NANT)$ dBi
- If all transmit signals are completely uncorrelated with each other,
Directional gain = GANT

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi

- If transmit signals are correlated, then
Directional gain = $10 \log[(10G1 / 20 + 10G2 / 20 + \dots + 10GN / 20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then
Directional gain = $10 \log[(10G1 / 10 + 10G2 / 10 + \dots + 10GN / 10) / NANT]$ dBi

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

All antennas have the same gain:

Operation Frequency	ANT5(WIFI0) (dBi)	ANT6(WIFI1) (dBi)	Directional gain For Power(dBi)	Directional gain For PSD(dBi)
5150 MHz to 5250 MHz	3.3	3.0	3.3	3.3
5250 MHz to 5350 MHz	2.6	3.1	3.1	3.1
5470 MHz to 5600MHz &5650MHz to 5725MHz	3.2	3.0	3.2	3.2
5725 MHz to 5850 MHz	2.9	2.4	2.9	2.9

5150 MHz to 5250 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5250 MHz to 5350 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470 MHz to 5600MHz &5650MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725 MHz to 5850 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

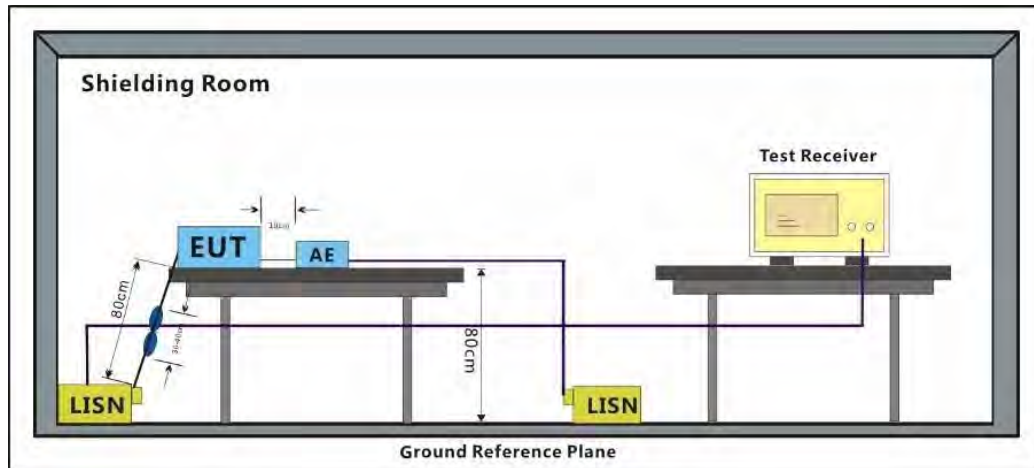
Humidity: 46 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

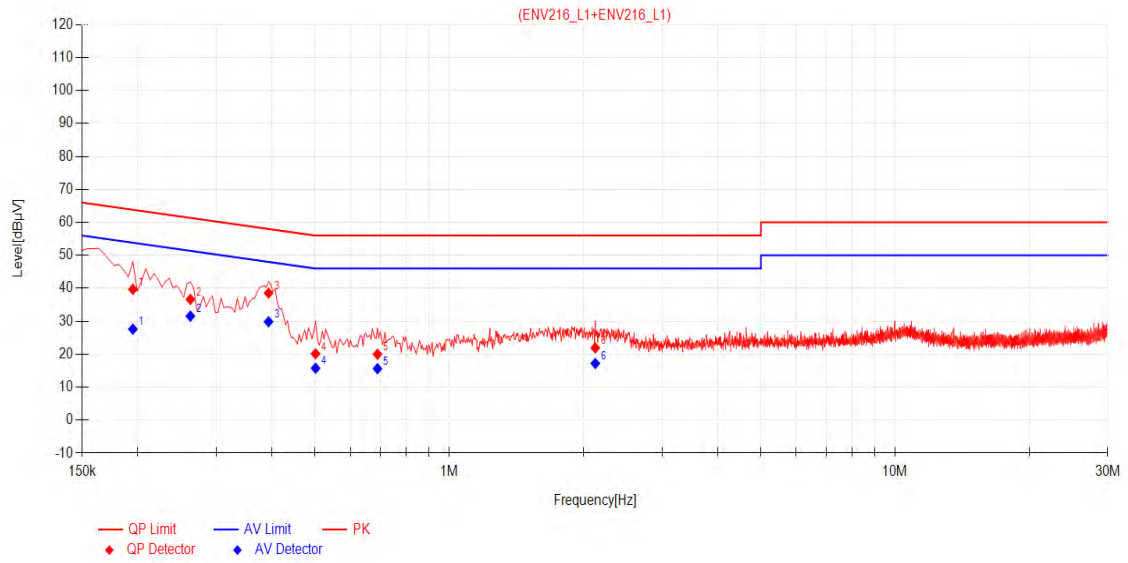


7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

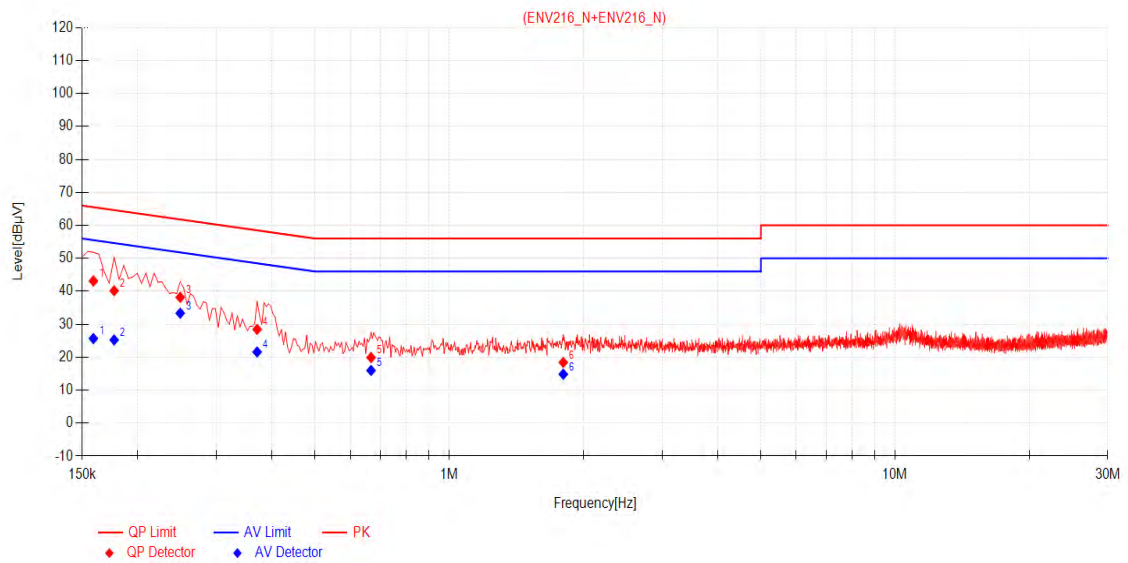
Remark: $Level = Read\ Level + Cable\ Loss + LISN\ Factor$

Test Mode: 01; Line: Live line



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1950	9.97	29.72	39.69	63.82	24.13	17.64	27.61	53.82	26.21	PASS
2	0.2625	9.97	26.66	36.63	61.35	24.72	21.58	31.55	51.35	19.80	PASS
3	0.3930	9.95	28.57	38.52	58.00	19.48	19.91	29.86	48.00	18.14	PASS
4	0.5010	9.94	10.18	20.12	56.00	35.88	5.79	15.73	46.00	30.27	PASS
5	0.6900	9.92	10.09	20.01	56.00	35.99	5.68	15.60	46.00	30.40	PASS
6	2.1255	9.88	12.04	21.92	56.00	34.08	7.33	17.21	46.00	28.79	PASS

Test Mode: 01; Line: Neutral Line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	9.95	33.18	43.13	65.52	22.39	15.71	25.66	55.52	29.86	PASS
2	0.1770	9.94	30.22	40.16	64.63	24.47	15.31	25.25	54.63	29.38	PASS
3	0.2490	9.97	28.19	38.16	61.79	23.63	23.38	33.35	51.79	18.44	PASS
4	0.3705	9.96	18.49	28.45	58.49	30.04	11.64	21.60	48.49	26.89	PASS
5	0.6675	9.94	9.96	19.90	56.00	36.10	6.04	15.98	46.00	30.02	PASS
6	1.8015	9.92	8.50	18.42	56.00	37.58	4.91	14.83	46.00	31.17	PASS

7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

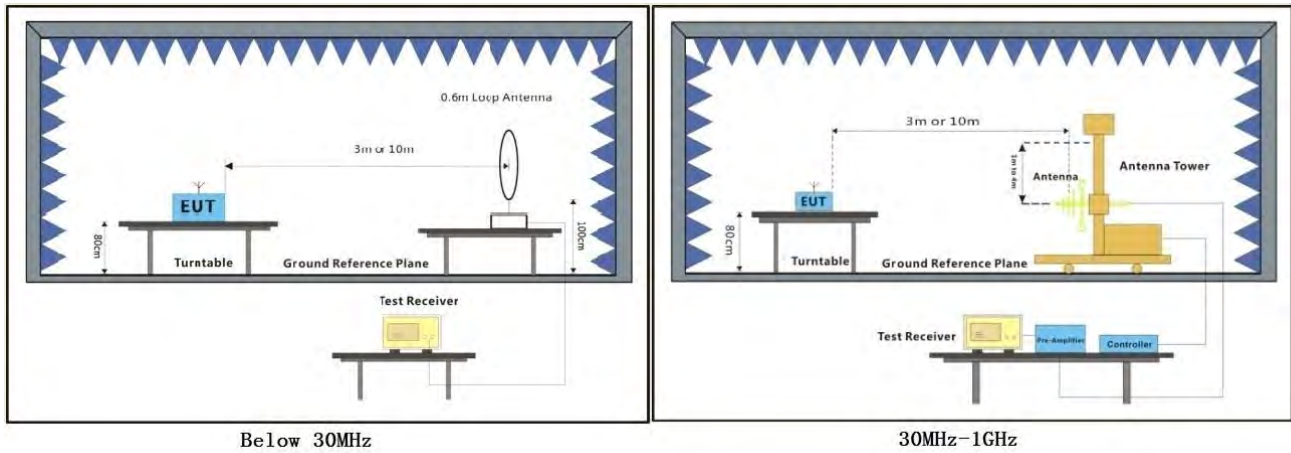
Humidity: 51.3 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



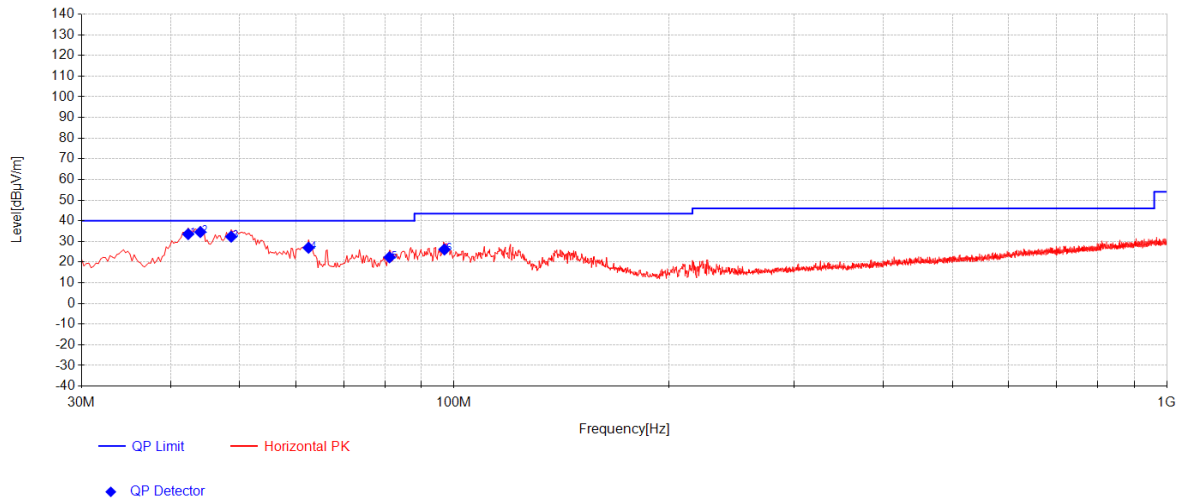
7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MiMO antenna operation for n/ac/ax modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

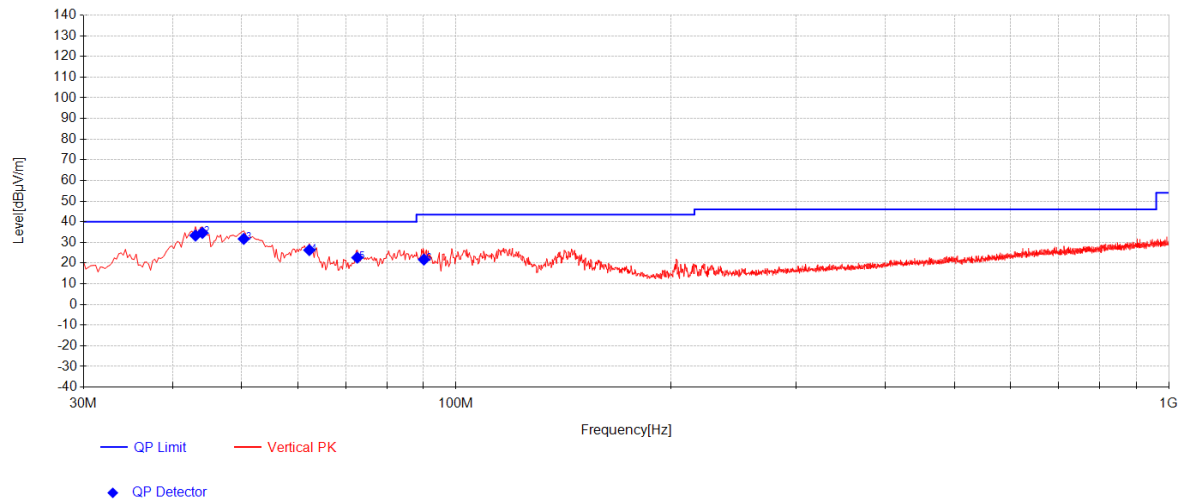
11ac80_Channel 58



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	42.3675	48.65	-33.82	18.74	33.57	40.00	6.43	Horizontal
2	44.065	49.54	-33.79	18.81	34.56	40.00	5.44	Horizontal
3	48.6725	47.24	-33.71	18.80	32.33	40.00	7.67	Horizontal
4	62.495	42.99	-33.52	17.50	26.97	40.00	13.03	Horizontal
5	81.1675	41.24	-33.33	14.43	22.34	40.00	17.66	Horizontal
6	96.93	44.99	-33.17	14.29	26.12	43.50	17.38	Horizontal

11ac80_Channel 58



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	43.095	48.35	-33.81	18.80	33.34	40.00	6.66	Vertical
2	44.065	49.63	-33.79	18.81	34.65	40.00	5.35	Vertical
3	50.37	46.85	-33.69	18.56	31.73	40.00	8.27	Vertical
4	62.2525	42.35	-33.52	17.45	26.28	40.00	13.72	Vertical
5	72.68	40.06	-33.40	16.00	22.66	40.00	17.34	Vertical
6	90.14	40.33	-33.26	14.67	21.74	43.50	21.76	Vertical

7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(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: (i) 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 25 MHz 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 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

Humidity: 51.3 % RH

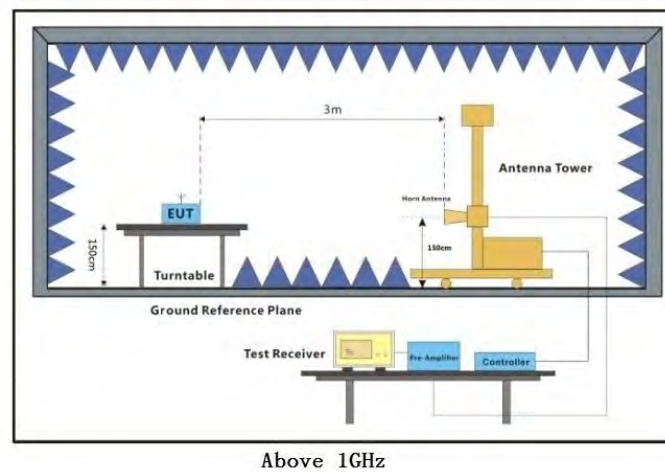
Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all

		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



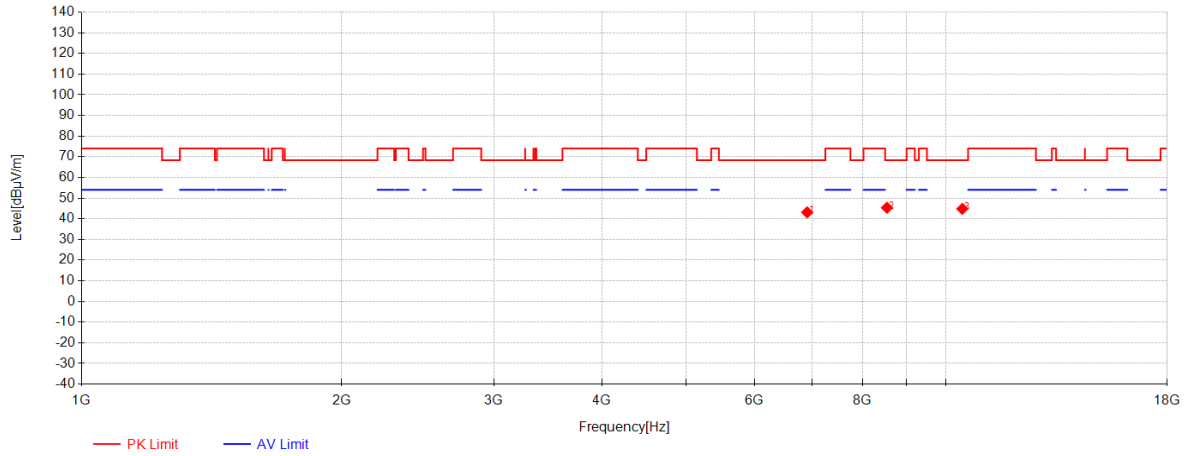
7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

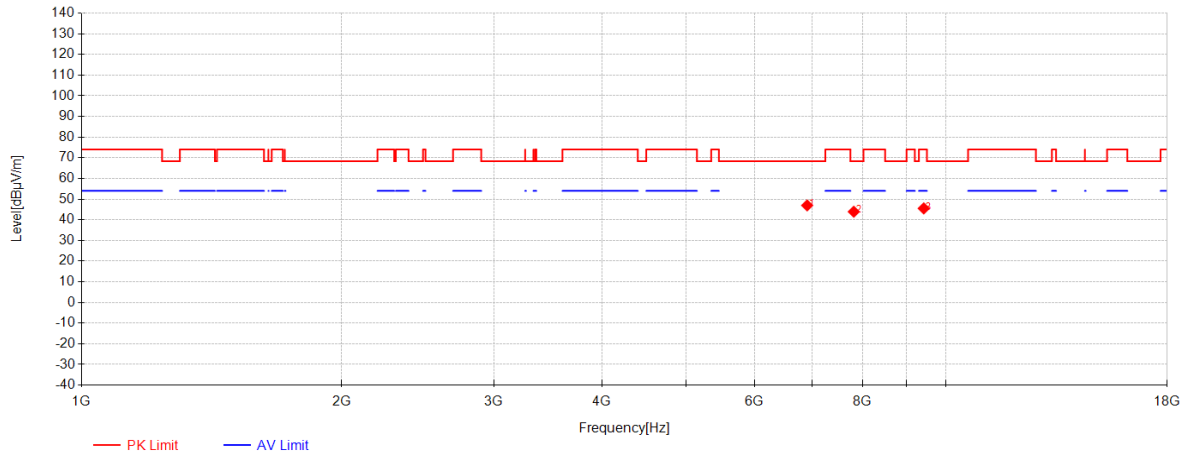
Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MiMO antenna operation for n/ac/ax modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

802.11a_Channel 36

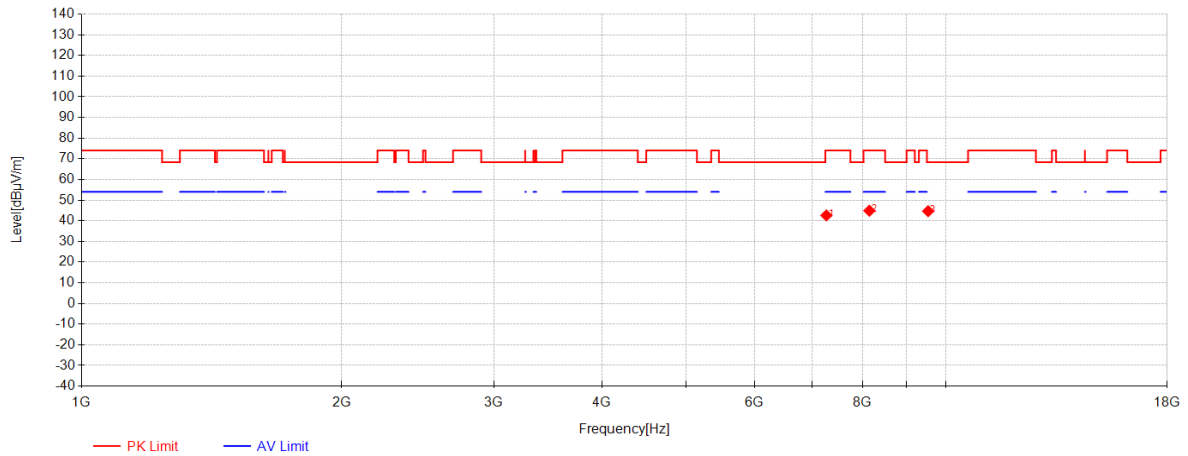


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.7167	45.48	35.96	-38.32	43.13	68.30	25.17	Horizontal
2	8542.4	43.55	37.37	-35.58	45.34	68.30	22.96	Horizontal
3	10439.5167	37.80	38.12	-31.11	44.81	68.30	23.49	Horizontal

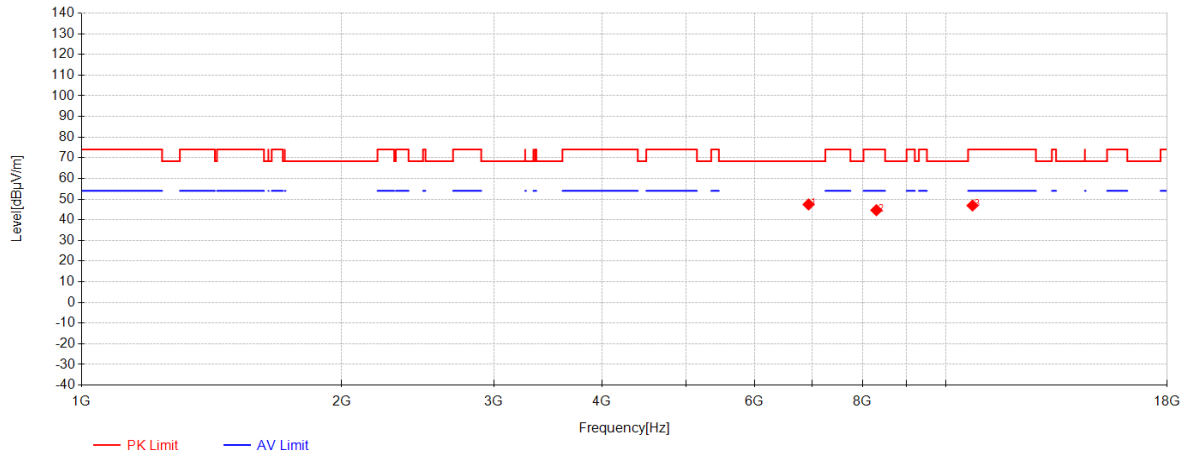


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.7167	49.30	35.96	-38.32	46.95	68.30	21.35	Vertical
2	7819.4333	43.80	36.92	-36.82	43.90	68.30	24.40	Vertical
3	9421	41.72	37.73	-33.94	45.51	74.00	28.49	Vertical

802.11a_Channel 40

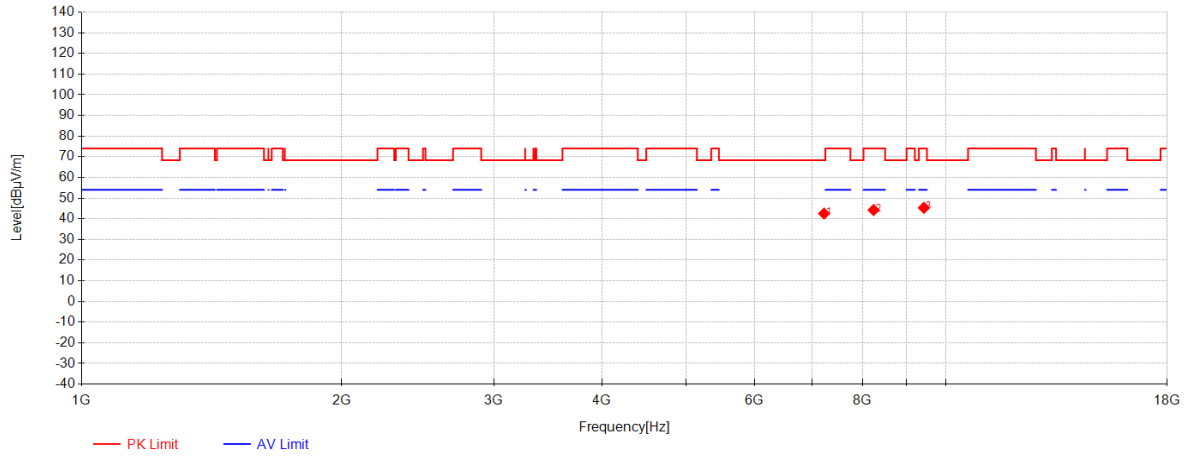


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7269.7333	43.95	36.32	-37.64	42.63	74.00	31.37	Horizontal
2	8150.6333	44.10	37.18	-36.39	44.89	74.00	29.11	Horizontal
3	9531.0167	40.43	37.76	-33.55	44.64	68.30	23.66	Horizontal

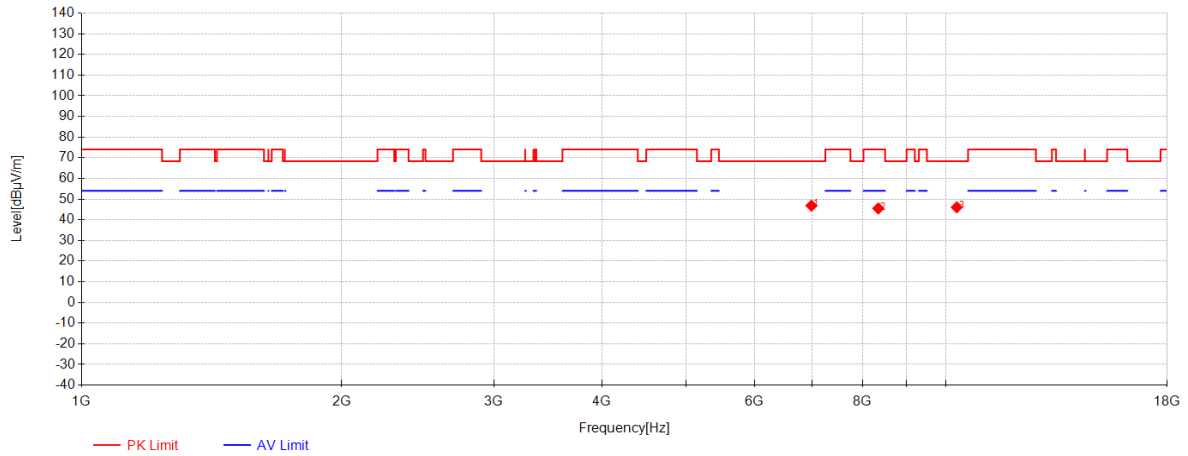


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6933.1667	49.60	35.97	-38.14	47.43	68.30	20.87	Vertical
2	8303.9667	43.36	37.25	-35.96	44.65	74.00	29.35	Vertical
3	10727.0167	38.97	38.26	-30.31	46.92	74.00	27.08	Vertical

802.11a_Channel 48

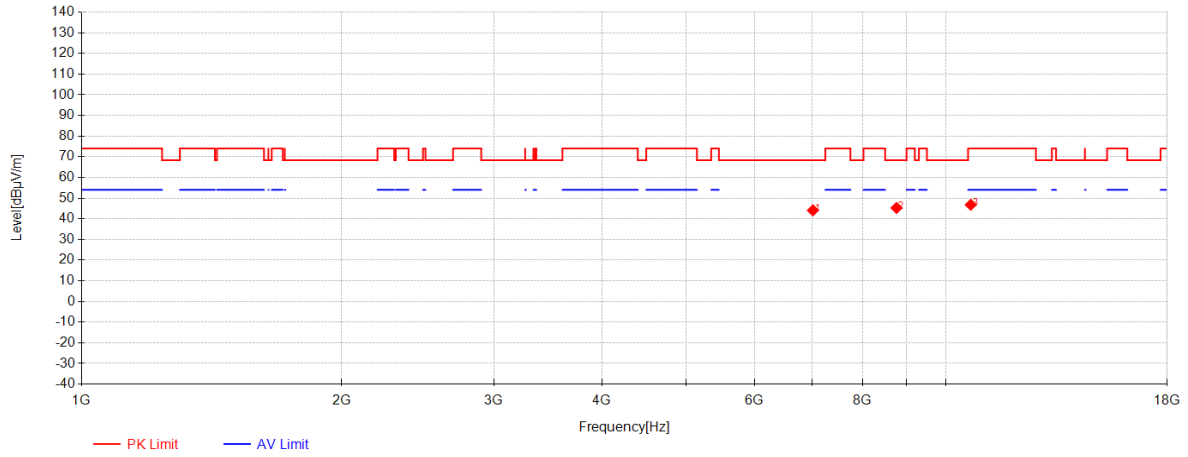


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7224.5	44.02	36.27	-37.77	42.52	68.30	25.78	Horizontal
2	8243.0167	43.13	37.22	-36.11	44.24	74.00	29.76	Horizontal
3	9423.6833	41.50	37.73	-33.93	45.30	74.00	28.70	Horizontal

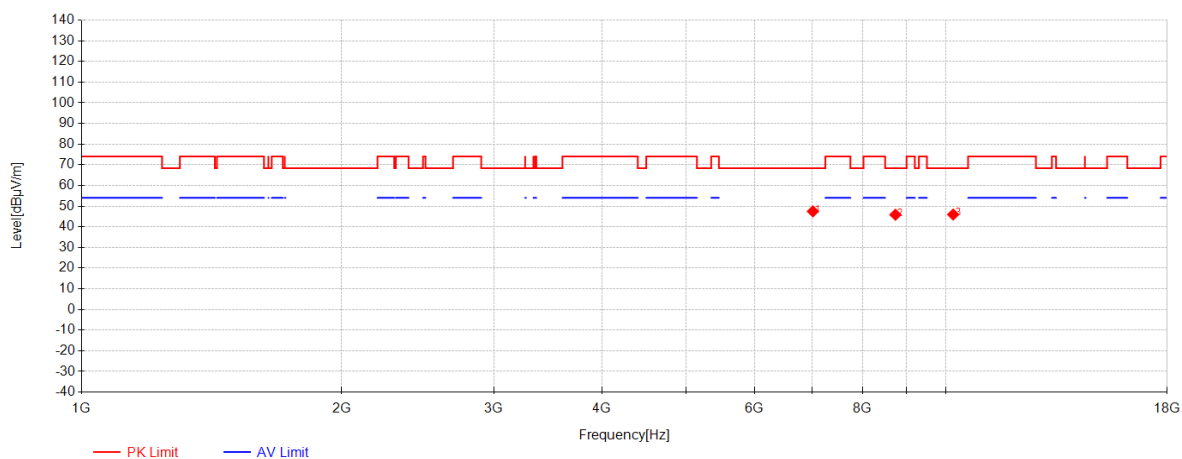


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.8333	48.63	35.99	-37.79	46.84	68.30	21.46	Vertical
2	8348.05	44.12	37.27	-35.88	45.51	74.00	28.49	Vertical
3	10287.3333	39.92	38.04	-31.91	46.05	68.30	22.25	Vertical

802.11a_Channel 52

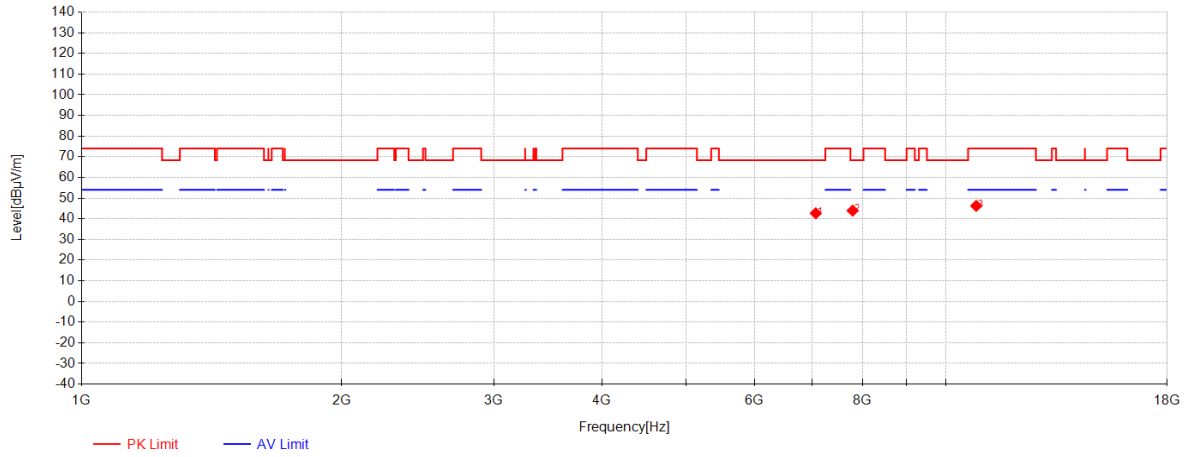


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7013.2833	45.86	36.02	-37.78	44.10	68.30	24.20	Horizontal
2	8762.4333	42.74	37.48	-34.95	45.27	68.30	23.03	Horizontal
3	10676.8	39.04	38.24	-30.51	46.77	74.00	27.23	Horizontal

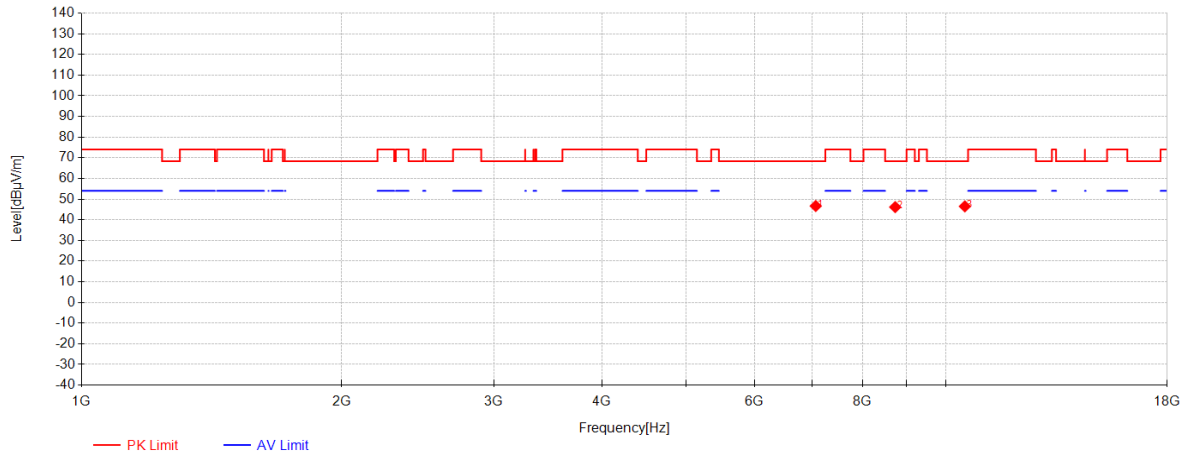


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7013.6667	49.23	36.02	-37.78	47.47	68.30	20.83	Vertical
2	8736.75	43.42	37.47	-35.05	45.84	68.30	22.46	Vertical
3	10188.4333	39.56	37.99	-31.61	45.94	68.30	22.36	Vertical

802.11a_Channel 60

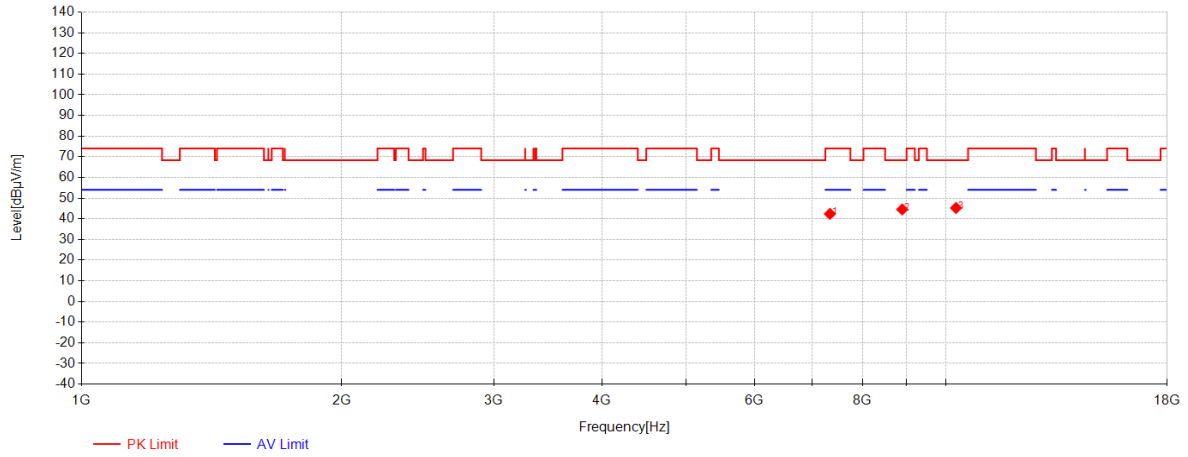


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7066.5667	44.69	36.08	-38.09	42.68	68.30	25.62	Horizontal
2	7796.05	43.88	36.90	-36.80	43.97	68.30	24.33	Horizontal
3	10832.4333	38.28	38.32	-30.36	46.24	74.00	27.76	Horizontal

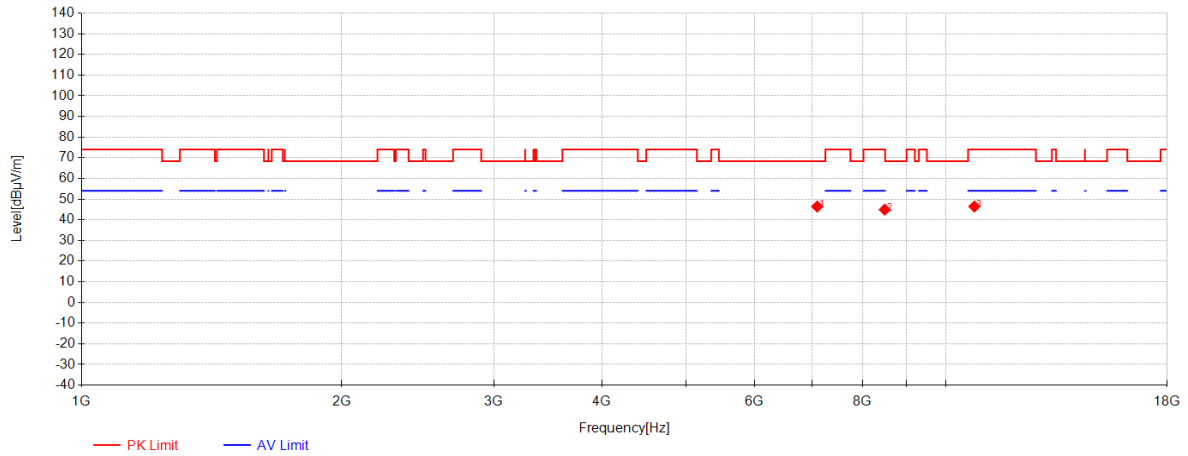


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7066.95	48.69	36.08	-38.09	46.68	68.30	21.62	Vertical
2	8732.15	43.76	37.47	-35.07	46.15	68.30	22.15	Vertical
3	10510.8167	39.38	38.16	-31.05	46.49	68.30	21.81	Vertical

802.11a_Channel 64

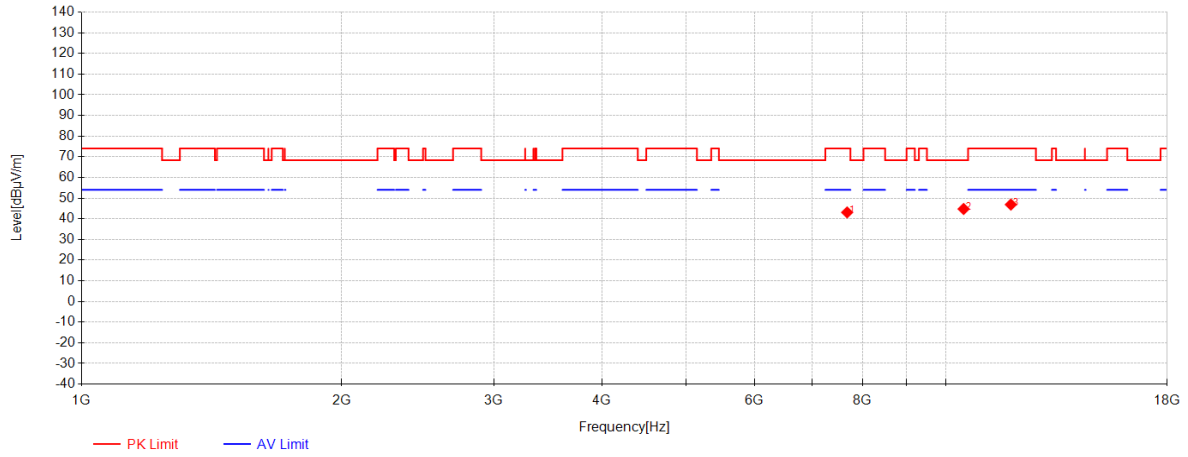


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7339.1167	43.65	36.41	-37.68	42.38	74.00	31.62	Horizontal
2	8896.2167	42.23	37.55	-35.27	44.51	68.30	23.79	Horizontal
3	10266.6333	39.04	38.03	-31.82	45.25	68.30	23.05	Horizontal

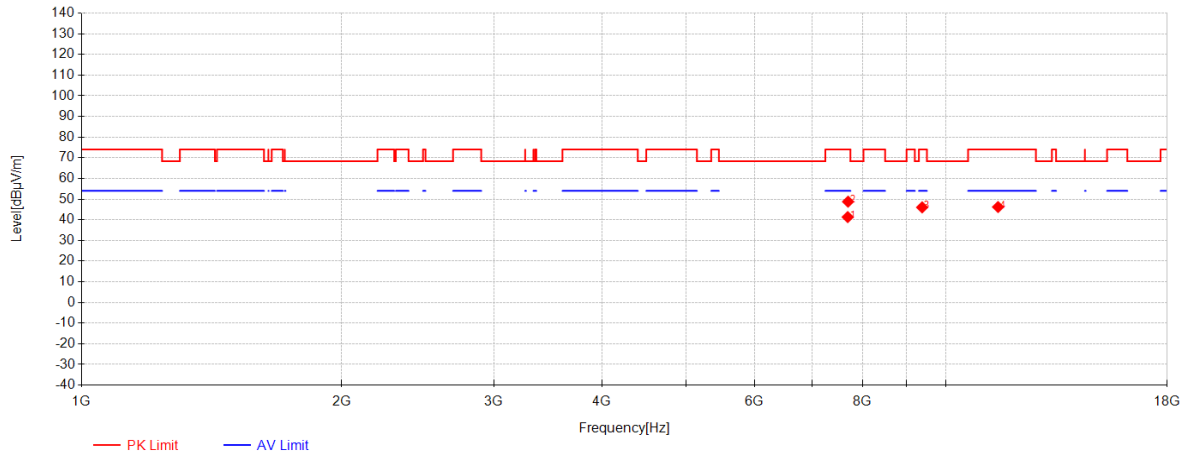


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7093.4	48.52	36.11	-38.24	46.39	68.30	21.91	Vertical
2	8491.4167	43.36	37.35	-35.78	44.92	74.00	29.08	Vertical
3	10779.9167	38.49	38.29	-30.34	46.44	74.00	27.56	Vertical

802.11a_Channel 100

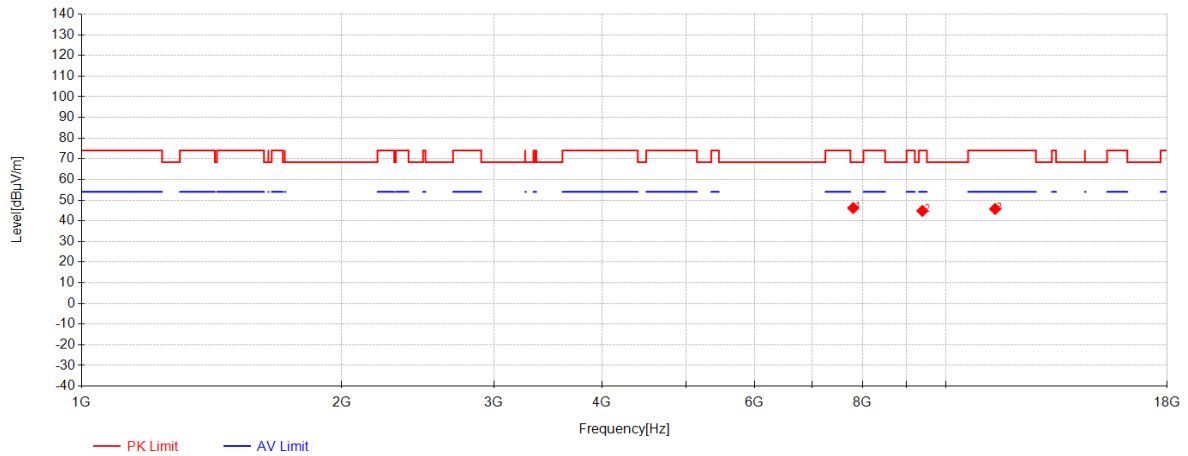


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7682.5833	43.54	36.78	-37.24	43.09	74.00	30.91	Horizontal
2	10475.55	37.68	38.14	-31.06	44.76	68.30	23.54	Horizontal
3	11880.4667	37.62	38.40	-29.13	46.89	74.00	27.11	Horizontal

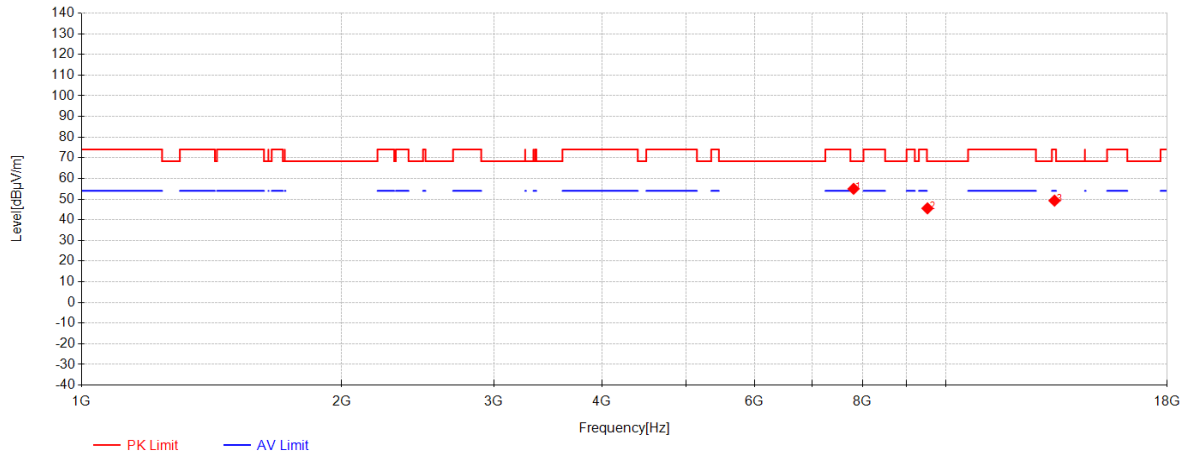


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7694.4667	41.70	36.79	-37.16	41.33	54.00	12.67	Vertical
2	7701.3667	49.10	36.80	-37.13	48.78	74.00	25.22	Vertical
3	9381.5167	42.33	37.71	-34.02	46.02	74.00	27.98	Vertical
4	11482.1833	37.75	38.40	-29.97	46.18	74.00	27.82	Vertical

802.11a_Channel 116

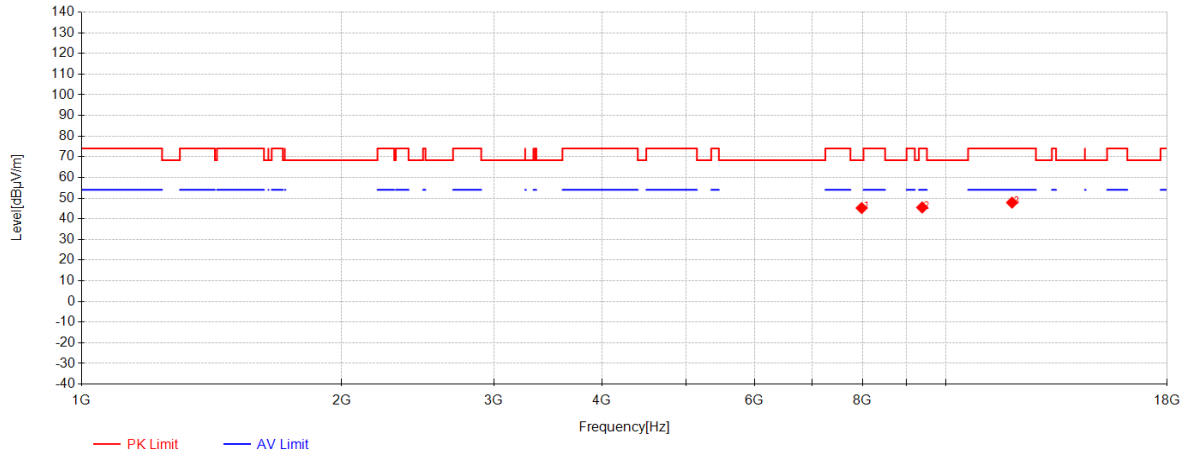


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7807.55	46.07	36.91	-36.80	46.18	68.30	22.12	Horizontal
2	9385.7333	41.10	37.72	-34.03	44.79	74.00	29.21	Horizontal
3	11392.1	37.21	38.40	-29.91	45.70	74.00	28.30	Horizontal

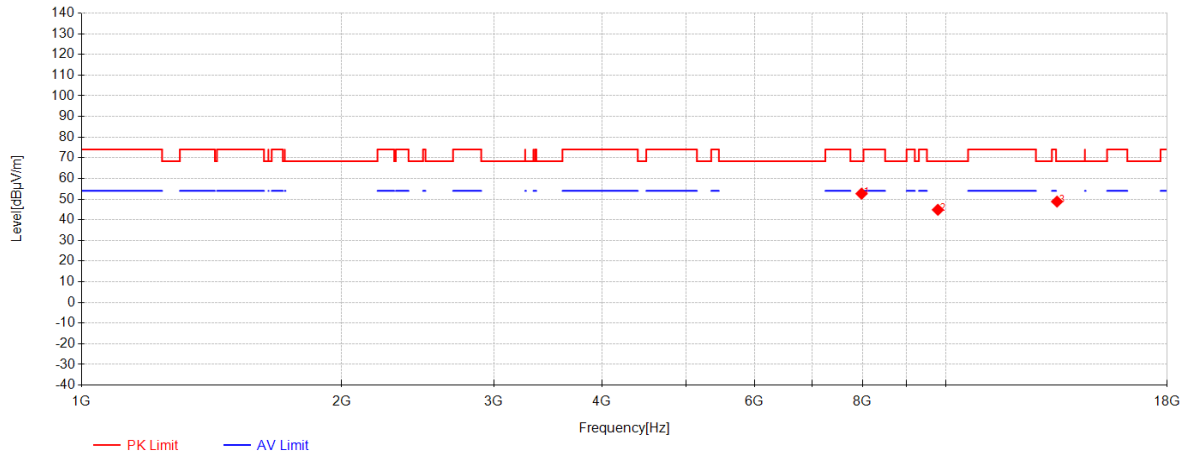


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7815.6	54.90	36.92	-36.81	55.00	68.30	13.30	Vertical
2	9514.5333	41.33	37.75	-33.56	45.53	68.30	22.77	Vertical
3	13344.8	38.62	39.84	-29.19	49.27	74.00	24.73	Vertical

802.11a_Channel 140

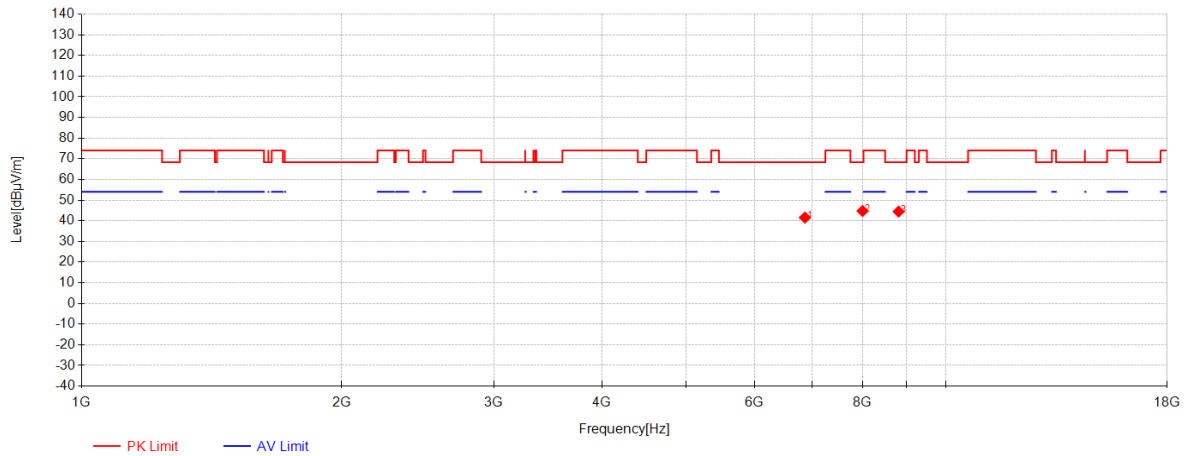


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7985.4167	44.94	37.09	-36.83	45.20	68.30	23.10	Horizontal
2	9382.2833	41.79	37.71	-34.02	45.48	74.00	28.52	Horizontal
3	11917.2667	38.42	38.40	-28.98	47.84	74.00	26.16	Horizontal

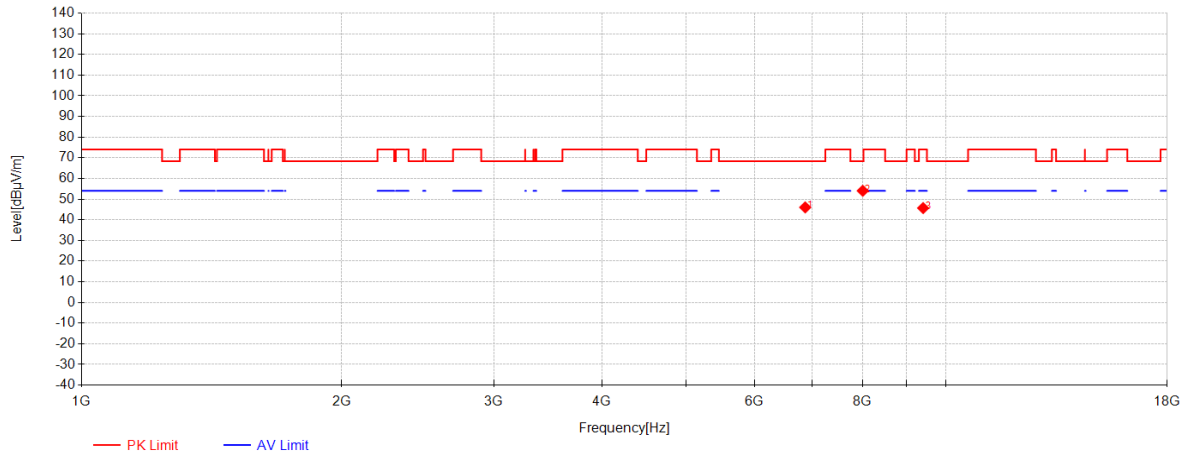


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7982.35	52.40	37.08	-36.83	52.65	68.30	15.65	Vertical
2	9781.7167	40.12	37.83	-33.12	44.84	68.30	23.46	Vertical
3	13433.7333	38.03	39.90	-29.12	48.81	68.30	19.49	Vertical

802.11a_Channel 144

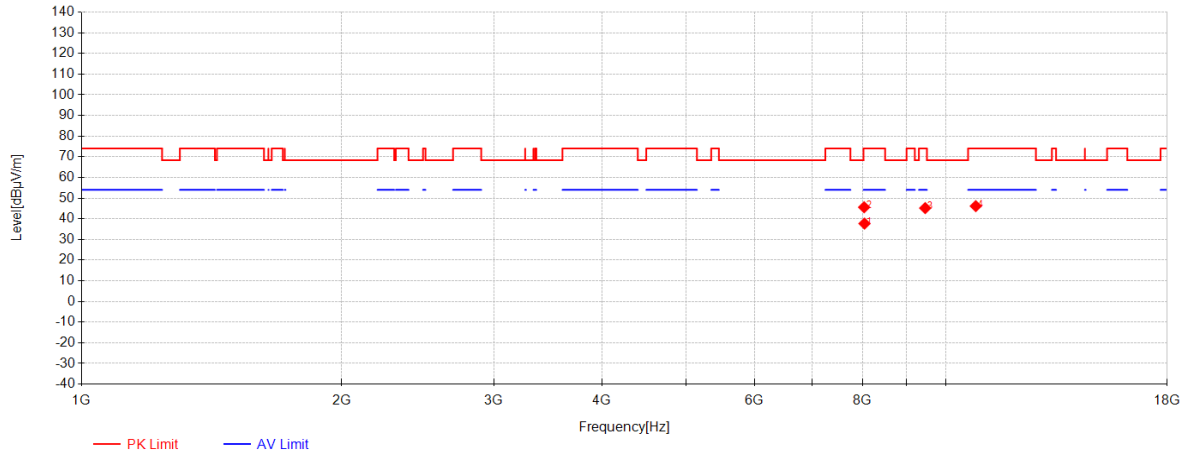


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6865.7	43.96	35.95	-38.35	41.56	68.30	26.74	Horizontal
2	8004.5833	44.46	37.10	-36.80	44.76	68.30	23.54	Horizontal
3	8810.35	41.81	37.51	-34.85	44.46	68.30	23.84	Horizontal

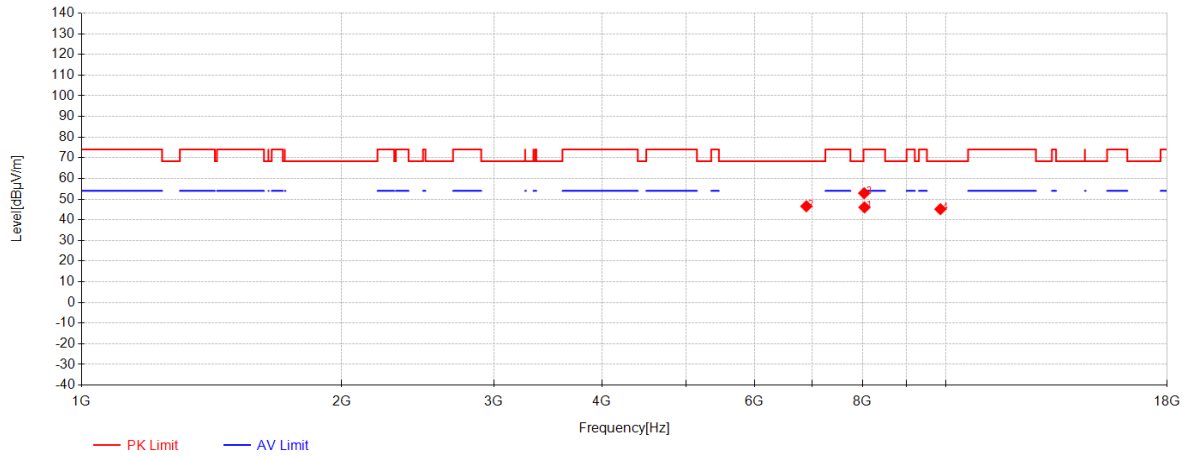


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6871.0667	48.40	35.95	-38.35	46.00	68.30	22.30	Vertical
2	8008.4167	53.72	37.10	-36.79	54.04	68.30	14.26	Vertical
3	9405.2833	41.97	37.72	-34.01	45.68	74.00	28.32	Vertical

802.11a_Channel 149

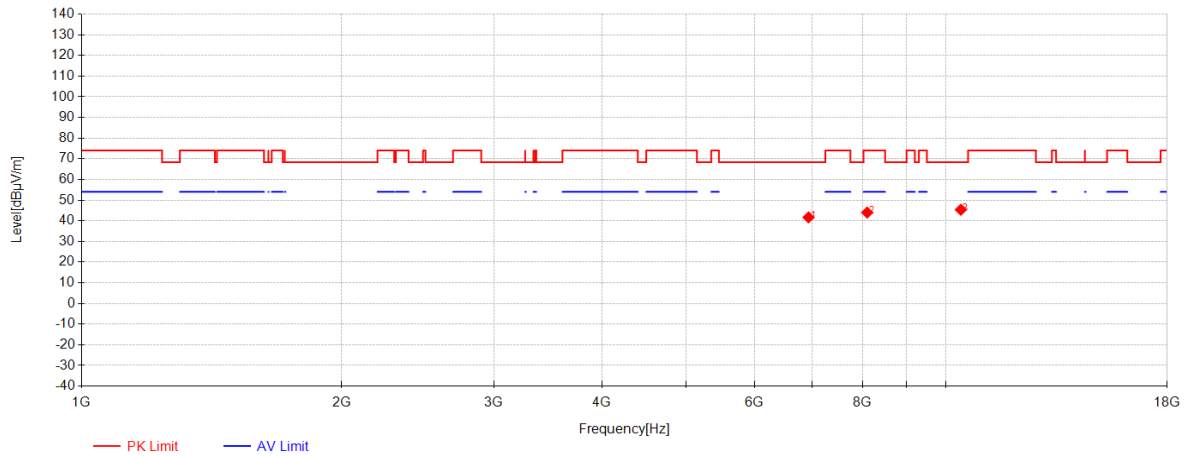


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8045.9833	37.25	37.12	-36.70	37.68	54.00	16.32	Horizontal
2	8038.3167	45.19	37.12	-36.71	45.59	74.00	28.41	Horizontal
3	9457.0333	41.22	37.74	-33.77	45.19	74.00	28.81	Horizontal
4	10820.1667	38.18	38.31	-30.36	46.13	74.00	27.87	Horizontal



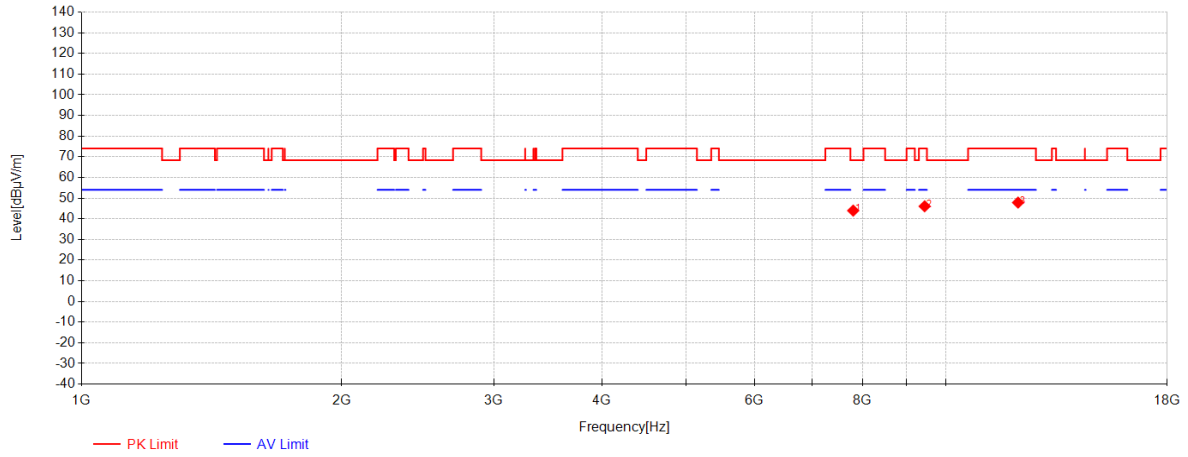
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8045.6	45.58	37.12	-36.70	46.01	54.00	7.99	Vertical
2	6891.7667	48.96	35.96	-38.36	46.56	68.30	21.74	Vertical
3	8038.3167	52.47	37.12	-36.71	52.87	74.00	21.13	Vertical
4	9848.0333	40.15	37.85	-32.85	45.15	68.30	23.15	Vertical

802.11a_Channel 157

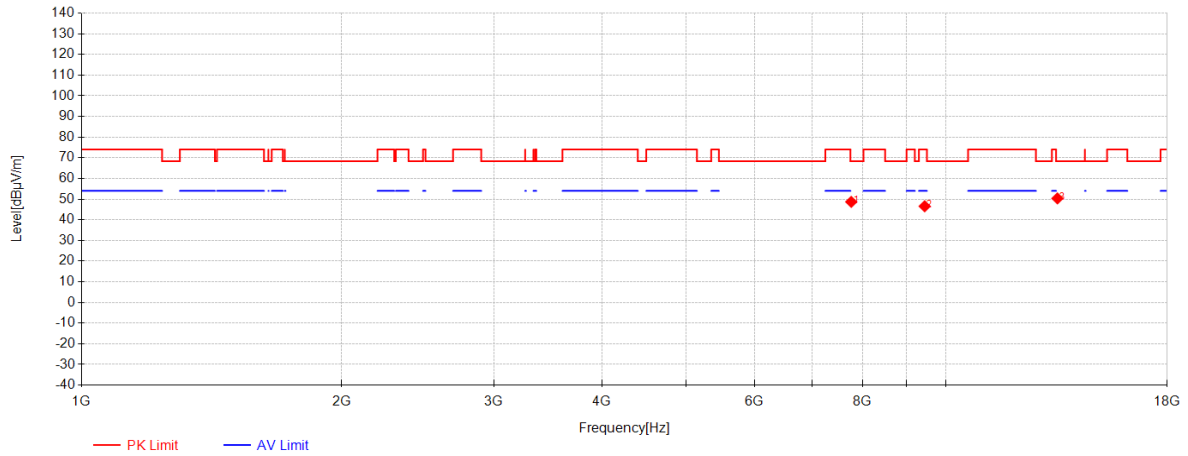


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6932.0167	43.85	35.97	-38.15	41.67	68.30	26.63	Horizontal
2	8103.1	43.40	37.15	-36.55	44.00	74.00	30.00	Horizontal
3	10398.1167	38.43	38.10	-31.18	45.35	68.30	22.95	Horizontal

802.11a_Channel 165

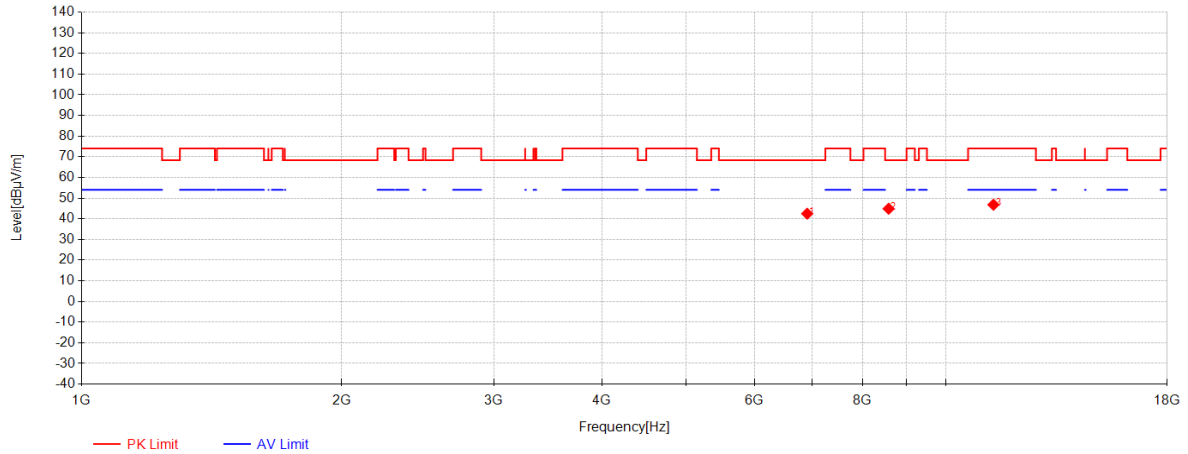


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7807.1667	43.85	36.91	-36.80	43.96	68.30	24.34	Horizontal
2	9443.2333	42.16	37.73	-33.83	46.06	74.00	27.94	Horizontal
3	12109.7	38.83	38.53	-29.50	47.86	74.00	26.14	Horizontal

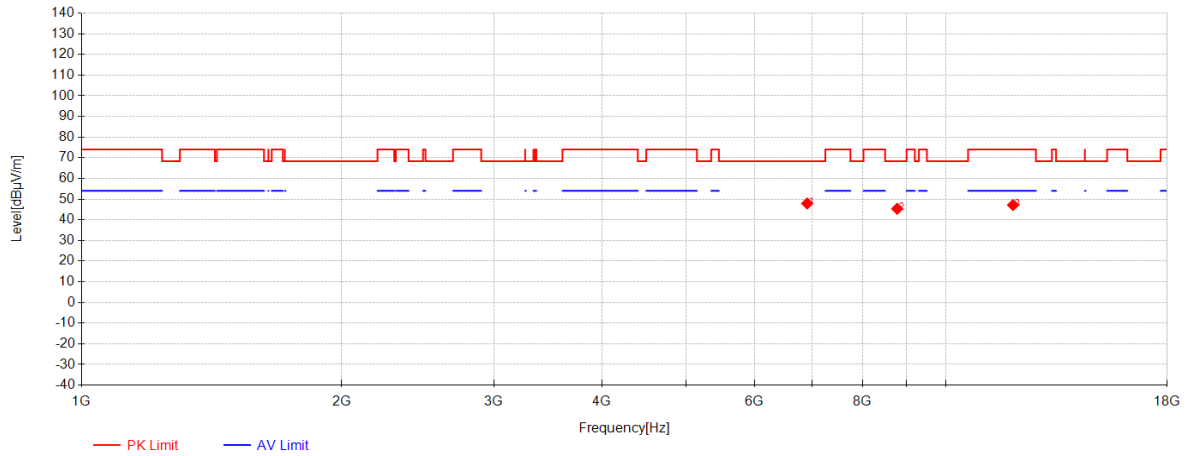


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7766.5333	48.71	36.87	-36.90	48.67	68.30	19.63	Vertical
2	9444	42.65	37.73	-33.83	46.55	74.00	27.45	Vertical
3	13447.5333	39.65	39.91	-29.21	50.35	68.30	17.95	Vertical

802.11ac20_Channel 36

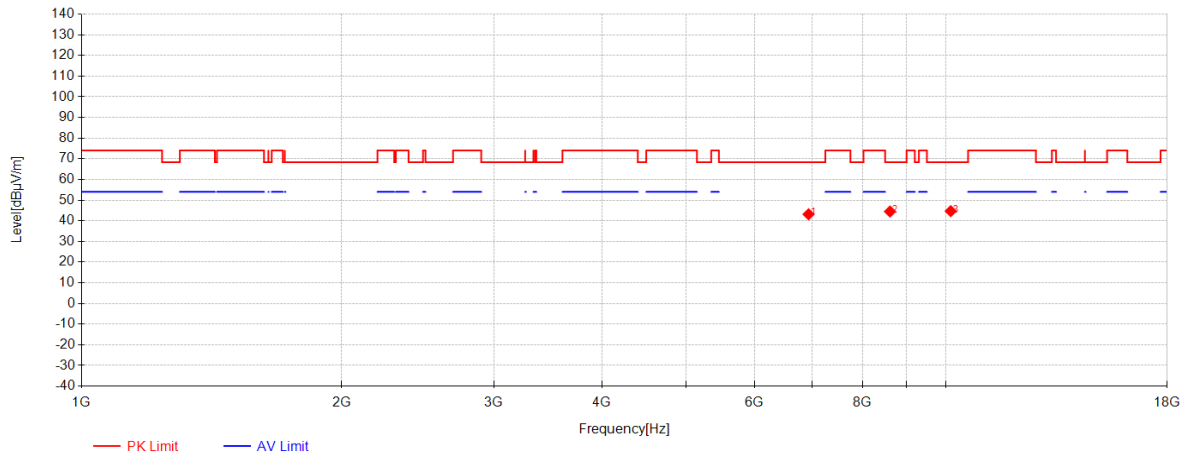


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6907.1	44.83	35.96	-38.31	42.48	68.30	25.82	Horizontal
2	8580.7333	42.90	37.39	-35.40	44.89	68.30	23.41	Horizontal
3	11341.8833	38.64	38.40	-30.23	46.81	74.00	27.19	Horizontal

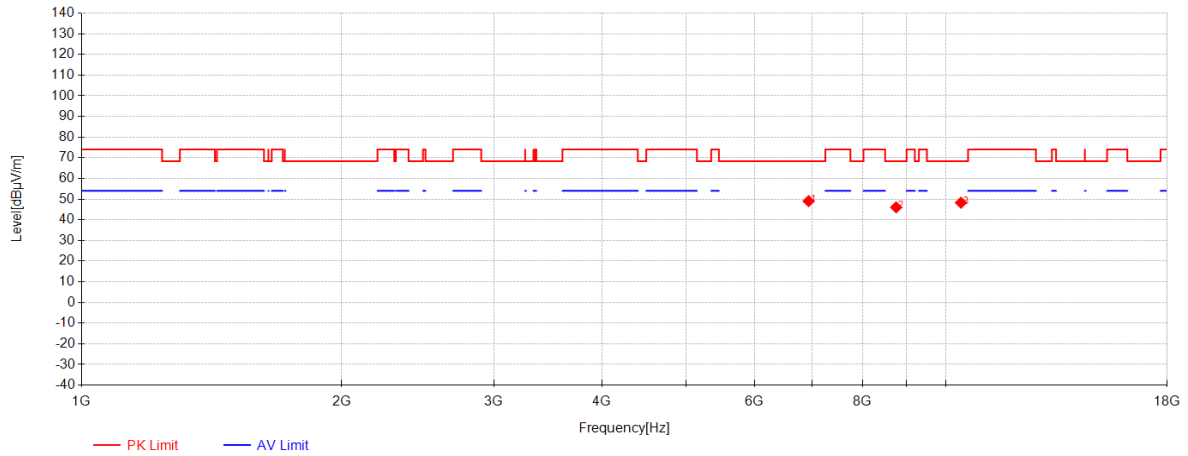


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.3333	50.26	35.96	-38.32	47.90	68.30	20.40	Vertical
2	8778.15	42.74	37.49	-34.89	45.34	68.30	22.96	Vertical
3	11947.55	37.83	38.40	-29.10	47.13	74.00	26.87	Vertical

802.11ac20_Channel 40

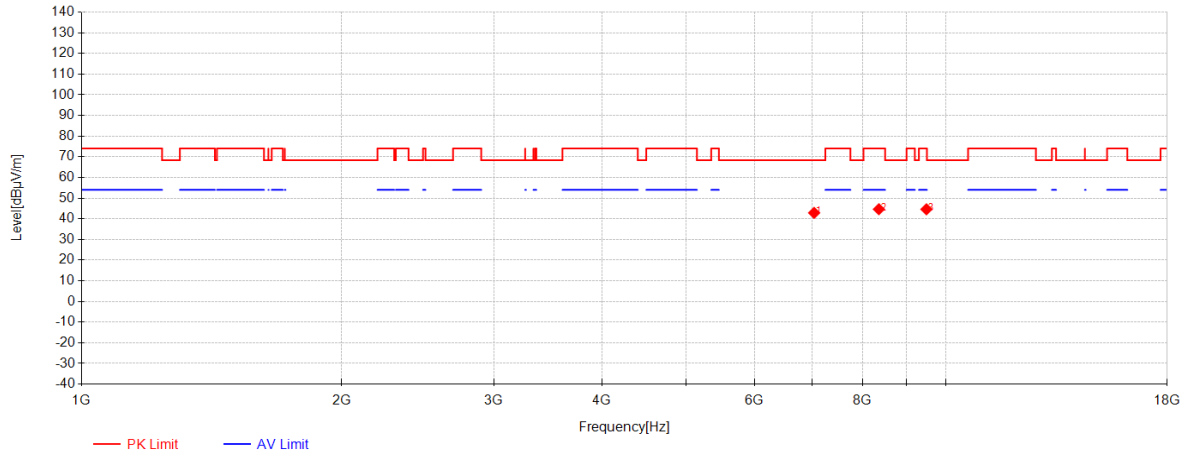


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6933.1667	45.34	35.97	-38.14	43.17	68.30	25.13	Horizontal
2	8611.0167	42.39	37.41	-35.30	44.50	68.30	23.80	Horizontal
3	10122.5	38.82	37.96	-32.10	44.69	68.30	23.61	Horizontal

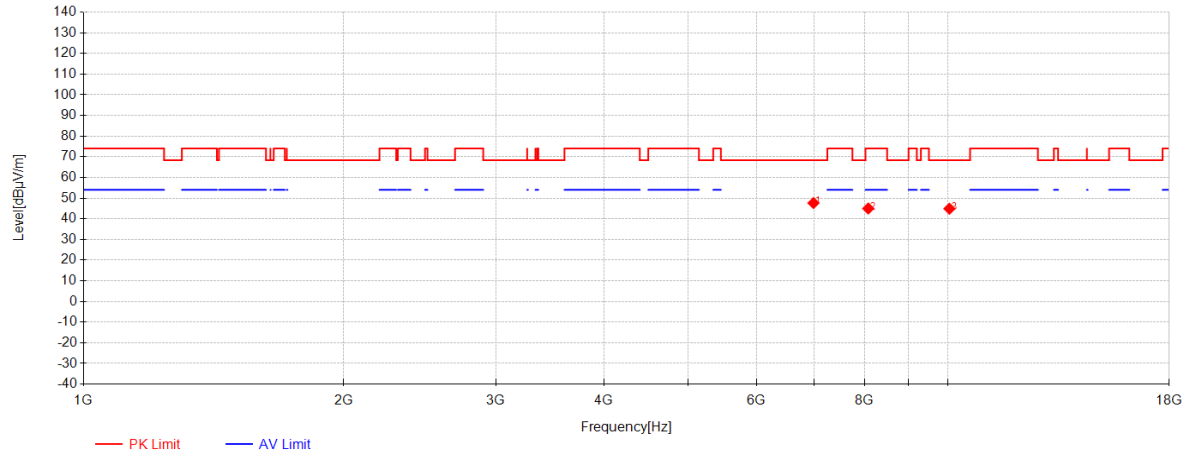


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6933.1667	51.21	35.97	-38.14	49.04	68.30	19.26	Vertical
2	8752.85	43.55	37.48	-34.99	46.04	68.30	22.26	Vertical
3	10402.3333	41.32	38.10	-31.16	48.26	68.30	20.04	Vertical

802.11ac20_Channel 48

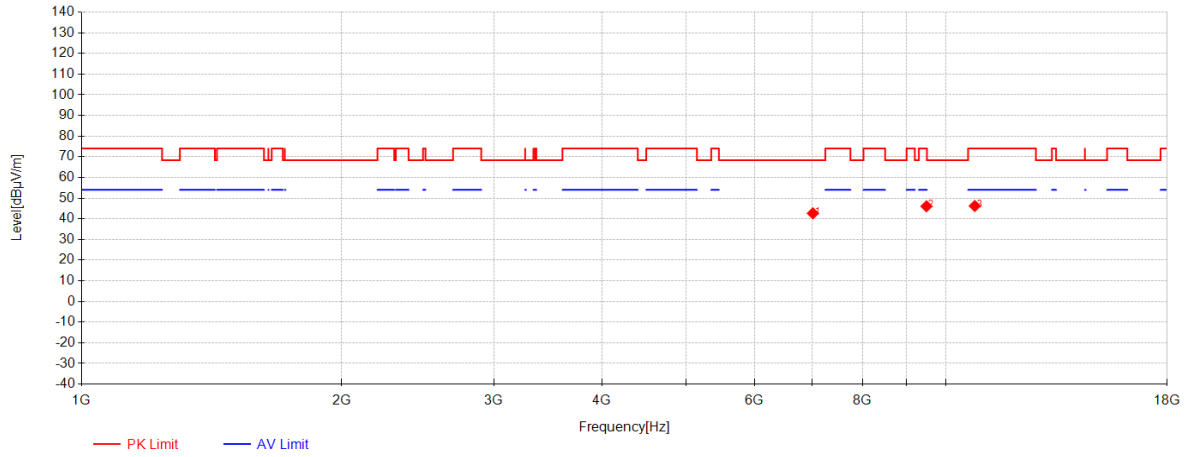


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7035.9	44.74	36.04	-37.91	42.87	68.30	25.43	Horizontal
2	8359.9333	43.21	37.28	-35.86	44.63	74.00	29.37	Horizontal
3	9488.4667	40.46	37.75	-33.62	44.59	74.00	29.41	Horizontal

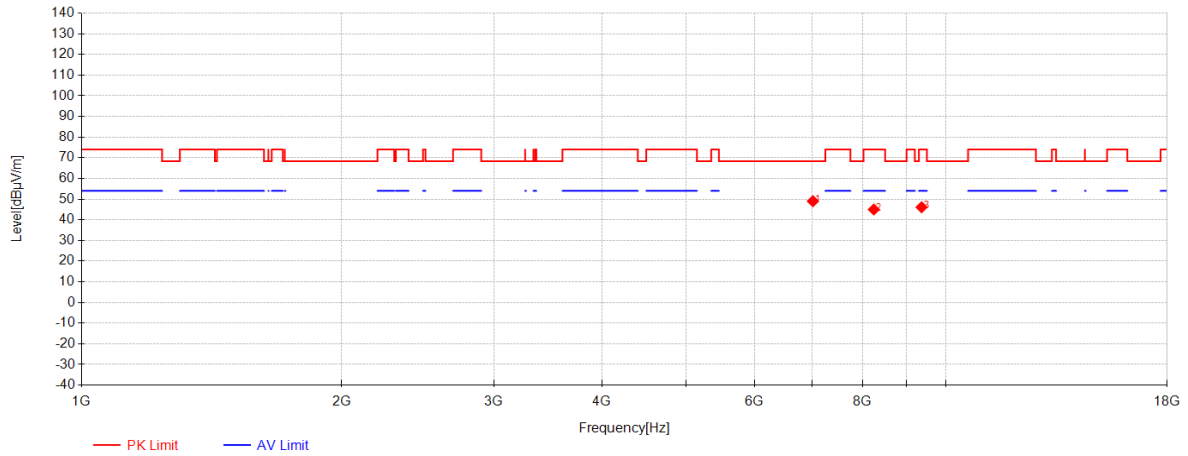


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.8333	49.43	35.99	-37.79	47.64	68.30	20.66	Vertical
2	8083.1667	44.44	37.14	-36.60	44.98	74.00	29.02	Vertical
3	10033.95	39.27	37.92	-32.29	44.89	68.30	23.41	Vertical

802.11ac20_Channel 52

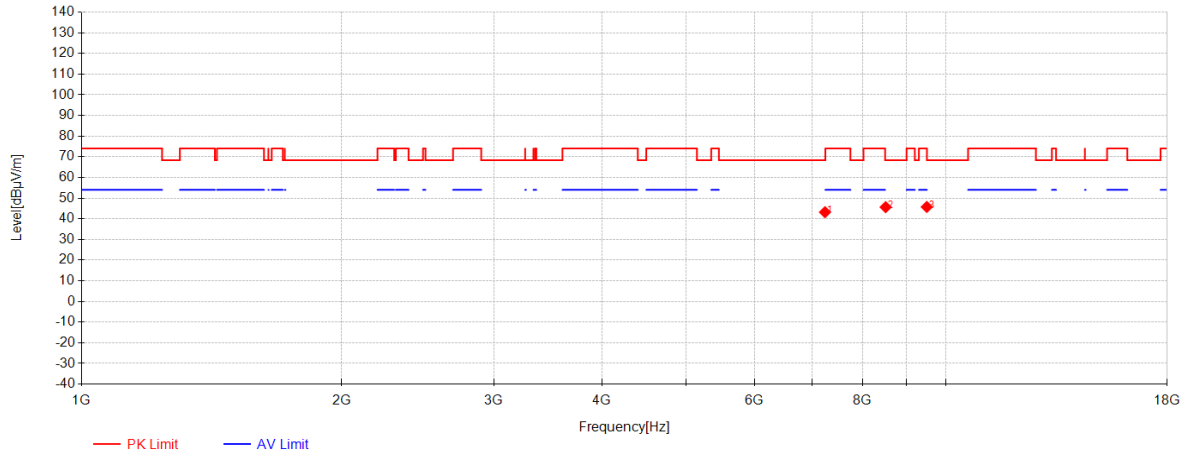


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7013.2833	44.40	36.02	-37.78	42.64	68.30	25.66	Horizontal
2	9488.85	41.93	37.75	-33.61	46.06	74.00	27.94	Horizontal
3	10792.1833	38.26	38.30	-30.35	46.21	74.00	27.79	Horizontal

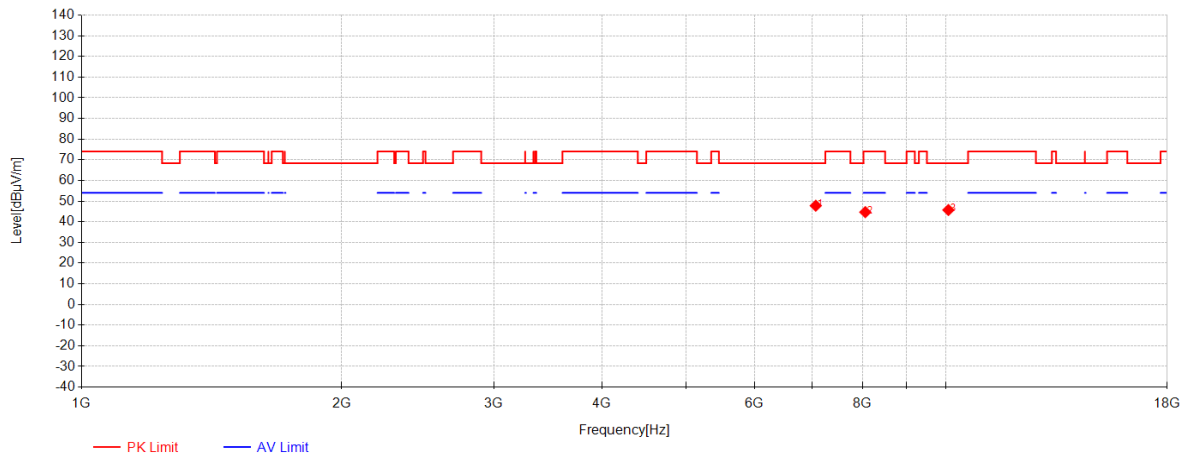


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7012.9	50.75	36.02	-37.77	48.99	68.30	19.31	Vertical
2	8248	43.85	37.22	-36.10	44.97	74.00	29.03	Vertical
3	9366.95	42.39	37.71	-34.01	46.09	74.00	27.91	Vertical

802.11ac20_Channel 60

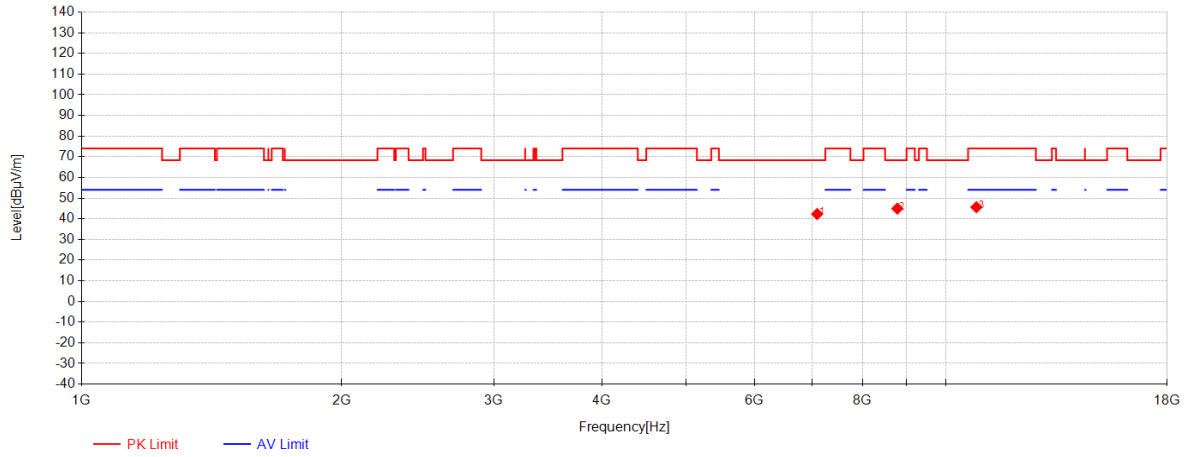


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7242.5167	44.64	36.29	-37.72	43.21	68.30	25.09	Horizontal
2	8512.5	44.00	37.36	-35.72	45.63	68.30	22.67	Horizontal
3	9497.6667	41.55	37.75	-33.57	45.73	74.00	28.27	Horizontal

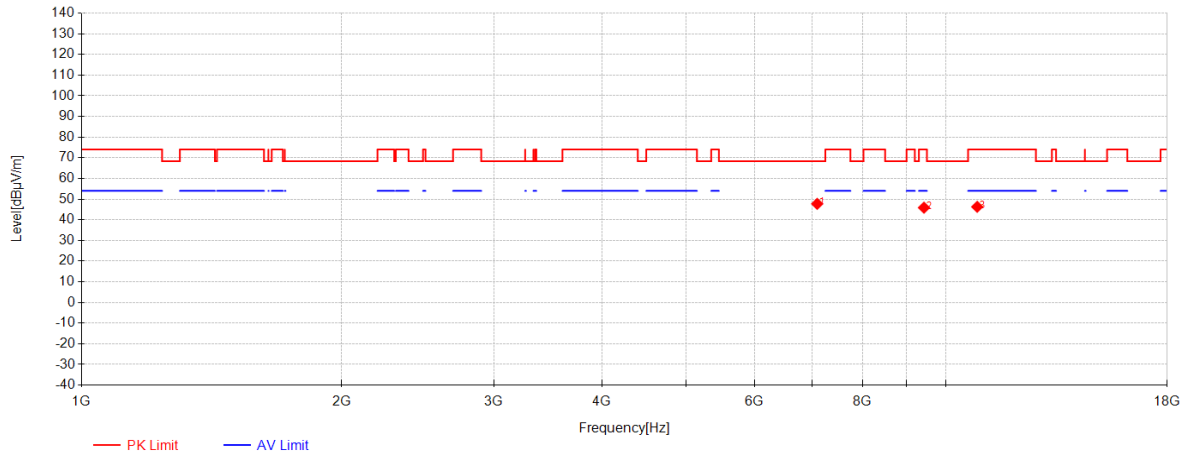


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7066.5667	49.80	36.08	-38.09	47.79	68.30	20.51	Vertical
2	8062.85	44.20	37.13	-36.65	44.68	74.00	29.32	Vertical
3	10060.4	40.07	37.93	-32.28	45.72	68.30	22.58	Vertical

802.11ac20_Channel 64

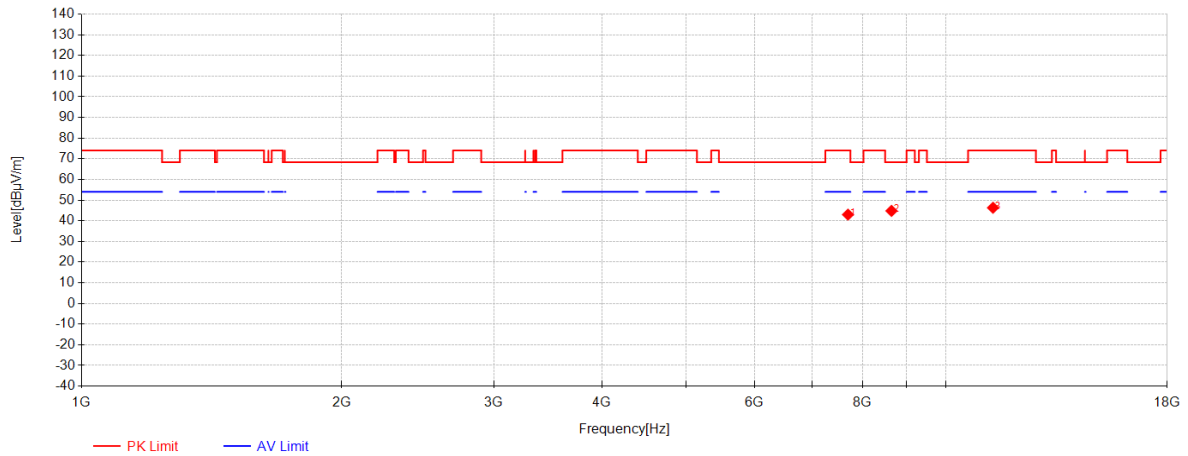


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7093.0167	44.44	36.11	-38.24	42.31	68.30	25.99	Horizontal
2	8780.8333	42.32	37.49	-34.88	44.93	68.30	23.37	Horizontal
3	10837.8	37.66	38.32	-30.36	45.62	74.00	28.38	Horizontal

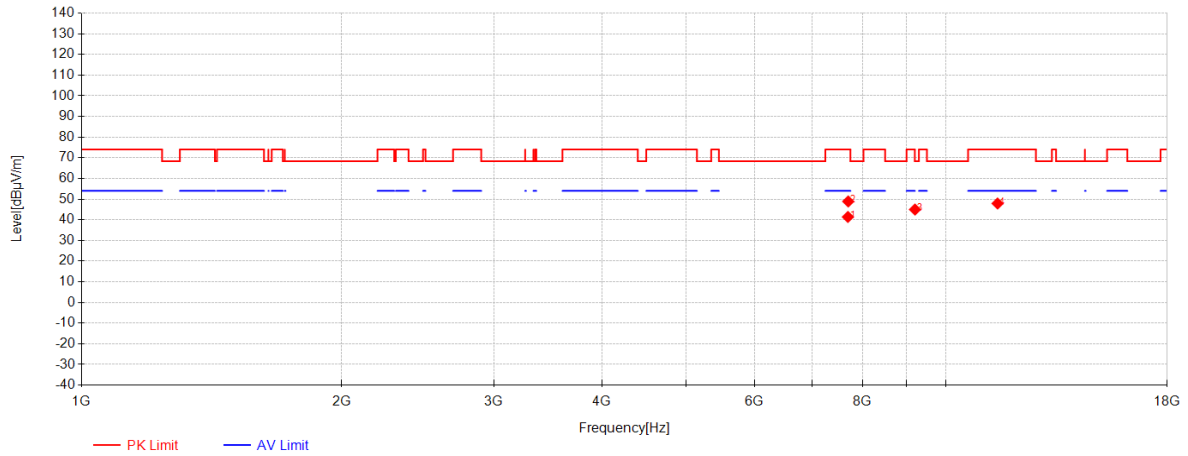


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7093.4	49.85	36.11	-38.24	47.72	68.30	20.58	Vertical
2	9426.75	42.06	37.73	-33.91	45.88	74.00	28.12	Vertical
3	10861.95	38.32	38.33	-30.37	46.28	74.00	27.72	Vertical

802.11ac20_Channel 100

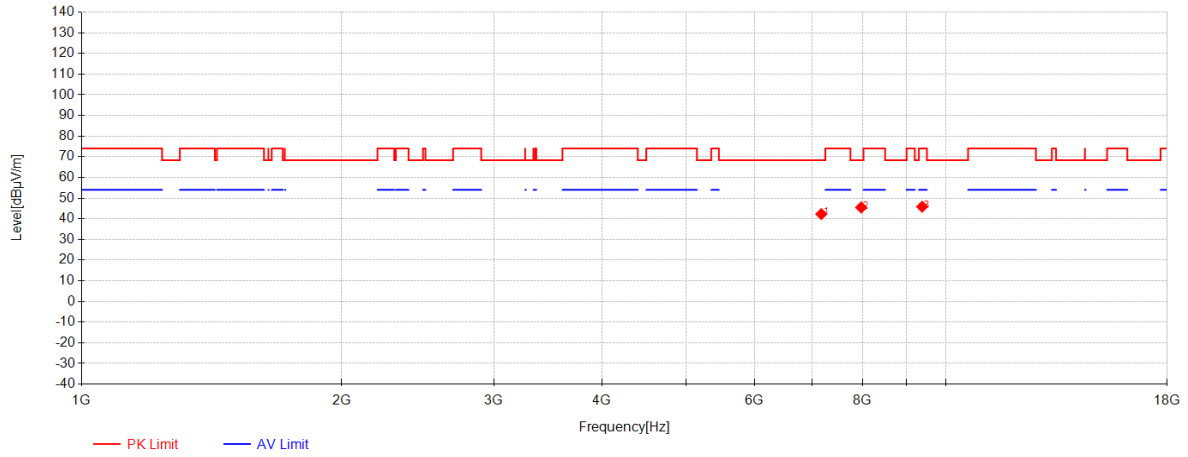


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7699.8333	43.33	36.80	-37.13	43.00	74.00	31.00	Horizontal
2	8645.9	42.65	37.42	-35.26	44.81	68.30	23.49	Horizontal
3	11328.85	38.24	38.40	-30.32	46.32	74.00	27.68	Horizontal

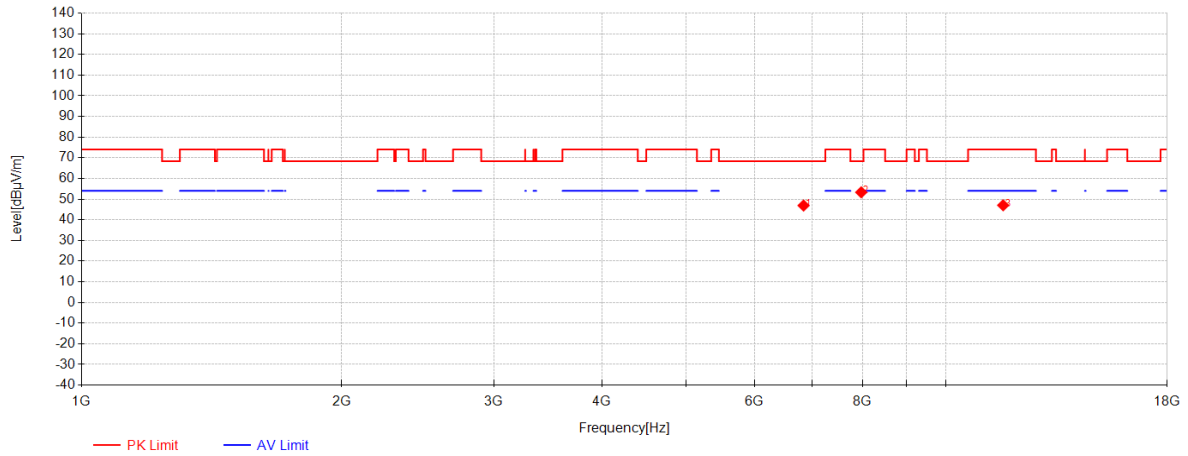


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7698.3	41.73	36.80	-37.14	41.39	54.00	12.61	Vertical
2	7704.8167	49.19	36.80	-37.11	48.88	74.00	25.12	Vertical
3	9203.65	41.61	37.66	-34.31	44.96	68.30	23.34	Vertical
4	11466.85	39.44	38.40	-29.95	47.89	74.00	26.11	Vertical

802.11ac20_Channel 140

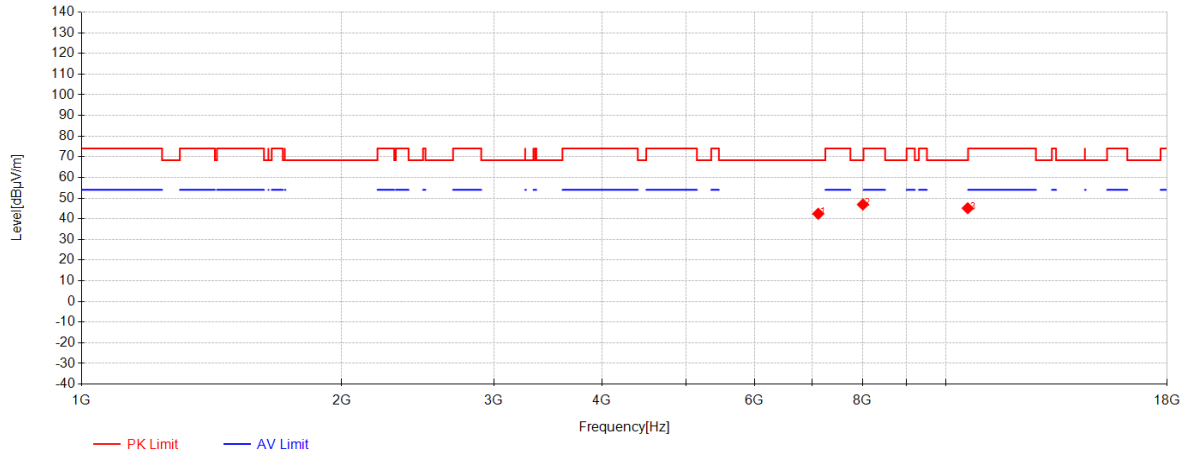


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7171.9833	44.04	36.21	-37.96	42.28	68.30	26.02	Horizontal
2	7976.2167	45.25	37.08	-36.84	45.49	68.30	22.81	Horizontal
3	9380.75	42.14	37.71	-34.02	45.83	74.00	28.17	Horizontal

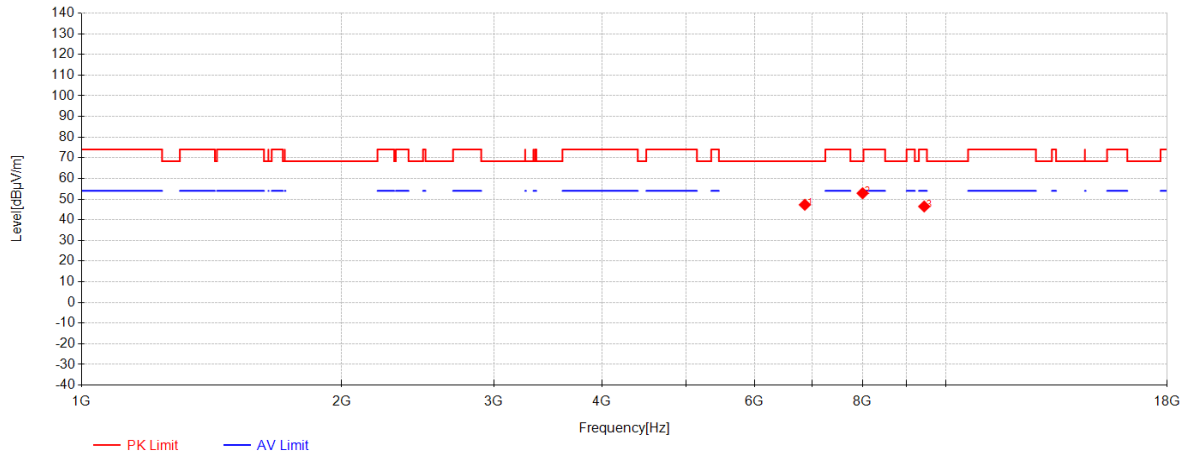


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6841.55	49.32	35.94	-38.34	46.91	68.30	21.39	Vertical
2	7976.2167	53.07	37.08	-36.84	53.31	68.30	14.99	Vertical
3	11638.5833	38.21	38.40	-29.59	47.02	74.00	26.98	Vertical

802.11ac20_Channel 144

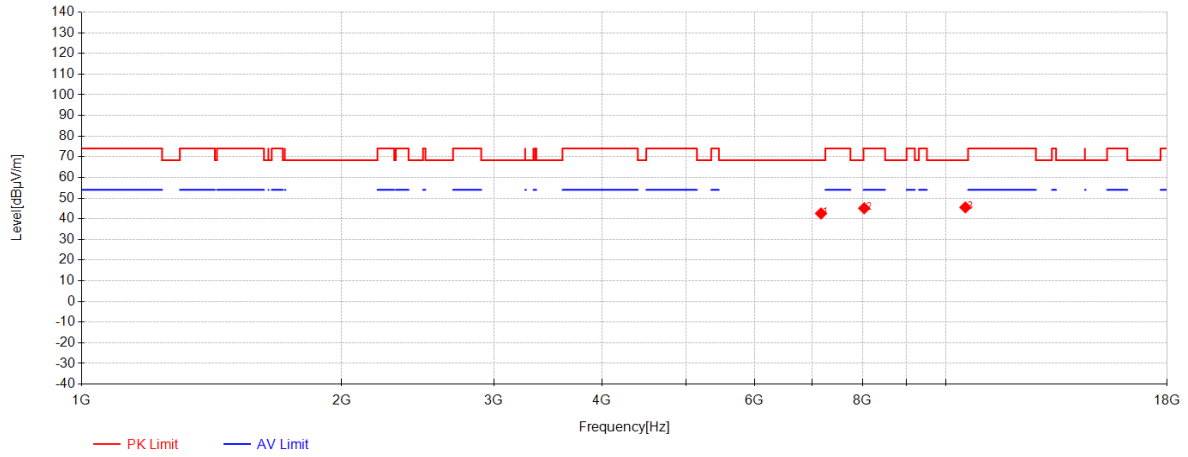


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7113.7167	44.52	36.14	-38.22	42.44	68.30	25.86	Horizontal
2	8011.8667	46.60	37.11	-36.78	46.93	68.30	21.37	Horizontal
3	10591.3167	38.10	38.20	-31.19	45.11	68.30	23.19	Horizontal

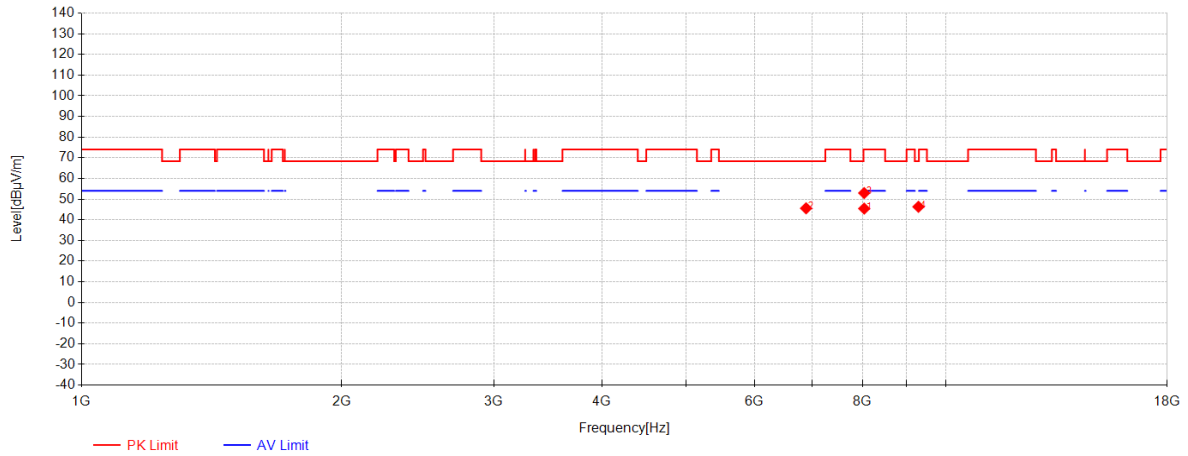


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6864.1667	49.68	35.95	-38.35	47.28	68.30	21.02	Vertical
2	8005.35	52.55	37.10	-36.80	52.86	68.30	15.44	Vertical
3	9432.1167	42.60	37.73	-33.89	46.44	74.00	27.56	Vertical

802.11ac20_Channel 149

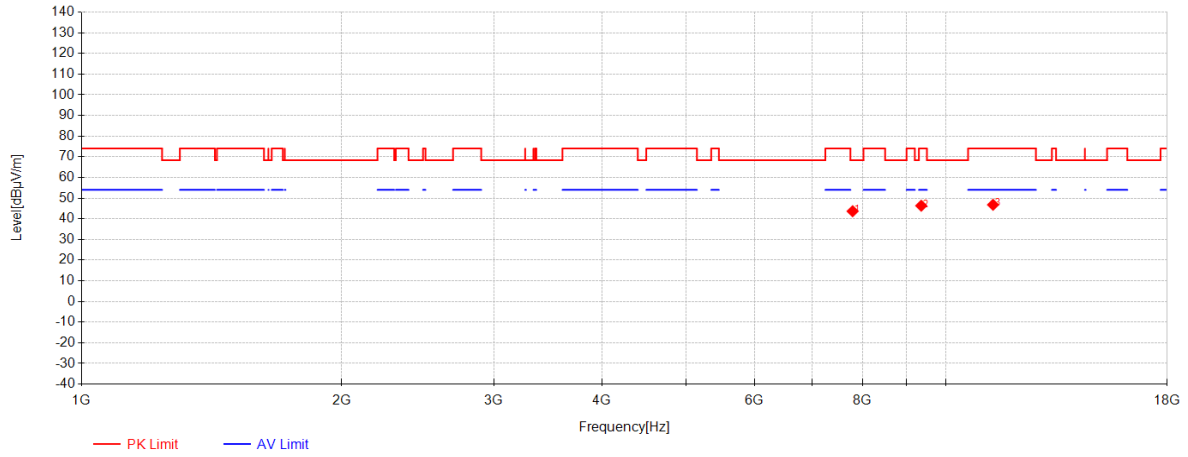


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7166.6167	44.39	36.20	-37.99	42.60	68.30	25.70	Horizontal
2	8038.7	44.69	37.12	-36.71	45.10	74.00	28.90	Horizontal
3	10525.3833	38.43	38.16	-31.07	45.52	68.30	22.78	Horizontal

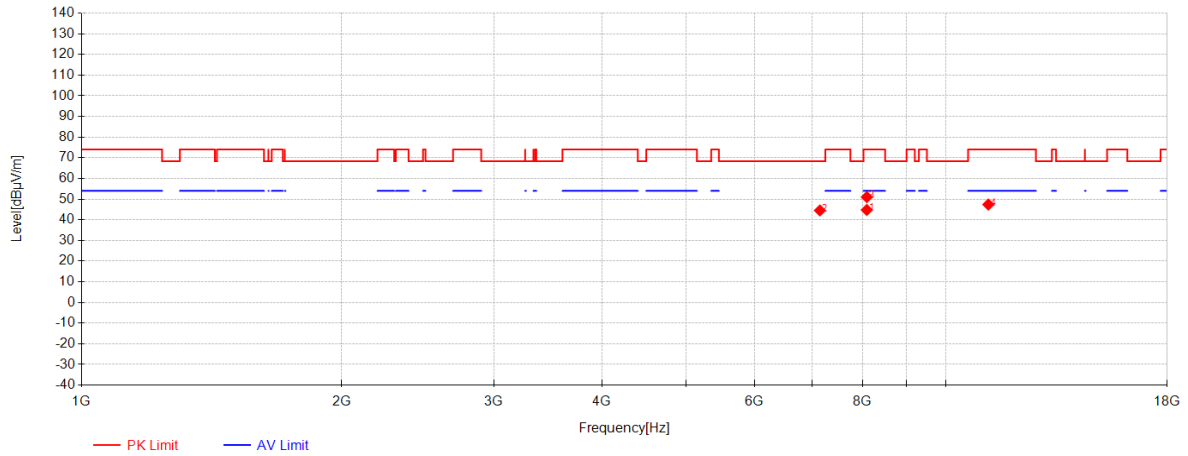


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8039.85	45.01	37.12	-36.71	45.42	54.00	8.58	Vertical
2	6887.1667	47.96	35.95	-38.36	45.56	68.30	22.74	Vertical
3	8039.0833	52.53	37.12	-36.71	52.94	74.00	21.06	Vertical
4	9289.1333	42.58	37.69	-33.98	46.29	68.30	22.01	Vertical

802.11ac20_Channel 157

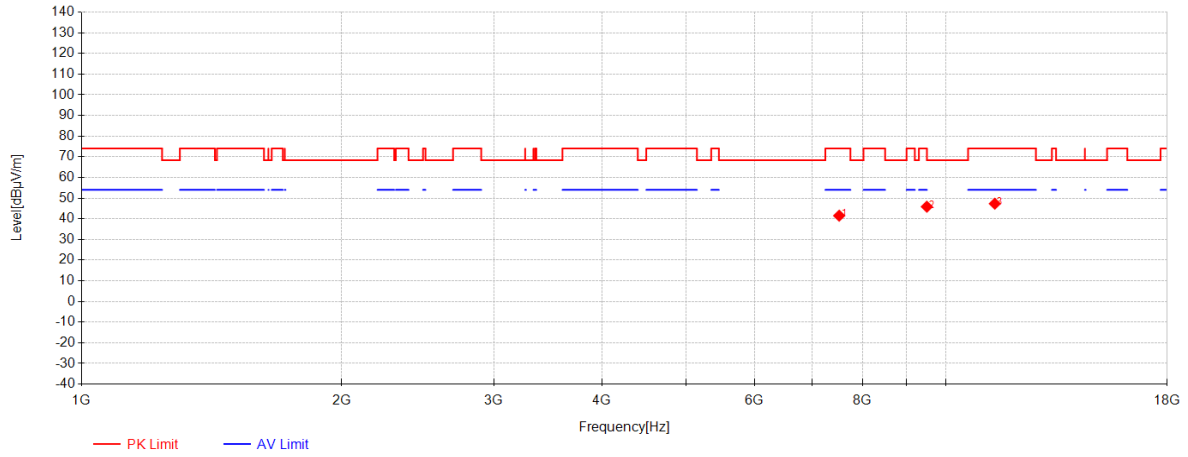


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7795.6667	43.58	36.90	-36.80	43.67	68.30	24.63	Horizontal
2	9358.1333	42.62	37.71	-34.00	46.33	74.00	27.67	Horizontal
3	11329.6167	38.70	38.40	-30.31	46.79	74.00	27.21	Horizontal

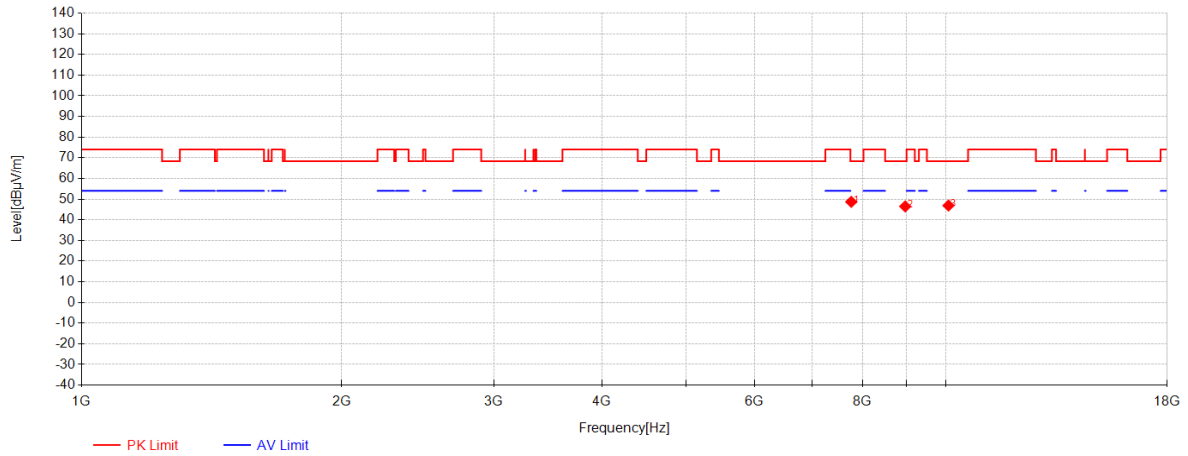


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8095.05	44.20	37.15	-36.57	44.78	54.00	9.22	Vertical
2	7145.5333	46.44	36.17	-38.08	44.53	68.30	23.77	Vertical
3	8096.5833	50.42	37.15	-36.57	51.00	74.00	23.00	Vertical
4	11189.7	39.00	38.40	-30.00	47.40	74.00	26.60	Vertical

802.11ac20_Channel 165

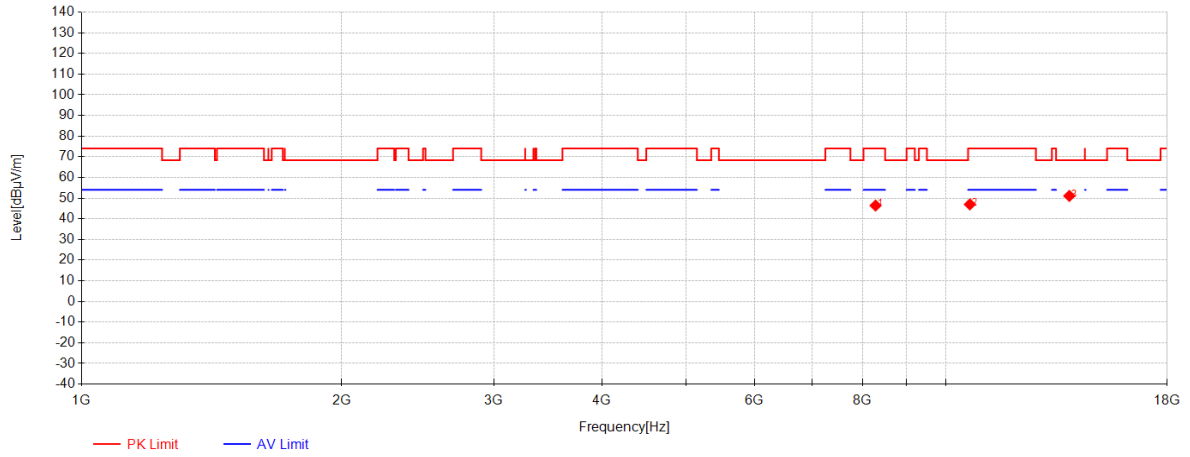


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7521.5833	42.54	36.62	-37.64	41.52	74.00	32.48	Horizontal
2	9498.4333	41.68	37.75	-33.57	45.86	74.00	28.14	Horizontal
3	11383.2833	38.88	38.40	-29.97	47.31	74.00	26.69	Horizontal

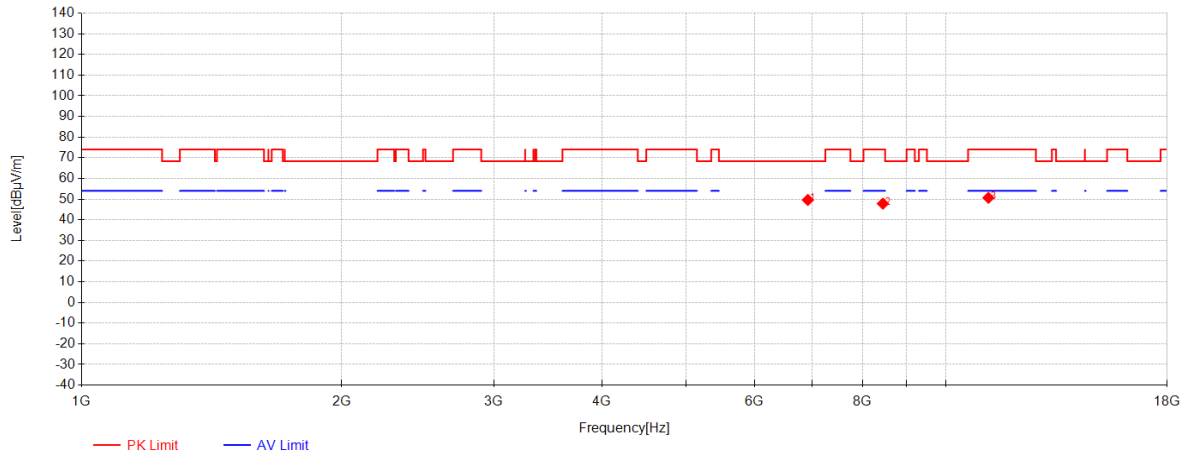


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7767.3	48.71	36.87	-36.90	48.68	68.30	19.62	Vertical
2	8967.1333	43.55	37.58	-34.67	46.47	68.30	21.83	Vertical
3	10062.3167	41.24	37.93	-32.28	46.89	68.30	21.41	Vertical

802.11ac40_Channel 38

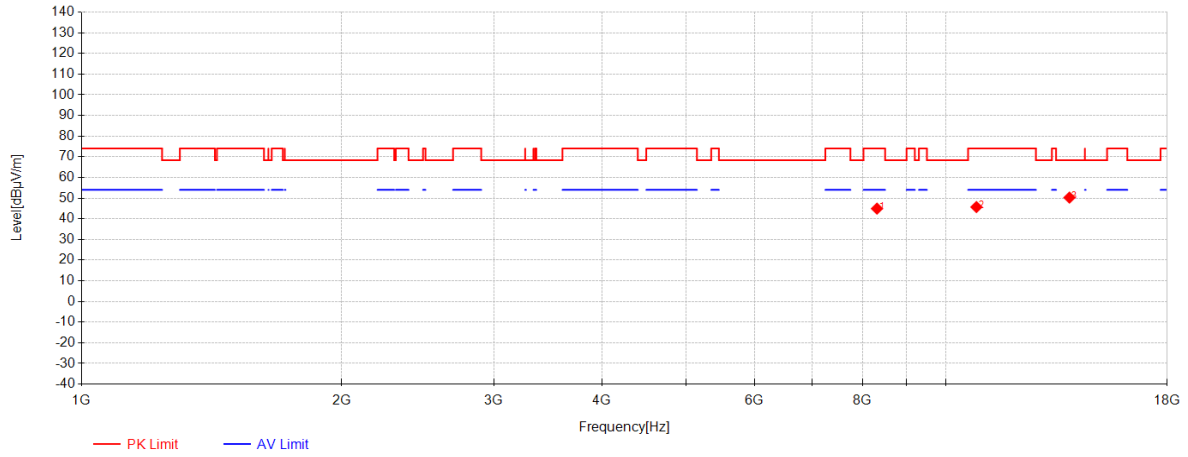


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8286.7167	45.18	37.24	-36.00	46.42	74.00	27.58	Horizontal
2	10651.5	39.48	38.23	-30.74	46.97	74.00	27.03	Horizontal
3	13883.3833	39.40	40.22	-28.55	51.07	68.30	17.23	Horizontal

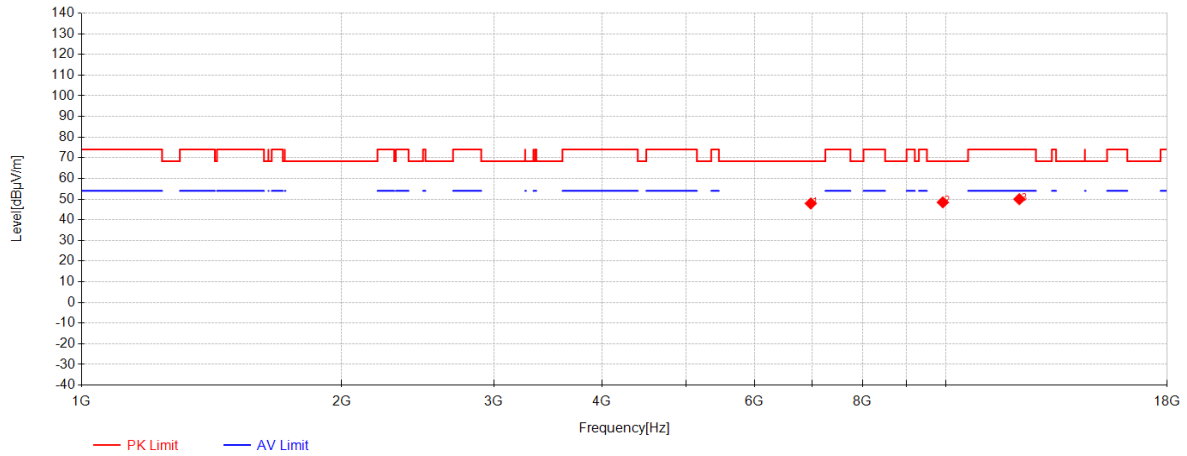


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6919.75	51.85	35.97	-38.23	49.59	68.30	18.71	Vertical
2	8449.6333	46.27	37.32	-35.79	47.81	74.00	26.19	Vertical
3	11191.2333	42.23	38.40	-29.99	50.64	74.00	23.36	Vertical

802.11ac40_Channel 46

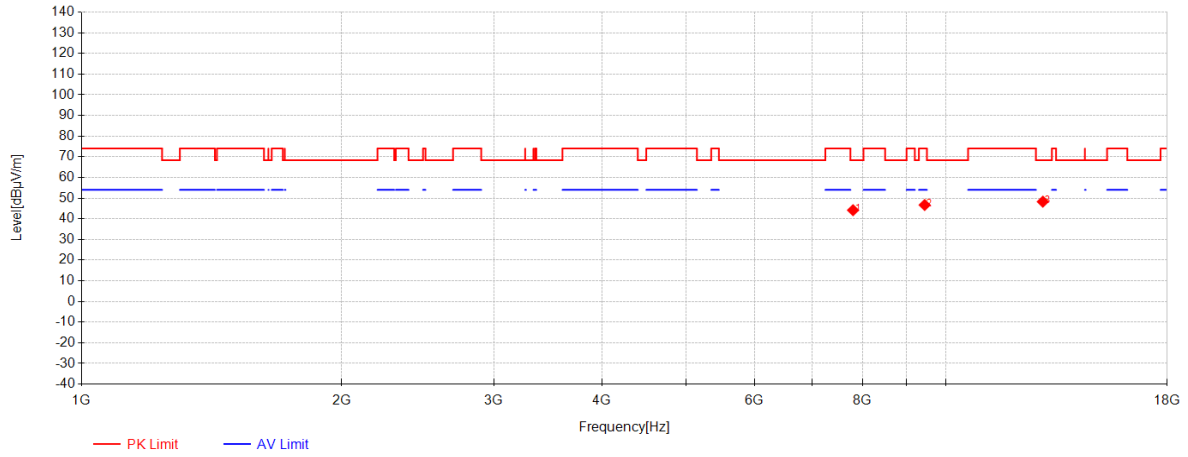


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8318.5333	43.61	37.26	-35.94	44.93	74.00	29.07	Horizontal
2	10840.4833	37.73	38.32	-30.36	45.69	74.00	28.31	Horizontal
3	13886.0667	38.57	40.22	-28.53	50.26	68.30	18.04	Horizontal

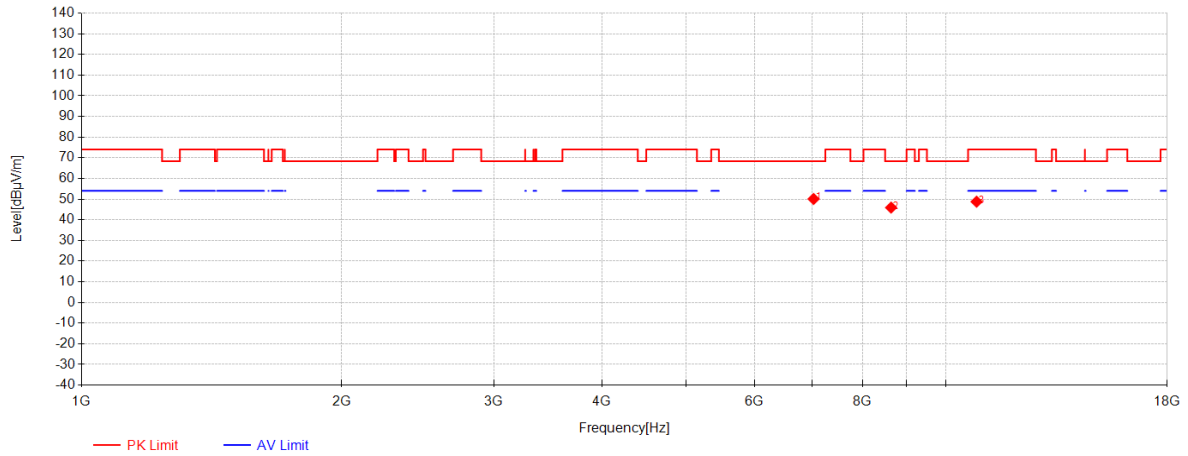


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6973.4167	49.81	35.99	-37.88	47.92	68.30	20.38	Vertical
2	9911.6667	43.11	37.87	-32.55	48.44	68.30	19.86	Vertical
3	12151.4833	40.90	38.58	-29.49	49.99	74.00	24.01	Vertical

802.11ac40_Channel 54

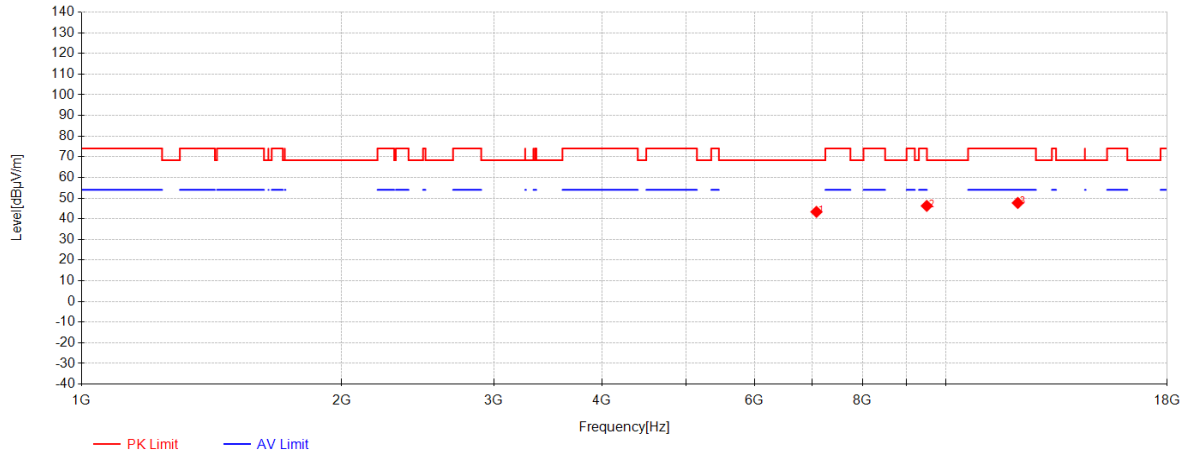


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7804.1	44.05	36.90	-36.80	44.16	68.30	24.14	Horizontal
2	9444	42.77	37.73	-33.83	46.67	74.00	27.33	Horizontal
3	12936.55	38.34	39.52	-29.57	48.30	68.30	20.00	Horizontal

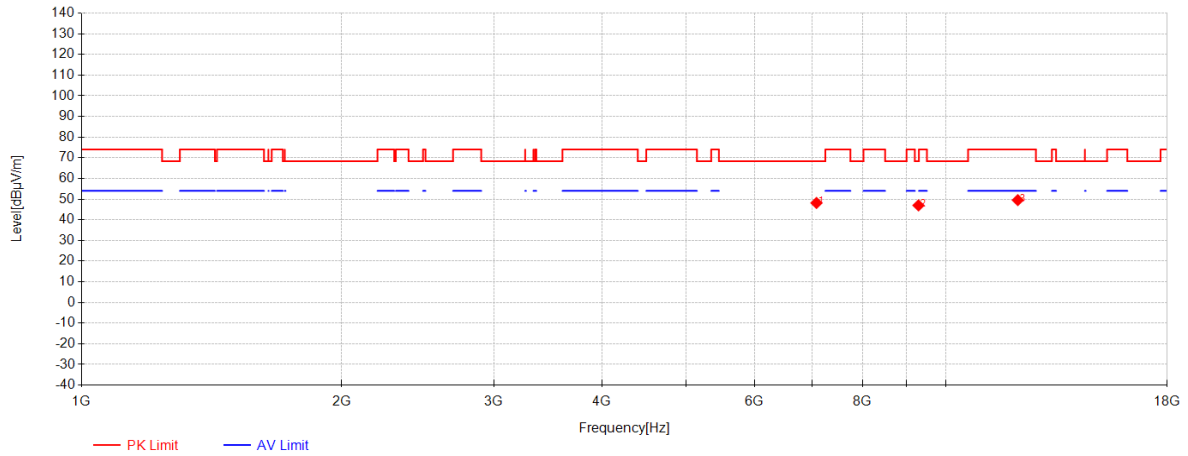


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7026.7	51.90	36.03	-37.85	50.08	68.30	18.22	Vertical
2	8636.7	43.76	37.42	-35.27	45.91	68.30	22.39	Vertical
3	10844.3167	40.81	38.32	-30.36	48.77	74.00	25.23	Vertical

802.11ac40_Channel 62

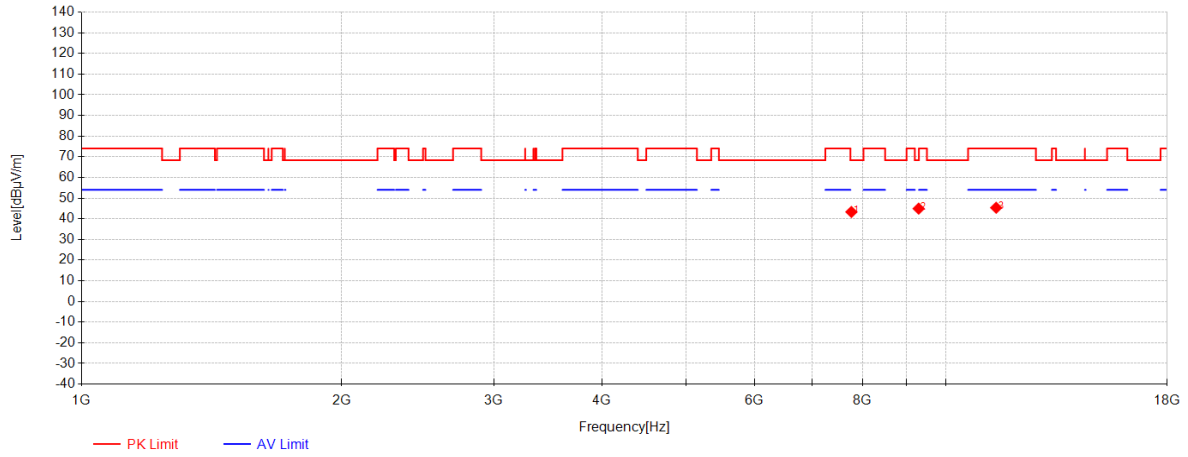


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7079.9833	45.44	36.10	-38.16	43.37	68.30	24.93	Horizontal
2	9496.5167	42.07	37.75	-33.58	46.24	74.00	27.76	Horizontal
3	12101.65	38.64	38.52	-29.50	47.66	74.00	26.34	Horizontal

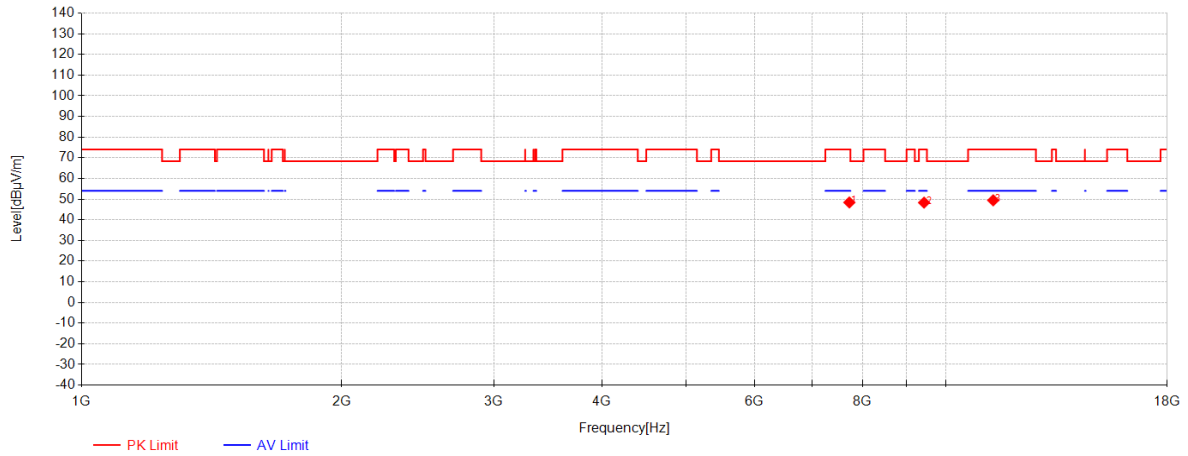


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7079.9833	50.22	36.10	-38.16	48.15	68.30	20.15	Vertical
2	9289.5167	43.27	37.69	-33.98	46.98	68.30	21.32	Vertical
3	12101.65	40.51	38.52	-29.50	49.53	74.00	24.47	Vertical

802.11ac40_Channel 102

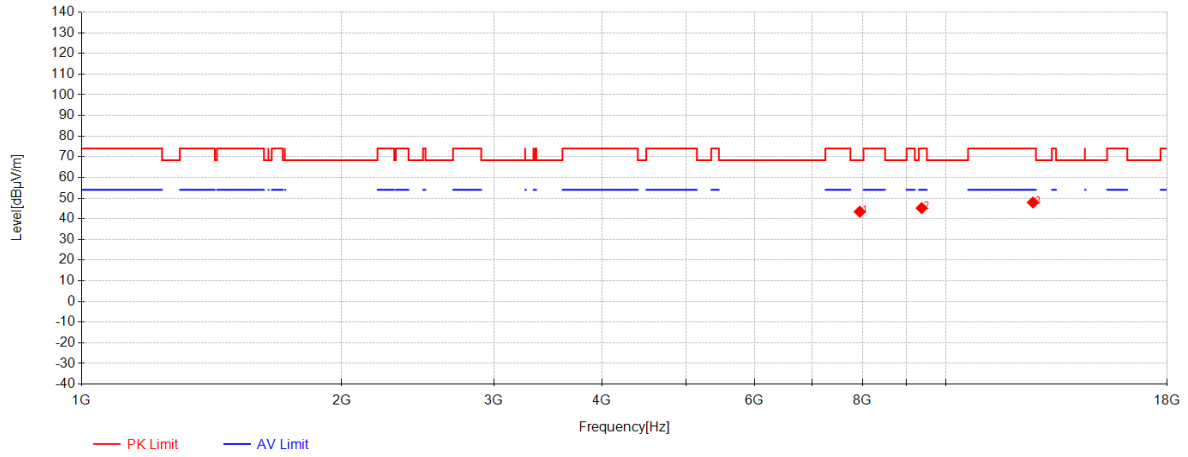


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7769.9833	43.34	36.87	-36.89	43.32	68.30	24.98	Horizontal
2	9294.1167	41.19	37.69	-33.96	44.92	68.30	23.38	Horizontal
3	11424.6833	36.84	38.40	-29.89	45.35	74.00	28.65	Horizontal

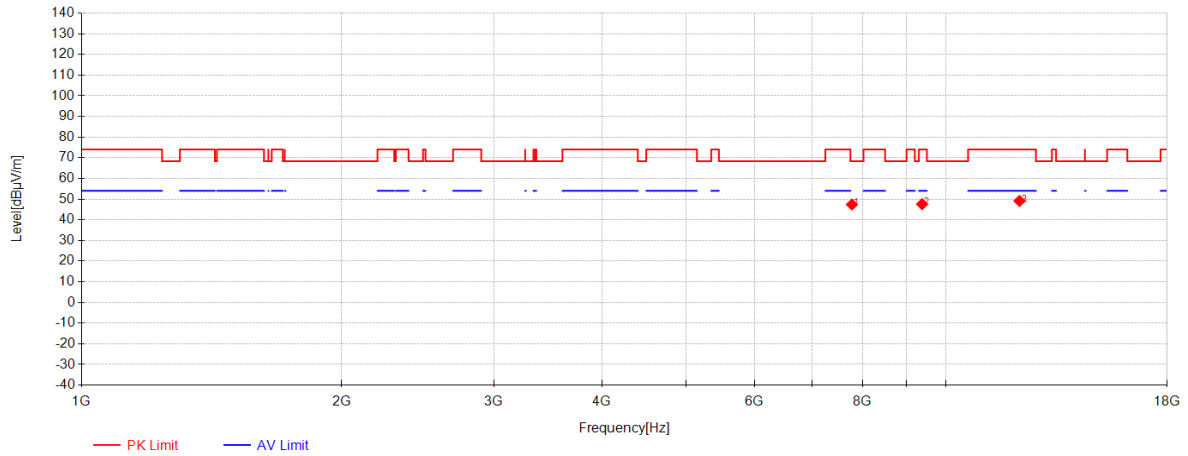


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7727.8167	48.61	36.83	-37.04	48.40	74.00	25.60	Vertical
2	9428.2833	44.49	37.73	-33.90	48.31	74.00	25.69	Vertical
3	11335.75	41.29	38.40	-30.27	49.42	74.00	24.58	Vertical

802.11ac40_Channel 110

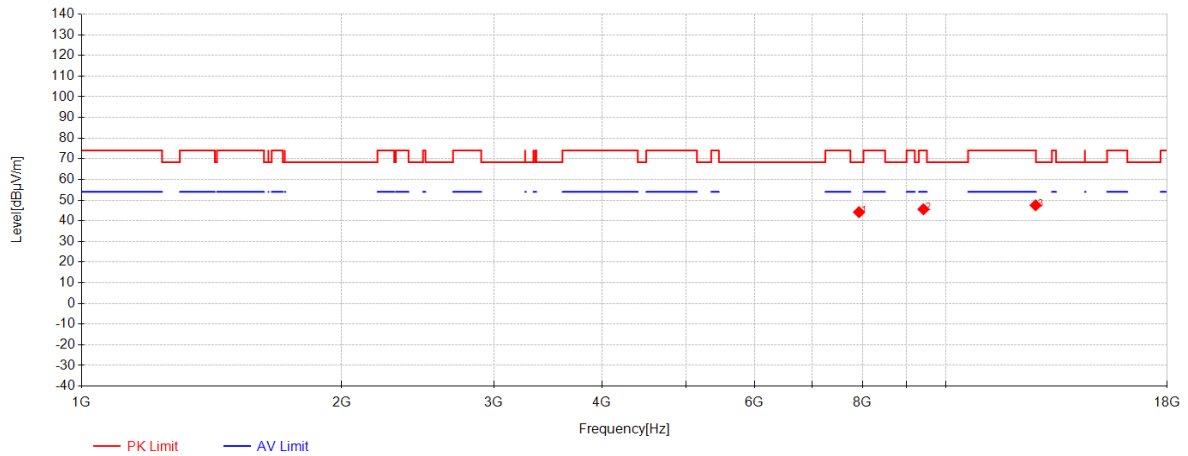


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7945.1667	43.27	37.05	-36.88	43.43	68.30	24.87	Horizontal
2	9369.25	41.48	37.71	-34.01	45.18	74.00	28.82	Horizontal
3	12600.3667	38.62	39.12	-29.85	47.89	74.00	26.11	Horizontal

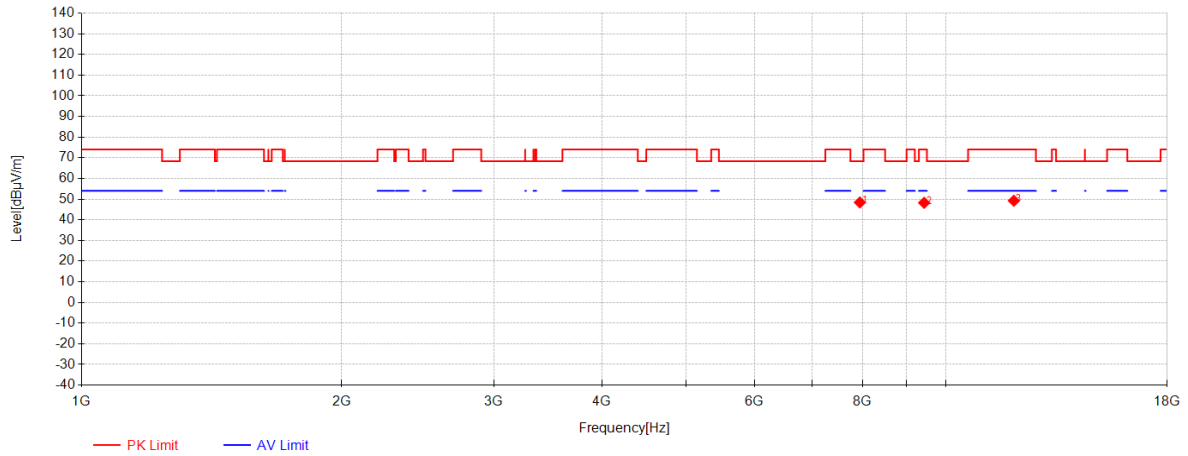


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7780.7167	47.35	36.88	-36.86	47.38	68.30	20.92	Vertical
2	9379.9833	43.88	37.71	-34.02	47.57	74.00	26.43	Vertical
3	12156.4667	40.03	38.59	-29.49	49.13	74.00	24.87	Vertical

802.11ac40_Channel 134

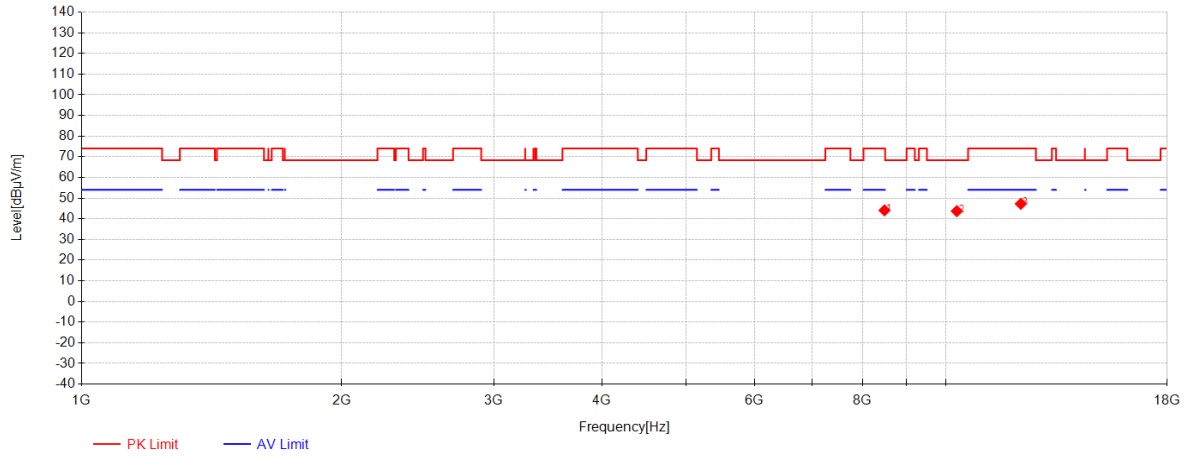


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7929.0667	44.04	37.03	-36.90	44.17	68.30	24.13	Horizontal
2	9413.3333	41.82	37.72	-33.98	45.57	74.00	28.43	Horizontal
3	12688.5333	37.84	39.23	-29.58	47.49	74.00	26.51	Horizontal

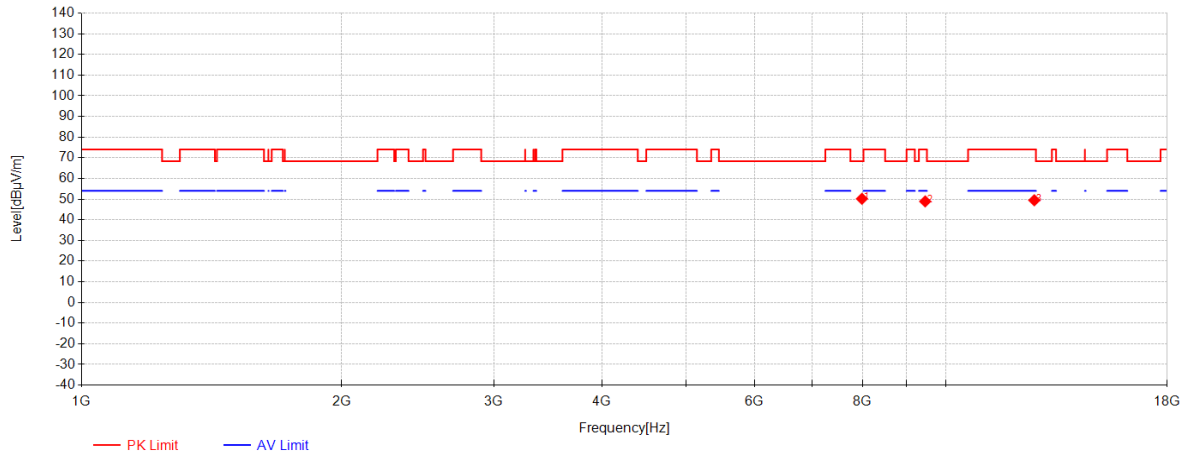


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7947.0833	48.23	37.05	-36.88	48.40	68.30	19.90	Vertical
2	9430.5833	44.40	37.73	-33.89	48.24	74.00	25.76	Vertical
3	11975.15	40.00	38.40	-29.20	49.20	74.00	24.80	Vertical

802.11ac40_Channel 142

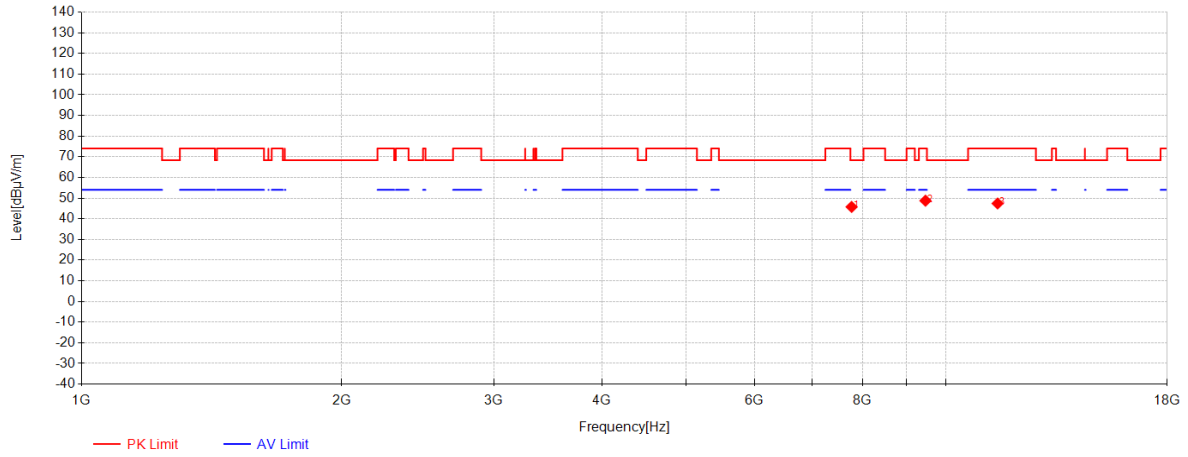


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8485.6667	42.53	37.34	-35.78	44.09	74.00	29.91	Horizontal
2	10288.1	37.57	38.04	-31.92	43.70	68.30	24.60	Horizontal
3	12199.4	38.10	38.64	-29.48	47.26	74.00	26.74	Horizontal

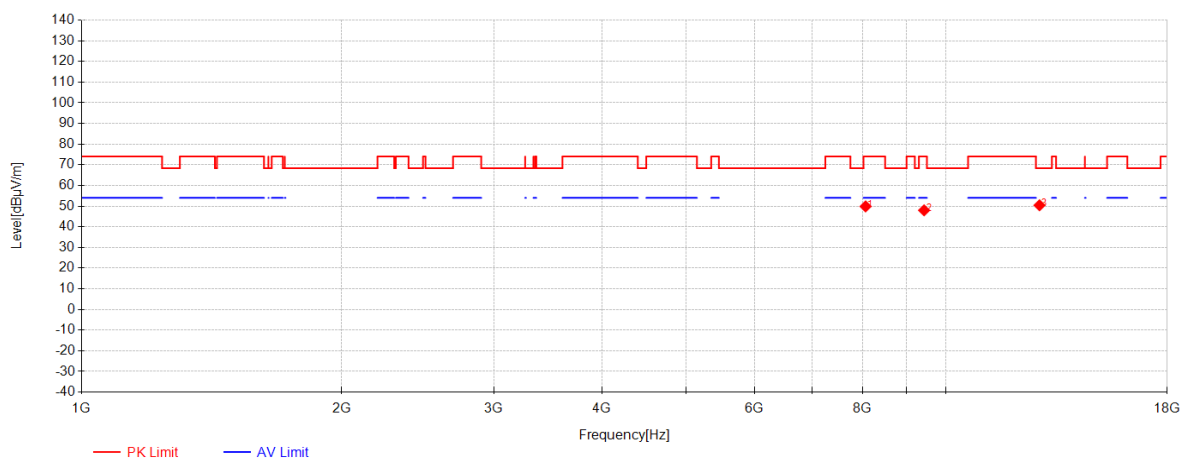


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7991.55	49.91	37.09	-36.82	50.18	68.30	18.12	Vertical
2	9456.65	44.93	37.74	-33.77	48.90	74.00	25.10	Vertical
3	12644.8333	40.00	39.17	-29.71	49.46	74.00	24.54	Vertical

802.11ac40_Channel 151

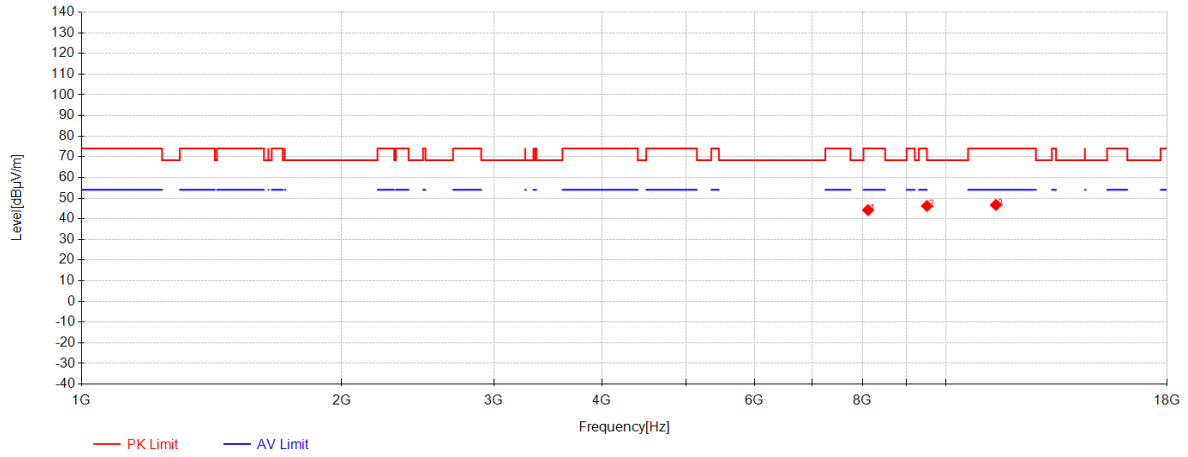


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7774.2	45.75	36.87	-36.88	45.75	68.30	22.55	Horizontal
2	9463.9333	44.76	37.74	-33.73	48.77	74.00	25.23	Horizontal
3	11467.6167	38.96	38.40	-29.95	47.41	74.00	26.59	Horizontal

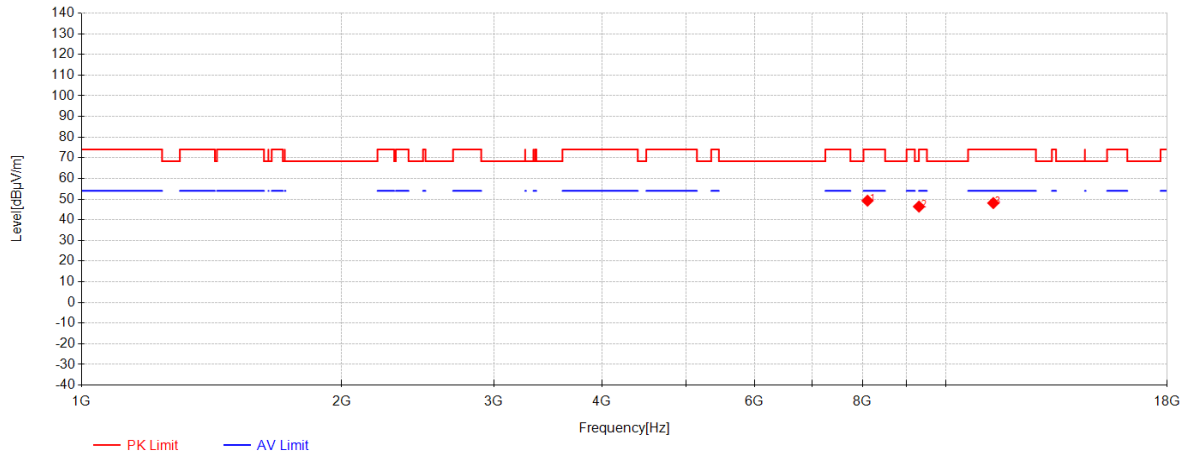


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8069.75	49.37	37.13	-36.64	49.87	74.00	24.13	Vertical
2	9429.4333	44.14	37.73	-33.90	47.97	74.00	26.03	Vertical
3	12821.55	40.81	39.39	-29.80	50.40	68.30	17.90	Vertical

802.11ac40_Channel 159

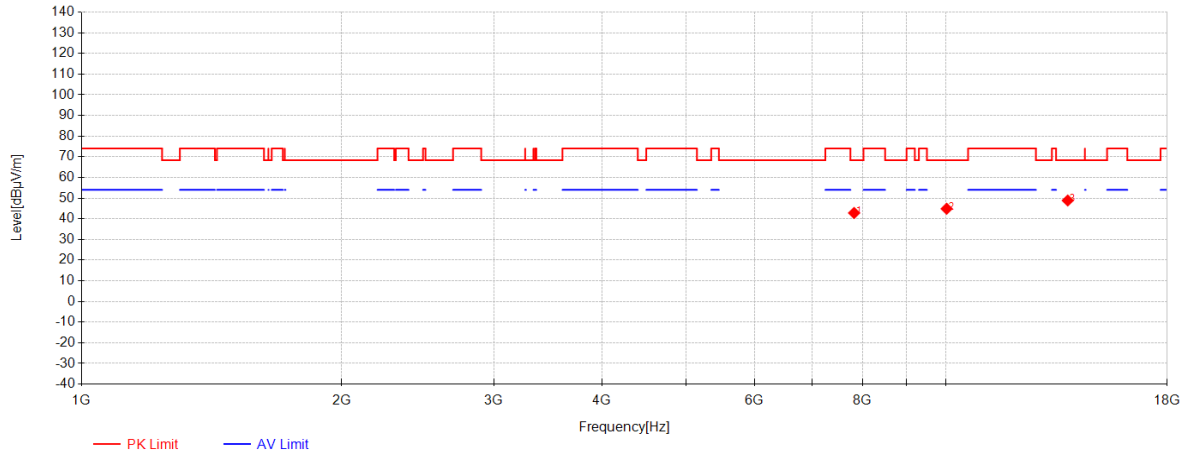


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8122.65	43.53	37.16	-36.48	44.21	74.00	29.79	Horizontal
2	9502.2667	42.01	37.75	-33.56	46.20	68.30	22.10	Horizontal
3	11417.4	38.18	38.40	-29.88	46.70	74.00	27.30	Horizontal

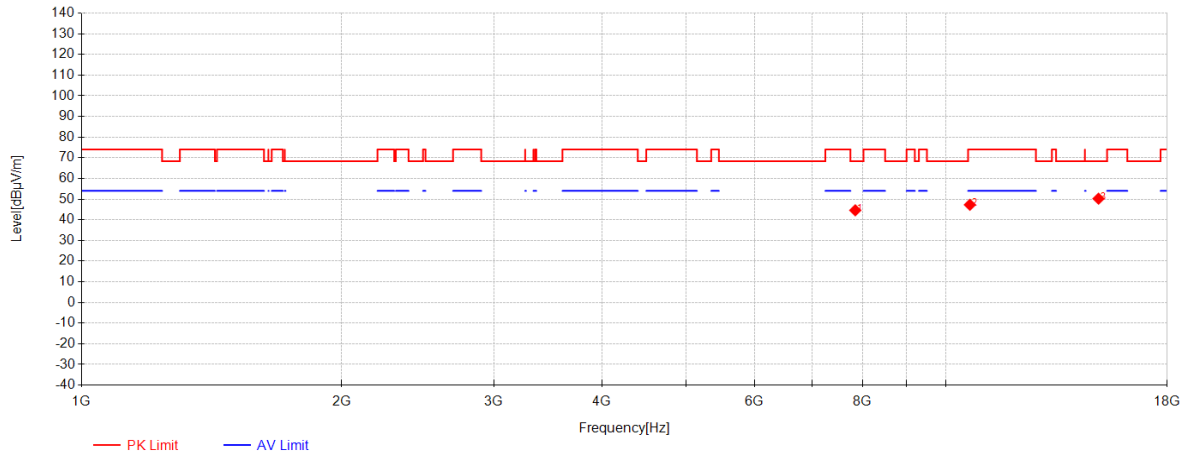


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8110.3833	48.61	37.16	-36.52	49.24	74.00	24.76	Vertical
2	9302.1667	42.64	37.69	-33.94	46.39	74.00	27.61	Vertical
3	11338.05	39.97	38.40	-30.26	48.11	74.00	25.89	Vertical

802.11ac80_Channel 42

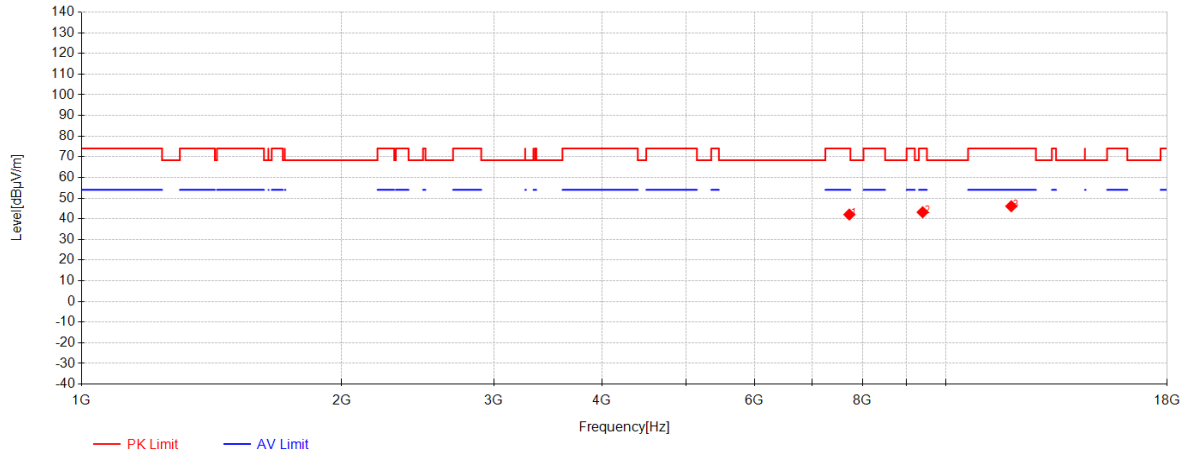


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7827.1	42.72	36.93	-36.83	42.82	68.30	25.48	Horizontal
2	10013.25	39.26	37.91	-32.30	44.86	68.30	23.44	Horizontal
3	13822.8167	37.75	40.18	-29.07	48.86	68.30	19.44	Horizontal

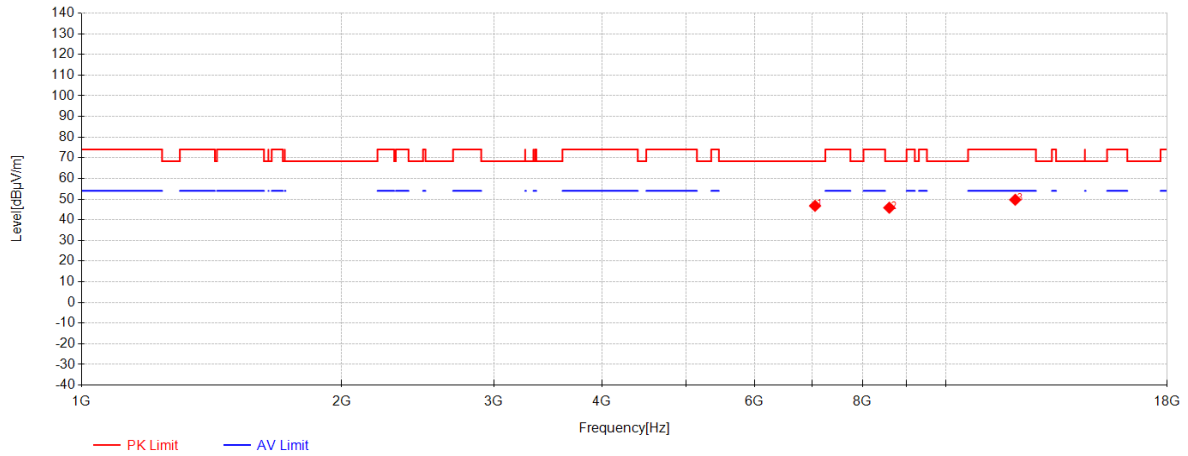


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7851.25	44.52	36.95	-36.87	44.60	68.30	23.70	Vertical
2	10652.65	39.76	38.23	-30.73	47.26	74.00	26.74	Vertical
3	15003.1	38.25	40.09	-28.12	50.23	68.30	18.07	Vertical

802.11ac80_Channel 58

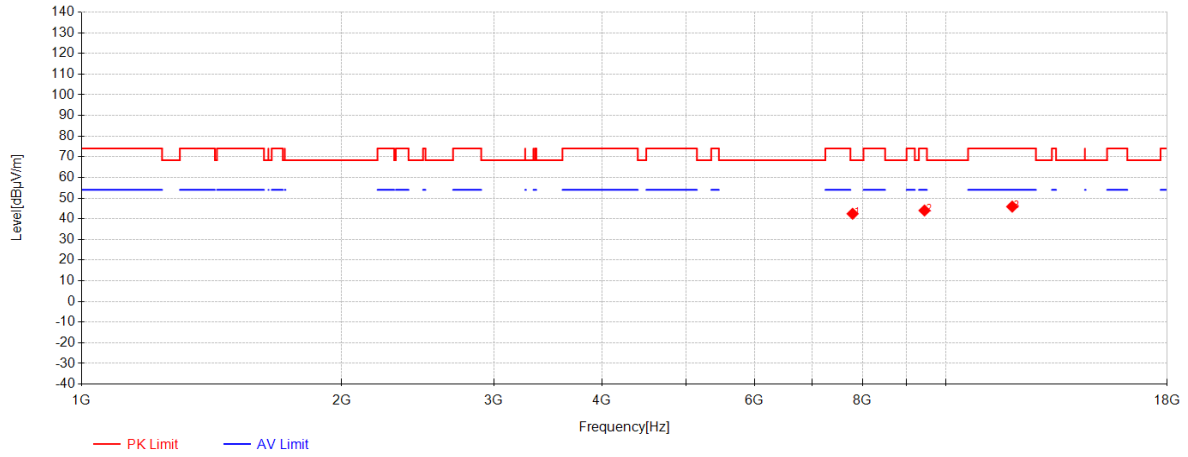


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7727.4333	42.27	36.83	-37.04	42.06	74.00	31.94	Horizontal
2	9393.4	39.51	37.72	-34.03	43.19	74.00	30.81	Horizontal
3	11893.5	36.66	38.40	-28.98	46.08	74.00	27.92	Horizontal

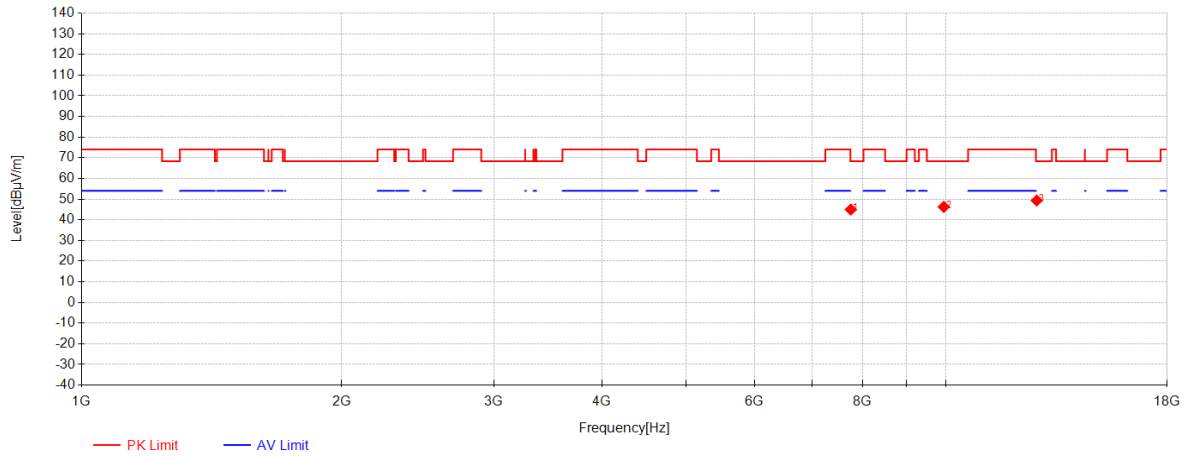


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7053.15	48.69	36.06	-38.01	46.75	68.30	21.55	Vertical
2	8594.9167	43.78	37.40	-35.33	45.84	68.30	22.46	Vertical
3	12019.6167	40.60	38.42	-29.34	49.68	74.00	24.32	Vertical

802.11ac80_Channel 102

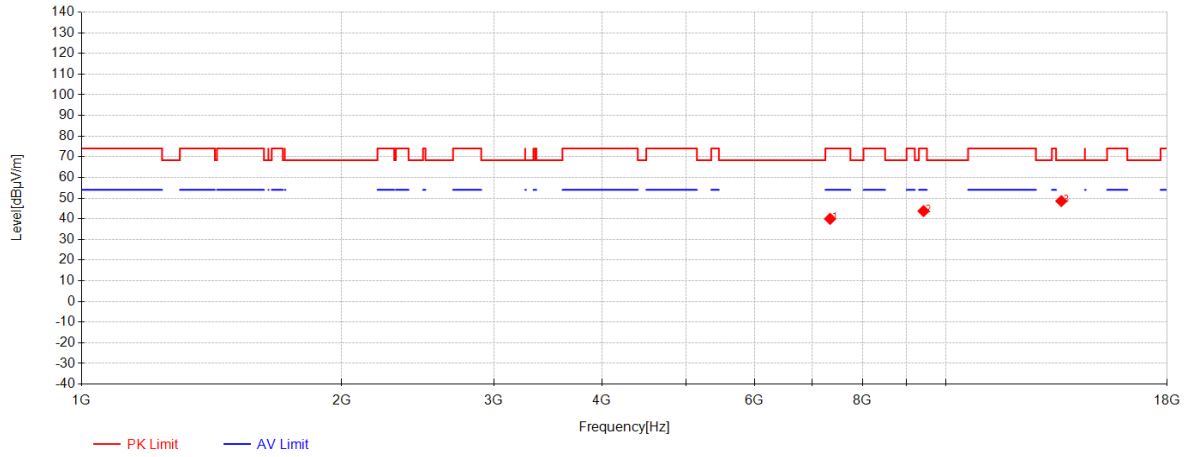


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7794.9	42.34	36.89	-36.81	42.43	68.30	25.87	Horizontal
2	9440.1667	40.14	37.73	-33.85	44.02	74.00	29.98	Horizontal
3	11924.1667	36.49	38.40	-29.00	45.89	74.00	28.11	Horizontal

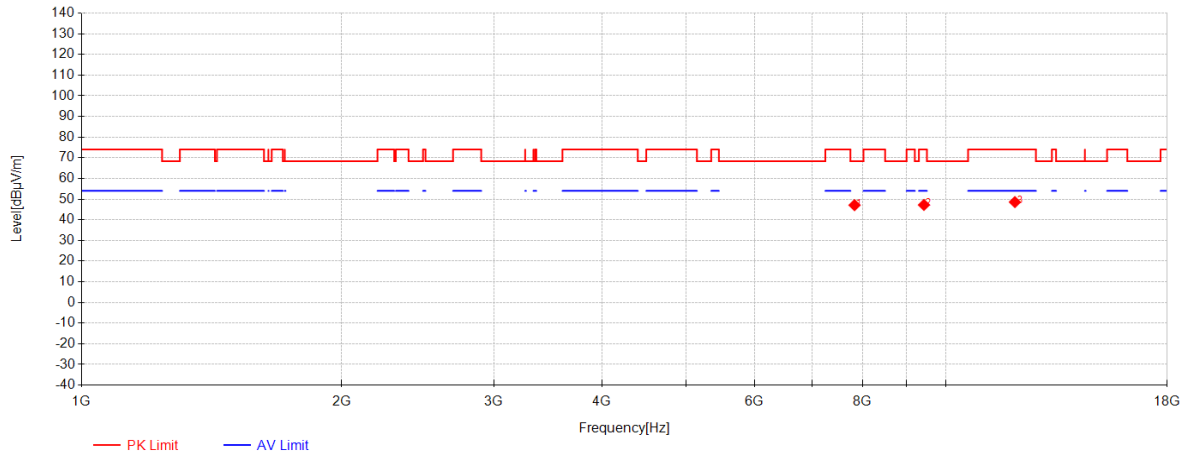


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7757.3333	45.03	36.86	-36.94	44.95	68.30	23.35	Vertical
2	9935.05	40.85	37.88	-32.49	46.25	68.30	22.05	Vertical
3	12726.1	39.71	39.27	-29.64	49.34	68.30	18.96	Vertical

802.11ac80_Channel 122

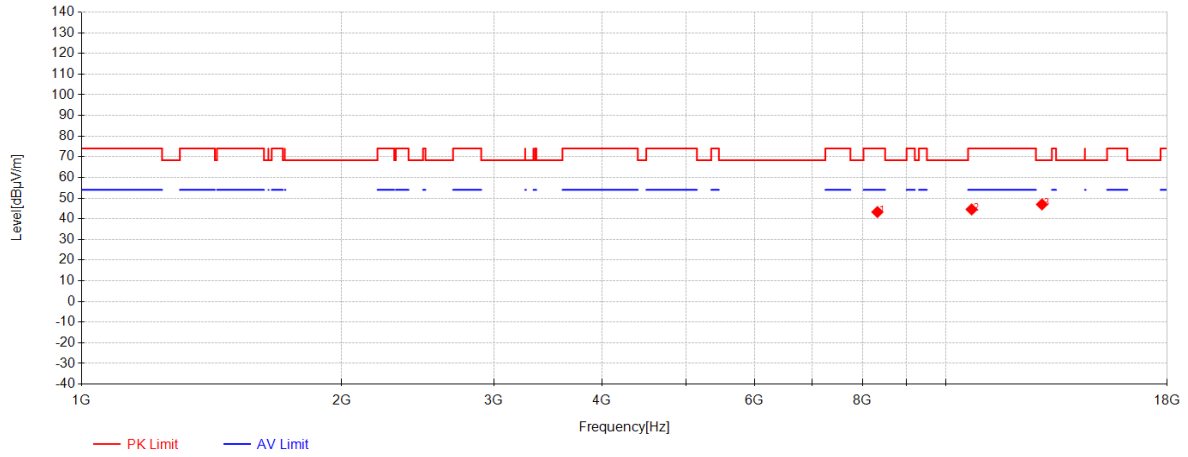


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7341.0333	41.25	36.41	-37.68	39.98	74.00	34.02	Horizontal
2	9415.25	39.97	37.72	-33.97	43.73	74.00	30.27	Horizontal
3	13588.9833	36.43	40.01	-27.86	48.58	68.30	19.72	Horizontal

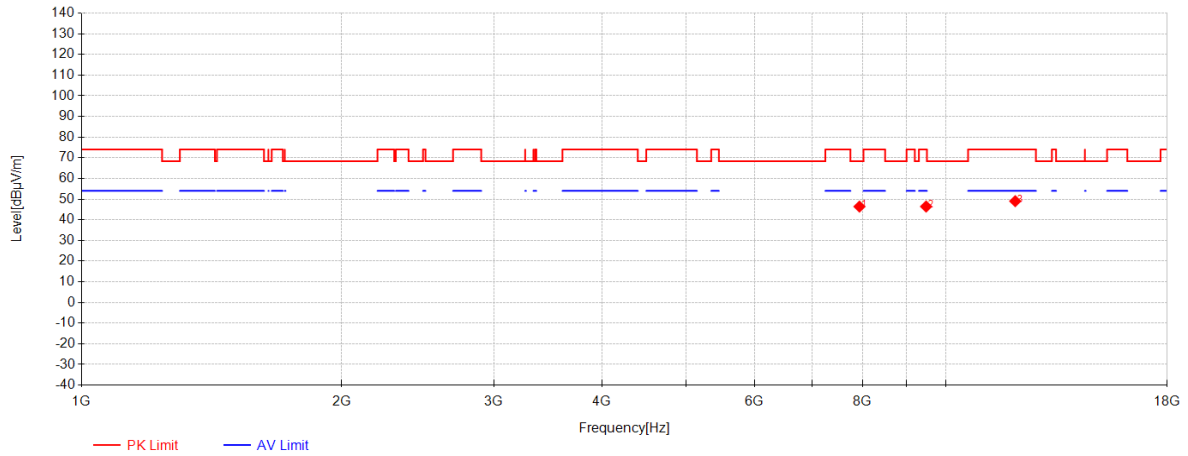


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7834.7667	46.99	36.93	-36.84	47.08	68.30	21.22	Vertical
2	9425.6	43.39	37.73	-33.92	47.20	74.00	26.80	Vertical
3	12008.1167	39.48	38.41	-29.32	48.57	74.00	25.43	Vertical

802.11ac80_Channel 138

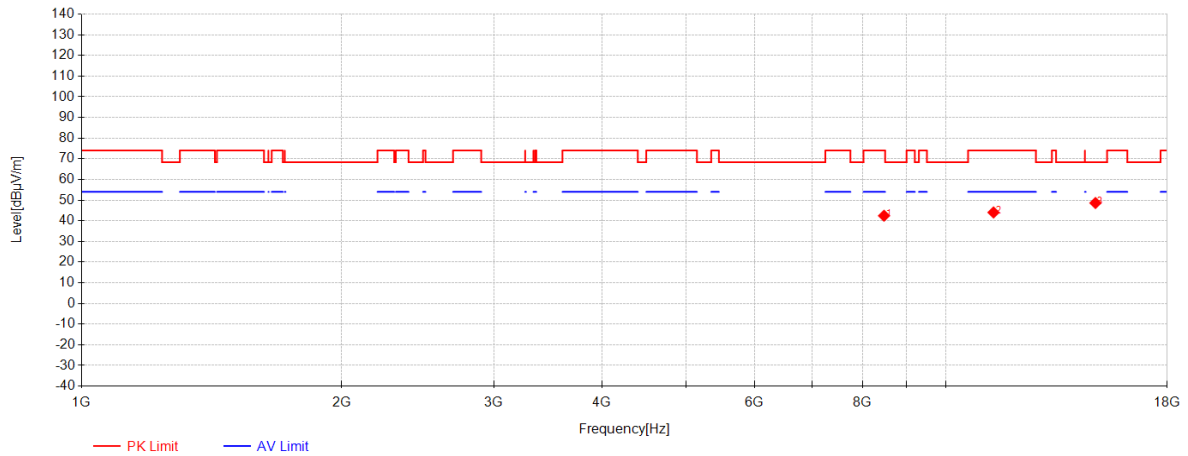


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8327.35	41.93	37.26	-35.92	43.27	74.00	30.73	Horizontal
2	10701.7167	36.58	38.25	-30.30	44.53	74.00	29.47	Horizontal
3	12905.5	36.91	39.49	-29.43	46.97	68.30	21.33	Horizontal

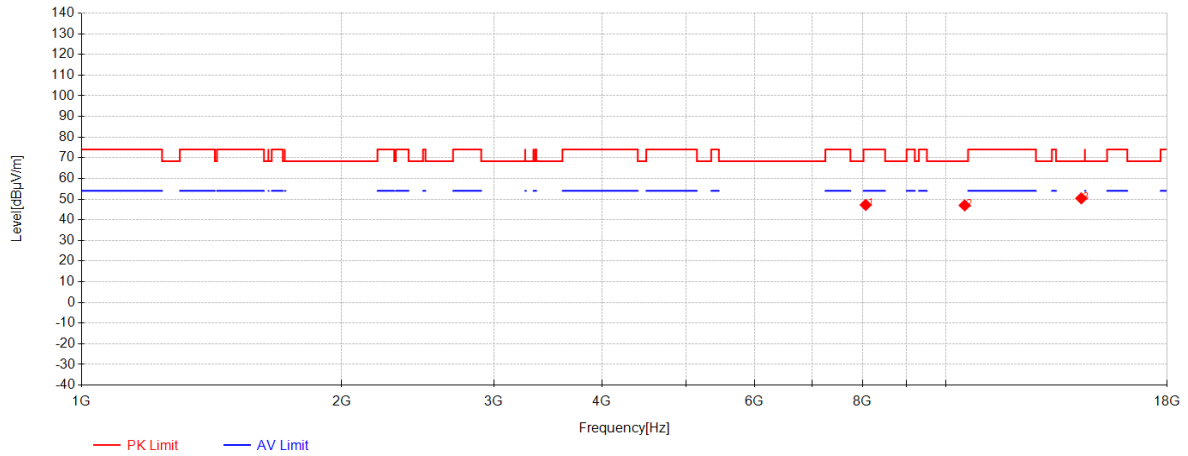


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7938.65	46.24	37.04	-36.89	46.39	68.30	21.91	Vertical
2	9480.4167	42.34	37.74	-33.65	46.43	74.00	27.57	Vertical
3	12018.85	39.93	38.42	-29.34	49.01	74.00	24.99	Vertical

802.11ac80_Channel 155

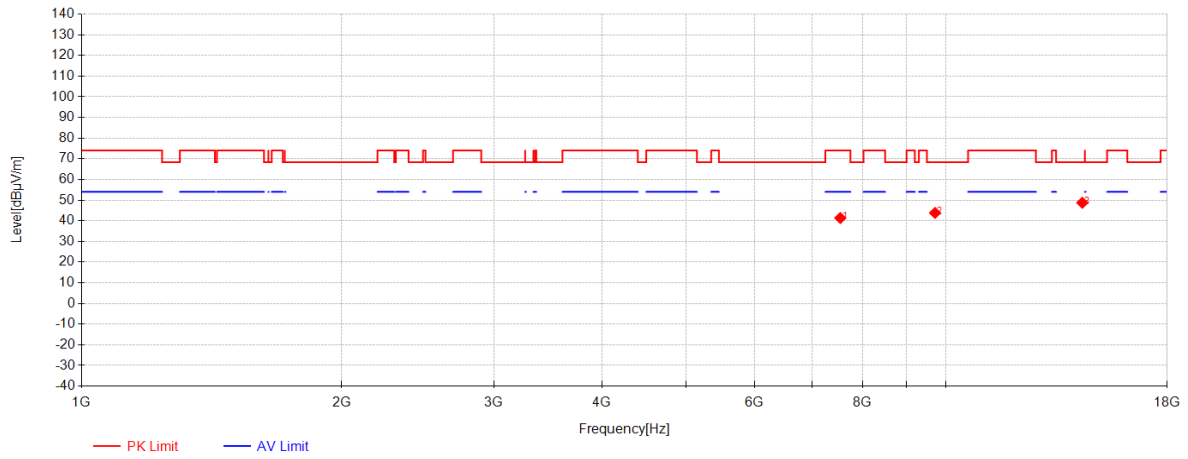


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8475.7	40.90	37.34	-35.78	42.46	74.00	31.54	Horizontal
2	11344.1833	35.87	38.40	-30.22	44.05	74.00	29.95	Horizontal
3	14880.4333	36.34	40.12	-27.84	48.62	68.30	19.68	Horizontal

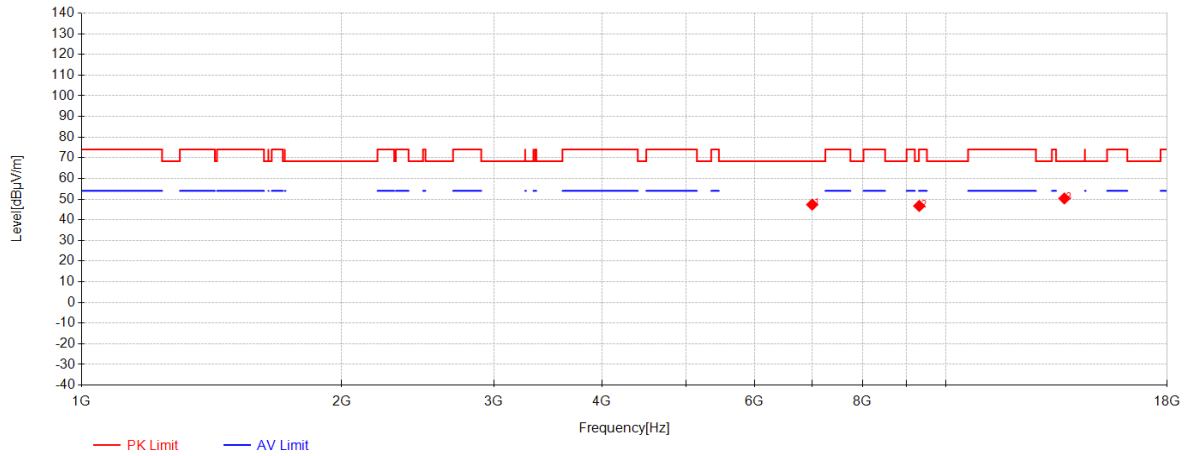


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8071.6667	46.70	37.14	-36.63	47.20	74.00	26.80	Vertical
2	10505.45	39.86	38.15	-31.04	46.97	68.30	21.33	Vertical
3	14331.1167	39.25	40.23	-29.09	50.39	68.30	17.91	Vertical

802.11ac160_Channel 50

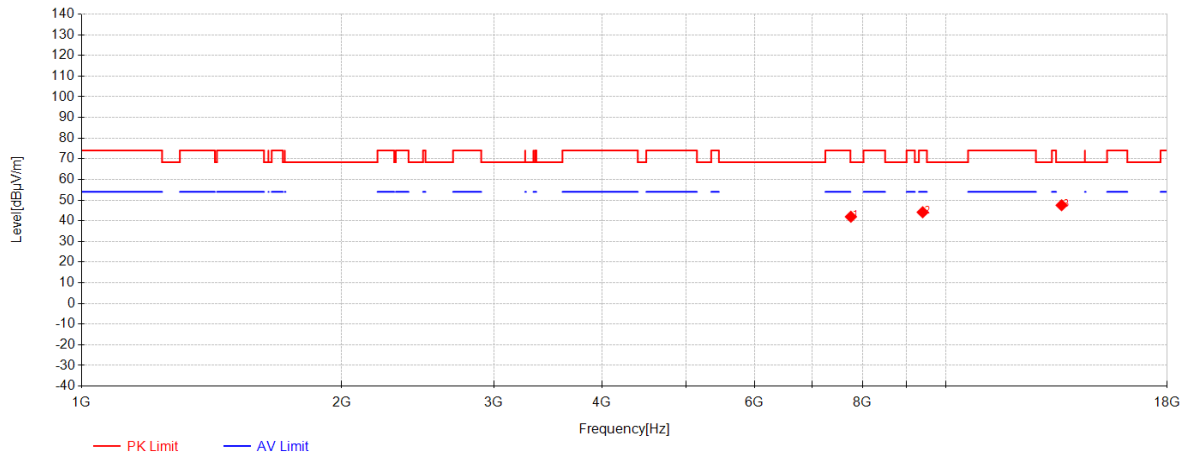


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7544.2	42.38	36.64	-37.67	41.36	74.00	32.64	Horizontal
2	9707.7333	39.20	37.81	-33.19	43.82	68.30	24.48	Horizontal
3	14369.0667	37.20	40.23	-28.71	48.72	68.30	19.58	Horizontal

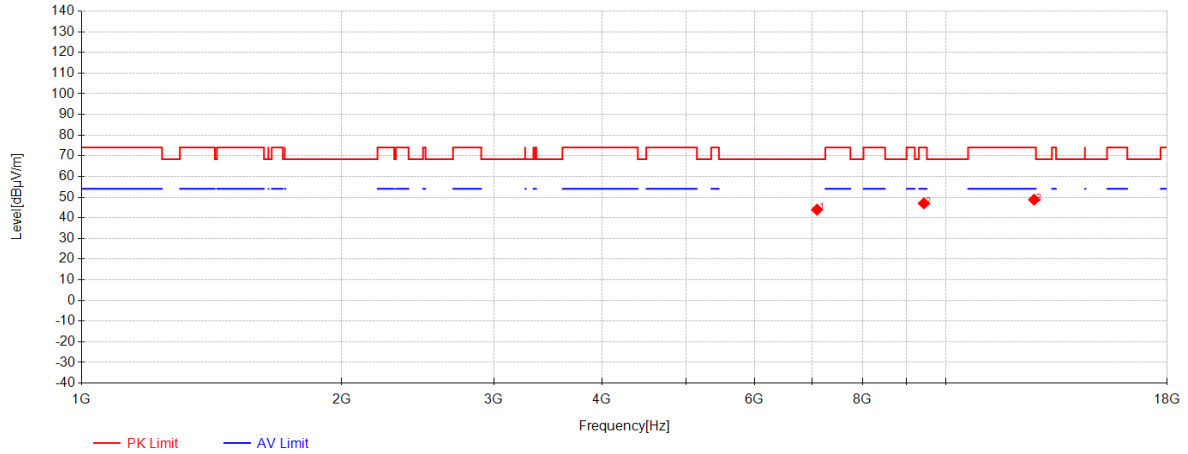


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6999.8667	49.04	36.00	-37.70	47.34	68.30	20.96	Vertical
2	9307.5333	42.97	37.69	-33.95	46.71	74.00	27.29	Vertical
3	13699.7667	39.44	40.09	-29.21	50.32	68.30	17.98	Vertical

802.11ac160_Channel 114

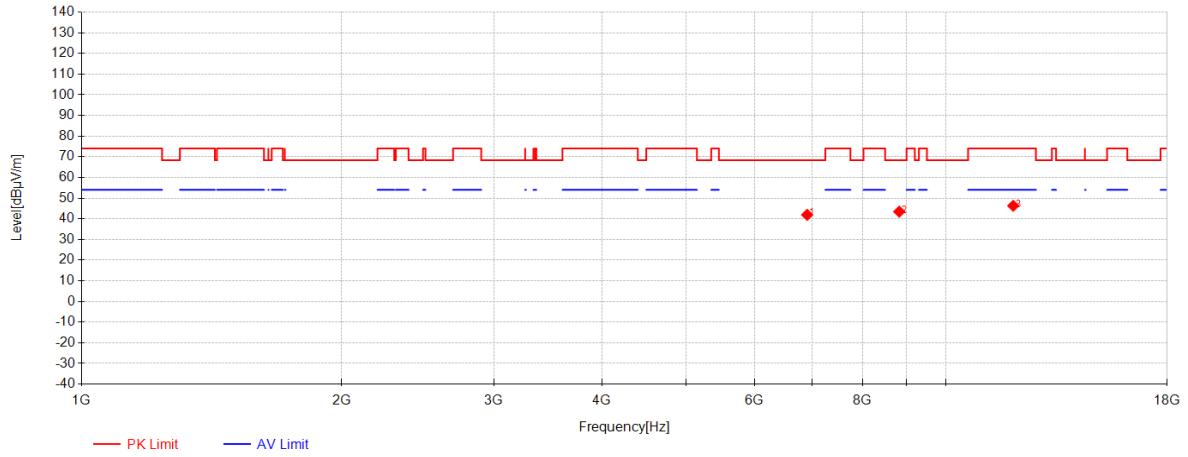


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7759.25	42.04	36.86	-36.93	41.97	68.30	26.33	Horizontal
2	9394.9333	40.46	37.72	-34.03	44.14	74.00	29.86	Horizontal
3	13598.95	35.19	40.02	-27.67	47.54	68.30	20.76	Horizontal

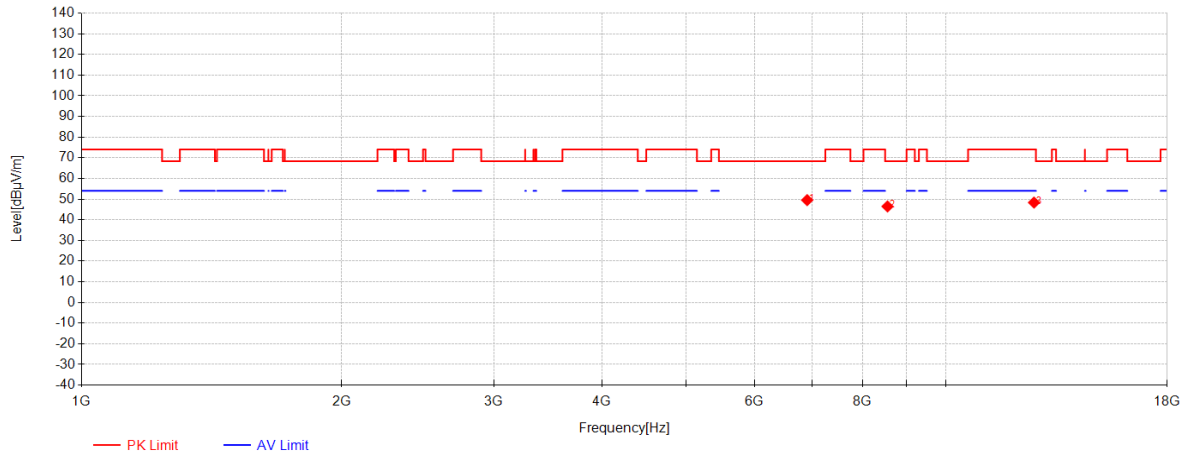


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7091.1	46.05	36.11	-38.23	43.93	68.30	24.37	Vertical
2	9423.6833	43.19	37.73	-33.93	46.99	74.00	27.01	Vertical
3	12637.9333	39.33	39.17	-29.73	48.76	74.00	25.24	Vertical

802.11ax20_Channel 36

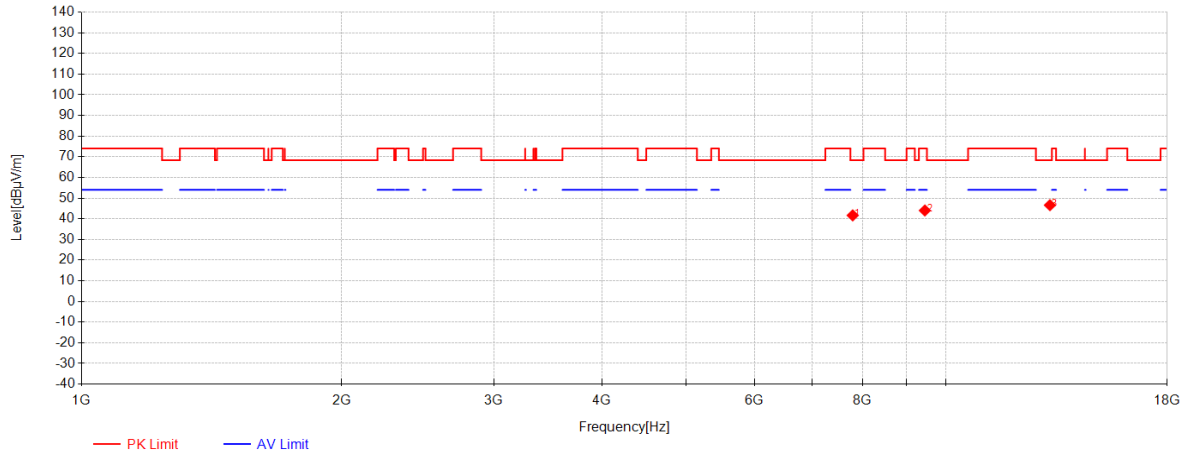


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.3333	44.27	35.96	-38.32	41.91	68.30	26.39	Horizontal
2	8826.45	40.88	37.51	-34.93	43.46	68.30	24.84	Horizontal
3	11955.6	37.02	38.40	-29.13	46.29	74.00	27.71	Horizontal

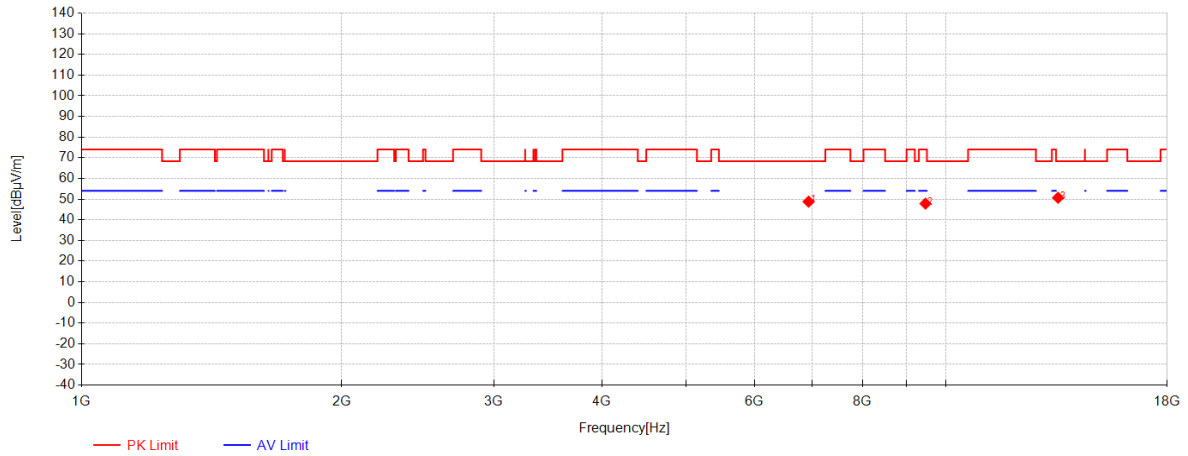


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6906.7167	51.88	35.96	-38.32	49.53	68.30	18.77	Vertical
2	8554.2833	44.62	37.38	-35.52	46.47	68.30	21.83	Vertical
3	12635.6333	38.92	39.16	-29.74	48.34	74.00	25.66	Vertical

802.11ax20_Channel 40

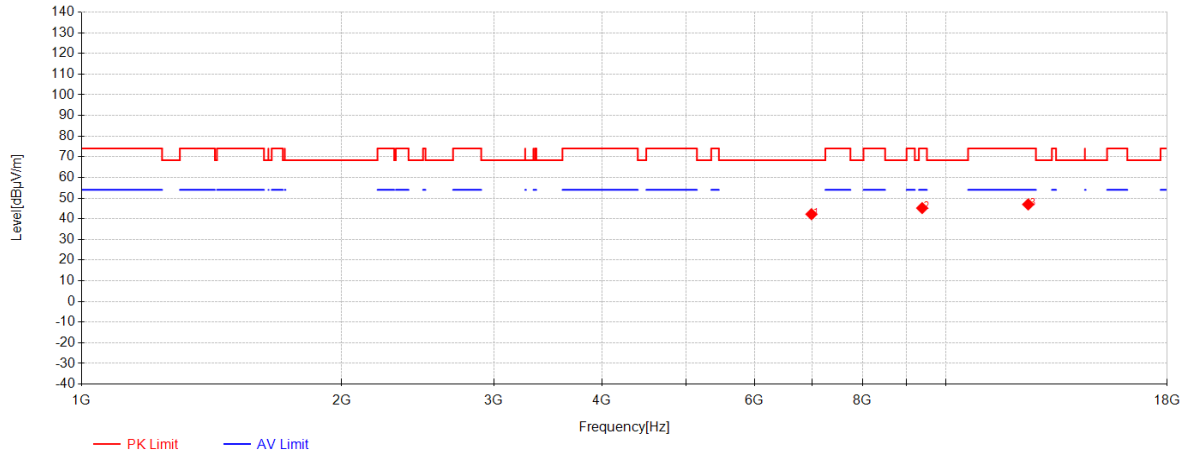


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7796.8167	41.55	36.90	-36.80	41.65	68.30	26.65	Horizontal
2	9448.9833	40.10	37.73	-33.80	44.03	74.00	29.97	Horizontal
3	13182.2667	36.03	39.73	-29.16	46.60	68.30	21.70	Horizontal

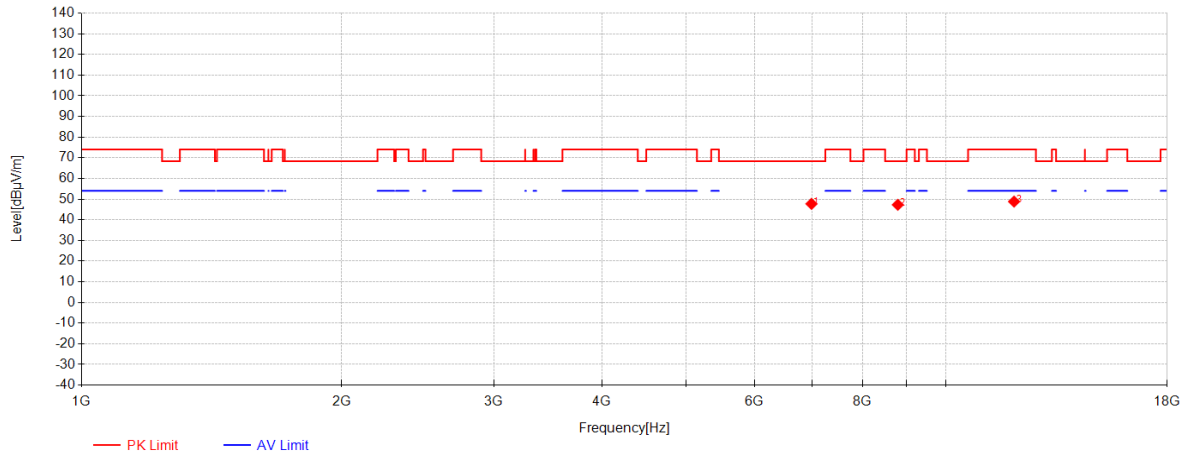


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6933.1667	50.95	35.97	-38.14	48.78	68.30	19.52	Vertical
2	9464.3167	43.82	37.74	-33.73	47.83	74.00	26.17	Vertical
3	13471.6833	40.09	39.93	-29.36	50.66	68.30	17.64	Vertical

802.11ax20_Channel 48

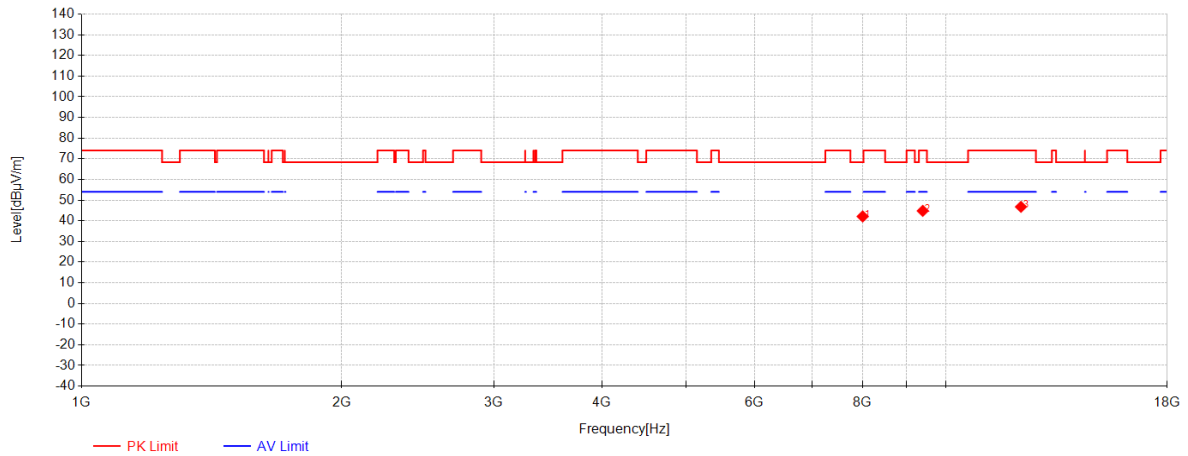


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.45	44.01	35.99	-37.79	42.22	68.30	26.08	Horizontal
2	9381.1333	41.49	37.71	-34.02	45.18	74.00	28.82	Horizontal
3	12440.9	37.36	38.93	-29.33	46.96	74.00	27.04	Horizontal

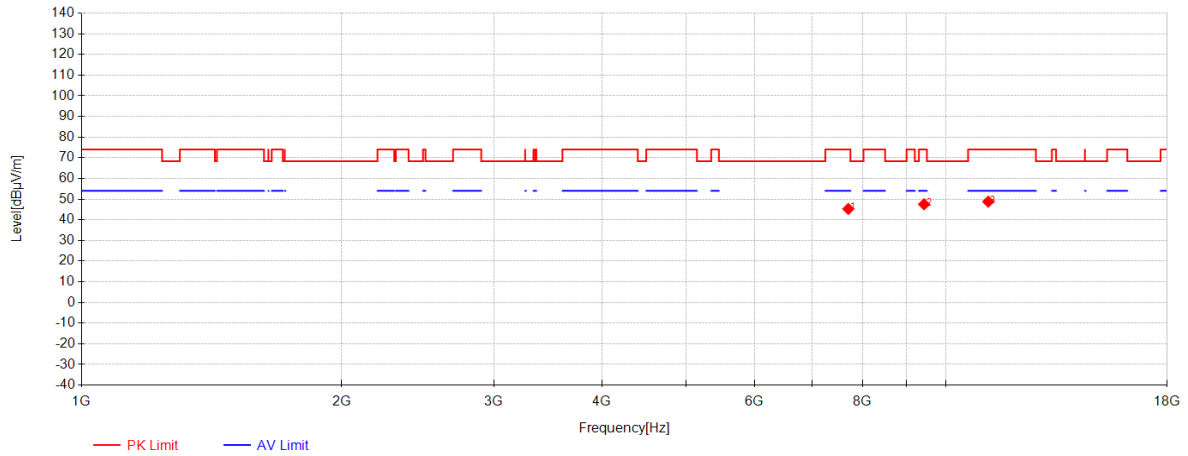


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6986.8333	49.49	35.99	-37.79	47.70	68.30	20.60	Vertical
2	8792.7167	44.60	37.50	-34.83	47.27	68.30	21.03	Vertical
3	11981.2833	39.65	38.40	-29.23	48.82	74.00	25.18	Vertical

802.11ax20_Channel 52

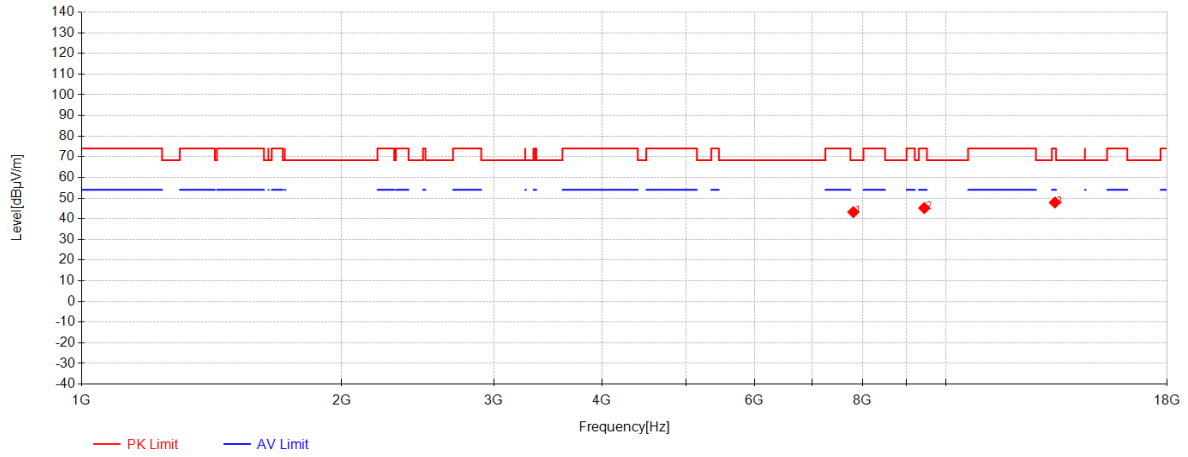


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8007.2667	41.80	37.10	-36.79	42.11	68.30	26.19	Horizontal
2	9396.4667	41.14	37.72	-34.04	44.82	74.00	29.18	Horizontal
3	12204	37.62	38.64	-29.50	46.76	74.00	27.24	Horizontal

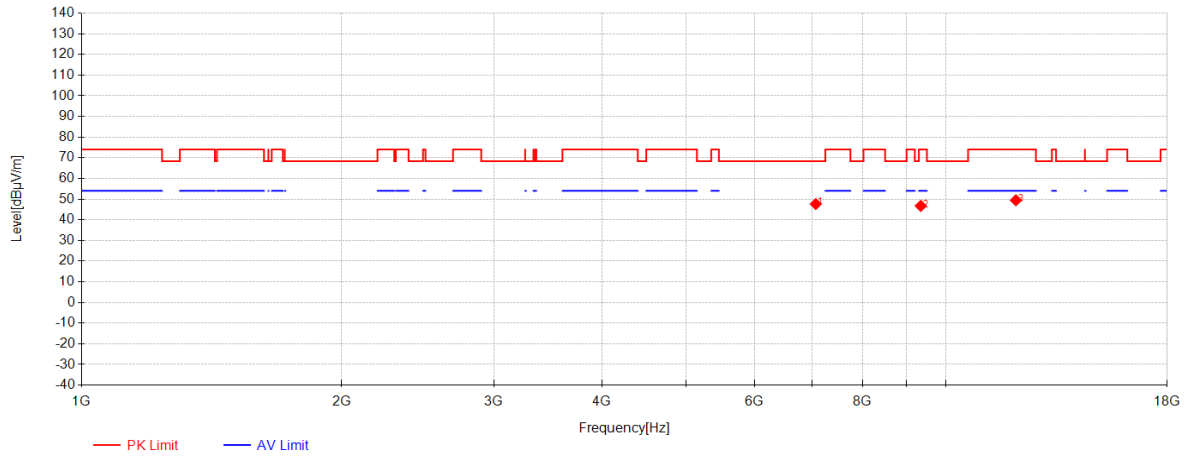


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7706.7333	45.57	36.81	-37.11	45.27	74.00	28.73	Vertical
2	9429.4333	43.67	37.73	-33.90	47.50	74.00	26.50	Vertical
3	11186.6333	40.37	38.40	-30.01	48.76	74.00	25.24	Vertical

802.11ax20_Channel 60

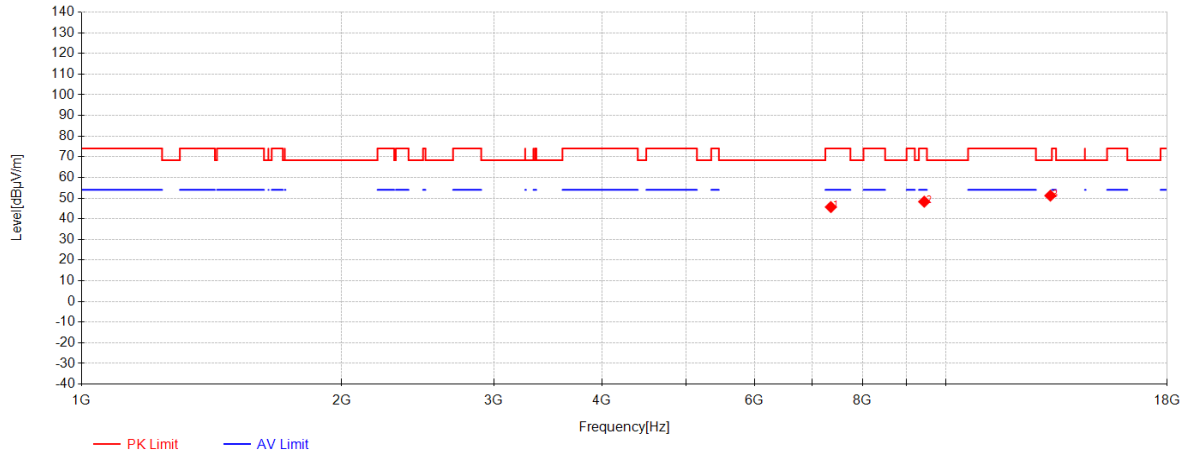


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7810.2333	43.12	36.91	-36.81	43.22	68.30	25.08	Horizontal
2	9434.0333	41.36	37.73	-33.88	45.21	74.00	28.79	Horizontal
3	13359.75	37.14	39.85	-29.12	47.88	74.00	26.12	Horizontal

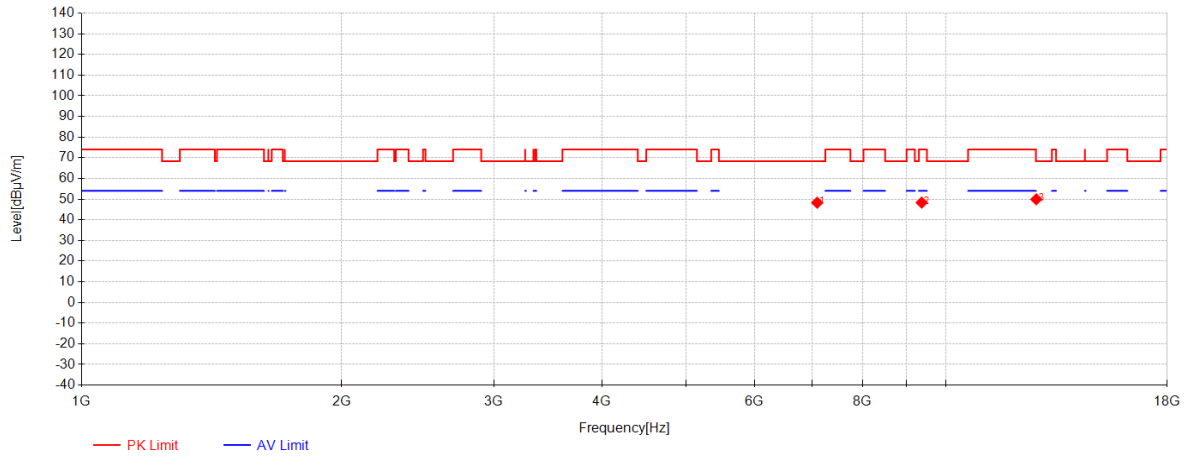


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7066.5667	49.65	36.08	-38.09	47.64	68.30	20.66	Vertical
2	9346.6333	43.01	37.70	-33.99	46.73	74.00	27.27	Vertical
3	12039.9333	40.38	38.45	-29.38	49.45	74.00	24.55	Vertical

802.11ax20_Channel 64

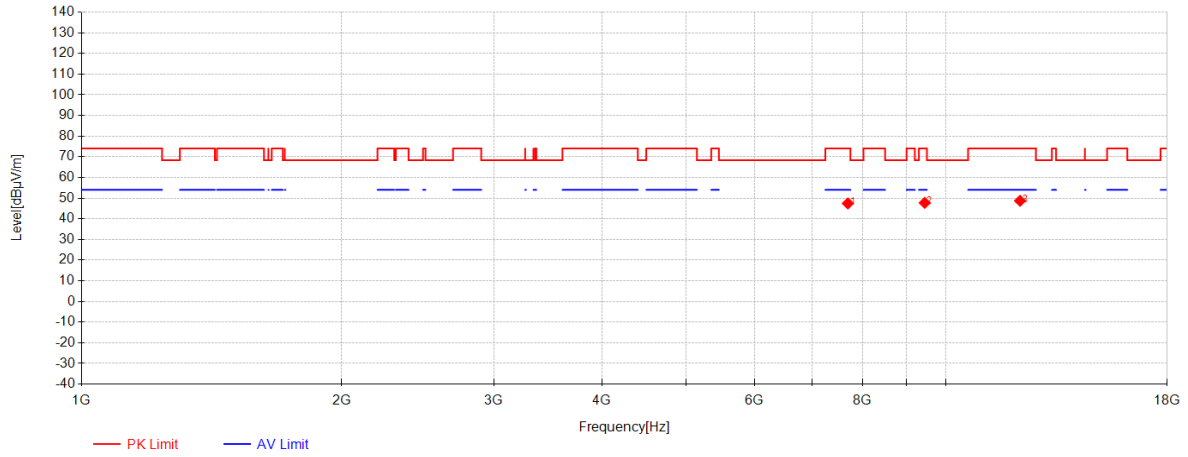


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7357.1333	46.97	36.43	-37.73	45.67	74.00	28.33	Horizontal
2	9434.0333	44.43	37.73	-33.88	48.28	74.00	25.72	Horizontal
3	13198.3667	40.67	39.74	-29.21	51.19	68.30	17.11	Horizontal

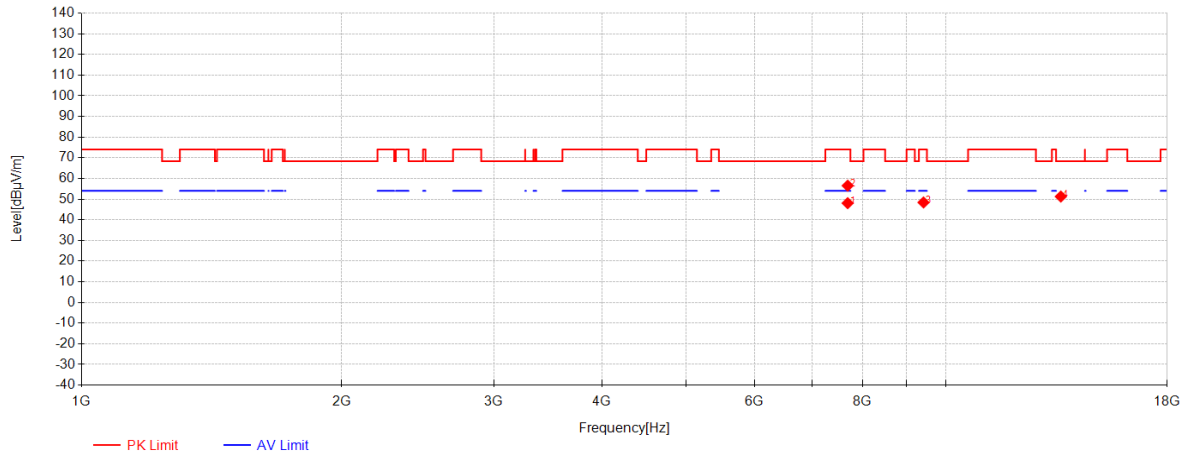


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7093.4	50.41	36.11	-38.24	48.28	68.30	20.02	Vertical
2	9368.4833	44.63	37.71	-34.01	48.33	74.00	25.67	Vertical
3	12712.6833	40.25	39.26	-29.59	49.92	68.30	18.38	Vertical

802.11ax20_Channel 100

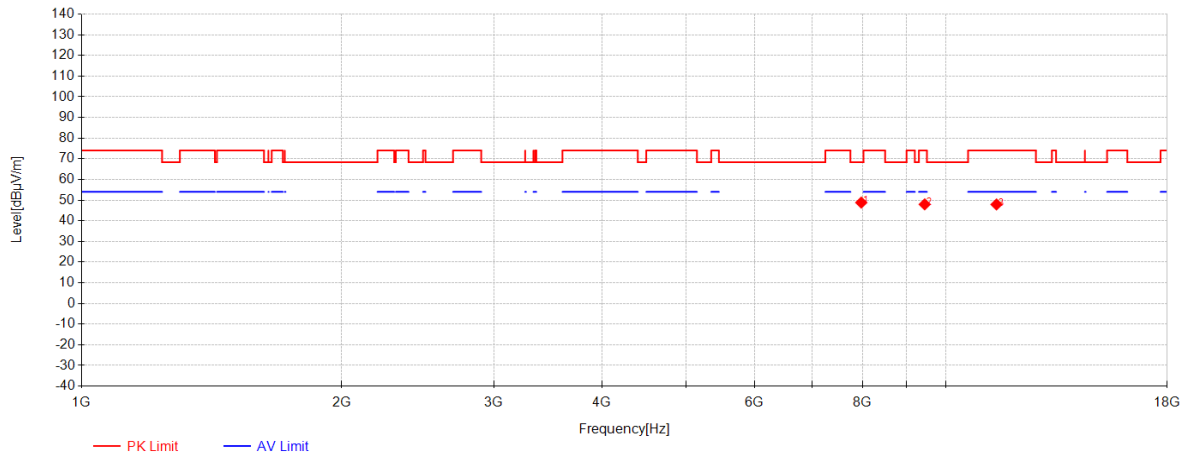


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7697.5333	47.78	36.80	-37.15	47.43	74.00	26.57	Horizontal
2	9445.5333	43.81	37.73	-33.82	47.72	74.00	26.28	Horizontal
3	12174.4833	39.58	38.61	-29.49	48.70	74.00	25.30	Horizontal

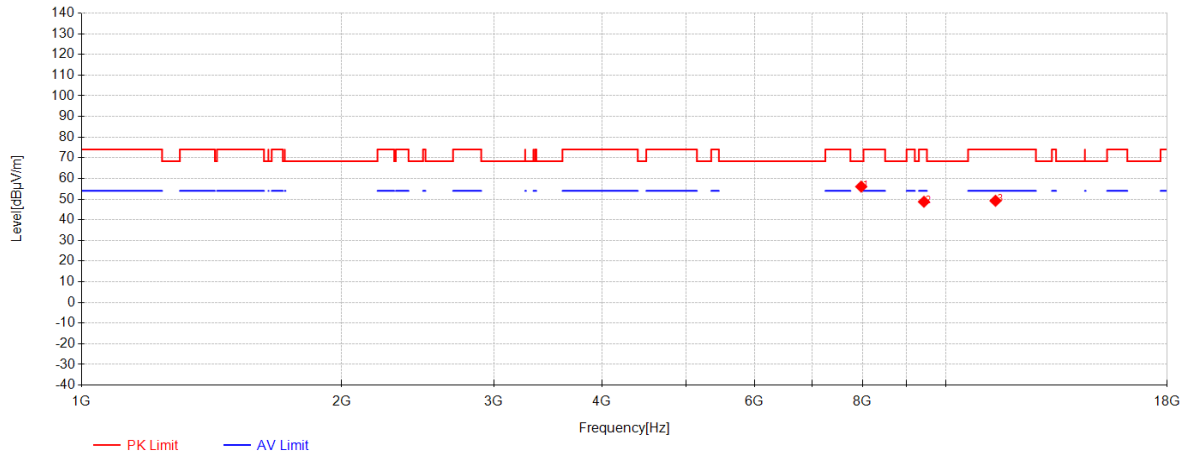


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7694.0833	48.42	36.79	-37.17	48.05	54.00	5.95	Vertical
2	7693.7	56.88	36.79	-37.17	56.51	74.00	17.49	Vertical
3	9414.8667	44.63	37.72	-33.97	48.39	74.00	25.61	Vertical
4	13569.8167	39.47	40.00	-28.22	51.25	68.30	17.05	Vertical

802.11ax20_Channel 140

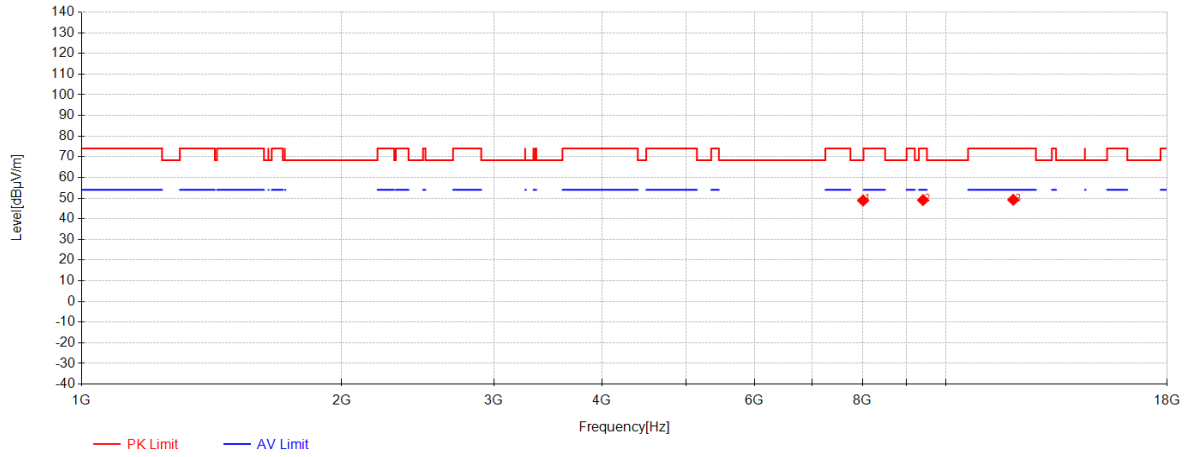


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7977.3667	48.57	37.08	-36.84	48.81	68.30	19.49	Horizontal
2	9444.7667	44.06	37.73	-33.83	47.97	74.00	26.03	Horizontal
3	11434.2667	39.41	38.40	-29.90	47.91	74.00	26.09	Horizontal

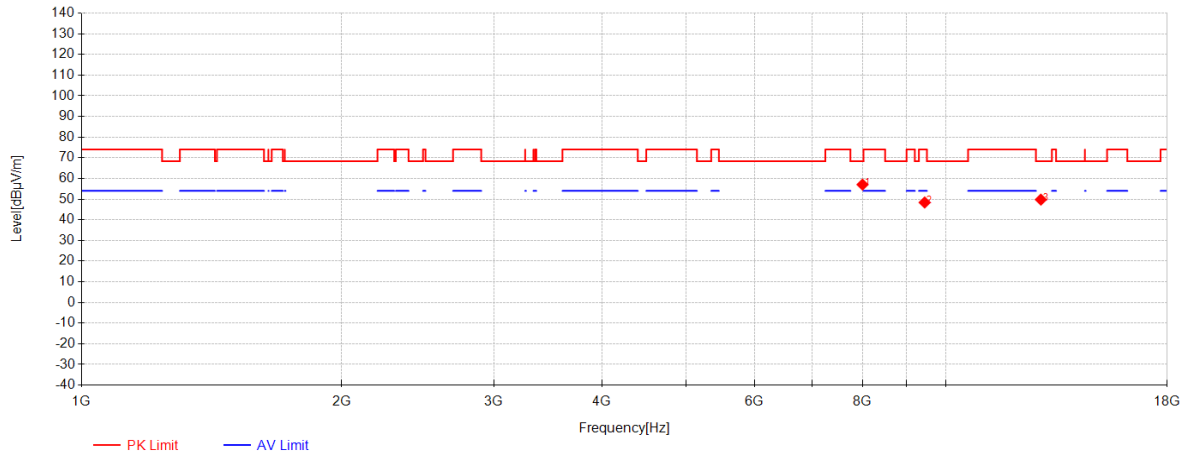


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7975.8333	55.81	37.08	-36.84	56.04	68.30	12.26	Vertical
2	9425.9833	44.92	37.73	-33.92	48.73	74.00	25.27	Vertical
3	11403.9833	40.66	38.40	-29.87	49.19	74.00	24.81	Vertical

802.11ax20_Channel 144

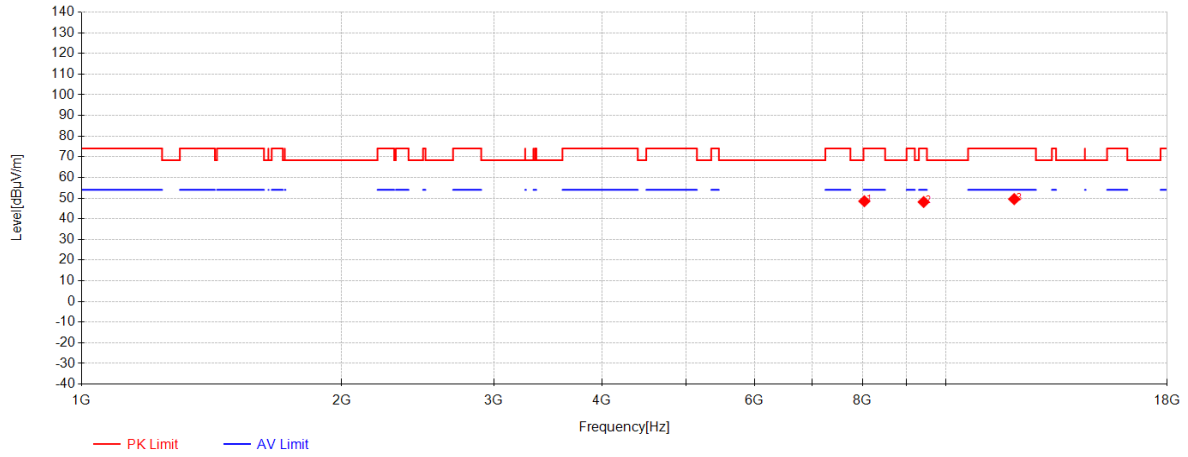


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8015.7	48.53	37.11	-36.77	48.87	68.30	19.43	Horizontal
2	9402.6	45.37	37.72	-34.03	49.06	74.00	24.94	Horizontal
3	11956.3667	39.91	38.40	-29.13	49.18	74.00	24.82	Horizontal

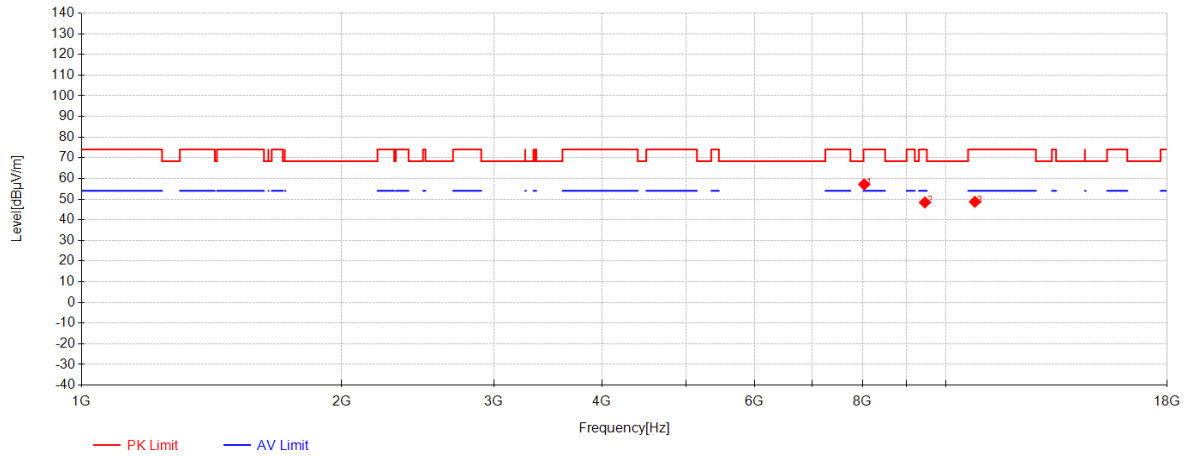


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8003.4333	56.74	37.10	-36.80	57.04	68.30	11.26	Vertical
2	9444	44.49	37.73	-33.83	48.39	74.00	25.61	Vertical
3	12867.9333	39.88	39.44	-29.56	49.76	68.30	18.54	Vertical

802.11ax20_Channel 149

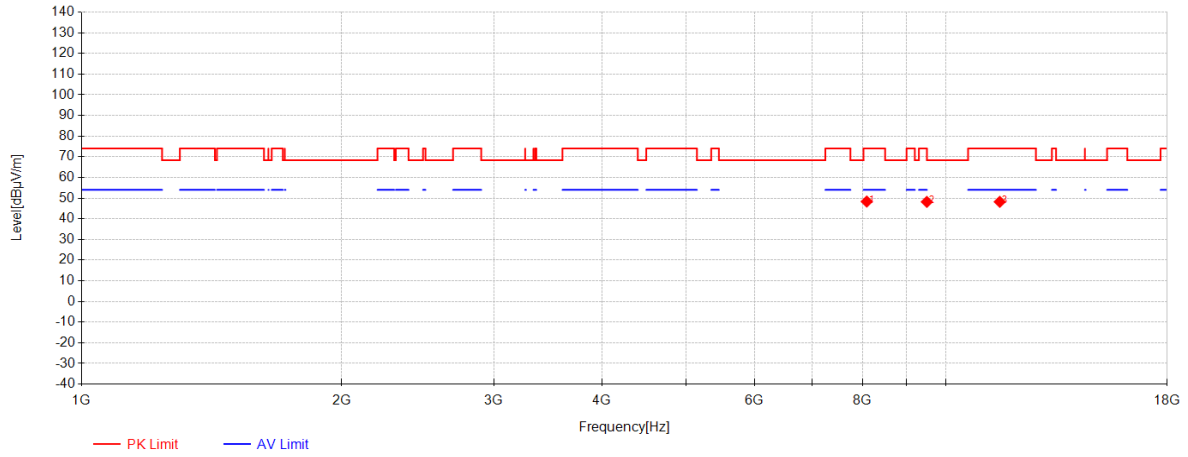


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8042.5333	48.09	37.12	-36.70	48.51	74.00	25.49	Horizontal
2	9418.3167	44.36	37.73	-33.95	48.13	74.00	25.87	Horizontal
3	11986.65	40.37	38.40	-29.25	49.52	74.00	24.48	Horizontal

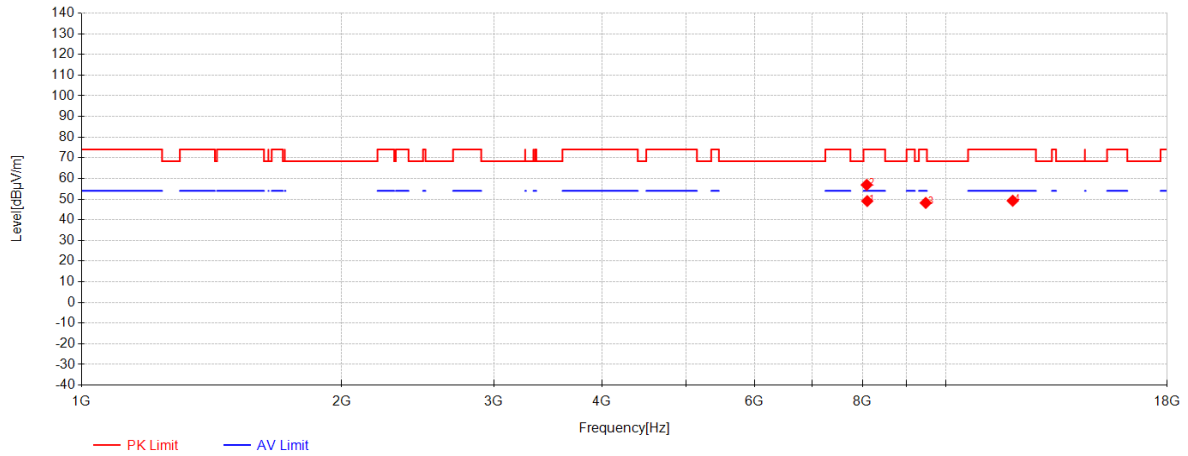


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8039.85	56.73	37.12	-36.71	57.14	74.00	16.86	Vertical
2	9448.9833	44.47	37.73	-33.80	48.40	74.00	25.60	Vertical
3	10796.0167	40.76	38.30	-30.35	48.71	74.00	25.29	Vertical

802.11ax20_Channel 157

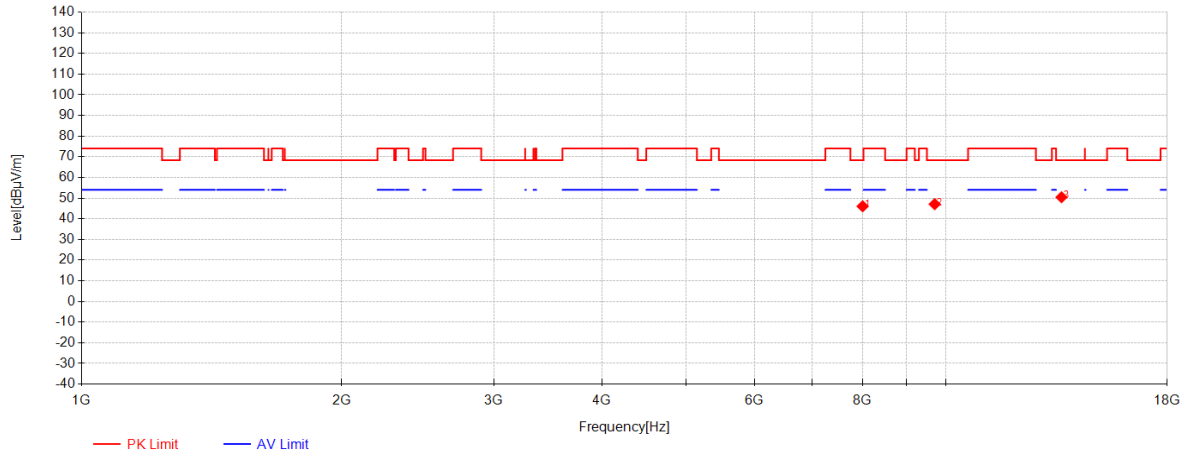


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8094.2833	47.78	37.15	-36.57	48.35	74.00	25.65	Horizontal
2	9498.8167	44.01	37.75	-33.57	48.19	74.00	25.81	Horizontal
3	11534.3167	39.66	38.40	-29.85	48.21	74.00	25.79	Horizontal

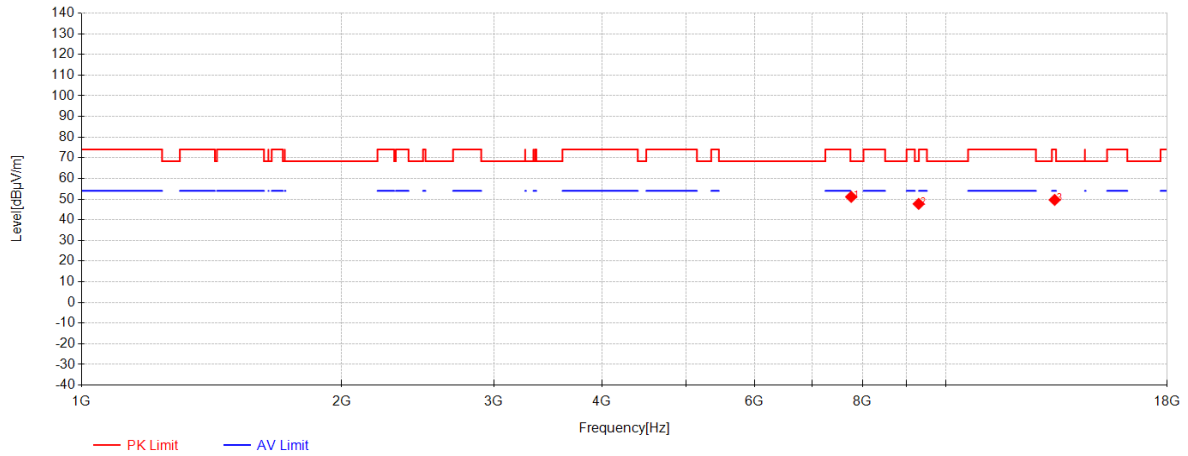


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8104.6333	48.45	37.15	-36.54	49.06	54.00	4.94	Vertical
2	8093.9	56.33	37.15	-36.58	56.90	74.00	17.10	Vertical
3	9471.2167	44.13	37.74	-33.70	48.17	74.00	25.83	Vertical
4	11938.7333	39.87	38.40	-29.06	49.21	74.00	24.79	Vertical

802.11ax20_Channel 165

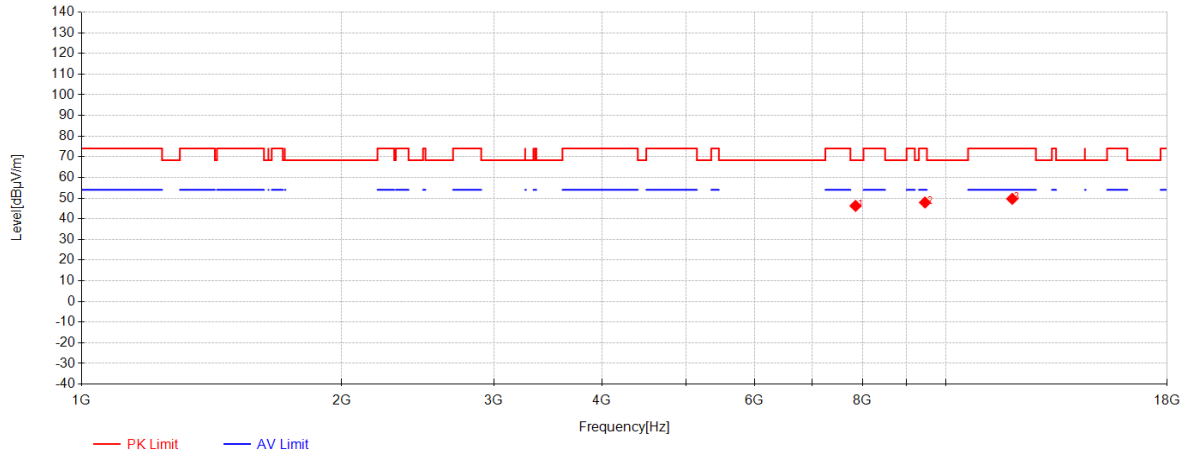


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8005.35	45.73	37.10	-36.80	46.04	68.30	22.26	Horizontal
2	9699.3	42.47	37.81	-33.20	47.08	68.30	21.22	Horizontal
3	13595.5	38.16	40.02	-27.74	50.44	68.30	17.86	Horizontal

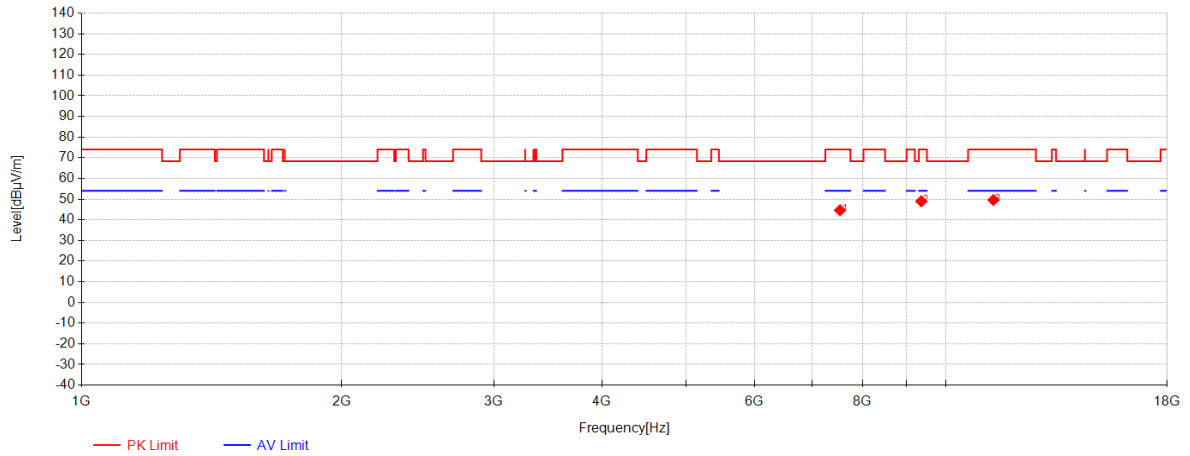


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7766.9167	51.14	36.87	-36.90	51.10	68.30	17.20	Vertical
2	9294.1167	43.96	37.69	-33.96	47.69	68.30	20.61	Vertical
3	13349.7833	38.95	39.84	-29.17	49.63	74.00	24.37	Vertical

802.11ax40_Channel 38

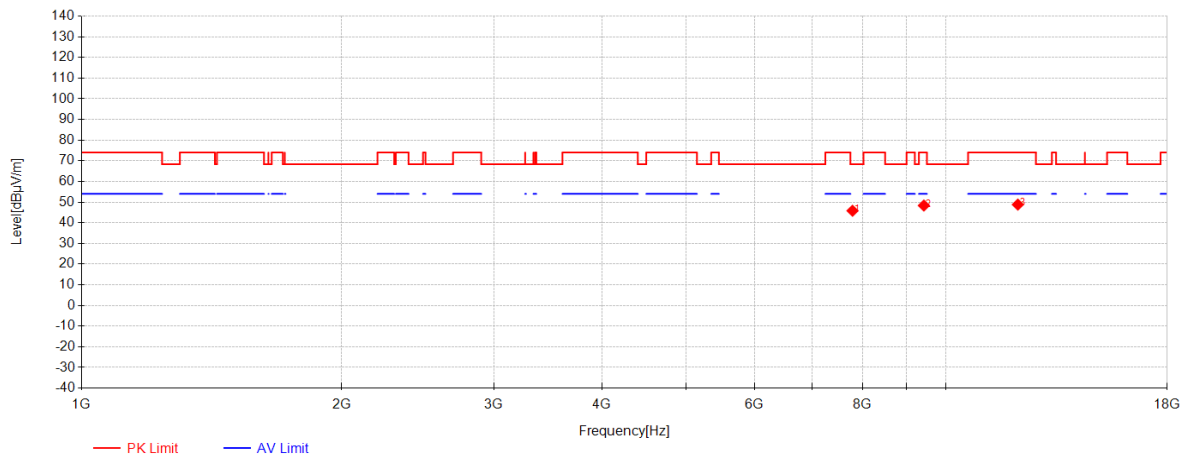


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7856.2333	46.18	36.96	-36.87	46.26	68.30	22.04	Horizontal
2	9452.4333	43.93	37.74	-33.79	47.88	74.00	26.12	Horizontal
3	11923.0167	40.25	38.40	-29.00	49.65	74.00	24.35	Horizontal

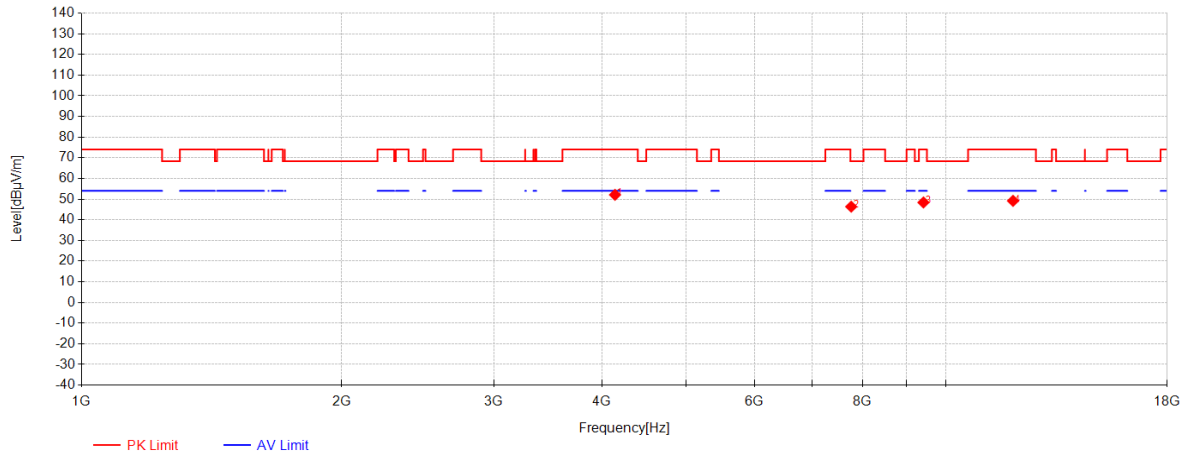


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7538.0667	45.64	36.64	-37.66	44.62	74.00	29.38	Vertical
2	9359.2833	45.25	37.71	-34.00	48.96	74.00	25.04	Vertical
3	11339.5833	41.42	38.40	-30.25	49.57	74.00	24.43	Vertical

802.11ax40_Channel 46

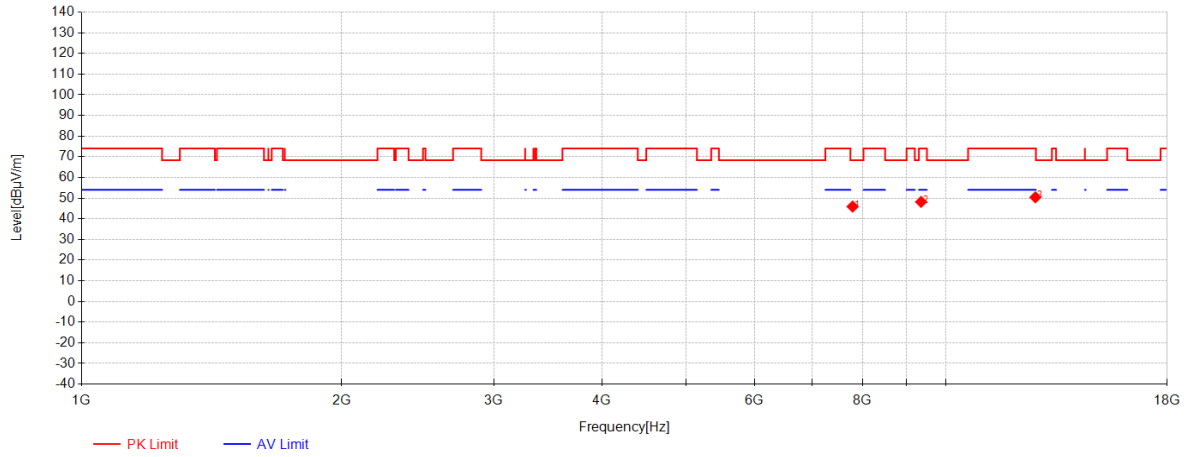


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7793.3667	45.75	36.89	-36.81	45.83	68.30	22.47	Horizontal
2	9423.3	44.56	37.73	-33.93	48.36	74.00	25.64	Horizontal
3	12103.95	39.78	38.52	-29.50	48.81	74.00	25.19	Horizontal

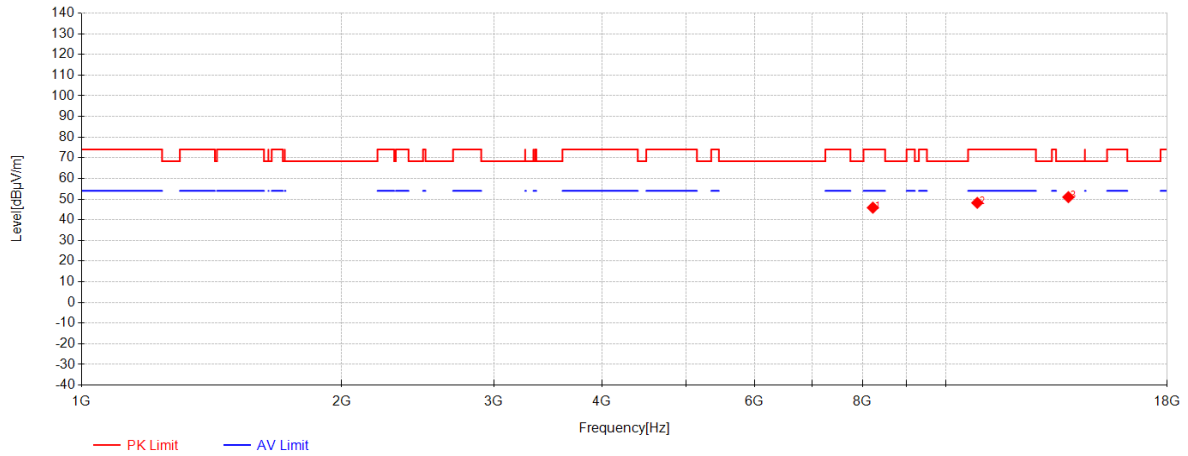


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4140.9583	39.29	31.53	-18.72	52.10	74.00	21.90	Vertical
2	7766.15	46.40	36.87	-36.91	46.36	68.30	21.94	Vertical
3	9413.3333	44.64	37.72	-33.98	48.39	74.00	25.61	Vertical
4	11947.9333	39.87	38.40	-29.10	49.17	74.00	24.83	Vertical

802.11ax40_Channel 54

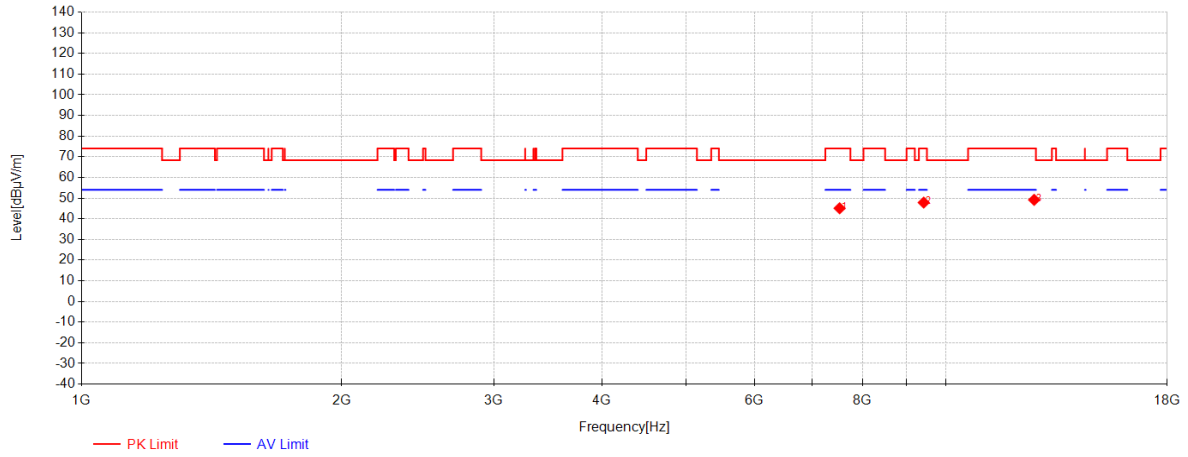


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7794.9	45.82	36.89	-36.81	45.91	68.30	22.39	Horizontal
2	9354.6833	44.49	37.71	-33.99	48.20	74.00	25.80	Horizontal
3	12682.4	40.78	39.22	-29.59	50.40	74.00	23.60	Horizontal

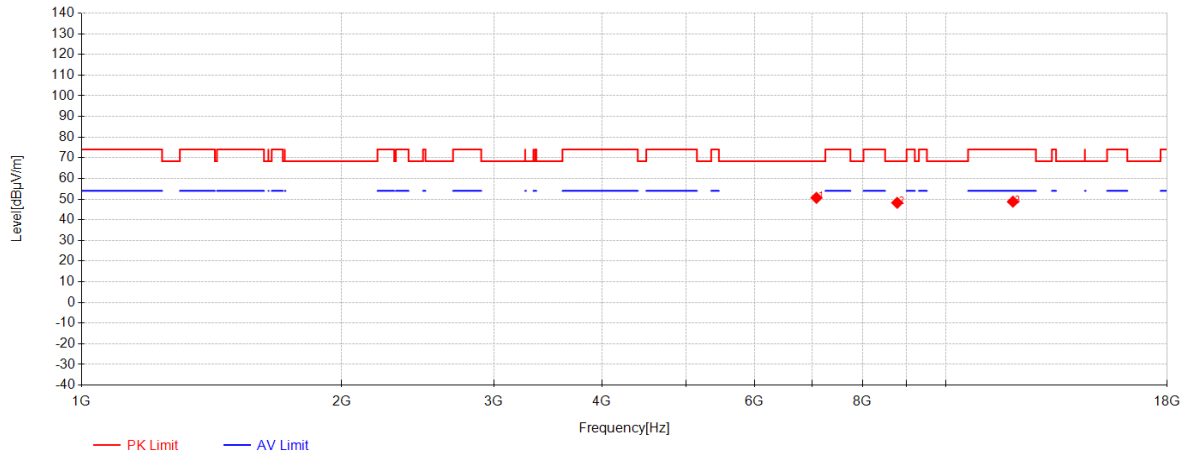


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8226.9167	44.82	37.21	-36.15	45.88	74.00	28.12	Vertical
2	10864.25	40.24	38.33	-30.37	48.20	74.00	25.80	Vertical
3	13845.4333	39.66	40.19	-28.87	50.98	68.30	17.32	Vertical

802.11ax40_Channel 62

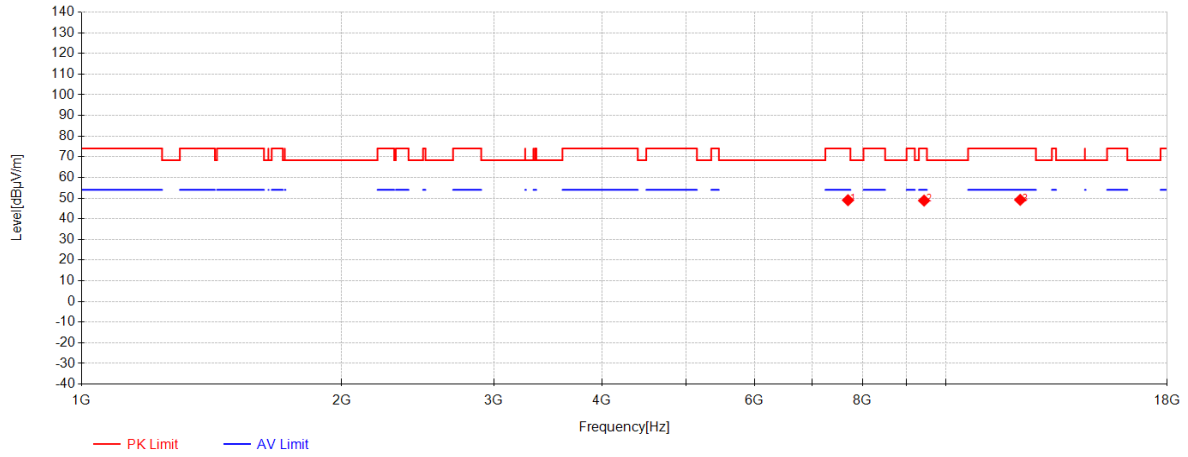


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7530.0167	46.11	36.63	-37.65	45.09	74.00	28.91	Horizontal
2	9419.85	44.06	37.73	-33.94	47.84	74.00	26.16	Horizontal
3	12639.0833	39.72	39.17	-29.73	49.16	74.00	24.84	Horizontal

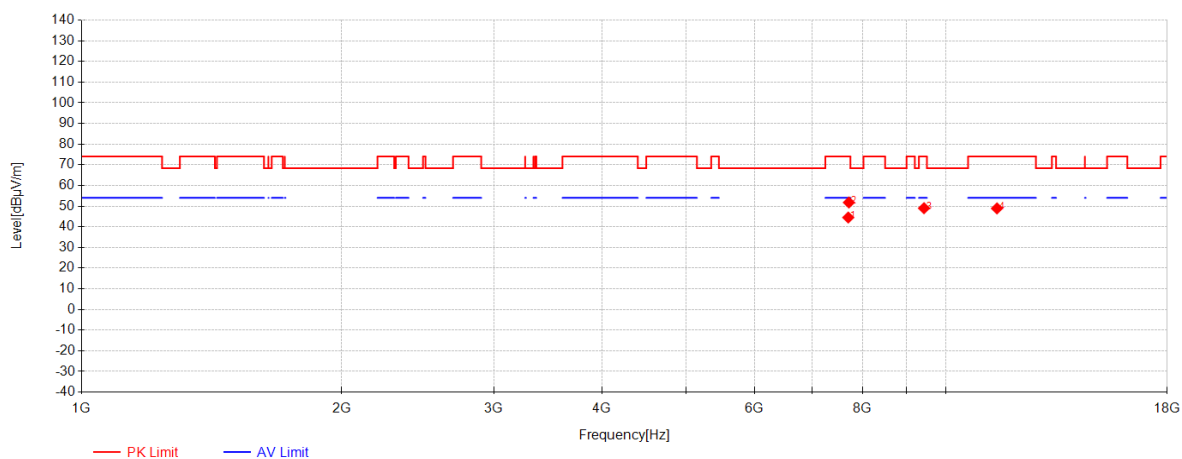


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7079.9833	52.69	36.10	-38.16	50.62	68.30	17.68	Vertical
2	8777.7667	45.61	37.49	-34.89	48.21	68.30	20.09	Vertical
3	11946.0167	39.45	38.40	-29.09	48.76	74.00	25.24	Vertical

802.11ax40_Channel 102

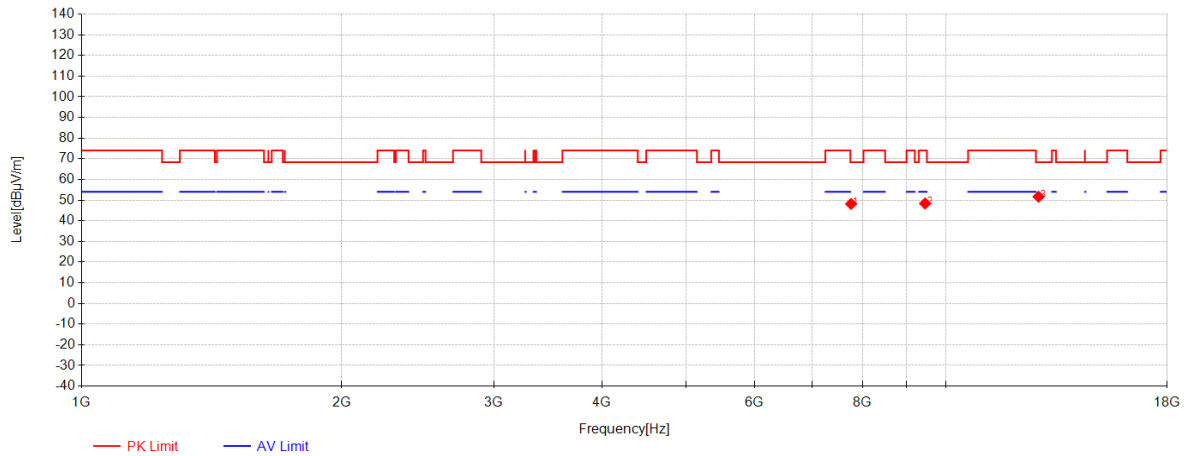


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7699.8333	49.34	36.80	-37.13	49.01	74.00	24.99	Horizontal
2	9428.2833	44.99	37.73	-33.90	48.81	74.00	25.19	Horizontal
3	12179.85	40.03	38.62	-29.48	49.16	74.00	24.84	Horizontal

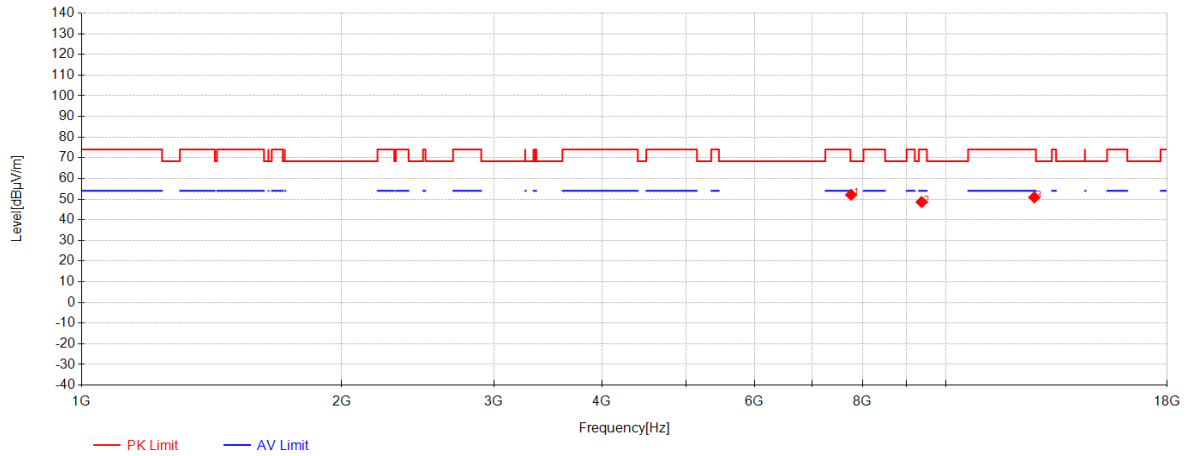


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7705.5833	44.81	36.81	-37.11	44.50	54.00	9.50	Vertical
2	7718.6167	52.00	36.82	-37.07	51.75	74.00	22.25	Vertical
3	9427.1333	45.19	37.73	-33.91	49.01	74.00	24.99	Vertical
4	11448.8333	40.42	38.40	-29.92	48.90	74.00	25.10	Vertical

802.11ax40_Channel 110

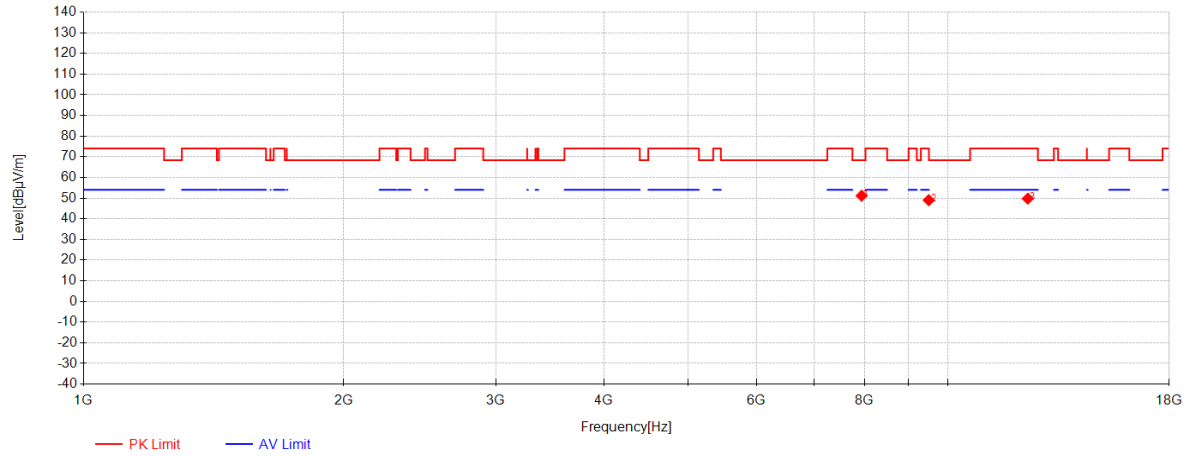


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7763.85	48.23	36.86	-36.91	48.18	68.30	20.12	Horizontal
2	9454.7333	44.43	37.74	-33.78	48.39	74.00	25.61	Horizontal
3	12789.35	42.18	39.35	-29.87	51.66	68.30	16.64	Horizontal

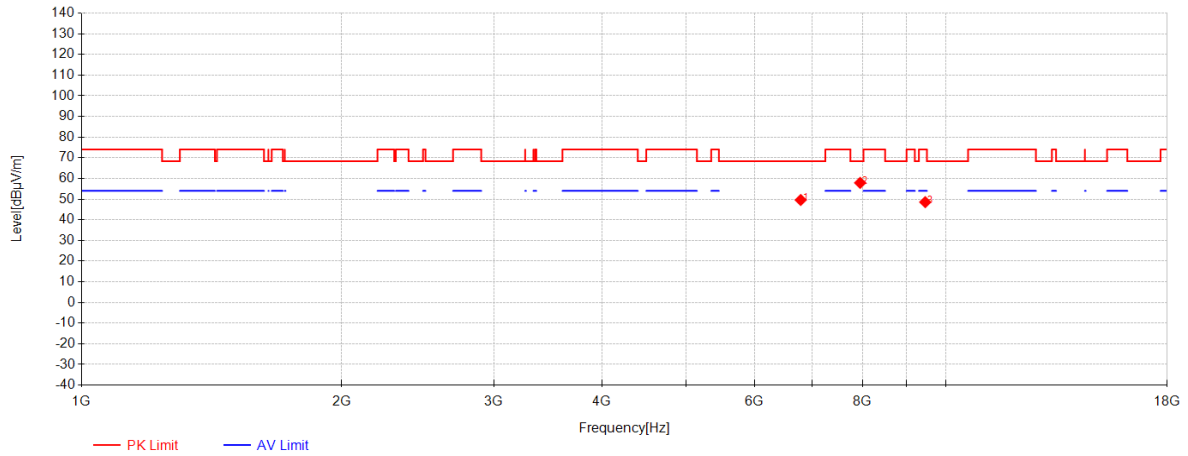


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7764.6167	52.16	36.86	-36.91	52.11	68.30	16.19	Vertical
2	9366.95	44.89	37.71	-34.01	48.59	74.00	25.41	Vertical
3	12644.0667	41.40	39.17	-29.71	50.86	74.00	23.14	Vertical

802.11ax40_Channel 134

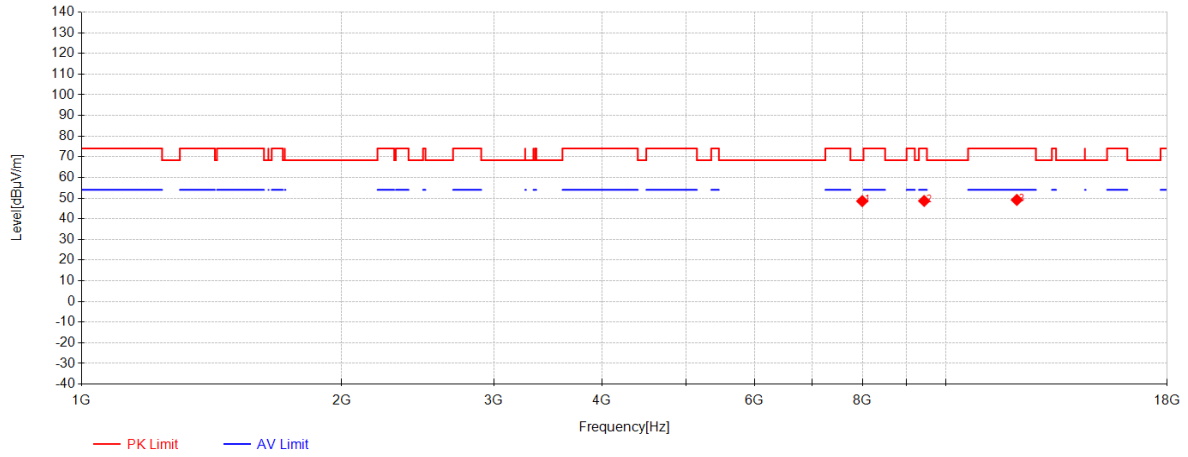


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7942.8667	51.01	37.04	-36.88	51.17	68.30	17.13	Horizontal
2	9496.1333	44.84	37.75	-33.58	49.01	74.00	24.99	Horizontal
3	12362.3167	40.29	38.83	-29.36	49.77	74.00	24.23	Horizontal

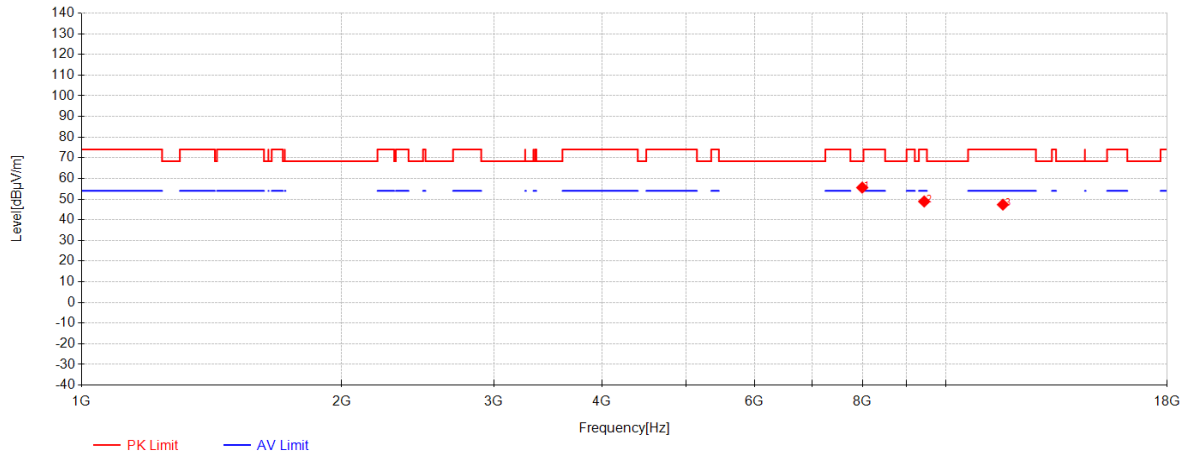


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6789.0333	52.04	35.92	-38.36	49.59	68.30	18.71	Vertical
2	7952.8333	57.70	37.05	-36.87	57.88	68.30	10.42	Vertical
3	9458.1833	44.57	37.74	-33.76	48.55	74.00	25.45	Vertical

802.11ax40_Channel 142

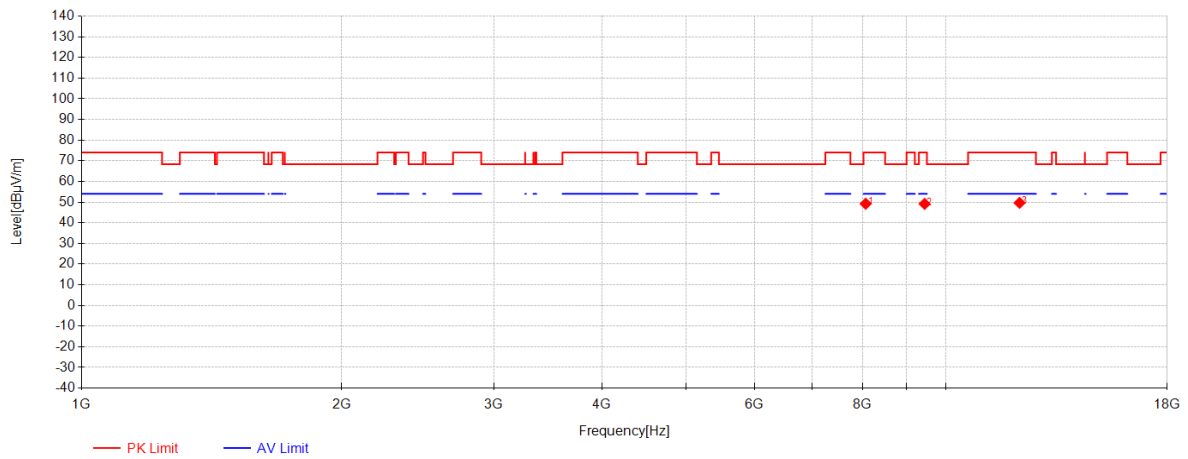


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7998.0667	48.26	37.10	-36.81	48.55	68.30	19.75	Horizontal
2	9430.9667	44.80	37.73	-33.89	48.64	74.00	25.36	Horizontal
3	12070.2167	40.11	38.48	-29.44	49.15	74.00	24.85	Horizontal

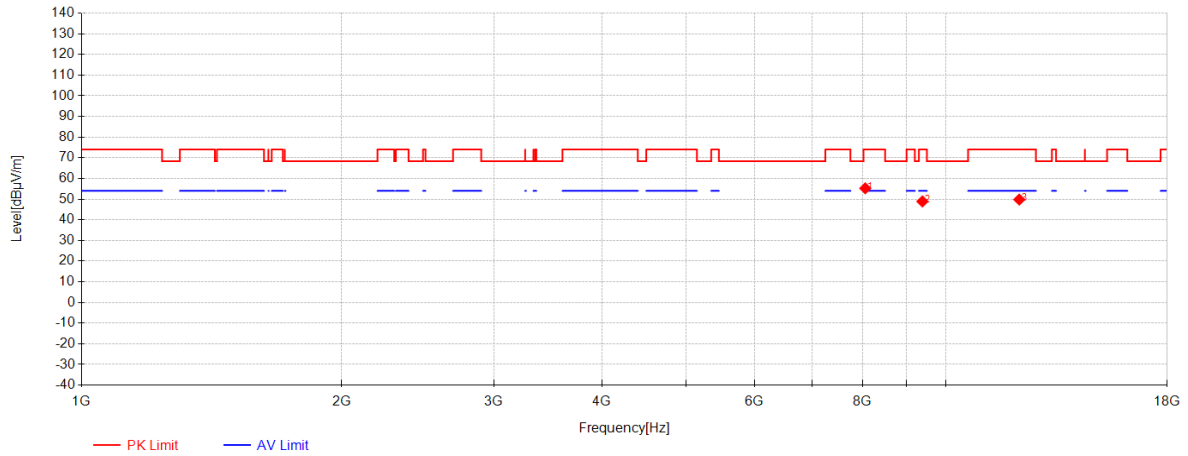


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7997.3	55.29	37.10	-36.81	55.57	68.30	12.73	Vertical
2	9431.35	45.02	37.73	-33.89	48.86	74.00	25.14	Vertical
3	11630.9167	38.53	38.40	-29.59	47.34	74.00	26.66	Vertical

802.11ax40_Channel 151

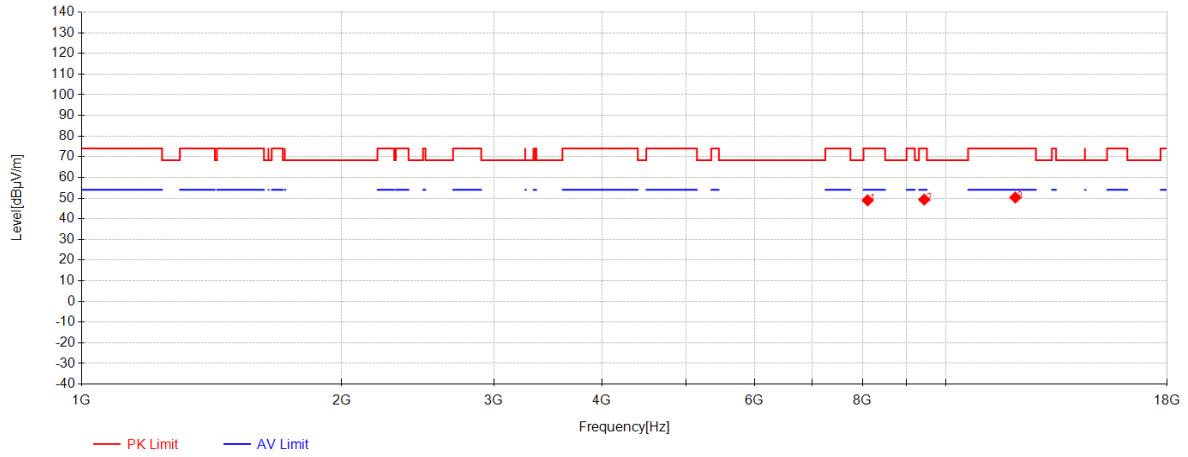


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8072.05	48.71	37.14	-36.63	49.22	74.00	24.78	Horizontal
2	9441.7	45.26	37.73	-33.84	49.15	74.00	24.85	Horizontal
3	12158.7667	40.54	38.59	-29.49	49.64	74.00	24.36	Horizontal

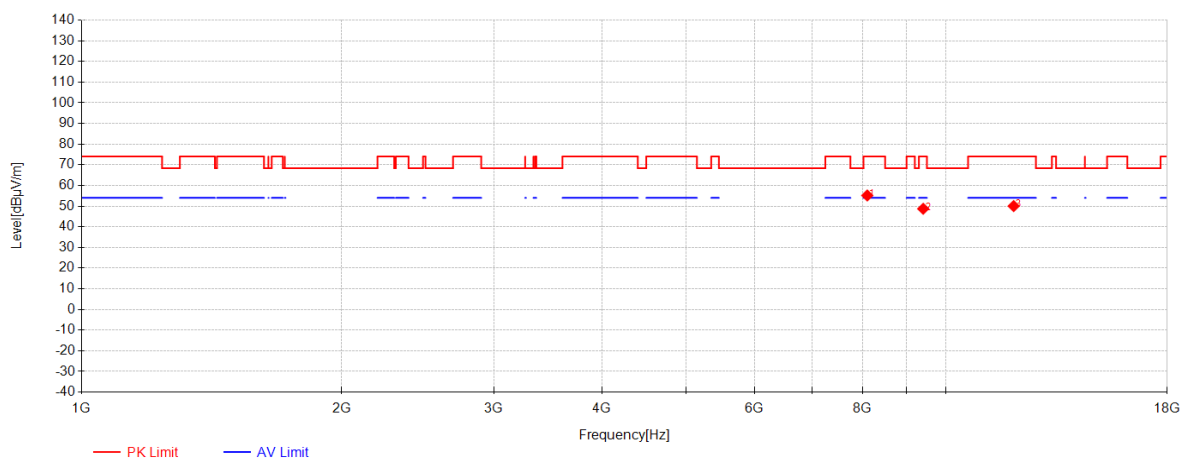


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8062.0833	54.75	37.13	-36.65	55.23	74.00	18.77	Vertical
2	9388.4167	45.20	37.72	-34.03	48.89	74.00	25.11	Vertical
3	12149.1833	40.70	38.58	-29.49	49.79	74.00	24.21	Vertical

802.11ax40_Channel 159

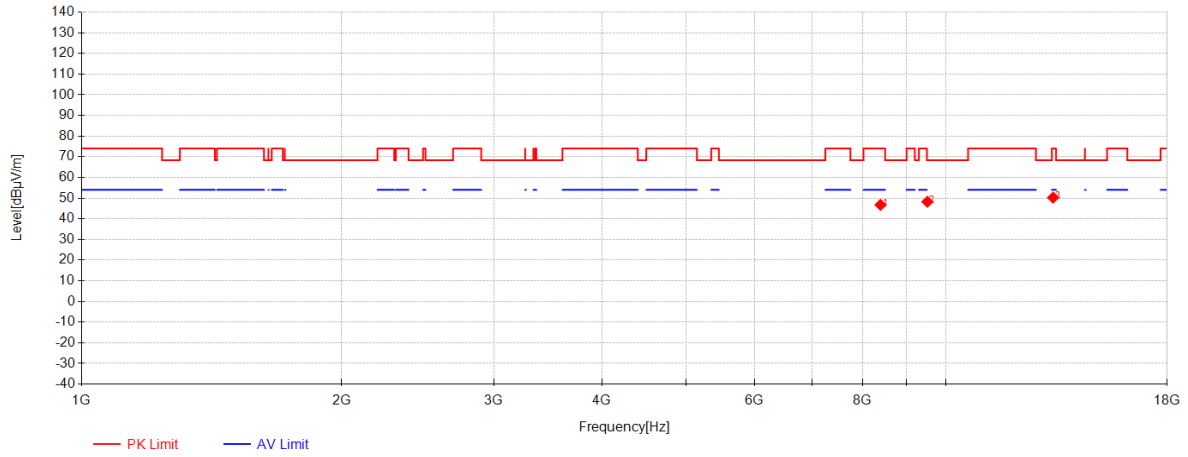


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8113.45	48.28	37.16	-36.51	48.92	74.00	25.08	Horizontal
2	9432.1167	45.45	37.73	-33.89	49.29	74.00	24.71	Horizontal
3	12021.15	41.21	38.43	-29.34	50.29	74.00	23.71	Horizontal

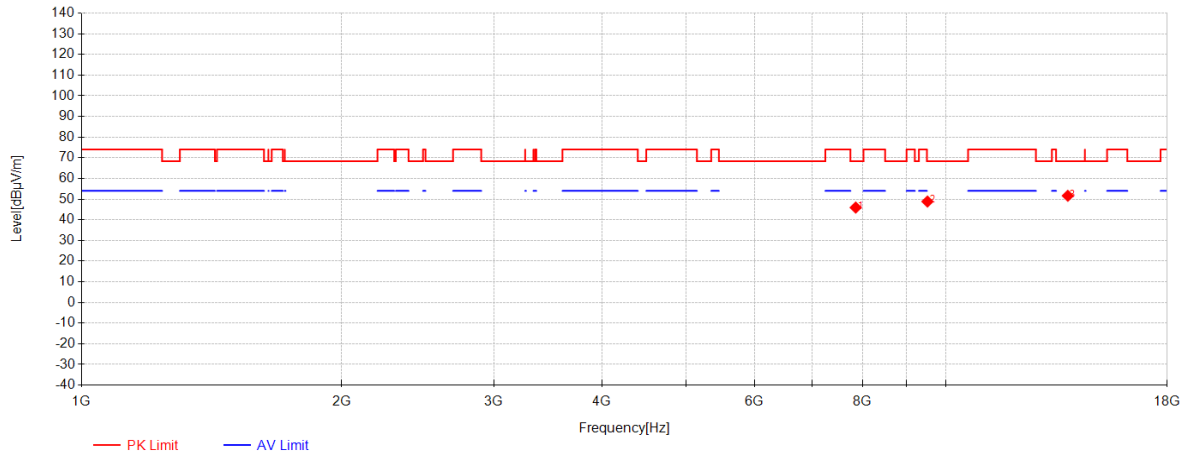


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8106.55	54.54	37.15	-36.54	55.16	74.00	18.84	Vertical
2	9407.2	45.01	37.72	-34.01	48.73	74.00	25.27	Vertical
3	11969.4	40.81	38.40	-29.18	50.03	74.00	23.97	Vertical

802.11ax80_Channel 42

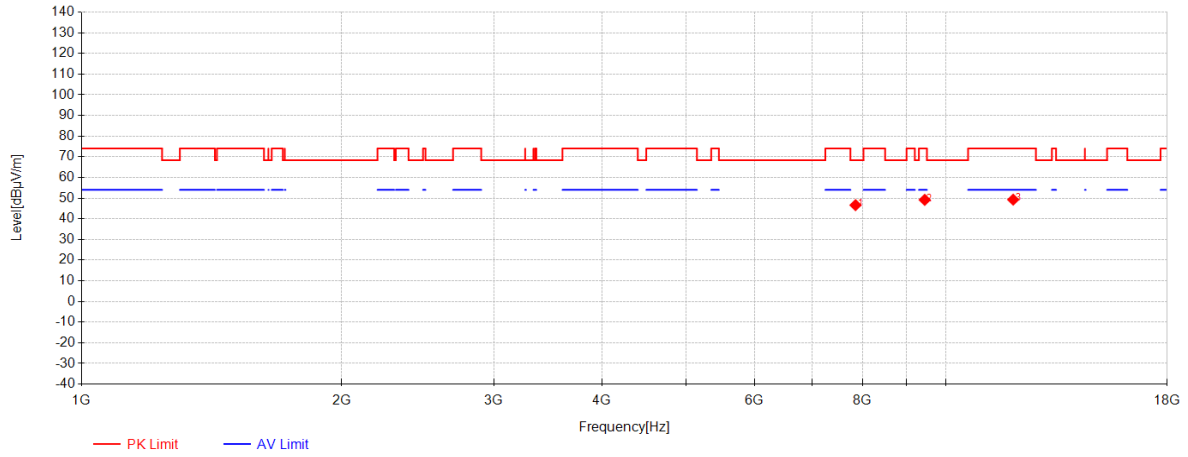


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8396.7333	45.23	37.30	-35.80	46.73	74.00	27.27	Horizontal
2	9511.85	44.06	37.75	-33.56	48.26	68.30	20.04	Horizontal
3	13293.4333	39.84	39.81	-29.41	50.24	74.00	23.76	Horizontal

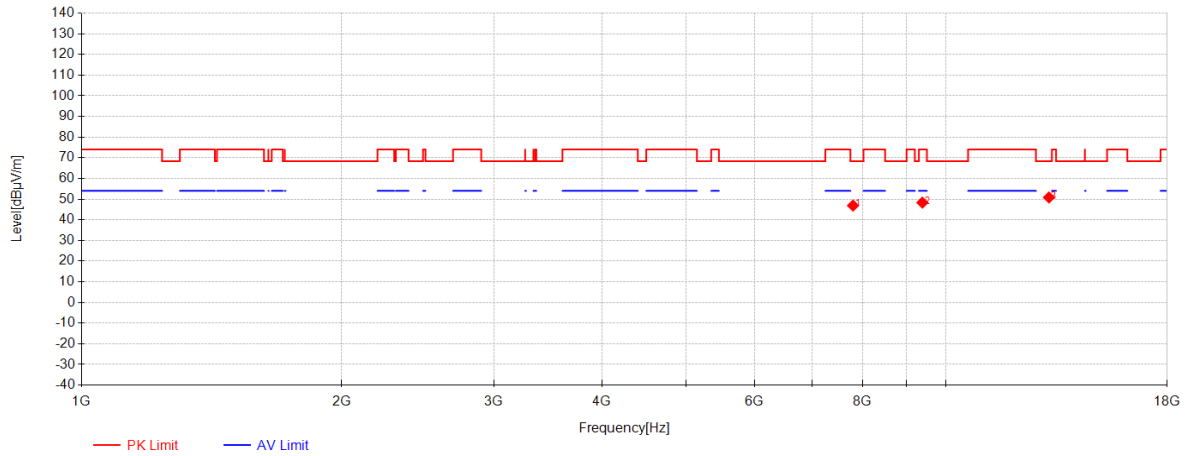


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7859.6833	45.85	36.96	-36.88	45.93	68.30	22.37	Vertical
2	9514.9167	44.64	37.75	-33.56	48.84	68.30	19.46	Vertical
3	13825.1167	40.48	40.18	-29.05	51.61	68.30	16.69	Vertical

802.11ax80_Channel 58

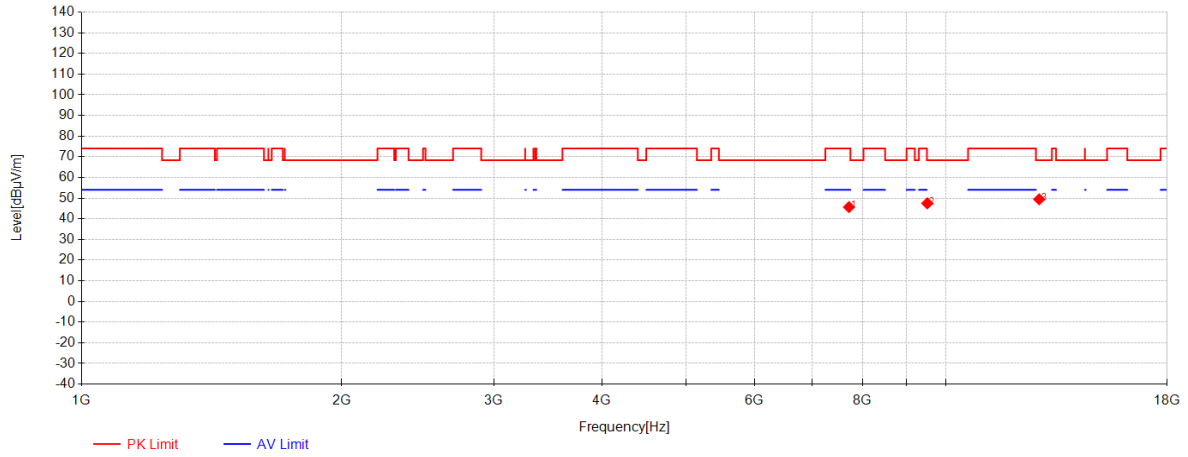


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7856.2333	46.54	36.96	-36.87	46.62	68.30	21.68	Horizontal
2	9445.15	45.25	37.73	-33.82	49.16	74.00	24.84	Horizontal
3	11954.0667	40.00	38.40	-29.12	49.28	74.00	24.72	Horizontal

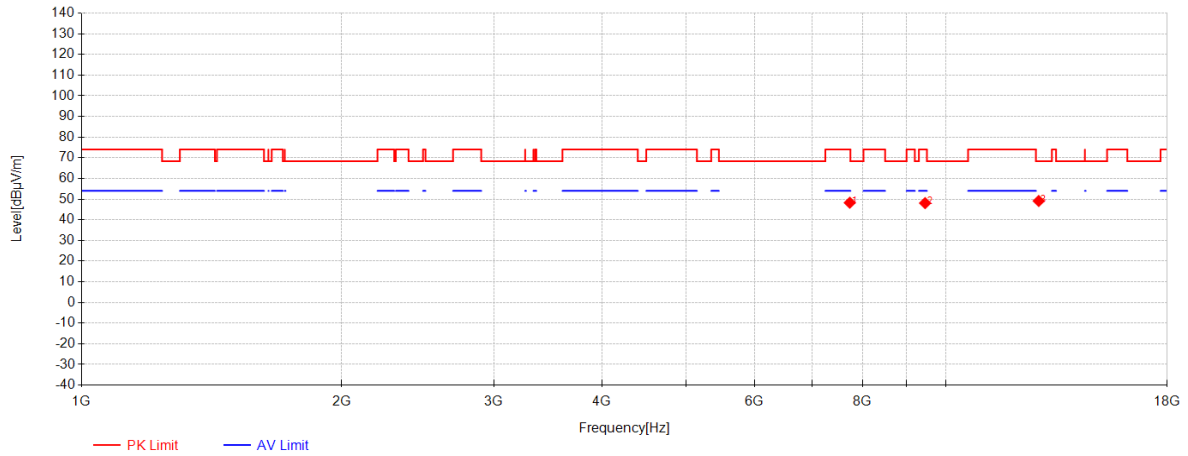


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7803.7167	46.77	36.90	-36.80	46.88	68.30	21.42	Vertical
2	9386.8833	44.62	37.72	-34.03	48.31	74.00	25.69	Vertical
3	13148.5333	40.15	39.70	-29.05	50.80	68.30	17.50	Vertical

802.11ax80_Channel 106

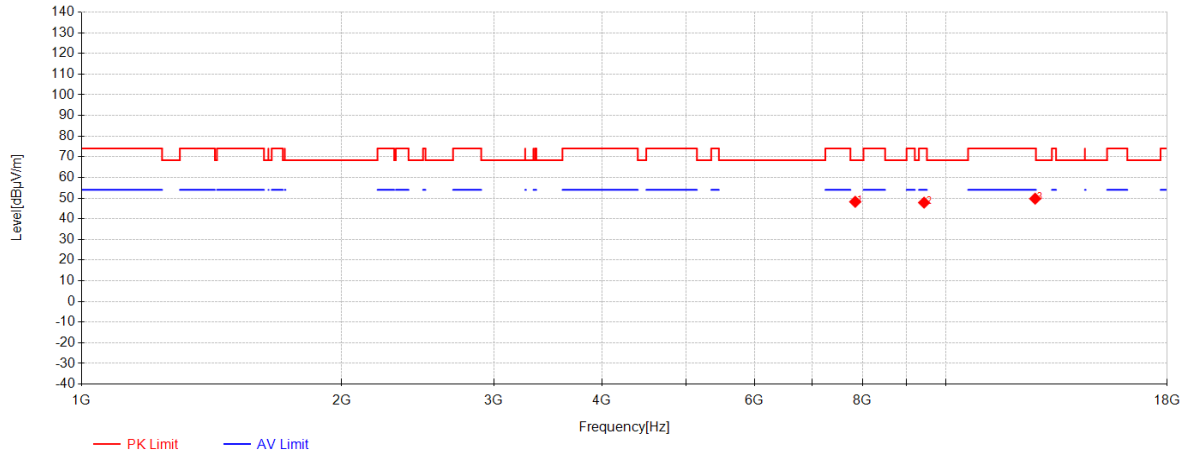


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7720.9167	45.91	36.82	-37.06	45.67	74.00	28.33	Horizontal
2	9509.9333	43.29	37.75	-33.56	47.49	68.30	20.81	Horizontal
3	12810.4333	39.94	39.37	-29.86	49.46	68.30	18.84	Horizontal

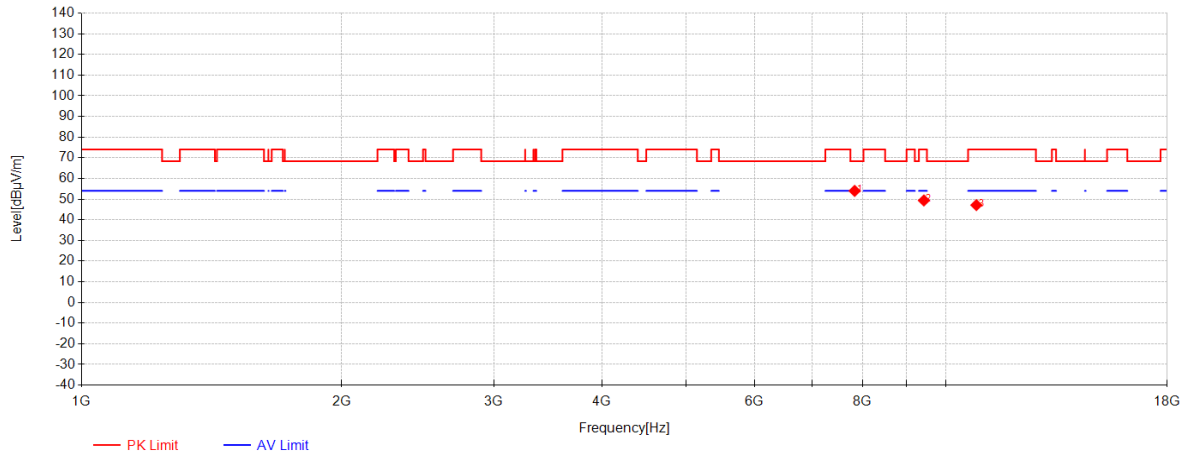


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7737.0167	48.44	36.84	-37.00	48.27	74.00	25.73	Vertical
2	9454.35	44.11	37.74	-33.78	48.07	74.00	25.93	Vertical
3	12794.7167	39.64	39.35	-29.89	49.10	68.30	19.20	Vertical

802.11ax80_Channel 122

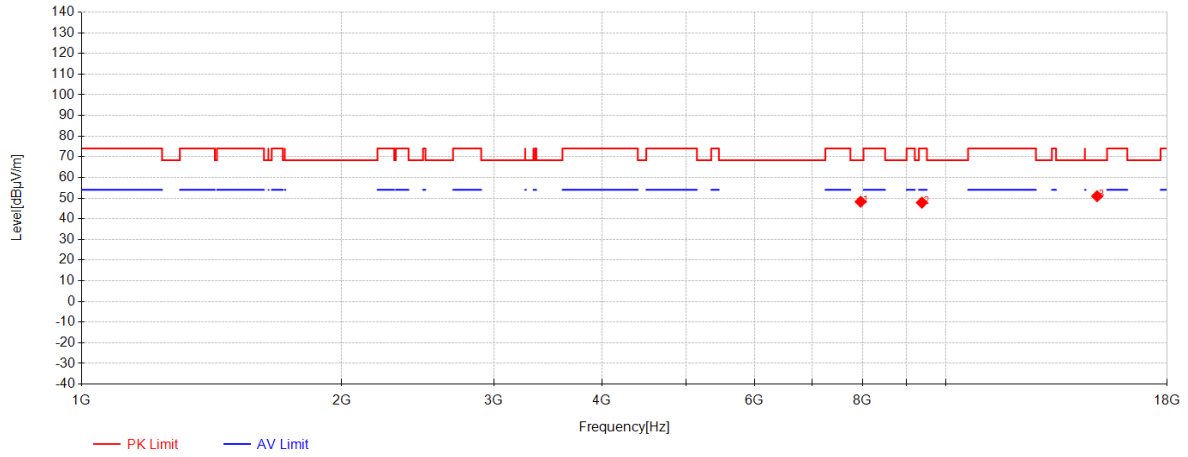


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7850.4833	48.15	36.95	-36.87	48.23	68.30	20.07	Horizontal
2	9429.05	43.99	37.73	-33.90	47.82	74.00	26.18	Horizontal
3	12674.35	40.13	39.21	-29.62	49.72	74.00	24.28	Horizontal

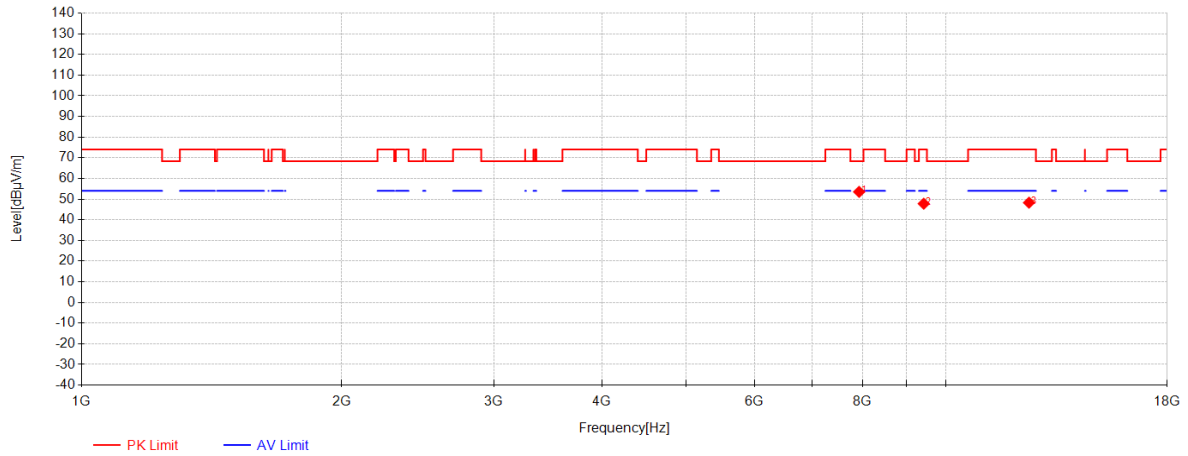


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7838.2167	53.90	36.94	-36.85	53.99	68.30	14.31	Vertical
2	9424.45	45.55	37.73	-33.92	49.35	74.00	24.65	Vertical
3	10838.1833	39.14	38.32	-30.36	47.10	74.00	26.90	Vertical

802.11ax80_Channel 138

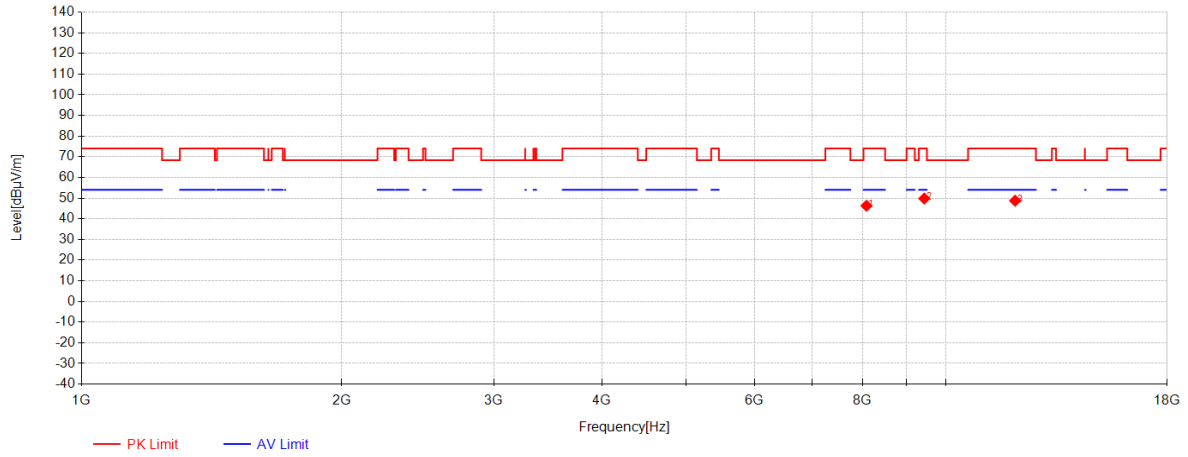


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7963.5667	48.06	37.06	-36.86	48.27	68.30	20.03	Horizontal
2	9374.2333	44.13	37.71	-34.01	47.83	74.00	26.17	Horizontal
3	14948.2833	38.86	40.11	-28.04	50.93	68.30	17.37	Horizontal

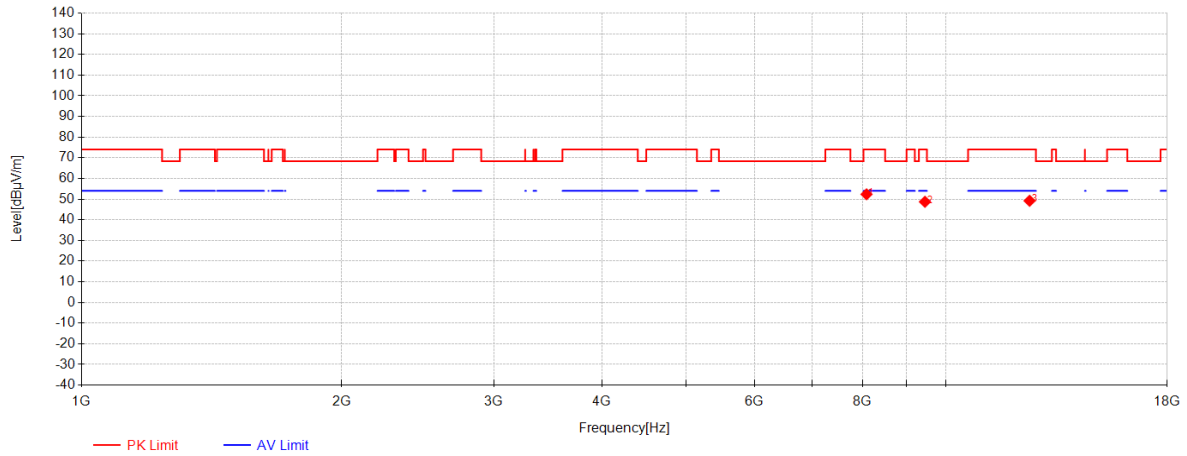


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7931.3667	53.40	37.03	-36.90	53.53	68.30	14.77	Vertical
2	9420.2333	44.01	37.73	-33.94	47.79	74.00	26.21	Vertical
3	12468.5	38.91	38.96	-29.58	48.30	74.00	25.70	Vertical

802.11ax80_Channel 155

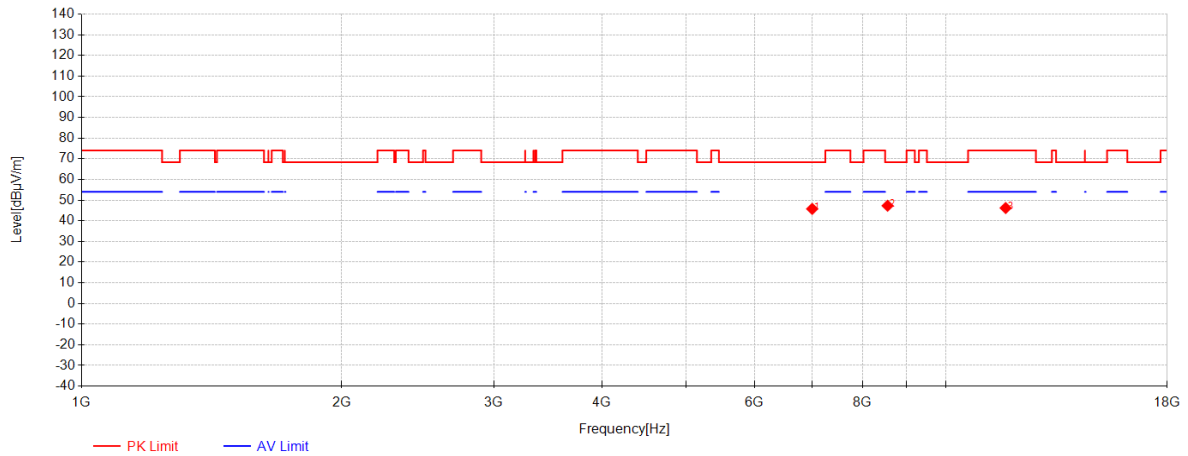


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8088.9167	45.76	37.14	-36.59	46.32	74.00	27.68	Horizontal
2	9434.8	45.94	37.73	-33.87	49.80	74.00	24.20	Horizontal
3	12016.55	39.65	38.42	-29.33	48.74	74.00	25.26	Horizontal

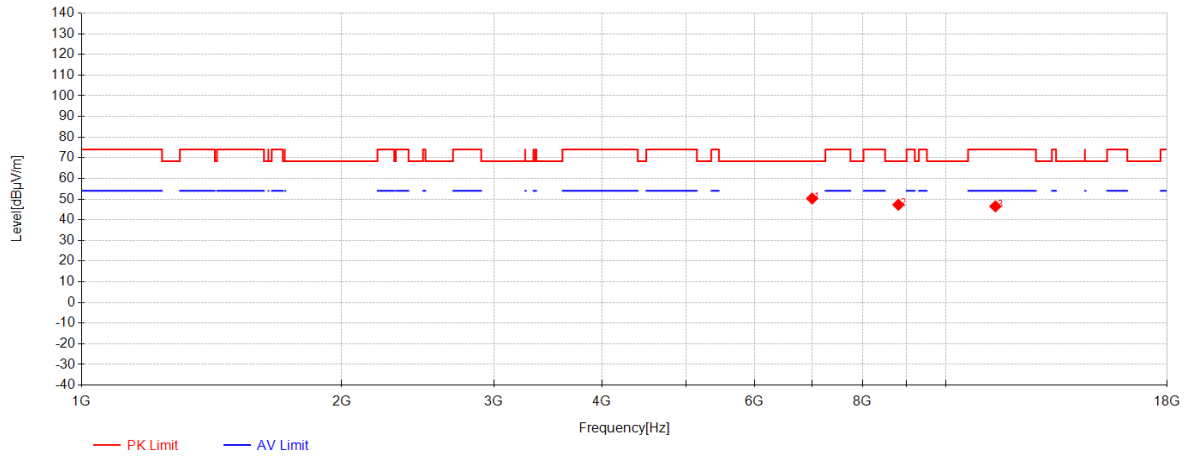


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8089.6833	51.77	37.14	-36.59	52.33	74.00	21.67	Vertical
2	9450.5167	44.77	37.74	-33.80	48.71	74.00	25.29	Vertical
3	12486.9	39.95	38.98	-29.74	49.19	74.00	24.81	Vertical

802.11ax160_Channel 50

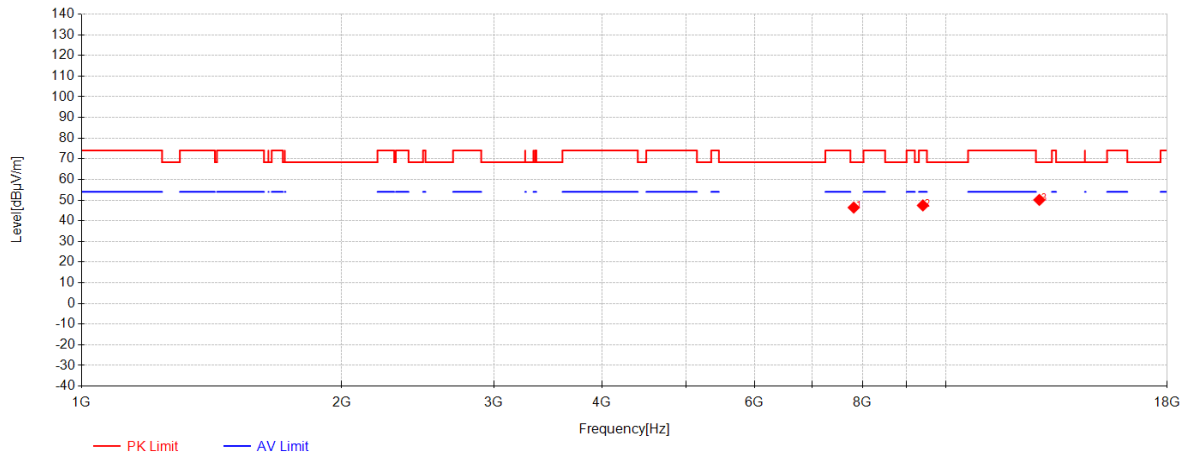


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6999.8667	47.47	36.00	-37.70	45.77	68.30	22.53	Horizontal
2	8556.2	45.43	37.38	-35.52	47.29	68.30	21.01	Horizontal
3	11717.1667	37.46	38.40	-29.68	46.18	74.00	27.82	Horizontal

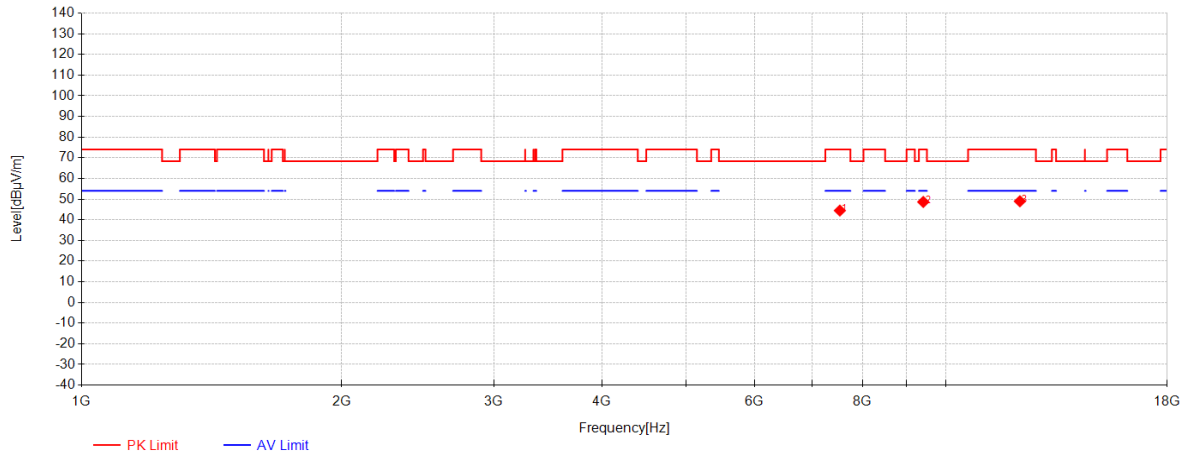


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6999.8667	52.01	36.00	-37.70	50.31	68.30	17.99	Vertical
2	8805.75	44.62	37.50	-34.83	47.29	68.30	21.01	Vertical
3	11400.9167	37.97	38.40	-29.86	46.51	74.00	27.49	Vertical

802.11ax160_Channel 114



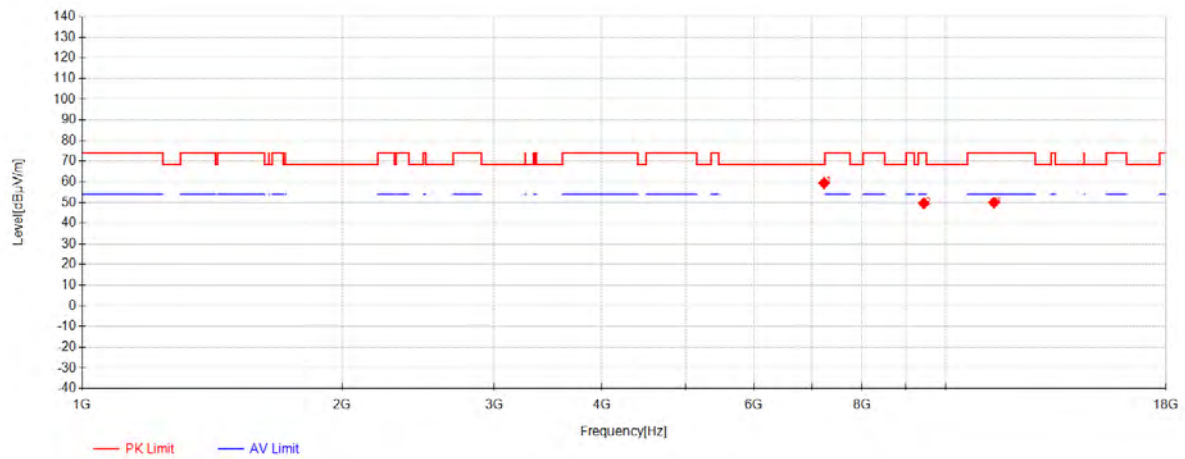
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7818.2833	46.31	36.92	-36.82	46.41	68.30	21.89	Horizontal
2	9400.3	43.76	37.72	-34.04	47.44	74.00	26.56	Horizontal
3	12817.3333	40.55	39.38	-29.82	50.11	68.30	18.19	Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7535	45.50	36.63	-37.66	44.48	74.00	29.52	Vertical
2	9408.7333	44.92	37.72	-34.00	48.64	74.00	25.36	Vertical
3	12168.35	39.85	38.60	-29.49	48.97	74.00	25.03	Vertical

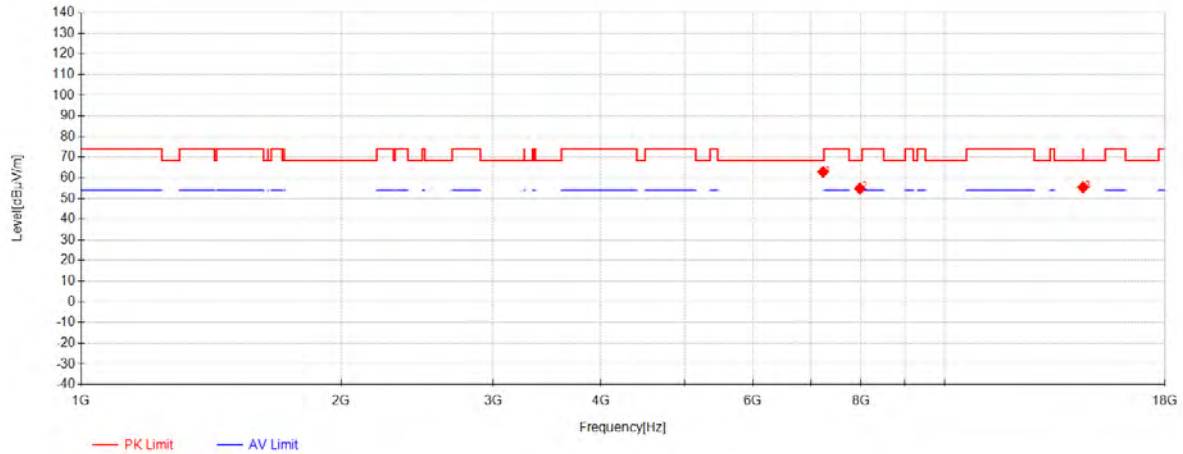
7.3.5 Co-location*

802.2.4GWIFI 11n20 CH01+5GWIFI 11a CH140+LTE B48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7232.1667	65.17	36.28	-42.06	59.39	68.30	8.91	Horizontal
2	9435.5667	50.42	37.73	-38.57	49.58	74.00	24.42	Horizontal
3	11377.9167	47.27	38.40	-35.70	49.97	74.00	24.03	Horizontal

802.2.4GWIFI 11n20 CH01+5GWIFI 11a CH140+LTE B48



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	7232.1667	68.62	36.28	-42.06	62.84	68.30	5.46	Vertical
2	7978.1333	59.04	37.08	-41.25	54.87	68.30	13.43	Vertical
3	14464.5167	49.73	40.21	-34.44	55.49	68.30	12.81	Vertical

Note: * AF68E is a Wi-Fi & Bluetooth Module that only supports Wi-Fi and Bluetooth functions, and needs to be tested with a PCBA board. This PCBA board integrates a WWAN module AG555Q-GL. In this Co-location test, both AF68E and AG555Q-GL have been included in the scope of evaluation and testing.

7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(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:

(i) 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 25 MHz 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 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

Humidity: 51.3 % RH

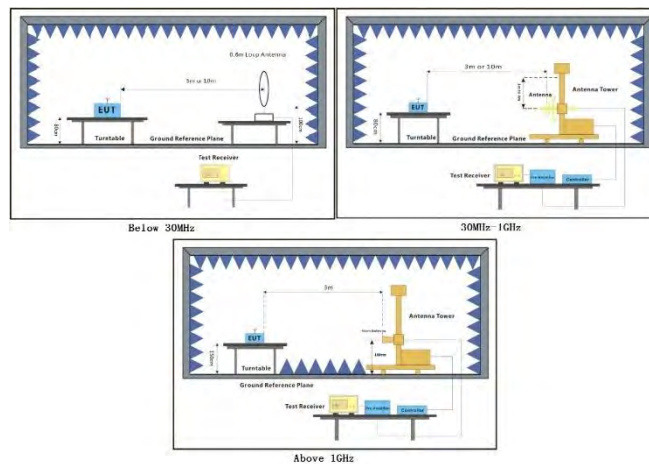
Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level = Read Level + Cable Loss + Antenna Factor - Preamplifier Factor

2. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac/ax modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.