TEST REPORT

Application No.:	KSCR2408001624AT
FCC ID:	2ASCB-DH043TLB
Name of Testing Laboratory preparing the Report:	Compliance Certification Services (Kunshan) Inc.
Address of Testing Laboratory preparing the Report:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Applicant:	D2G Group LLC
Address of Applicant:	81 Commerce Drive Fall River, MA 02720 USA
Manufacturer:	D2G Group LLC
Address of Manufacturer:	81 Commerce Drive Fall River, MA 02720 USA
Factory:	Zhejiang Uniview System Technology Co., Ltd.
Address of Factory:	No.1277 Qingfeng South Road (South), Tongxiang Economic Development Zone, Tongxiang City, Jiaxing City, 314500, Zhejiang, China
Equipment Under Test (EUT):	
EUT Name:	Digital Signage
Model No.:	DH043TLB, DH043NLB ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2024-08-23
Date of Test:	2024-09-12 to 2024-10-12
Date of Issue:	2024-10-15
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	2024-10-15	/

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)	Pass	N/A

Radio Spectrum Matter Part					
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
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass	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
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass	A
99% Bandwidth		KDB 789033 II D	N/A	Pass	A
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass	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	A
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass	A
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass	A
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass	A

Note: There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Only the model DH043TLB was tested since their differences were the model number and appearance.

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V/60Hz
Test voltage:	AC 120V/60Hz
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 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-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	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
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
Router	HAWEI	AX5400	/

4.3 Power level setting using in test

Channel	802.11a	802.11ac(VHT20)	802.11ax(HE20)
	Ant 1	Ant 1	Ant 1
36	15	16	18
40	16	18	17
48	16	17	17
52	16	17	16
60	15	16	15
64	15	16	17
149	16	15	19
157	16	18	17
165	17	17	16
Channel	802.11ac(VHT40)	802.11ax(HE40)	
	Ant 1	Ant 1	
38	16	17	
46	17	18	
54	17	18	
62	19	18	
151	20	20	
159	19	19	
Channel	802.11ac(VHT80)	802.11ax(HE80)	
	Ant 1	Ant 1	
42	19	20	
58	17	19	
155	20	19	

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 Emissions; Radiated Emissions which fall in the restricted bands test at:

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

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

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 A:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/24/2024	08/23/2025
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/24/2024	08/23/2025
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/24/2024	08/23/2025
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/24/2024	08/23/2025
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/24/2024	08/23/2025
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/24/2024	08/23/2025
10	Switcher	TST	FY562	KUS2001M001-4	01/15/2024	01/14/2025
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/15/2024	01/14/2025
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/24/2024	08/23/2025
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
16	Software	BST	TST-PASS	/	NCR	NCR

Lab B:

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/8/2024	2/7/2025
3	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025
4	Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025
5	Measurement Software	Tonscend	JS32-CE	SUWI-02-09-05	NCR	NCR
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	6/3/2023	6/2/2026
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2/8/2024	2/7/2025
3	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
4	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	11/21/2023	11/20/2024
5	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/25/2023	11/24/2024
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	11/25/2023	11/24/2024
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025
13	Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR
14	Measurement Software	Tonscend	JS32-RSE	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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Dipole Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to internal photo.

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(dBμV)	
	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.		

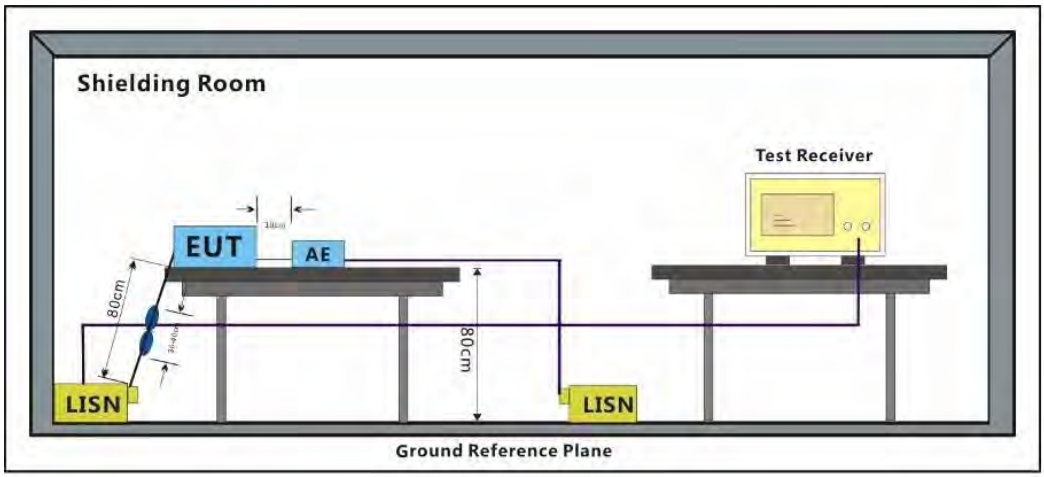
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % 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, 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.

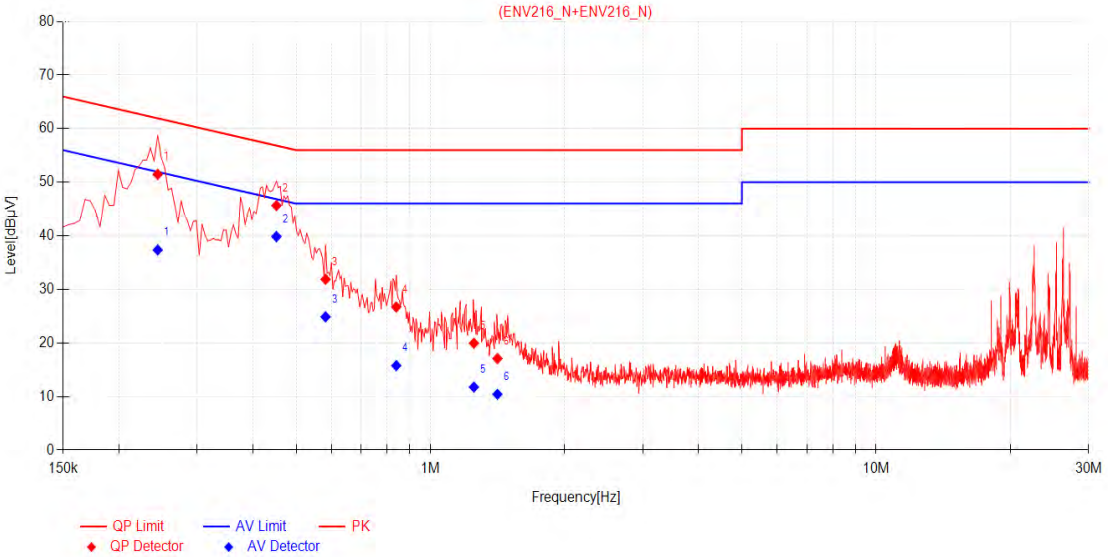
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as 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,

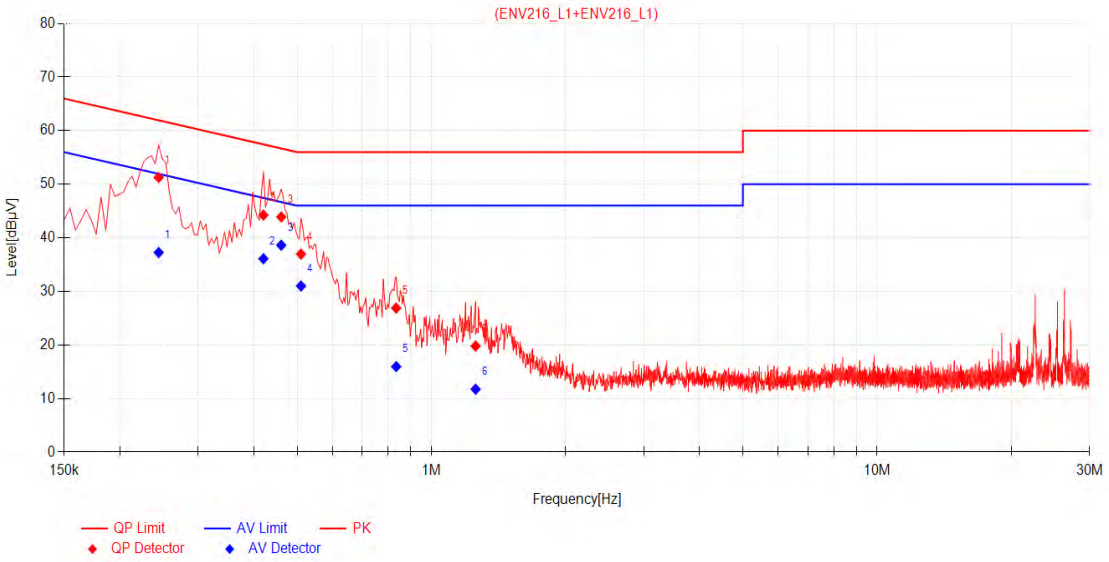
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test 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



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	0.2445	10.16	41.32	51.48	61.94	10.46	27.21	37.37	51.94	14.57	PASS
2	0.4515	10.16	35.49	45.65	56.85	11.20	29.70	39.86	46.85	6.99	PASS
3	0.5820	10.19	21.69	31.88	56.00	24.12	14.69	24.88	46.00	21.12	PASS
4	0.8385	10.14	16.58	26.72	56.00	29.28	5.63	15.77	46.00	30.23	PASS
5	1.2525	10.10	9.85	19.95	56.00	36.05	1.66	11.76	46.00	34.24	PASS
6	1.4145	10.11	6.99	17.10	56.00	38.90	0.32	10.43	46.00	35.57	PASS



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	0.2445	10.16	41.09	51.25	61.94	10.69	27.10	37.26	51.94	14.68	PASS
2	0.4200	10.17	34.08	44.25	57.45	13.20	25.93	36.10	47.45	11.35	PASS
3	0.4605	10.17	33.73	43.90	56.68	12.78	28.45	38.62	46.68	8.06	PASS
4	0.5100	10.18	26.78	36.96	56.00	19.04	20.83	31.01	46.00	14.99	PASS
5	0.8340	10.14	16.75	26.89	56.00	29.11	5.82	15.96	46.00	30.04	PASS
6	1.2570	10.08	9.71	19.79	56.00	36.21	1.66	11.74	46.00	34.26	PASS

7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

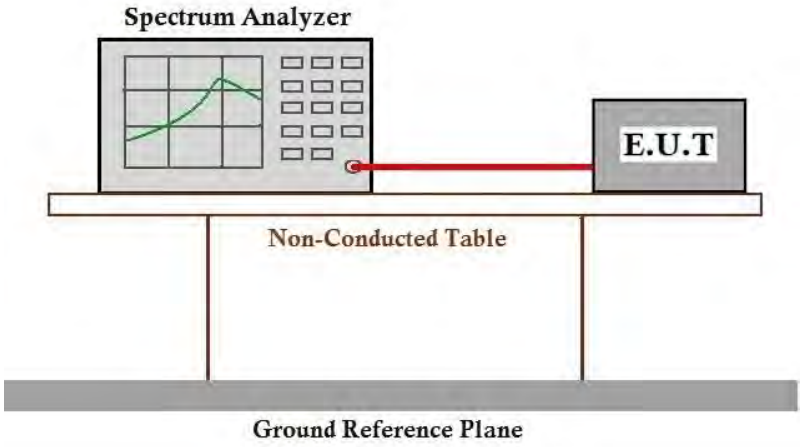
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.3 °C Humidity: 43.2 % 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, 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-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

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.3 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

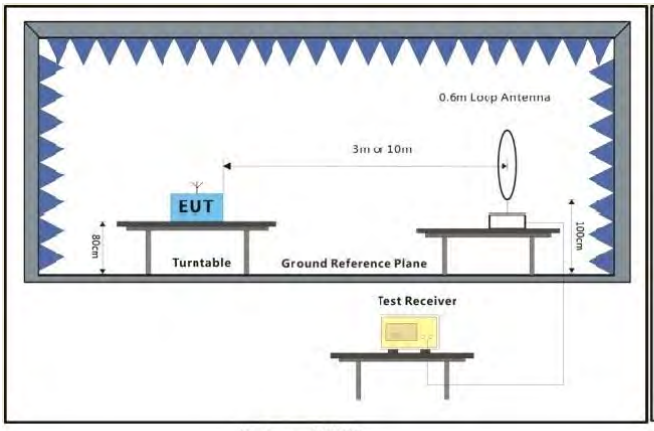
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

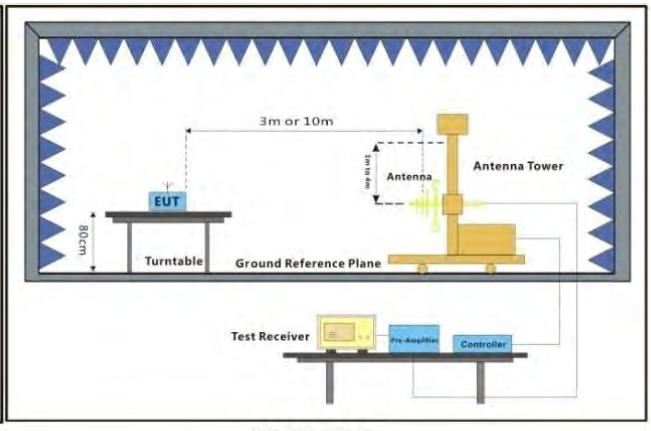
7.3.2 Test Mode Description

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.

7.3.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

7.3.4 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:

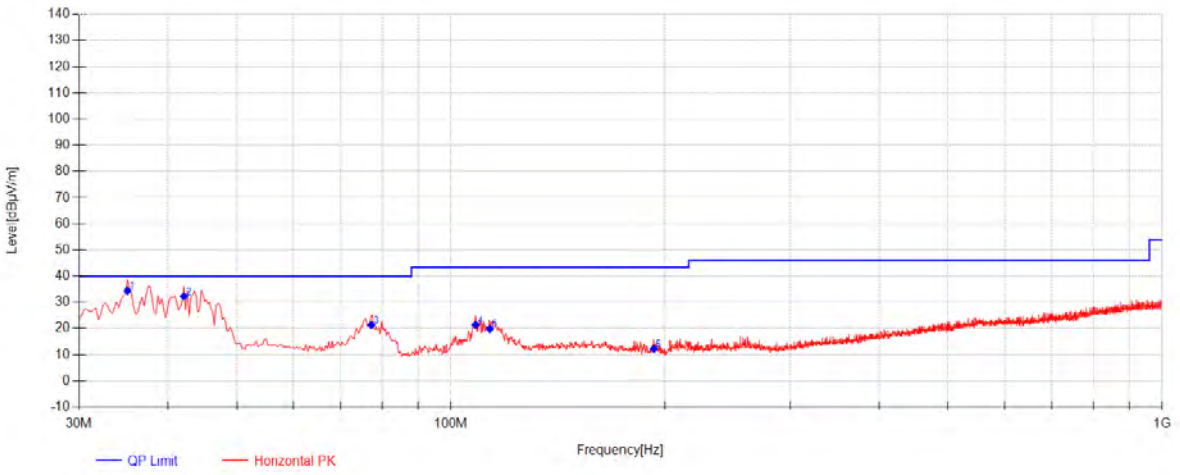
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.

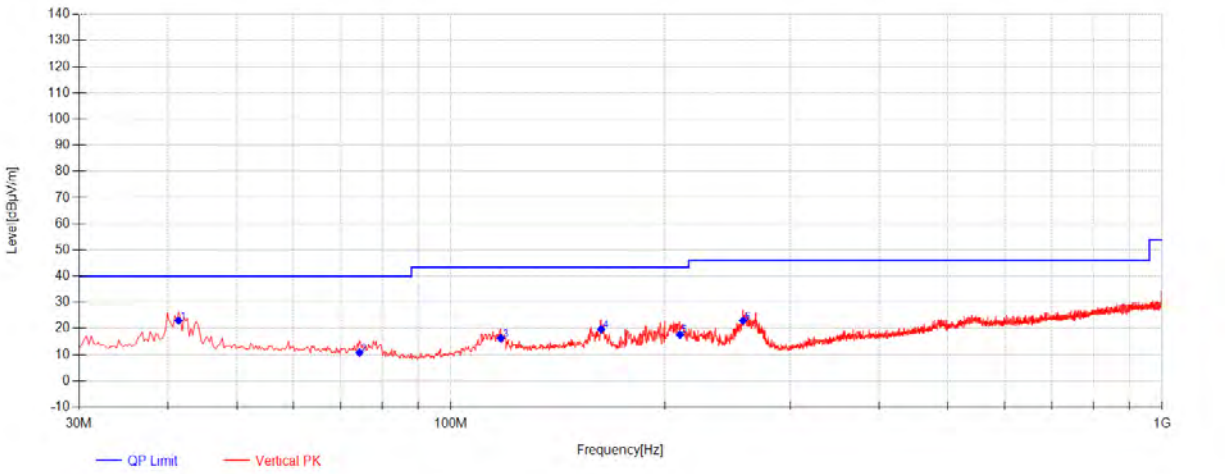
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

11a_Channel 64



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	35.0925	58.16	-42.36	18.72	34.52	40.00	5.48	Horizontal
2	42.125	55.20	-42.33	19.45	32.32	40.00	7.68	Horizontal
3	77.2875	47.26	-41.90	15.96	21.32	40.00	18.68	Horizontal
4	108.3275	46.85	-41.76	16.28	21.37	43.50	22.13	Horizontal
5	113.42	45.01	-41.77	16.64	19.88	43.50	23.62	Horizontal
6	192.96	37.46	-40.97	15.73	12.21	43.50	31.29	Horizontal

11a_Channel 64



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	41.3975	45.87	-42.33	19.50	23.04	40.00	16.96	Vertical
2	74.3775	36.26	-41.97	16.46	10.75	40.00	29.25	Vertical
3	117.5425	41.15	-41.76	16.93	16.31	43.50	27.19	Vertical
4	162.6475	42.26	-40.82	18.26	19.70	43.50	23.80	Vertical
5	209.935	43.02	-40.97	15.60	17.65	43.50	25.85	Vertical
6	257.465	46.13	-40.38	17.25	23.00	46.00	23.00	Vertical

7.4 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.		

7.4.1 E.U.T. Operation

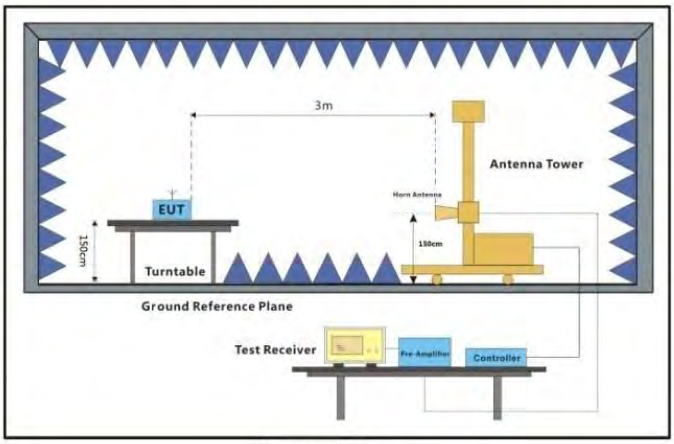
Operating Environment:
Temperature: 23 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

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-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



Above 1GHz

7.4.4 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. Level= Read Level+ Cable Loss+ Antenna Factor- 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.

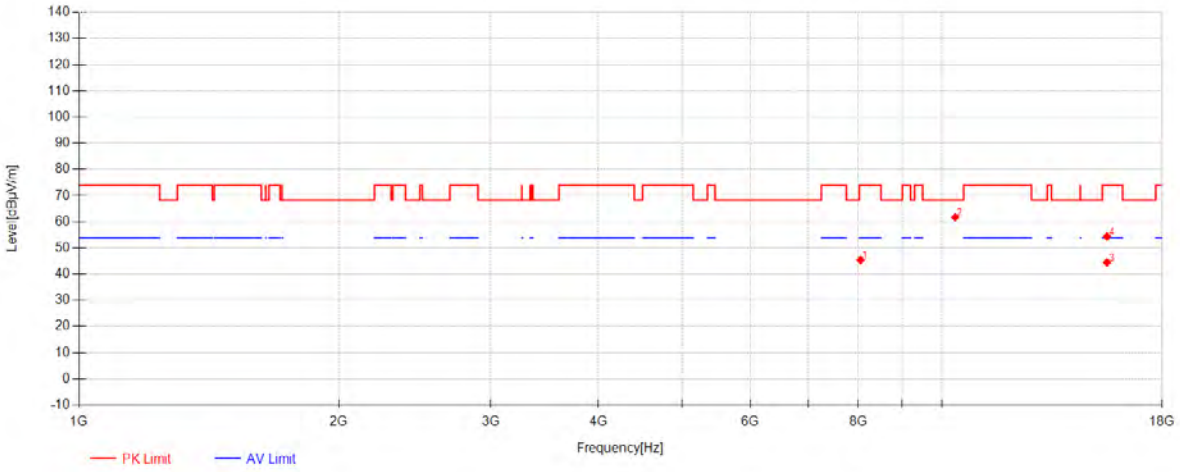
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions 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.

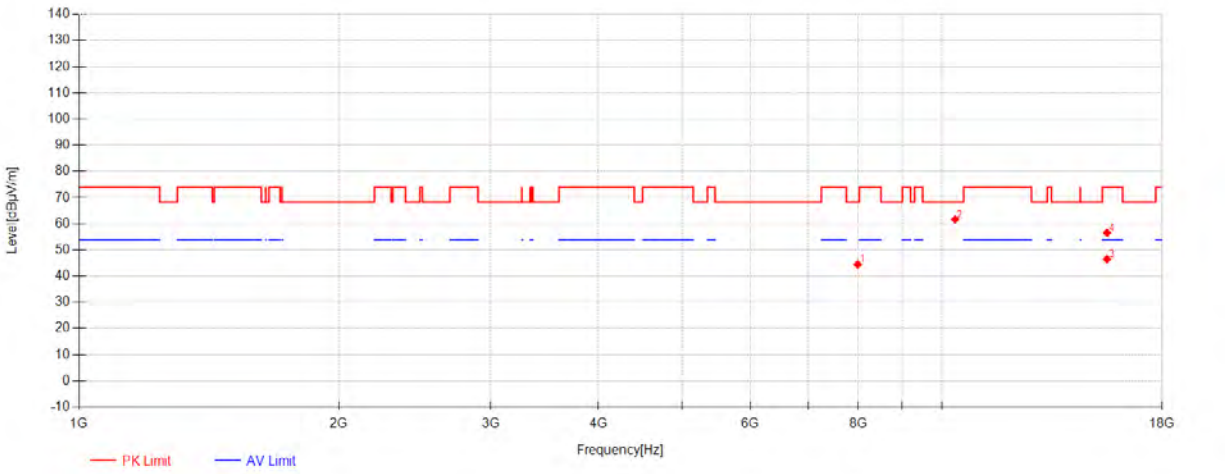
6. Average Measurements Above 1000MHz， VBW = 10 Hz(when duty cycle is no less than 98 percent).VBW≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

802.11a_Channel 36



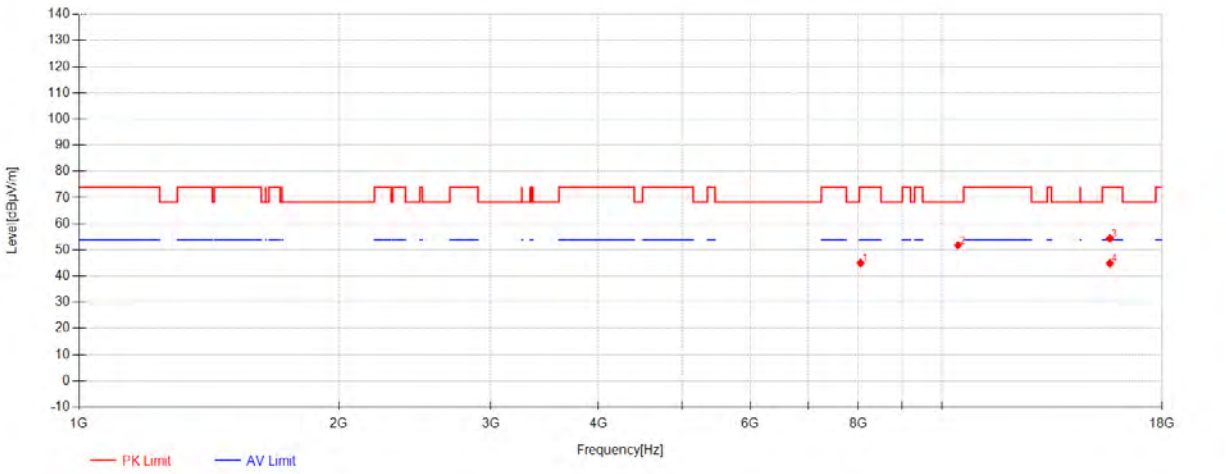
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8051.5417	50.10	37.07	-41.72	45.45	74.00	28.55	Horizontal
2	10360.645	62.02	38.54	-38.82	61.74	68.30	6.56	Horizontal
3	15536.125	38.90	40.47	-34.84	44.53	54.00	9.47	Horizontal
4	15537.562	48.79	40.47	-34.83	54.43	74.00	19.57	Horizontal

802.11a_Channel 36



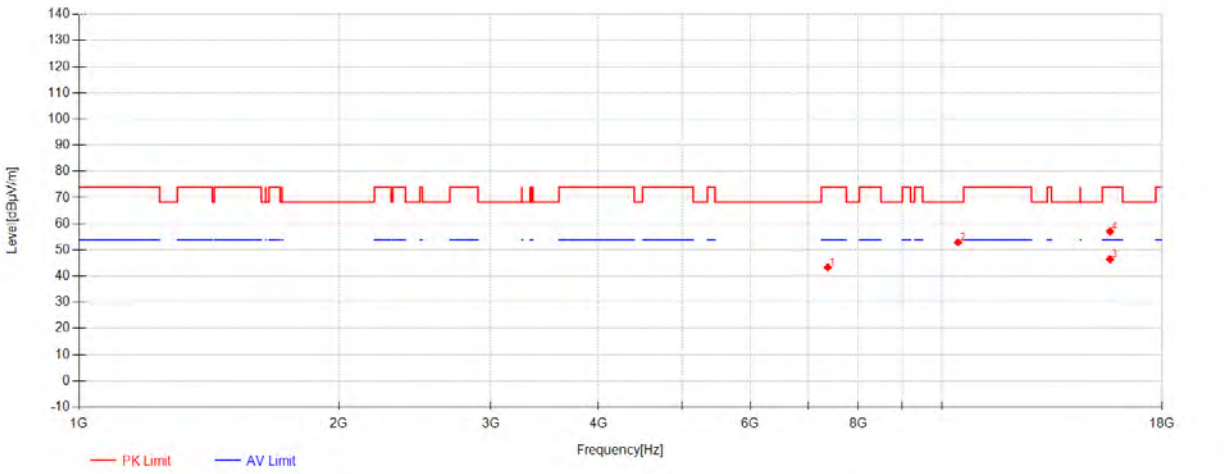
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7989.25	49.67	37.08	-42.20	44.56	68.30	23.74	Vertical
2	10358.25	61.97	38.54	-38.82	61.68	68.30	6.62	Vertical
3	15537.083	40.90	40.47	-34.84	46.54	54.00	7.46	Vertical
4	15540.916	50.92	40.46	-34.81	56.58	74.00	17.42	Vertical

802.11a_Channel 44



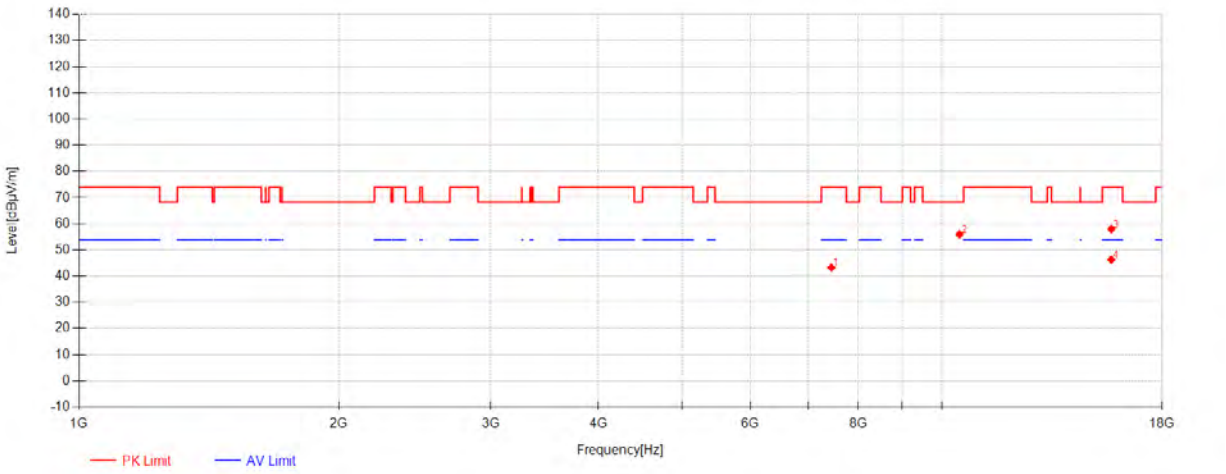
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8051.5417	49.70	37.07	-41.72	45.05	74.00	28.95	Horizontal
2	10437.312	52.00	38.54	-38.73	51.81	68.30	16.49	Horizontal
3	15657.354	47.93	40.22	-33.73	54.42	74.00	19.58	Horizontal
4	15659.75	38.41	40.21	-33.71	44.92	54.00	9.08	Horizontal

802.11a_Channel 44



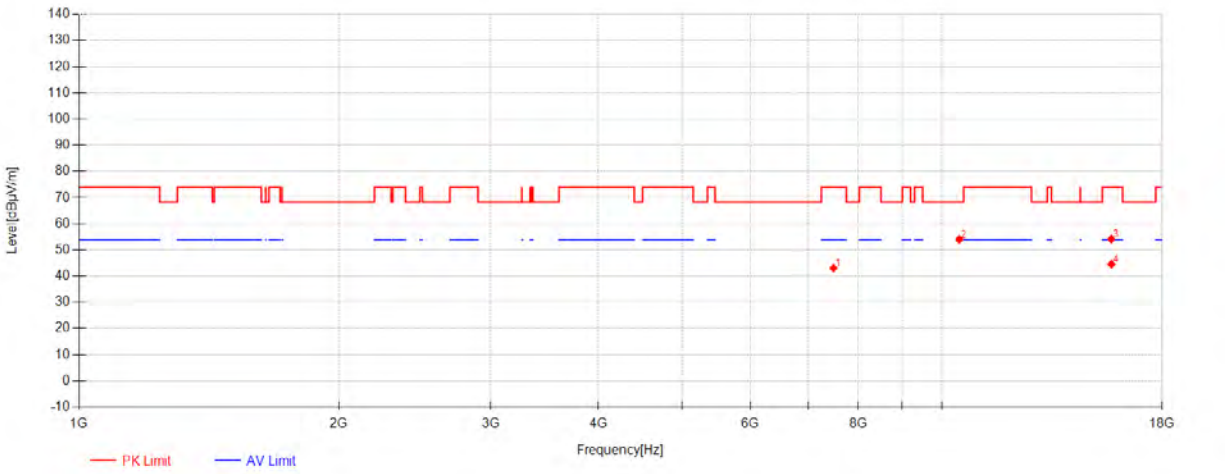
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7374.9583	50.28	36.05	-42.93	43.40	74.00	30.60	Vertical
2	10438.75	53.13	38.54	-38.74	52.94	68.30	15.36	Vertical
3	15663.583	39.95	40.21	-33.66	46.49	54.00	7.51	Vertical
4	15665.5	50.52	40.20	-33.64	57.08	74.00	16.92	Vertical

802.11a_Channel 48



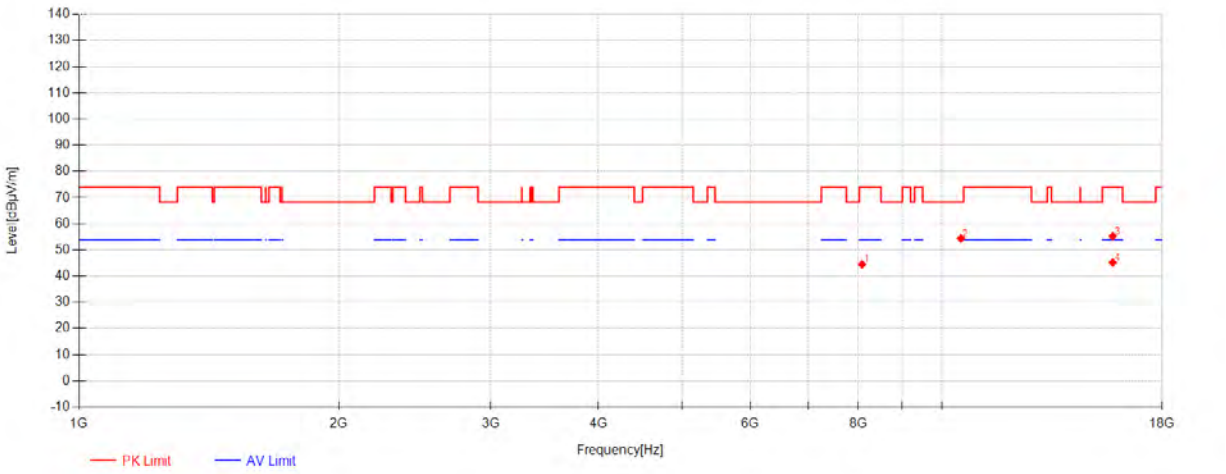
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7447.3125	50.01	36.25	-42.97	43.29	74.00	30.71	Horizontal
2	10483.312	56.20	38.55	-38.75	56.00	68.30	12.30	Horizontal
3	15718.687	51.13	40.09	-33.22	58.00	74.00	16.00	Horizontal
4	15719.166	39.47	40.09	-33.22	46.34	54.00	7.66	Horizontal

802.11a_Channel 48



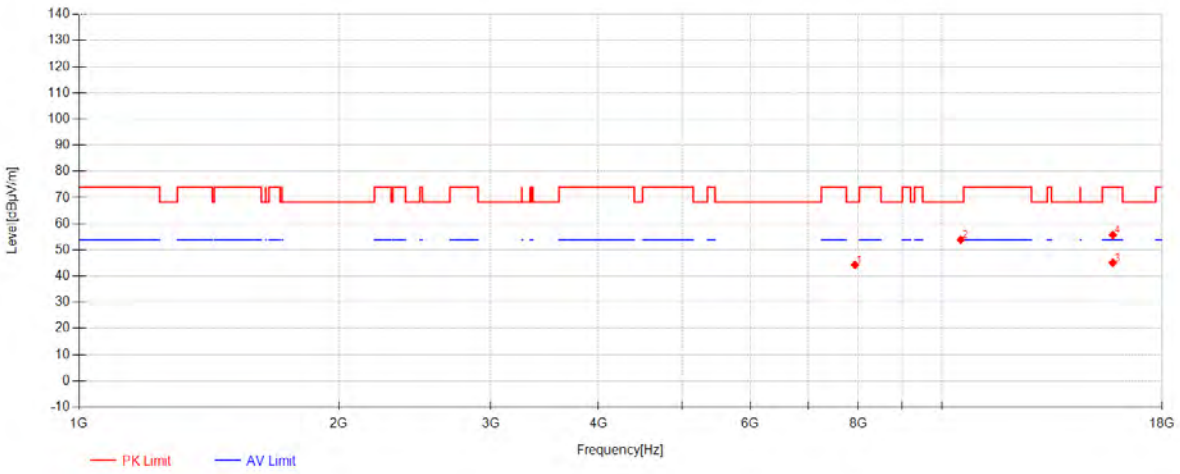
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7489	49.86	36.37	-43.13	43.10	74.00	30.90	Vertical
2	10476.125	54.30	38.55	-38.75	54.10	68.30	14.20	Vertical
3	15717.25	47.33	40.09	-33.23	54.20	74.00	19.80	Vertical
4	15724.916	37.78	40.08	-33.21	44.65	54.00	9.35	Vertical

802.11a_Channel 52



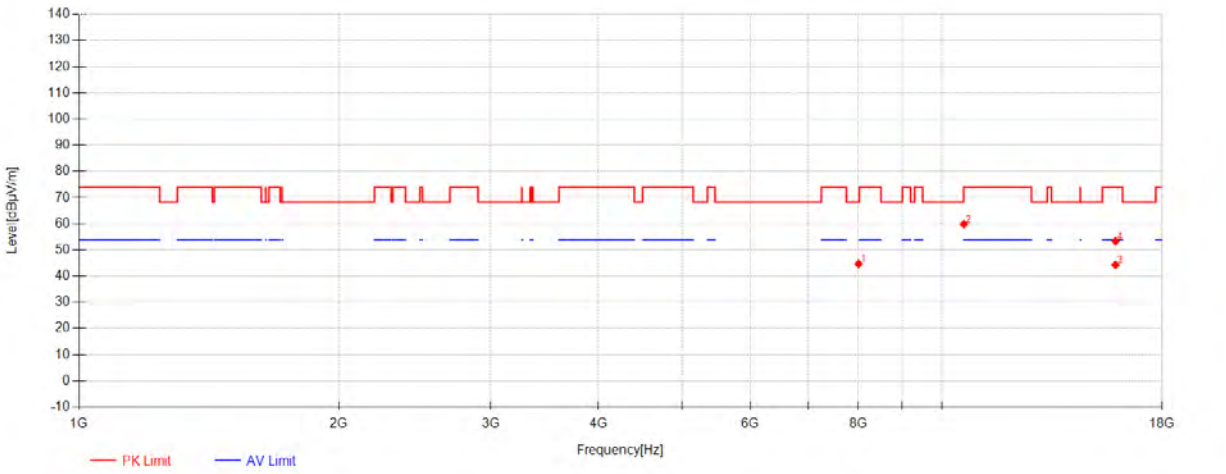
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8081.7292	49.01	37.05	-41.48	44.58	74.00	29.42	Horizontal
2	10522.604	54.45	38.55	-38.59	54.41	68.30	13.89	Horizontal
3	15779.541	48.43	39.96	-33.10	55.29	74.00	18.71	Horizontal
4	15779.541	38.40	39.96	-33.10	45.26	54.00	8.74	Horizontal

802.11a_Channel 52



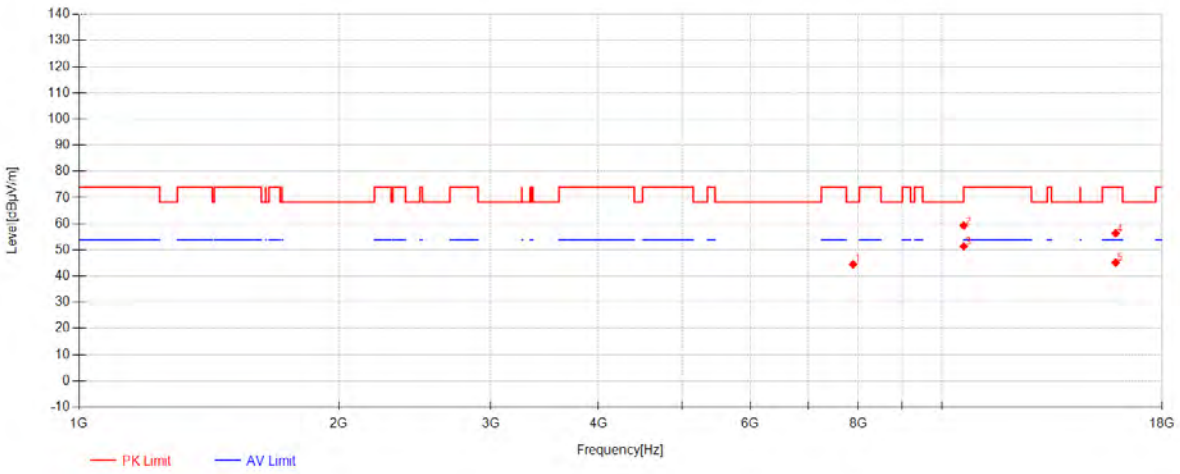
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7929.8333	49.96	37.00	-42.56	44.40	68.30	23.90	Vertical
2	10515.416	54.04	38.55	-38.64	53.95	68.30	14.35	Vertical
3	15781.937	48.92	39.96	-33.10	55.78	74.00	18.22	Vertical
4	15781.937	48.92	39.96	-33.10	55.78	74.00	18.22	Vertical

802.11a_Channel 60



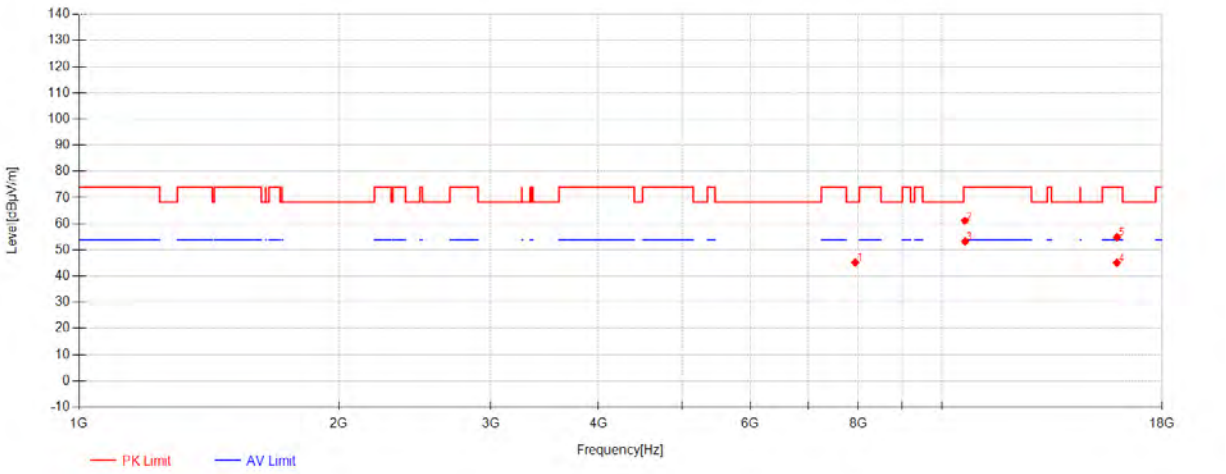
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8007.9375	49.73	37.10	-42.07	44.76	68.30	23.54	Horizontal
2	10604.541	59.27	38.56	-37.99	59.84	74.00	14.16	Horizontal
3	15892.625	38.67	39.73	-34.05	44.34	54.00	9.66	Horizontal
4	15895.5	47.79	39.72	-34.08	53.43	74.00	20.57	Horizontal

802.11a_Channel 60



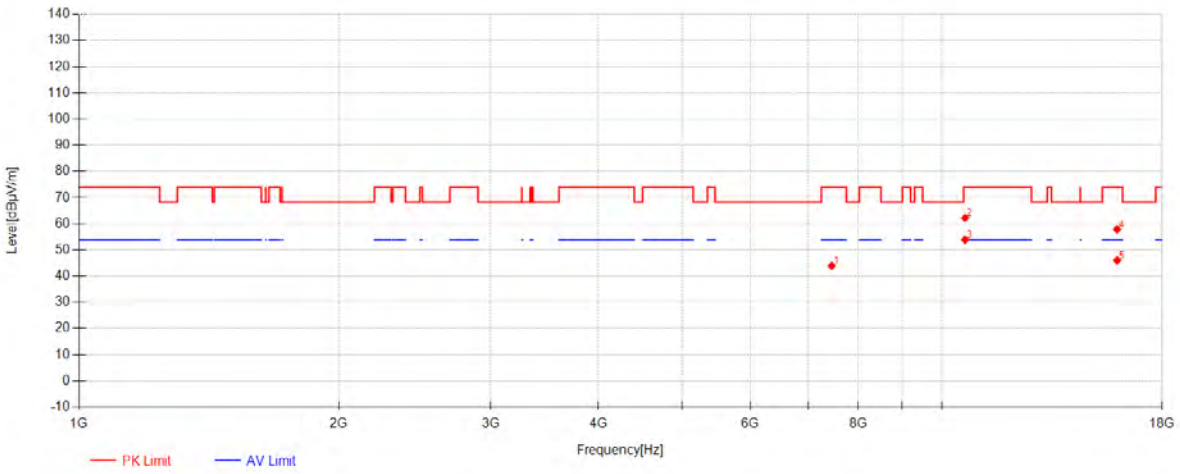
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7890.0625	50.35	36.95	-42.72	44.57	68.30	23.73	Vertical
2	10601.187	58.69	38.56	-38.00	59.25	74.00	14.75	Vertical
3	10601.666	50.83	38.56	-38.00	51.39	54.00	2.61	Vertical
4	15902.687	50.82	39.70	-34.15	56.37	74.00	17.63	Vertical
5	15903.166	39.65	39.70	-34.16	45.20	54.00	8.80	Vertical

802.11a_Channel 64



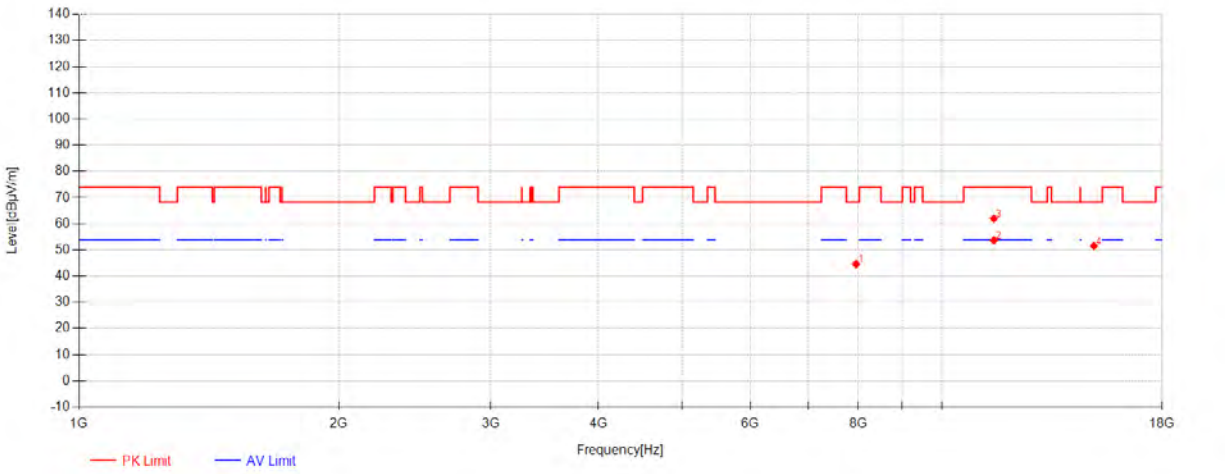
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7936.0625	50.74	37.01	-42.52	45.23	68.30	23.07	Horizontal
2	10634.25	60.40	38.56	-37.83	61.13	74.00	12.87	Horizontal
3	10640	52.54	38.56	-37.80	53.30	54.00	0.70	Horizontal
4	15954.916	40.13	39.59	-34.59	45.14	54.00	8.86	Horizontal
5	15962.104	50.01	39.58	-34.65	54.94	74.00	19.06	Horizontal

802.11a_Channel 64



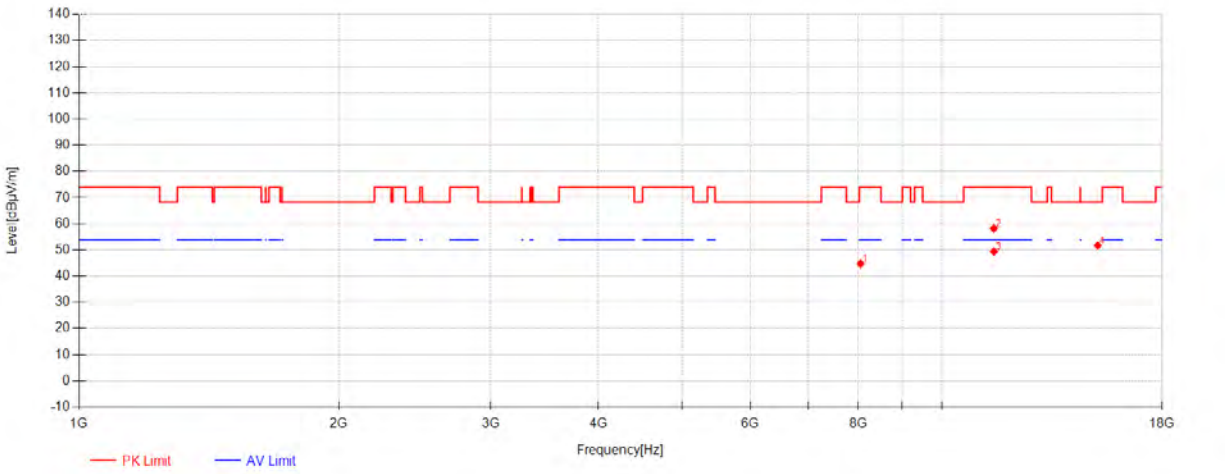
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7452.5833	50.70	36.27	-42.99	43.98	74.00	30.02	Vertical
2	10639.041	61.46	38.56	-37.81	62.22	74.00	11.78	Vertical
3	10639.041	53.21	38.56	-37.81	53.97	54.00	0.03	Vertical
4	15963.062	52.97	39.58	-34.65	57.89	74.00	16.11	Vertical
5	15965.458	41.16	39.57	-34.67	46.06	54.00	7.94	Vertical

802.11a_Channel 149



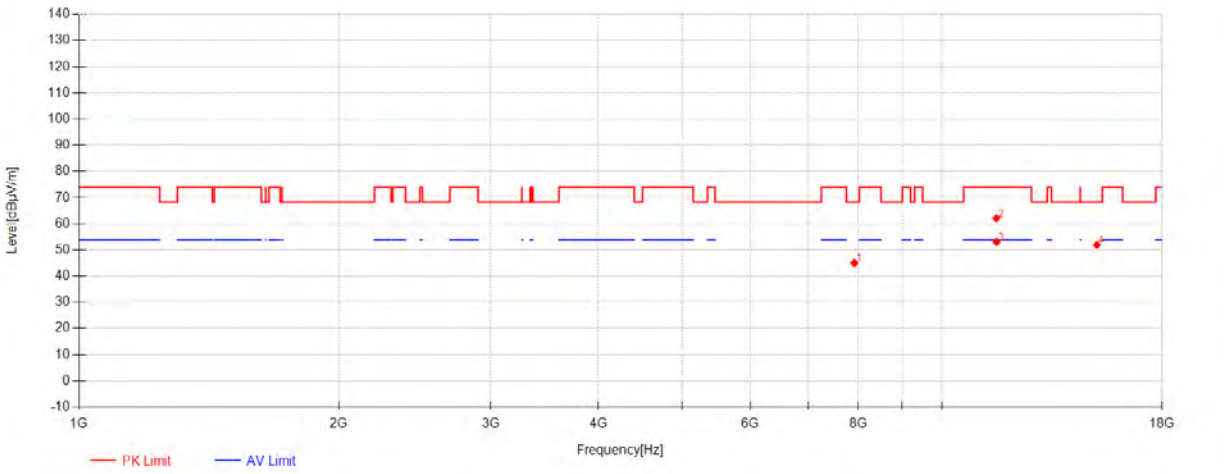
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7954.2708	50.07	37.04	-42.41	44.70	68.30	23.60	Horizontal
2	11488.604	51.55	38.84	-36.62	53.77	54.00	0.23	Horizontal
3	11490.041	59.77	38.85	-36.61	62.01	74.00	11.99	Horizontal
4	15005.208	44.41	41.59	-34.42	51.58	68.30	16.72	Horizontal

802.11a_Channel 149



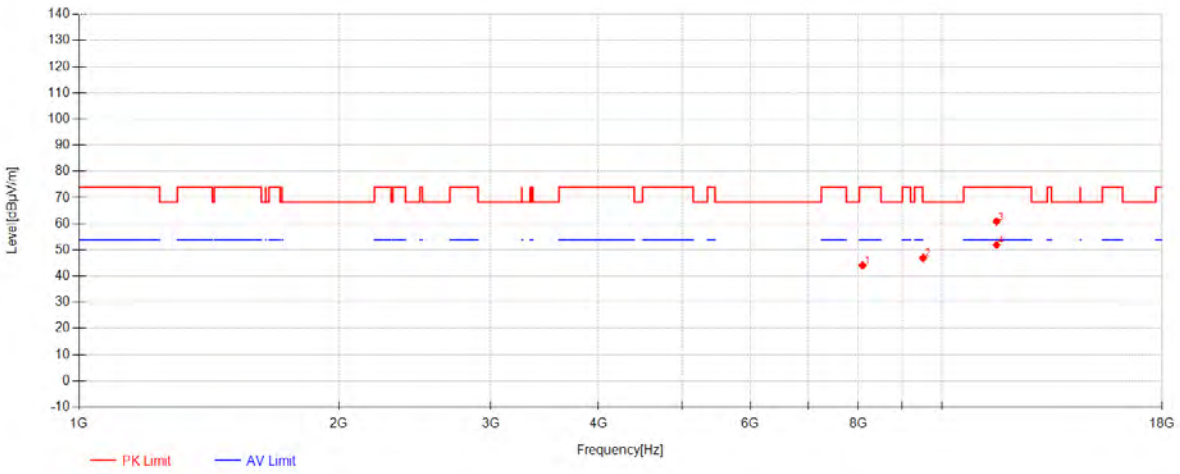
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8050.1042	49.50	37.07	-41.73	44.84	74.00	29.16	Vertical
2	11489.562	55.94	38.84	-36.61	58.17	74.00	15.83	Vertical
3	11490.041	47.18	38.85	-36.61	49.42	54.00	4.58	Vertical
4	15163.333	44.52	41.26	-34.02	51.75	68.30	16.55	Vertical

802.11a_Channel 157



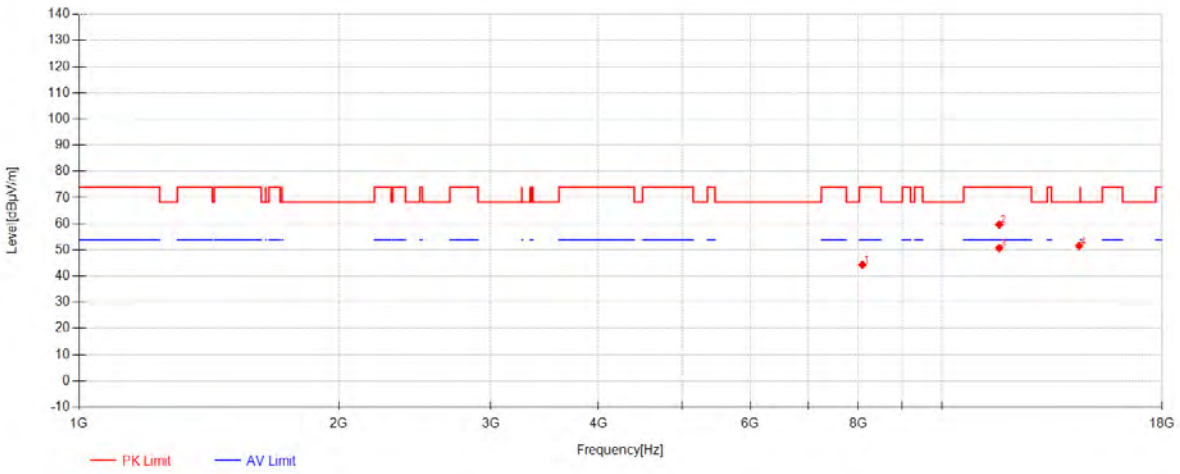
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7918.8125	50.70	36.99	-42.63	45.06	68.30	23.24	Horizontal
2	11564.312	60.02	38.88	-36.81	62.09	74.00	11.91	Horizontal
3	11571.5	51.10	38.89	-36.85	53.14	54.00	0.86	Horizontal
4	15125.958	44.89	41.34	-34.29	51.93	68.30	16.37	Horizontal

802.11a_Channel 157



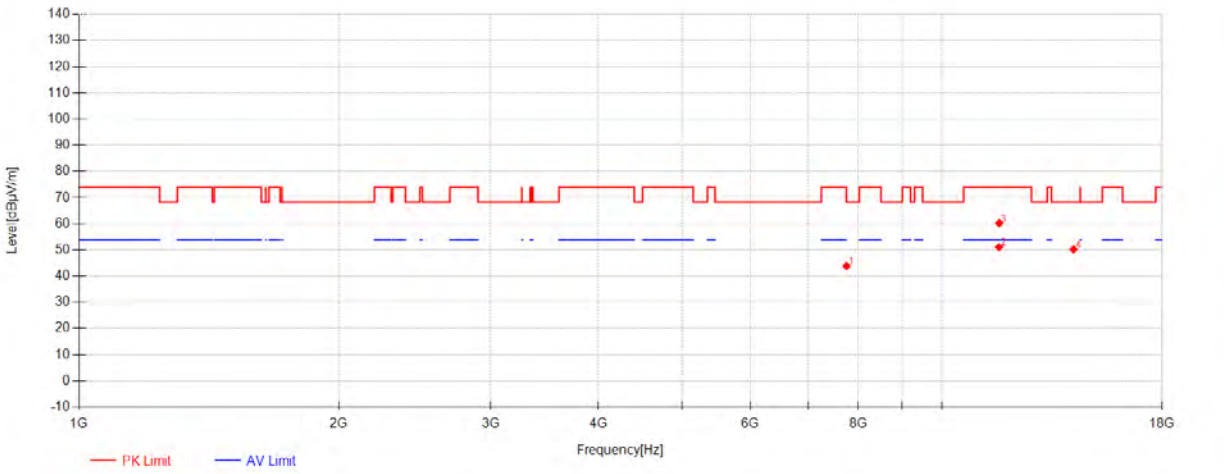
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8093.2292	48.52	37.04	-41.39	44.17	74.00	29.83	Vertical
2	9513	49.29	37.53	-39.86	46.95	68.30	21.35	Vertical
3	11569.583	58.82	38.88	-36.84	60.87	74.00	13.13	Vertical
4	11570.062	49.88	38.89	-36.84	51.93	54.00	2.07	Vertical

802.11a_Channel 165



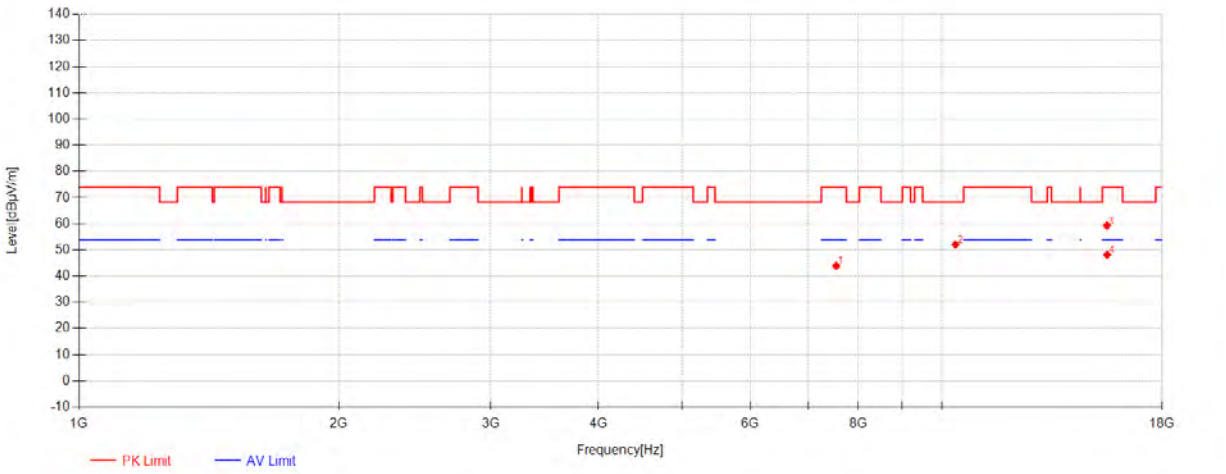
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8091.3125	48.76	37.05	-41.41	44.40	74.00	29.60	Horizontal
2	11655.354	57.22	38.93	-36.49	59.66	74.00	14.34	Horizontal
3	11655.833	48.24	38.93	-36.48	50.68	54.00	3.32	Horizontal
4	14423.5	45.33	41.14	-34.88	51.59	68.30	16.71	Horizontal

802.11a_Channel 165



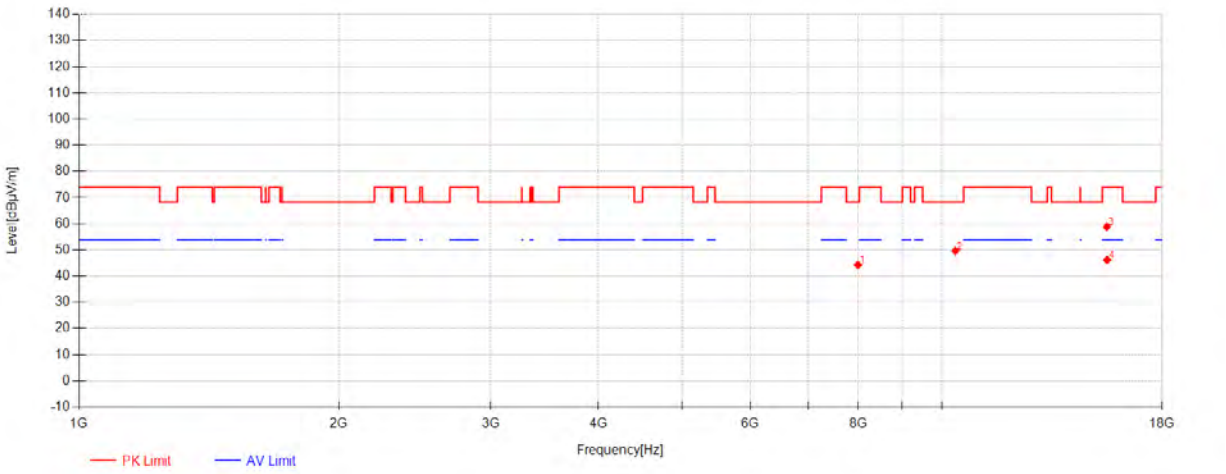
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7754.4583	49.88	36.76	-42.75	43.89	68.30	24.41	Vertical
2	11650.083	48.69	38.93	-36.53	51.08	54.00	2.92	Vertical
3	11654.395	57.73	38.93	-36.50	60.16	74.00	13.84	Vertical
4	14210.75	44.62	40.97	-35.37	50.22	68.30	18.08	Vertical

802.11ac20_Channel 36



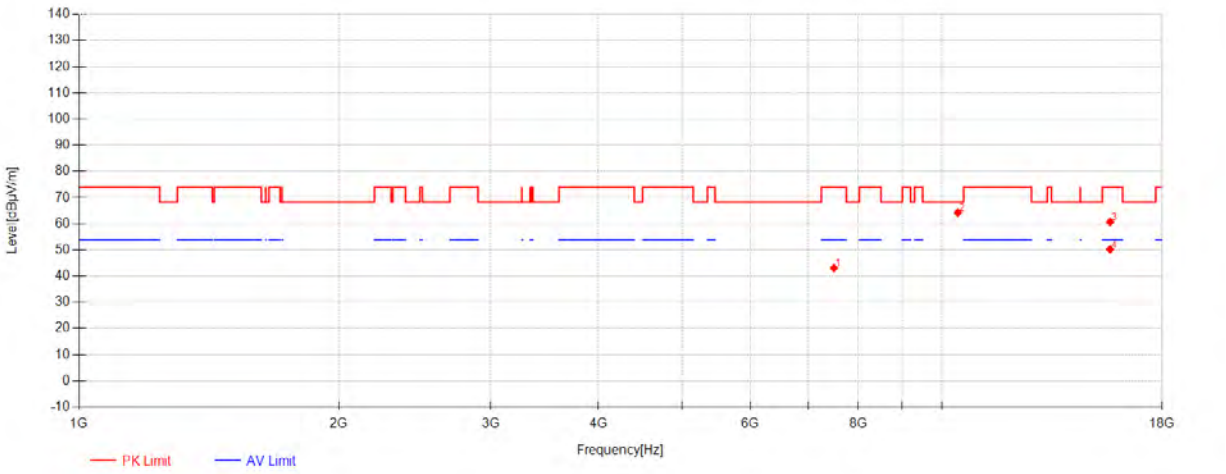
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7543.625	50.47	36.46	-42.98	43.95	74.00	30.05	Horizontal
2	10368.312	52.31	38.54	-38.80	52.05	68.30	16.25	Horizontal
3	15534.208	53.63	40.48	-34.86	59.25	74.00	14.75	Horizontal
4	15546.187	42.47	40.45	-34.77	48.15	54.00	5.85	Horizontal

802.11ac20_Channel 36



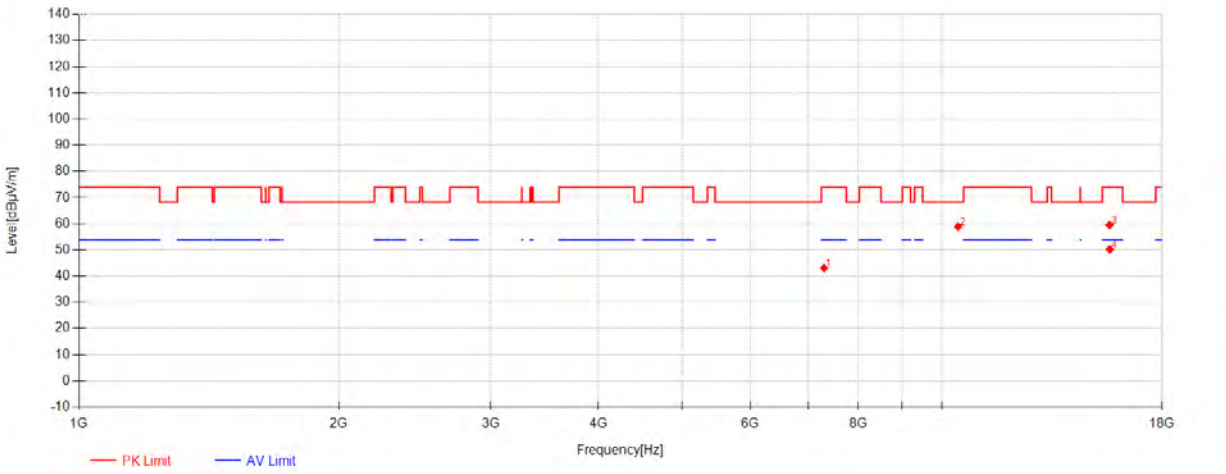
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7994.0417	49.43	37.09	-42.17	44.36	68.30	23.94	Vertical
2	10364.958	49.91	38.54	-38.81	49.64	68.30	18.66	Vertical
3	15530.854	53.25	40.49	-34.88	58.85	74.00	15.15	Vertical
4	15544.75	40.54	40.46	-34.78	46.22	54.00	7.78	Vertical

802.11ac20_Channel 44



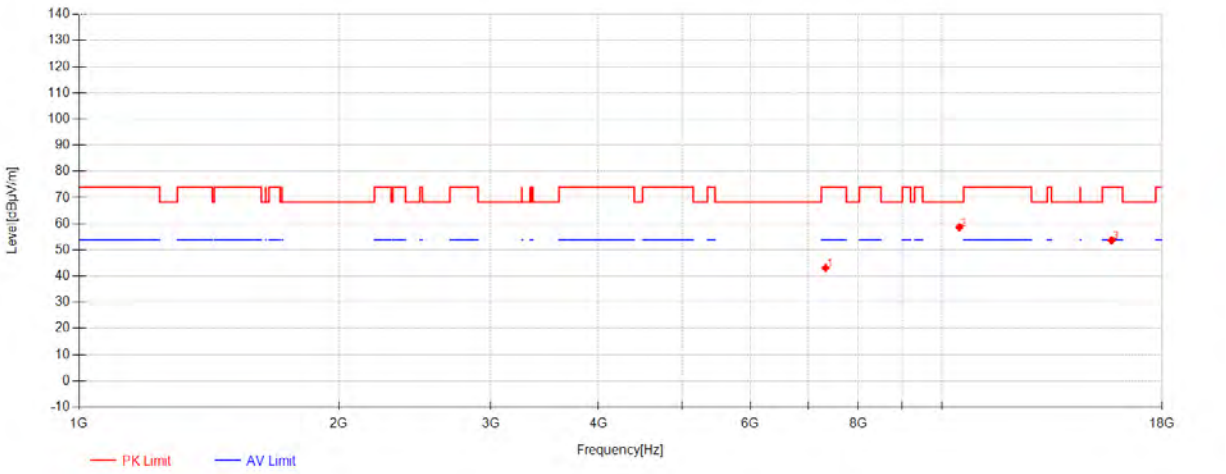
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7498.1042	49.89	36.39	-43.16	43.12	74.00	30.88	Horizontal
2	10433.958	64.48	38.54	-38.73	64.29	68.30	4.01	Horizontal
3	15666.458	54.10	40.20	-33.63	60.67	74.00	13.33	Horizontal
4	15666.937	43.64	40.20	-33.63	50.21	54.00	3.79	Horizontal

802.11ac20_Channel 44



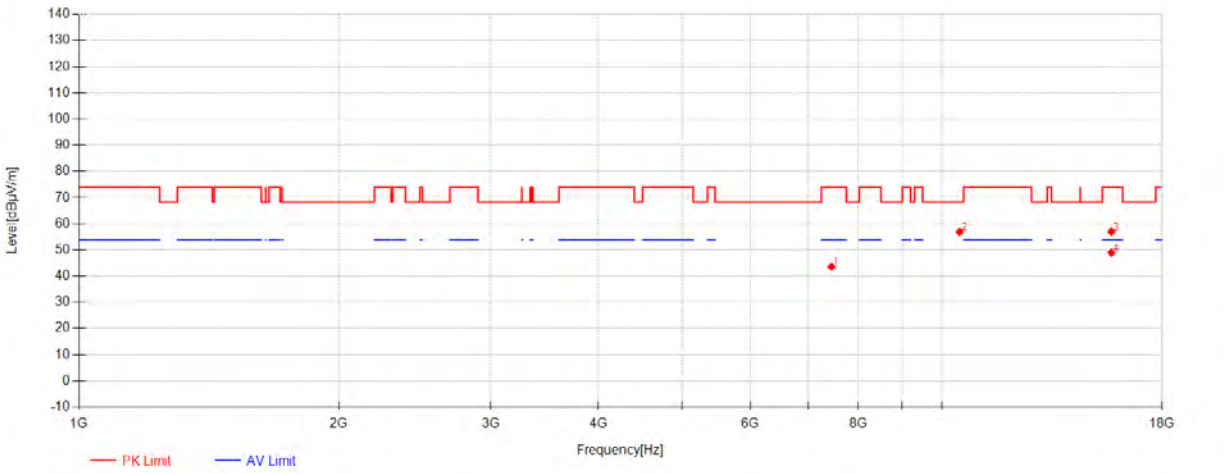
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7304.0417	50.57	35.85	-43.31	43.11	74.00	30.89	Vertical
2	10441.625	59.06	38.54	-38.74	58.87	68.30	9.43	Vertical
3	15646.333	53.12	40.24	-33.86	59.51	74.00	14.49	Vertical
4	15659.75	43.69	40.21	-33.71	50.20	54.00	3.80	Vertical

802.11ac20_Channel 48



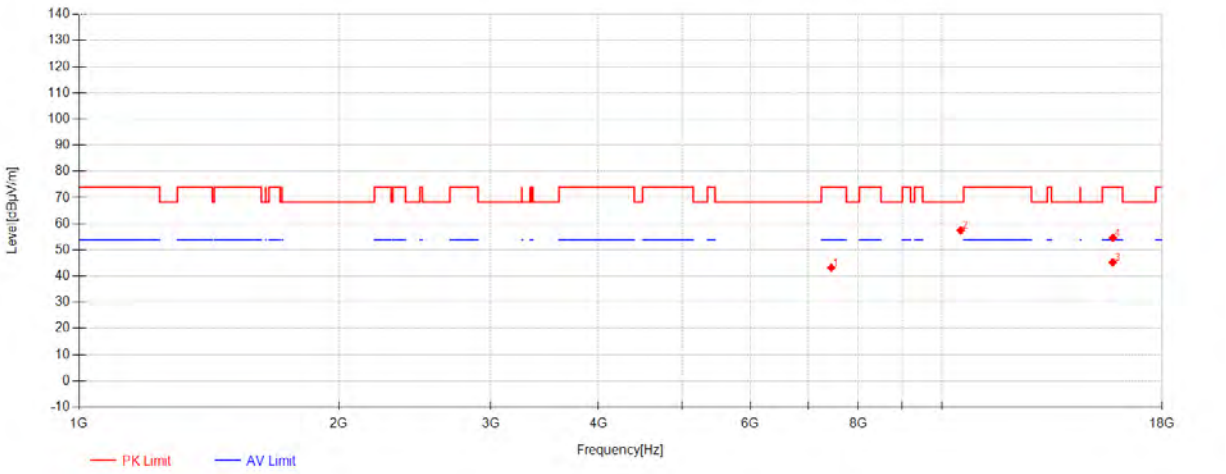
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7331.8333	50.36	35.93	-43.16	43.13	74.00	30.87	Horizontal
2	10478.520	58.85	38.55	-38.75	58.65	68.30	9.65	Horizontal
3	15728.270	46.85	40.07	-33.20	53.72	74.00	20.28	Horizontal

802.11ac20_Channel 48



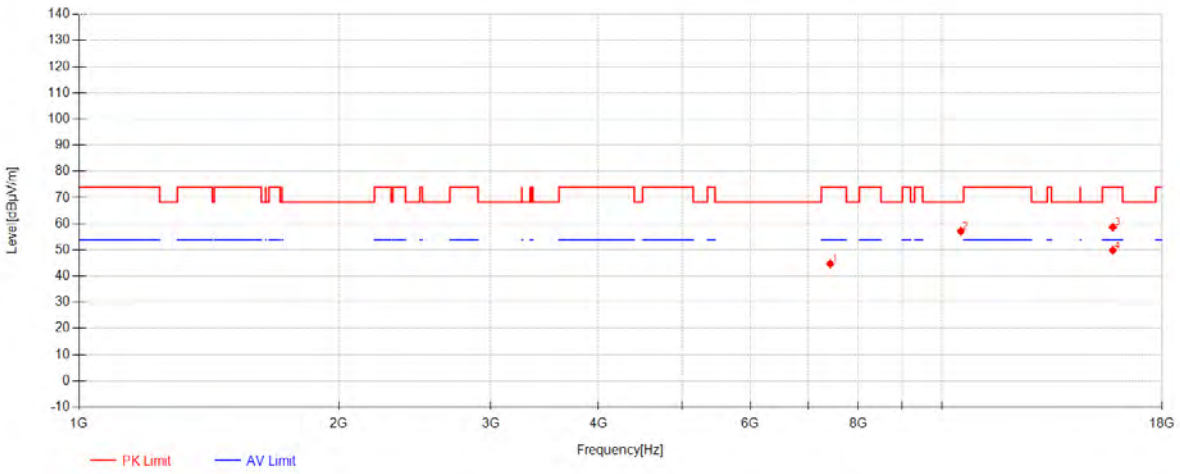
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7449.7083	50.33	36.26	-42.98	43.61	74.00	30.39	Vertical
2	10484.75	57.14	38.55	-38.75	56.93	68.30	11.37	Vertical
3	15718.687	50.14	40.09	-33.22	57.01	74.00	16.99	Vertical
4	15724.437	42.05	40.08	-33.21	48.92	54.00	5.08	Vertical

802.11ac20_Channel 52



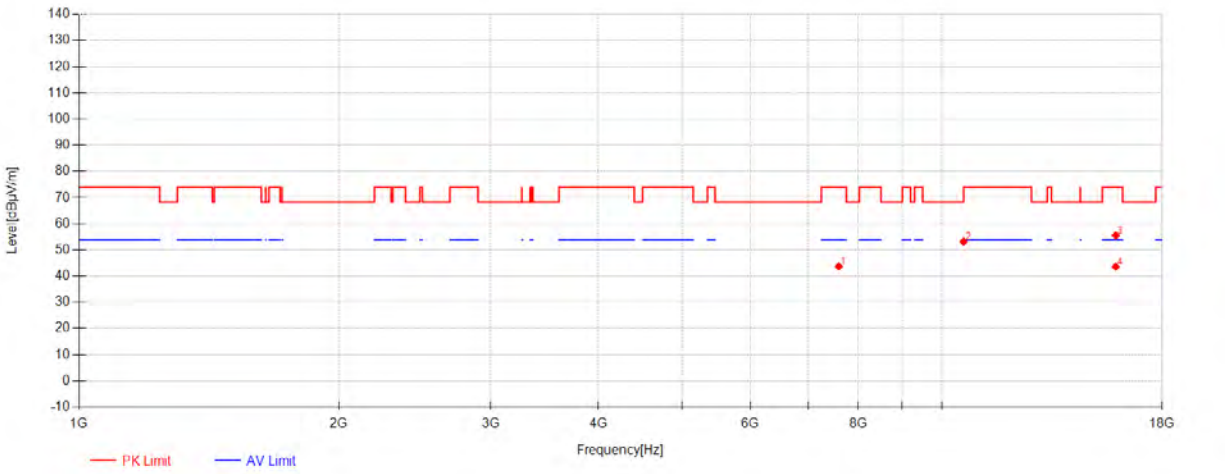
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7445.3958	49.93	36.25	-42.96	43.21	74.00	30.79	Horizontal
2	10516.375	57.58	38.55	-38.64	57.49	68.30	10.81	Horizontal
3	15780.020	38.43	39.96	-33.10	45.29	54.00	8.71	Horizontal
4	15788.645	47.85	39.94	-33.08	54.71	74.00	19.29	Horizontal

802.11ac20_Channel 52



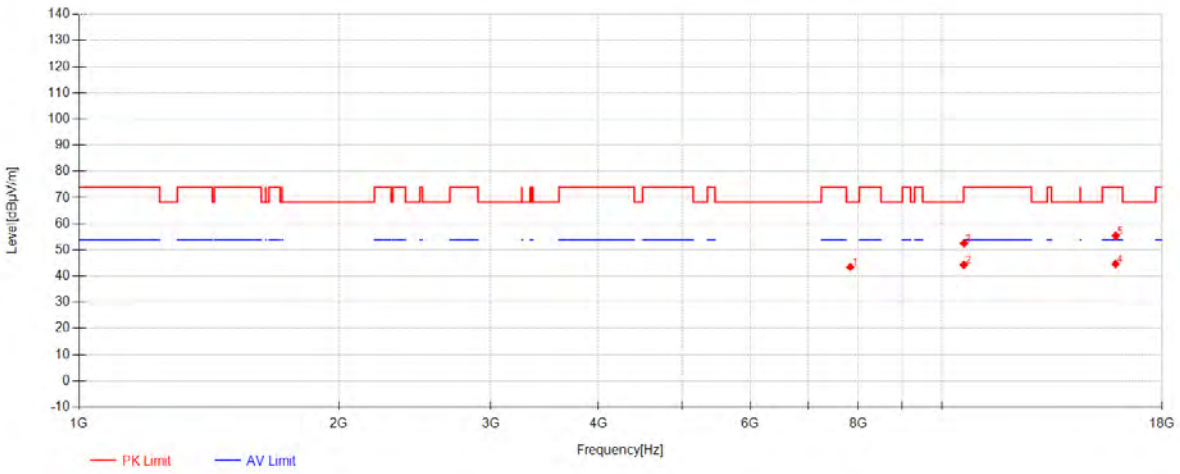
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7424.7917	51.47	36.19	-42.88	44.78	74.00	29.22	Vertical
2	10520.208	57.23	38.55	-38.61	57.17	68.30	11.13	Vertical
3	15781.937	51.85	39.96	-33.10	58.71	74.00	15.29	Vertical
4	15781.937	42.96	39.96	-33.10	49.82	54.00	4.18	Vertical

802.11ac20_Channel 60



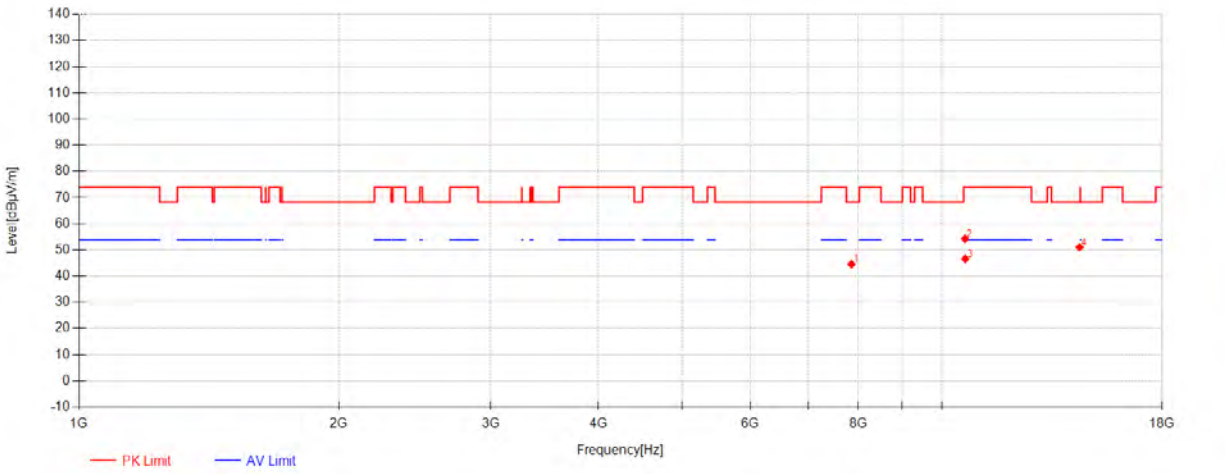
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7595.8542	49.97	36.53	-42.76	43.75	74.00	30.25	Horizontal
2	10596.395	52.71	38.56	-38.04	53.23	68.30	15.07	Horizontal
3	15905.562	50.05	39.70	-34.18	55.57	74.00	18.43	Horizontal
4	15906.041	38.14	39.70	-34.18	43.66	54.00	10.34	Horizontal

802.11ac20_Channel 60



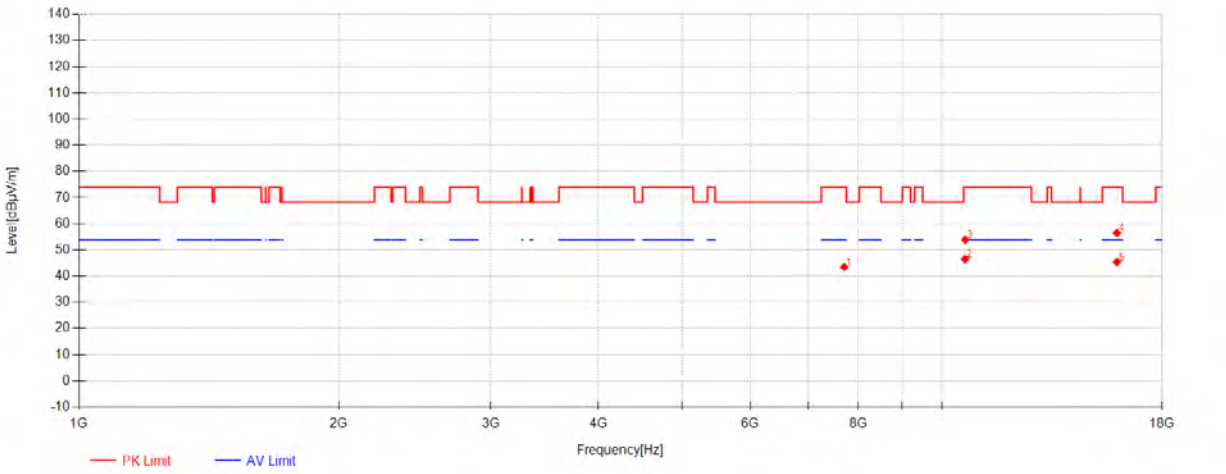
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7833.0417	49.28	36.87	-42.63	43.51	68.30	24.79	Vertical
2	10602.625	43.82	38.56	-38.00	44.38	54.00	9.62	Vertical
3	10609.333	51.96	38.56	-37.96	52.56	74.00	21.44	Vertical
4	15898.375	39.13	39.71	-34.11	44.73	54.00	9.27	Vertical
5	15906.041	49.93	39.70	-34.18	55.45	74.00	18.55	Vertical

802.11ac20_Channel 64



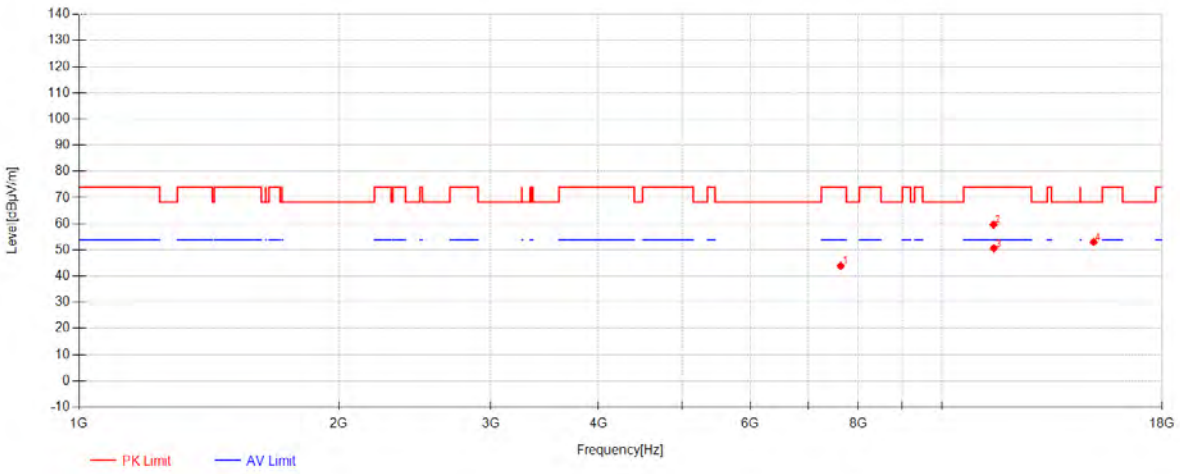
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7857	50.43	36.90	-42.67	44.66	68.30	23.64	Horizontal
2	10637.604	53.55	38.56	-37.81	54.30	74.00	19.70	Horizontal
3	10643.833	45.87	38.56	-37.78	46.65	54.00	7.35	Horizontal
4	14443.625	44.60	41.15	-34.71	51.05	68.30	17.25	Horizontal

802.11ac20_Channel 64



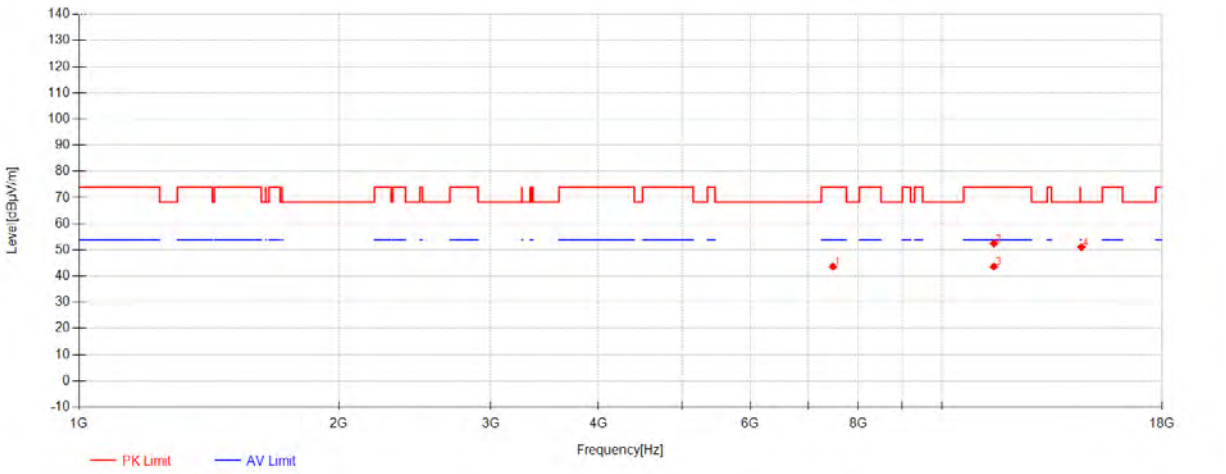
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7707.0208	49.76	36.69	-42.92	43.53	74.00	30.47	Vertical
2	10638.562	45.76	38.56	-37.81	46.51	54.00	7.49	Vertical
3	10646.229	53.17	38.56	-37.77	53.97	74.00	20.03	Vertical
4	15957.791	51.51	39.59	-34.61	56.49	74.00	17.51	Vertical
5	15960.187	40.52	39.58	-34.63	45.47	54.00	8.53	Vertical

802.11ac20_Channel 149



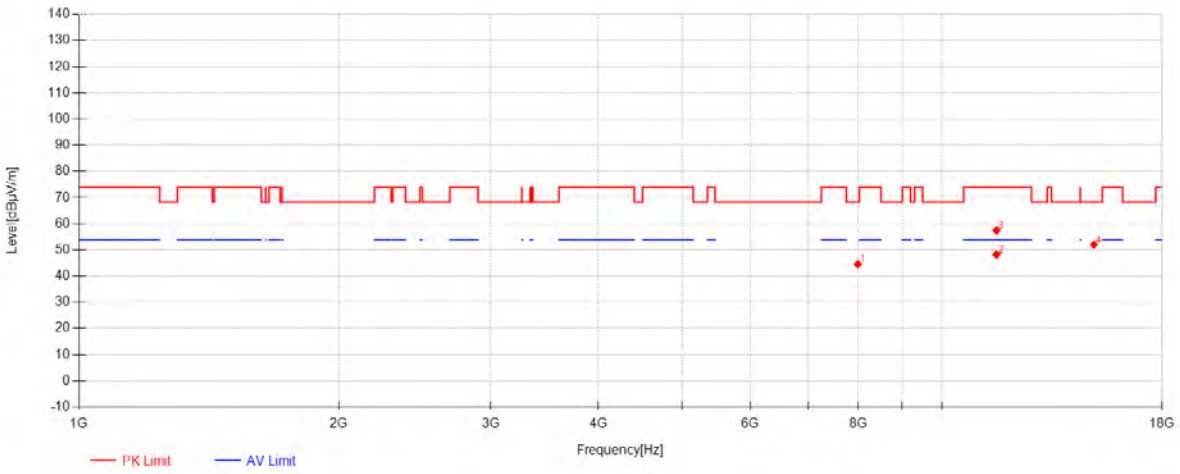
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7634.6667	50.16	36.59	-42.81	43.94	74.00	30.06	Horizontal
2	11479.979	57.52	38.84	-36.71	59.65	74.00	14.35	Horizontal
3	11489.083	48.39	38.84	-36.62	50.62	54.00	3.38	Horizontal
4	14993.708	45.95	41.59	-34.46	53.08	68.30	15.22	Horizontal

802.11ac20_Channel 149



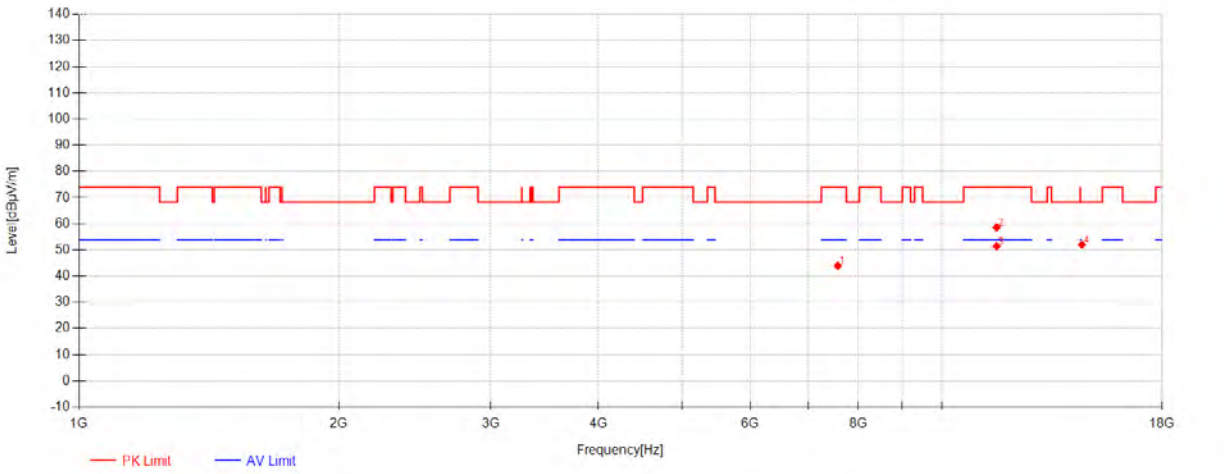
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7478.4583	50.43	36.34	-43.09	43.68	74.00	30.32	Vertical
2	11488.604	50.25	38.84	-36.62	52.47	74.00	21.53	Vertical
3	11489.562	41.45	38.84	-36.61	43.68	54.00	10.32	Vertical
4	14514.541	44.29	41.21	-34.39	51.11	68.30	17.19	Vertical

802.11ac20_Channel 157



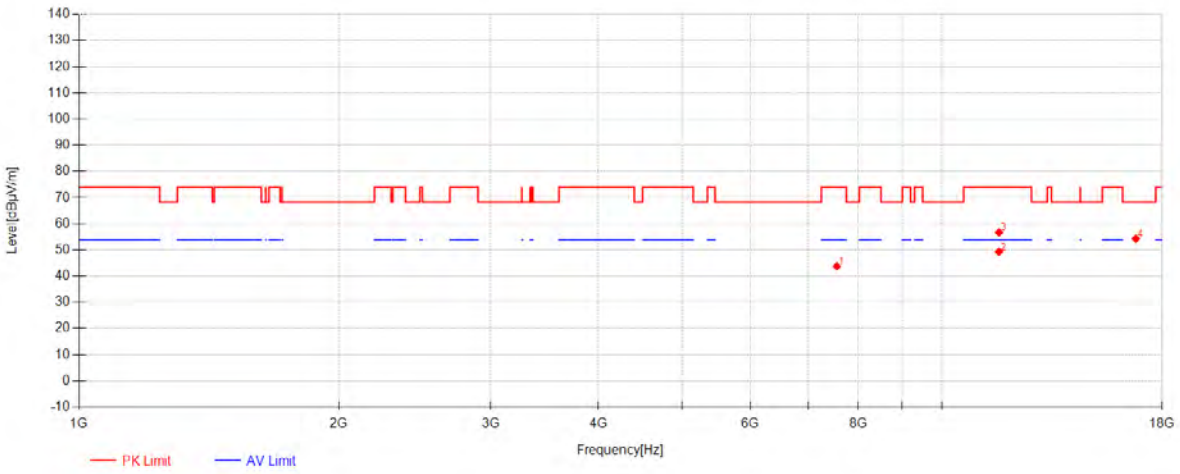
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7991.1667	49.75	37.09	-42.18	44.65	68.30	23.65	Horizontal
2	11569.583	46.16	38.88	-36.84	48.21	54.00	5.79	Horizontal
3	11571.5	55.41	38.89	-36.85	57.45	74.00	16.55	Horizontal
4	15007.604	44.92	41.58	-34.42	52.08	68.30	16.22	Horizontal

802.11ac20_Channel 157



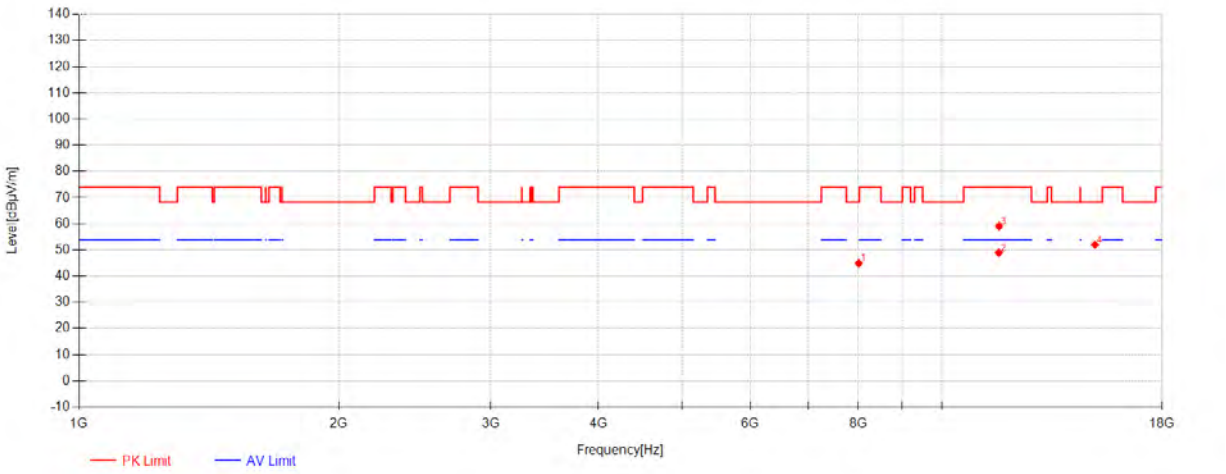
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7576.6875	50.31	36.51	-42.84	43.98	74.00	30.02	Vertical
2	11571.5	56.55	38.89	-36.85	58.59	74.00	15.41	Vertical
3	11571.979	49.39	38.89	-36.85	51.43	54.00	2.57	Vertical
4	14531.312	45.39	41.23	-34.58	52.03	68.30	16.27	Vertical

802.11ac20_Channel 165



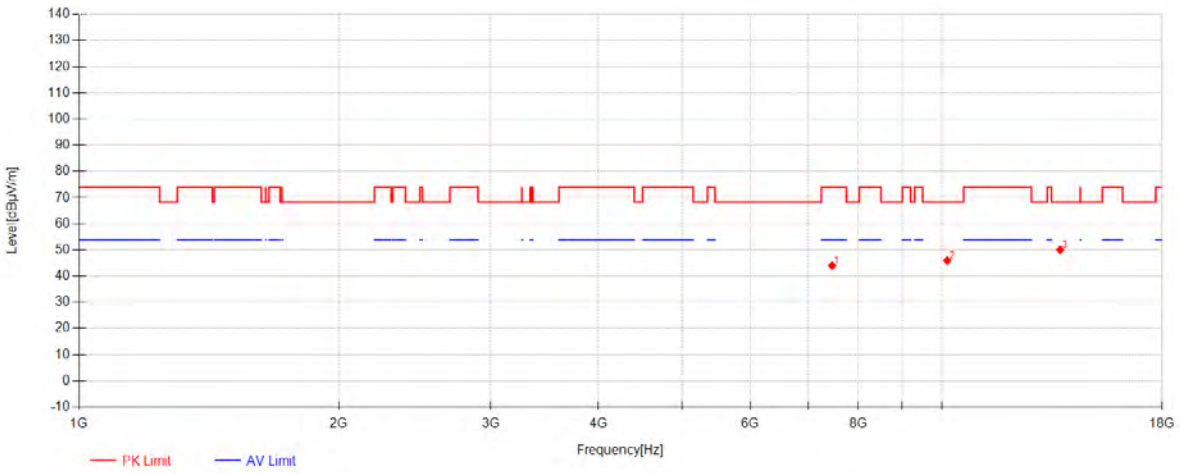
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7556.5625	50.25	36.48	-42.93	43.80	74.00	30.20	Horizontal
2	11646.729	46.94	38.92	-36.56	49.30	54.00	4.70	Horizontal
3	11649.604	54.35	38.92	-36.54	56.74	74.00	17.26	Horizontal
4	16781	47.49	41.53	-34.69	54.33	68.30	13.97	Horizontal

802.11ac20_Channel 165



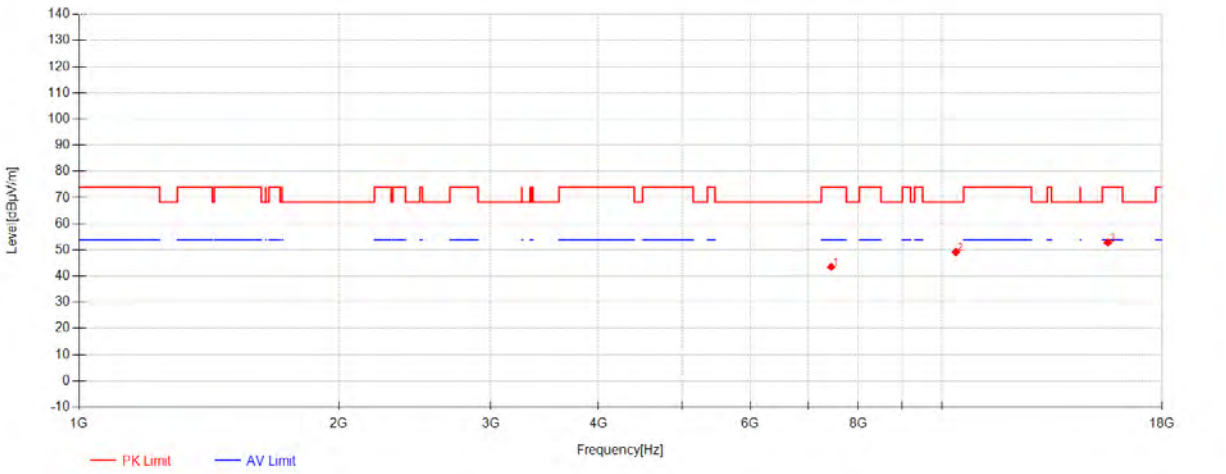
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8011.2917	49.91	37.09	-42.04	44.96	68.30	23.34	Vertical
2	11643.375	46.59	38.92	-36.59	48.92	54.00	5.08	Vertical
3	11651.520	56.65	38.93	-36.52	59.05	74.00	14.95	Vertical
4	15048.812	44.95	41.50	-34.45	52.00	68.30	16.30	Vertical

802.11ac40_Channel 38



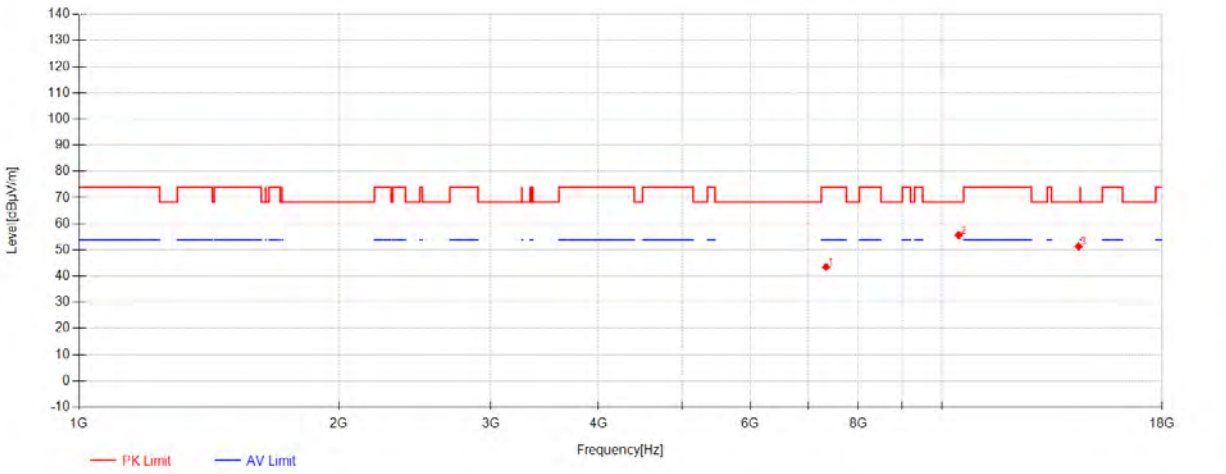
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7461.6875	50.80	36.29	-43.02	44.07	74.00	29.93	Horizontal
2	10146.458	46.43	38.51	-38.97	45.98	68.30	22.32	Horizontal
3	13710.979	45.64	40.40	-36.02	50.02	68.30	18.28	Horizontal

802.11ac40_Channel 38



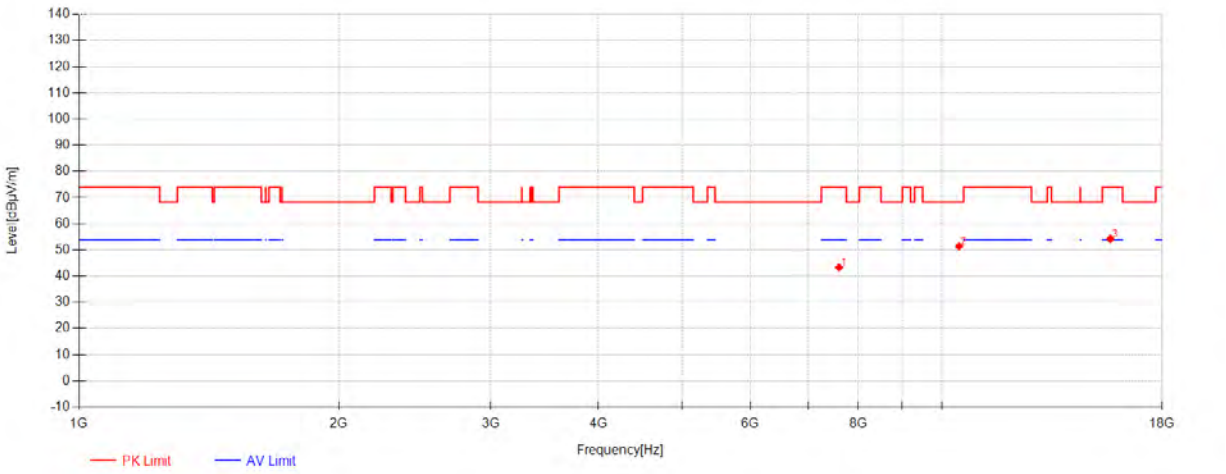
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7443.9583	50.28	36.24	-42.96	43.57	74.00	30.43	Vertical
2	10378.854	49.38	38.54	-38.77	49.15	68.30	19.15	Vertical
3	15572.541	47.02	40.40	-34.57	52.84	74.00	21.16	Vertical

802.11ac40_Channel 46



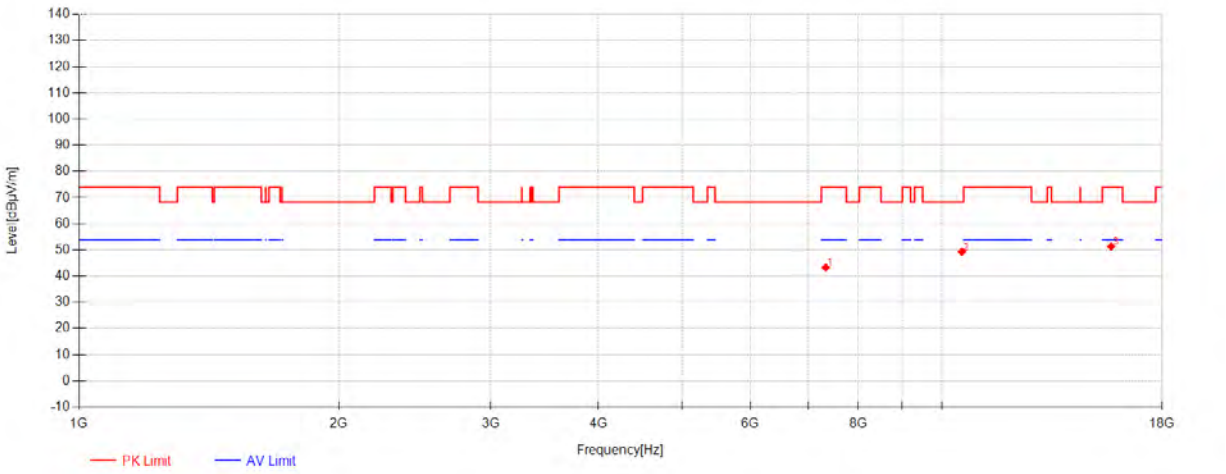
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7343.3333	50.65	35.96	-43.10	43.52	74.00	30.48	Horizontal
2	10459.354	55.89	38.55	-38.74	55.69	68.30	12.61	Horizontal
3	14403.375	45.28	41.12	-35.05	51.35	68.30	16.95	Horizontal

802.11ac40_Channel 46



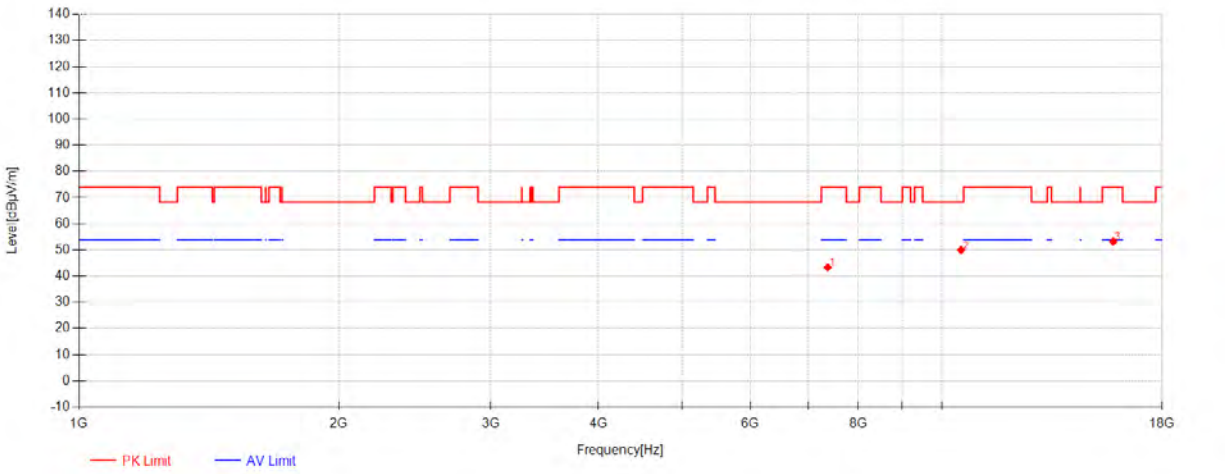
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7601.125	49.58	36.54	-42.74	43.38	74.00	30.62	Vertical
2	10468.937	51.61	38.55	-38.75	51.41	68.30	16.89	Vertical
3	15680.354	47.60	40.17	-33.48	54.29	74.00	19.71	Vertical

802.11ac40_Channel 54



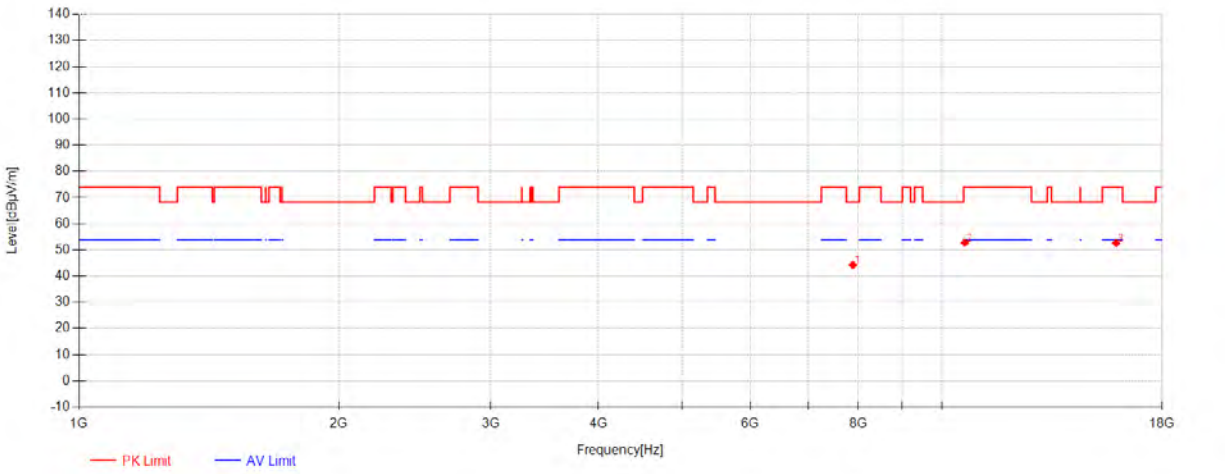
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7333.75	50.54	35.93	-43.15	43.33	74.00	30.67	Horizontal
2	10549.916	49.15	38.55	-38.39	49.32	68.30	18.98	Horizontal
3	15714.854	44.47	40.10	-33.23	51.34	74.00	22.66	Horizontal

802.11ac40_Channel 54



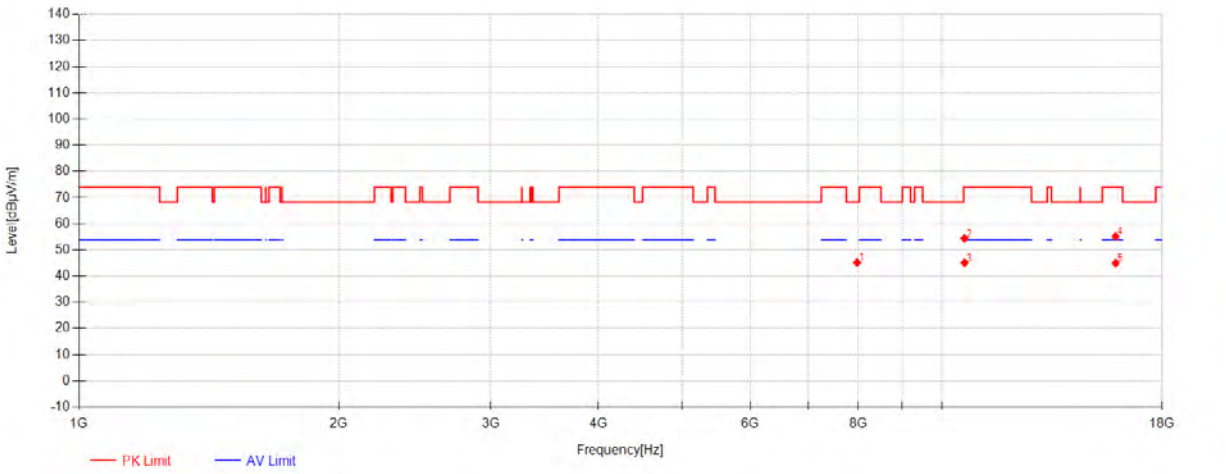
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7374	50.26	36.05	-42.93	43.38	74.00	30.62	Vertical
2	10527.875	49.94	38.55	-38.55	49.94	68.30	18.36	Vertical
3	15801.104	46.42	39.92	-33.07	53.27	74.00	20.73	Vertical

802.11ac40_Channel 62



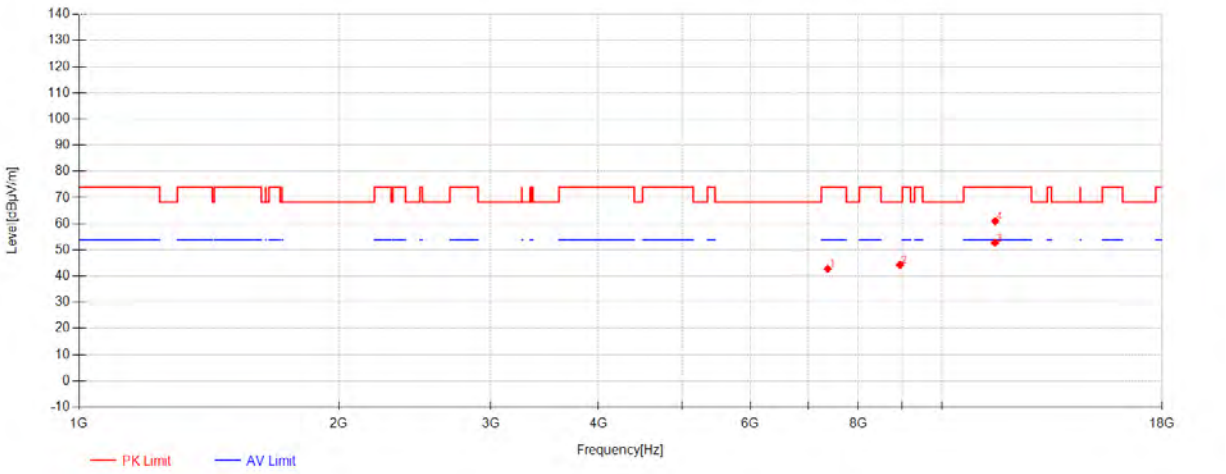
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7886.2292	50.10	36.94	-42.72	44.32	68.30	23.98	Horizontal
2	10632.333	52.07	38.56	-37.84	52.79	74.00	21.21	Horizontal
3	15922.812	47.33	39.66	-34.32	52.67	74.00	21.33	Horizontal

802.11ac40_Channel 62



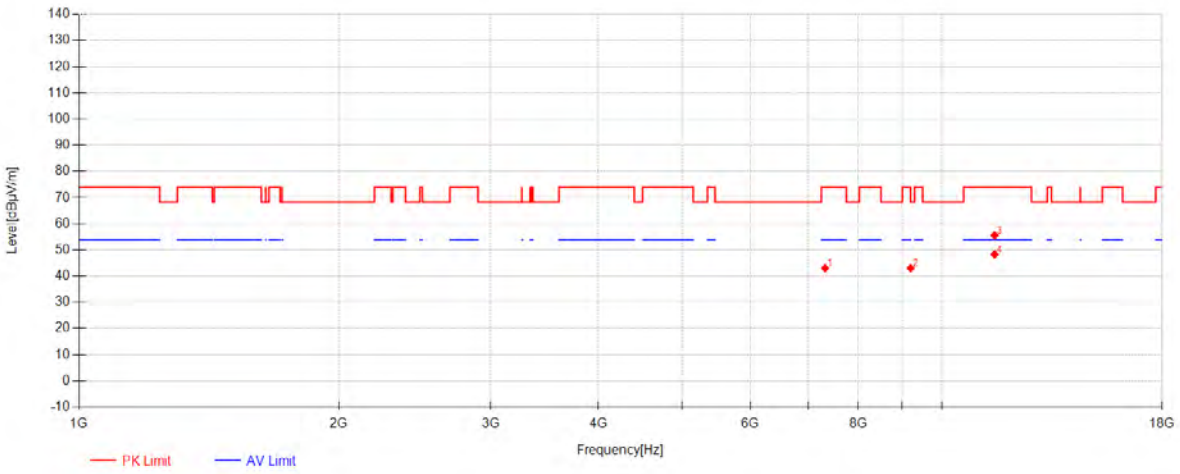
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7975.8333	50.42	37.07	-42.28	45.21	68.30	23.09	Vertical
2	10623.708	53.75	38.56	-37.89	54.43	74.00	19.57	Vertical
3	10626.104	44.42	38.56	-37.87	45.11	54.00	8.89	Vertical
4	15898.375	49.59	39.71	-34.11	55.19	74.00	18.81	Vertical
5	15904.125	39.45	39.70	-34.16	44.99	54.00	9.01	Vertical

802.11ac40_Channel 151



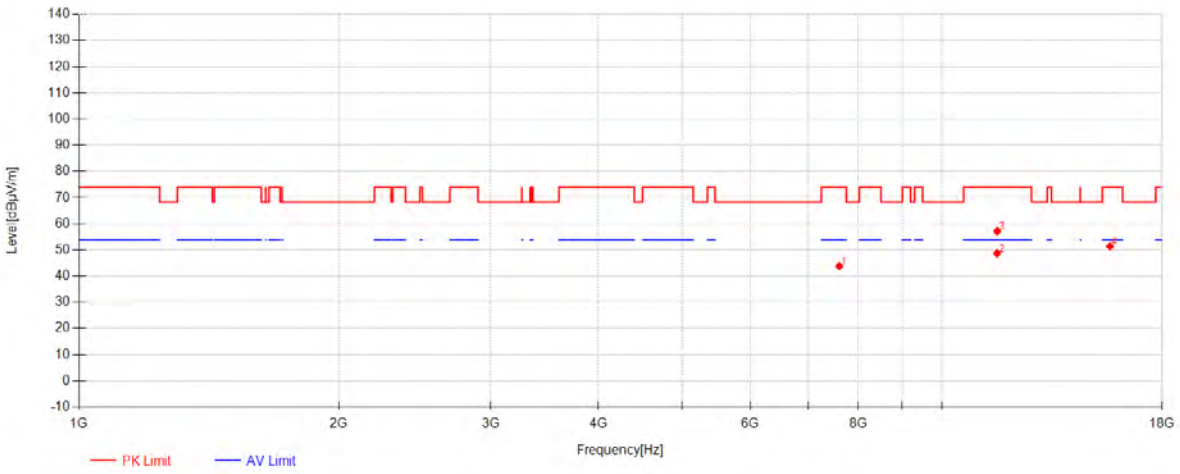
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7374	49.68	36.05	-42.93	42.80	74.00	31.20	Horizontal
2	8942.7917	48.71	36.53	-40.89	44.35	68.30	23.95	Horizontal
3	11522.625	50.52	38.86	-36.62	52.76	54.00	1.24	Horizontal
4	11532.687	58.76	38.87	-36.66	60.96	74.00	13.04	Horizontal

802.11ac40_Channel 151



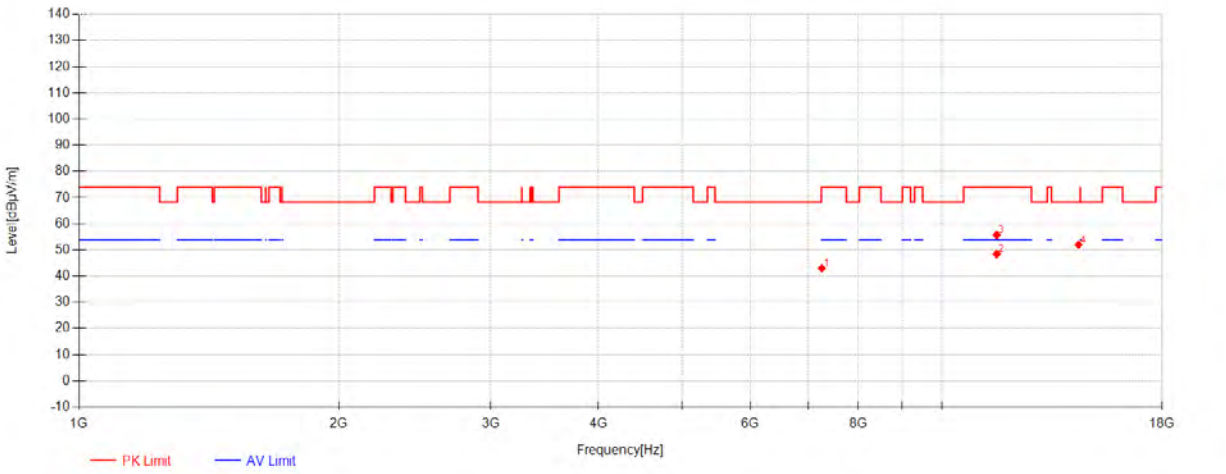
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7322.7292	50.34	35.90	-43.21	43.04	74.00	30.96	Vertical
2	9201.0625	46.10	36.90	-39.95	43.05	68.30	25.25	Vertical
3	11511.604	53.33	38.86	-36.56	55.62	74.00	18.38	Vertical
4	11511.604	46.03	38.86	-36.56	48.32	54.00	5.68	Vertical

802.11ac40_Channel 159



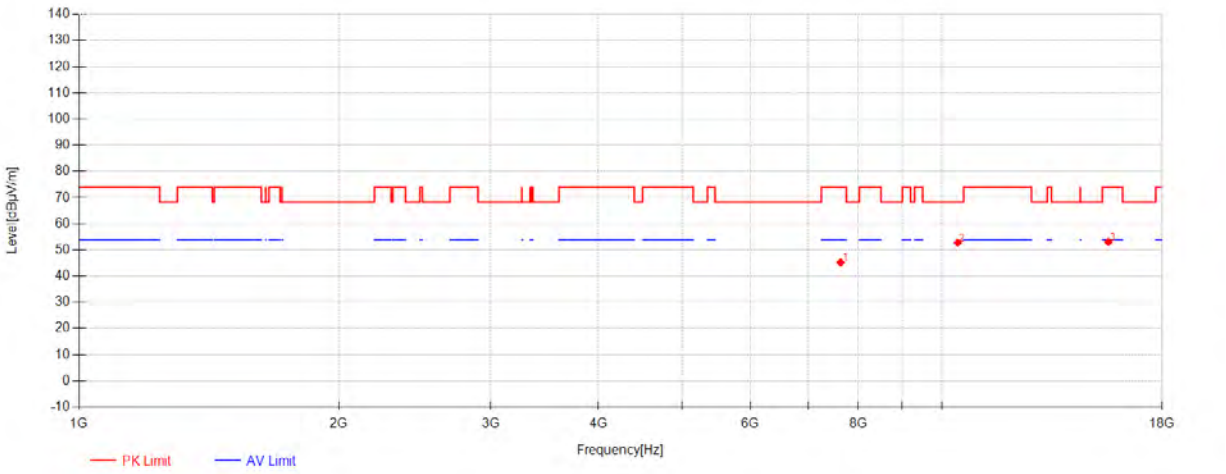
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7607.3542	50.06	36.55	-42.76	43.85	74.00	30.15	Horizontal
2	11587.791	46.74	38.89	-36.92	48.71	54.00	5.29	Horizontal
3	11591.625	55.20	38.90	-36.94	57.16	74.00	16.84	Horizontal
4	15665.020	44.85	40.20	-33.65	51.41	74.00	22.59	Horizontal

802.11ac40_Channel 159



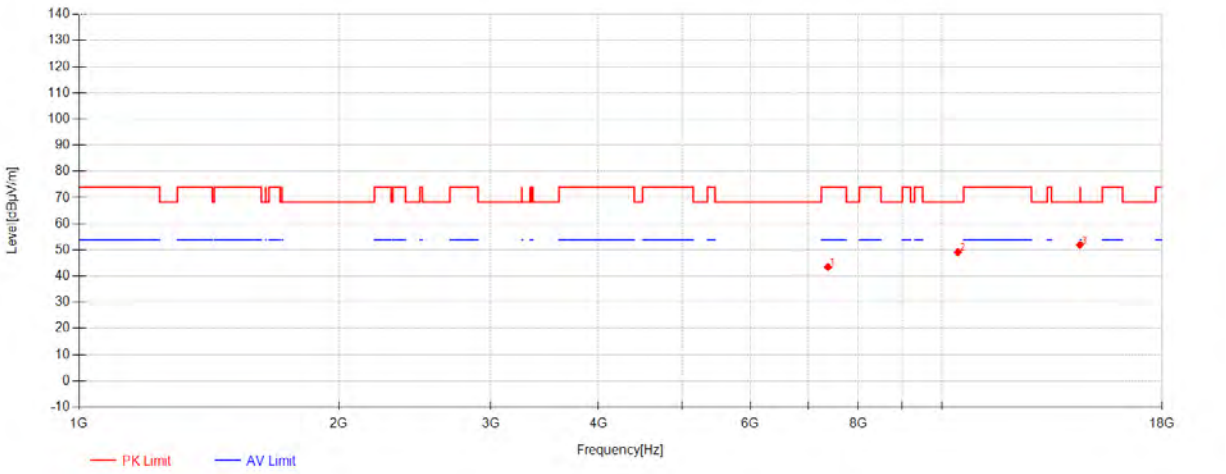
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7259	50.73	35.73	-43.44	43.01	74.00	30.99	Vertical
2	11574.854	46.41	38.89	-36.86	48.44	54.00	5.56	Vertical
3	11576.770	53.76	38.89	-36.87	55.78	74.00	18.22	Vertical
4	14402.416	45.97	41.12	-35.06	52.03	68.30	16.27	Vertical

802.11ac80_Channel 42



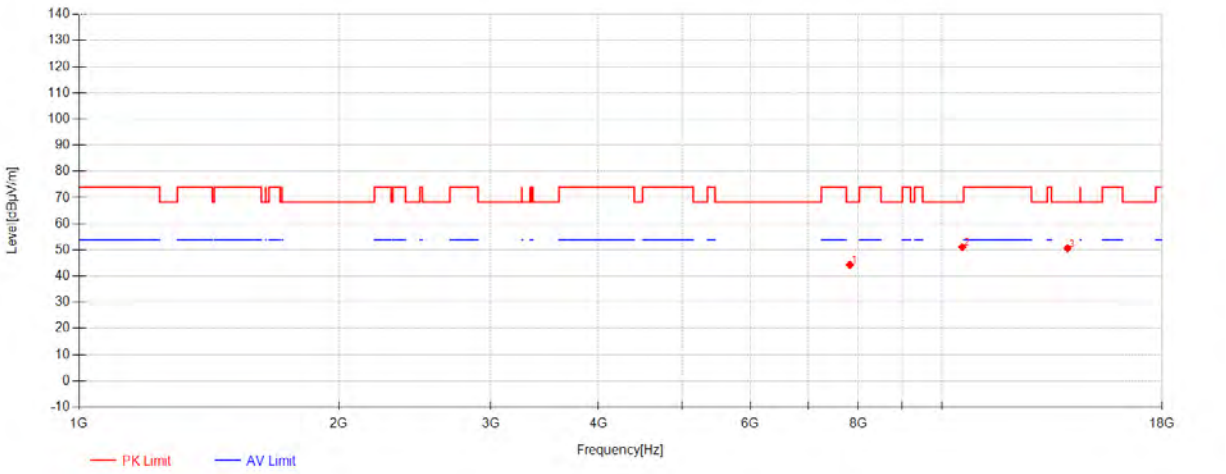
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7632.75	51.49	36.59	-42.81	45.27	74.00	28.73	Horizontal
2	10431.083	53.02	38.54	-38.73	52.83	68.30	15.47	Horizontal
3	15596.020	47.18	40.35	-34.40	53.13	74.00	20.87	Horizontal

802.11ac80_Channel 42



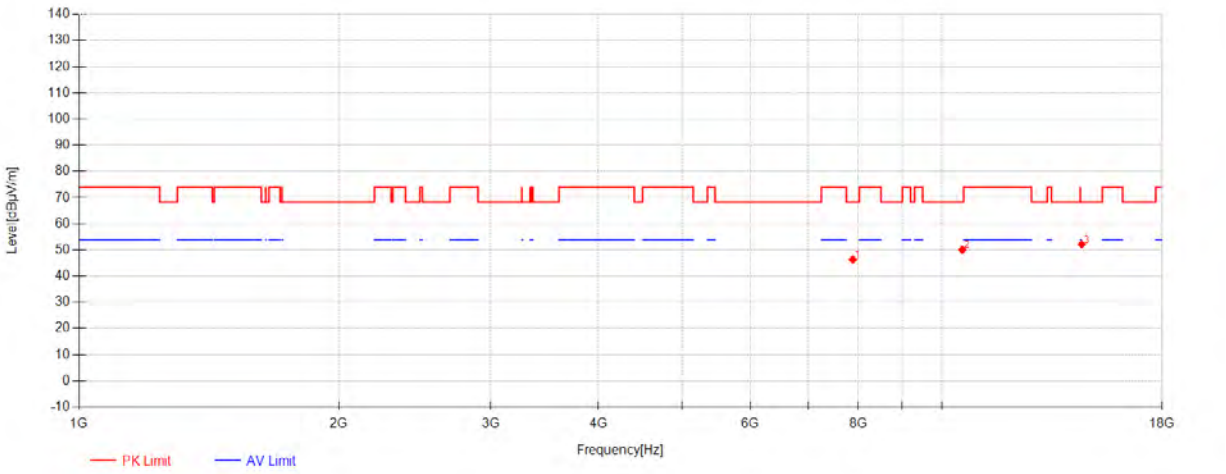
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7380.2292	50.34	36.06	-42.90	43.51	74.00	30.49	Vertical
2	10436.833	49.30	38.54	-38.73	49.11	68.30	19.19	Vertical
3	14454.166	45.38	41.16	-34.62	51.92	68.30	16.38	Vertical

802.11ac80_Channel 58



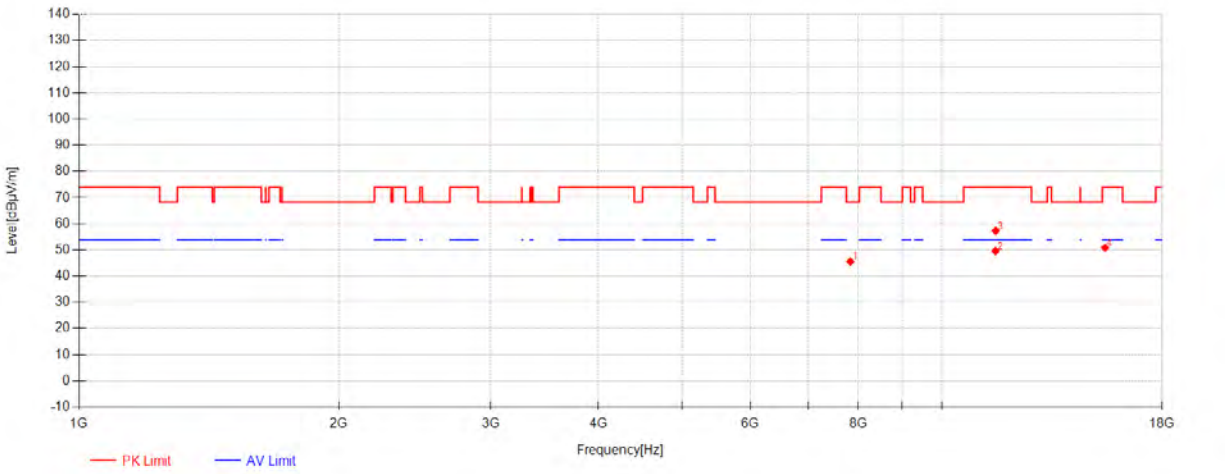
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7823.4583	50.14	36.85	-42.62	44.38	68.30	23.92	Horizontal
2	10562.375	50.84	38.56	-38.29	51.10	68.30	17.20	Horizontal
3	13984.104	44.76	40.78	-34.91	50.63	68.30	17.67	Horizontal

802.11ac80_Channel 58



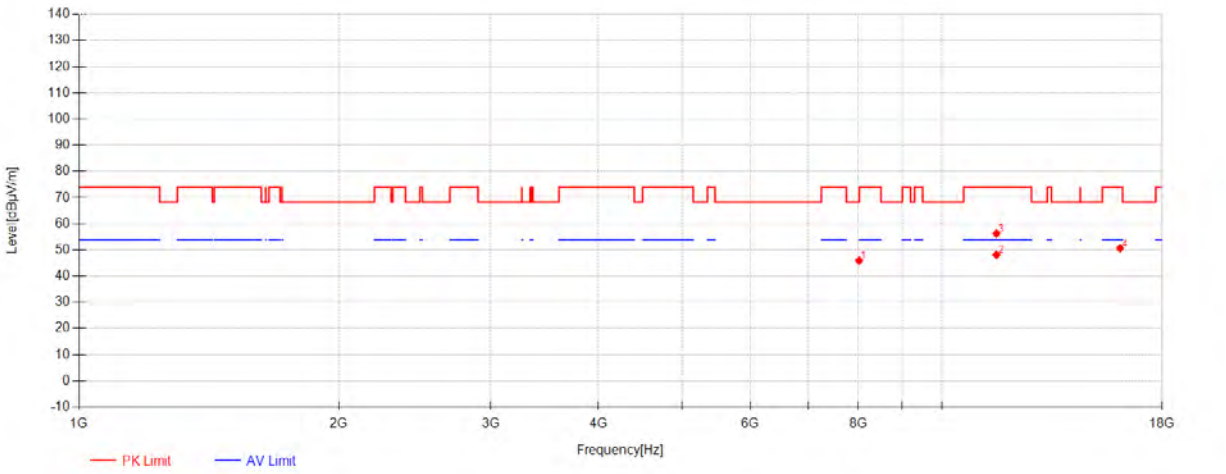
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7886.2292	52.16	36.94	-42.72	46.38	68.30	21.92	Vertical
2	10562.375	49.77	38.56	-38.29	50.03	68.30	18.27	Vertical
3	14523.645	45.45	41.22	-34.49	52.17	68.30	16.13	Vertical

802.11ac80_Channel 155



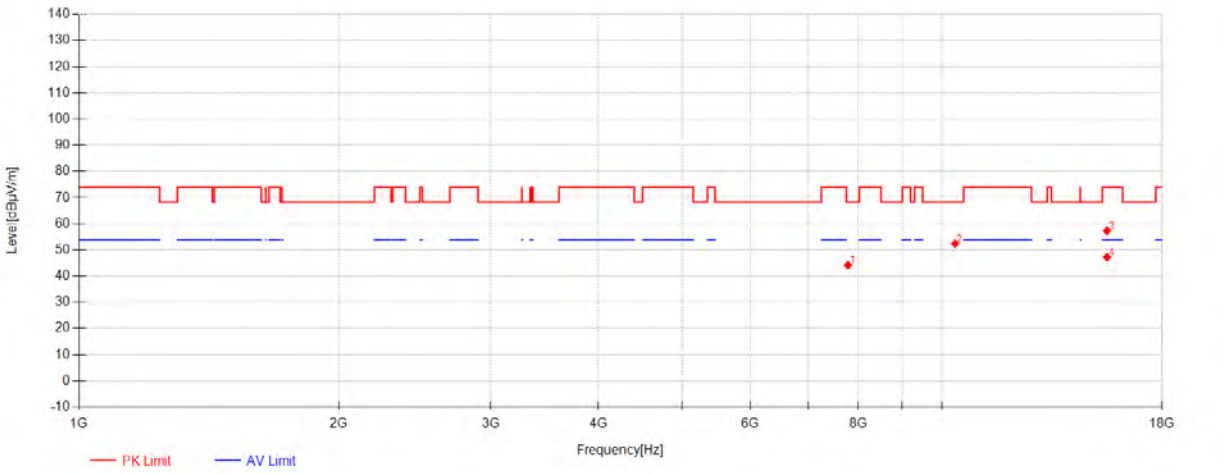
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7834	51.39	36.87	-42.63	45.62	68.30	22.68	Horizontal
2	11540.833	47.43	38.87	-36.70	49.60	54.00	4.40	Horizontal
3	11544.666	55.15	38.87	-36.72	57.30	74.00	16.70	Horizontal
4	15456.104	44.83	40.64	-34.65	50.82	74.00	23.18	Horizontal

802.11ac80_Channel 155



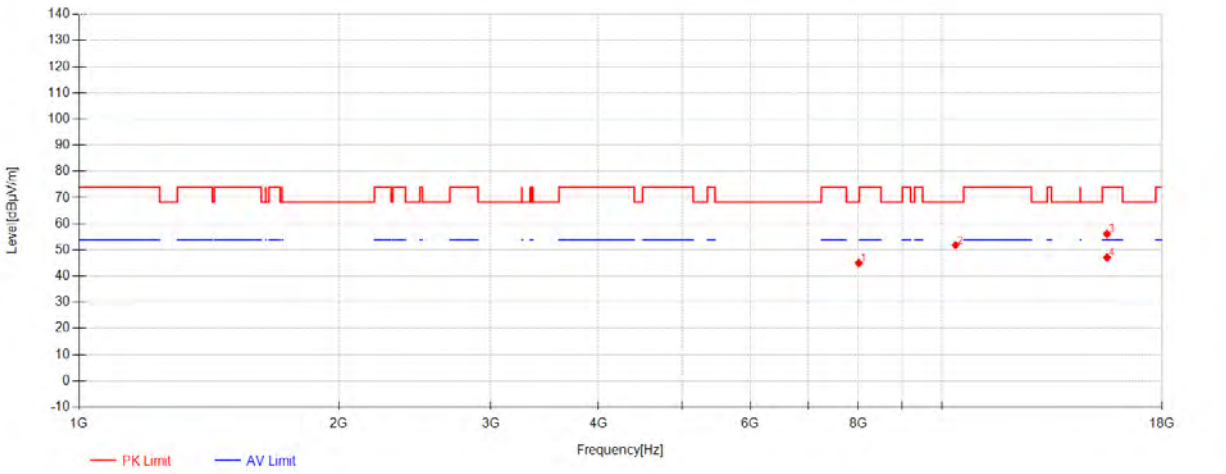
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8016.5625	50.86	37.09	-42.00	45.95	68.30	22.35	Vertical
2	11566.708	46.04	38.88	-36.82	48.10	54.00	5.90	Vertical
3	11566.708	54.21	38.88	-36.82	56.27	74.00	17.73	Vertical
4	16090.520	45.12	39.74	-34.22	50.64	74.00	23.36	Vertical

802.11ax20_Channel 36



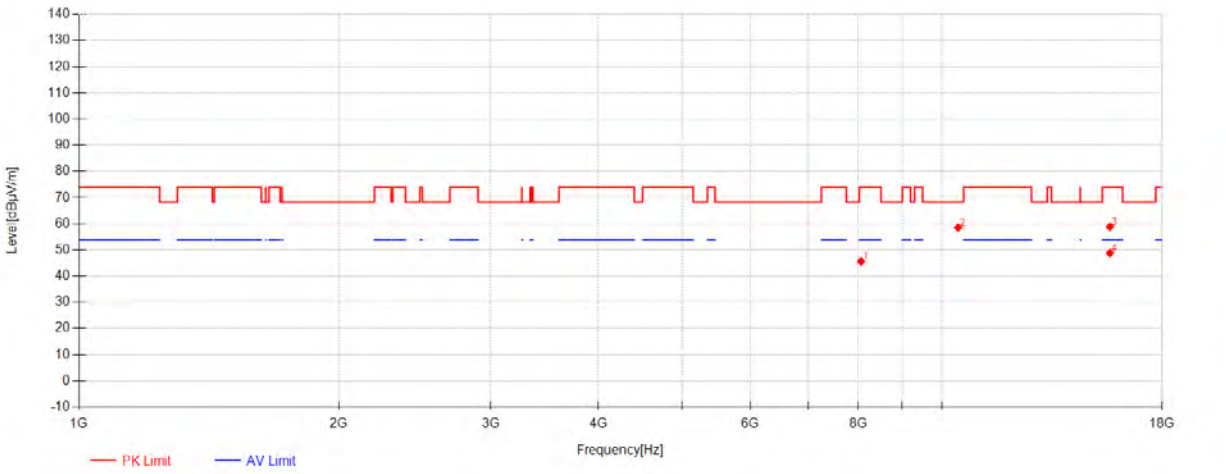
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7784.1667	50.07	36.80	-42.64	44.23	68.30	24.07	Horizontal
2	10358.729	52.70	38.54	-38.82	52.41	68.30	15.89	Horizontal
3	15538.520	51.66	40.47	-34.82	57.30	74.00	16.70	Horizontal
4	15542.833	41.62	40.46	-34.79	47.29	54.00	6.71	Horizontal

802.11ax20_Channel 36



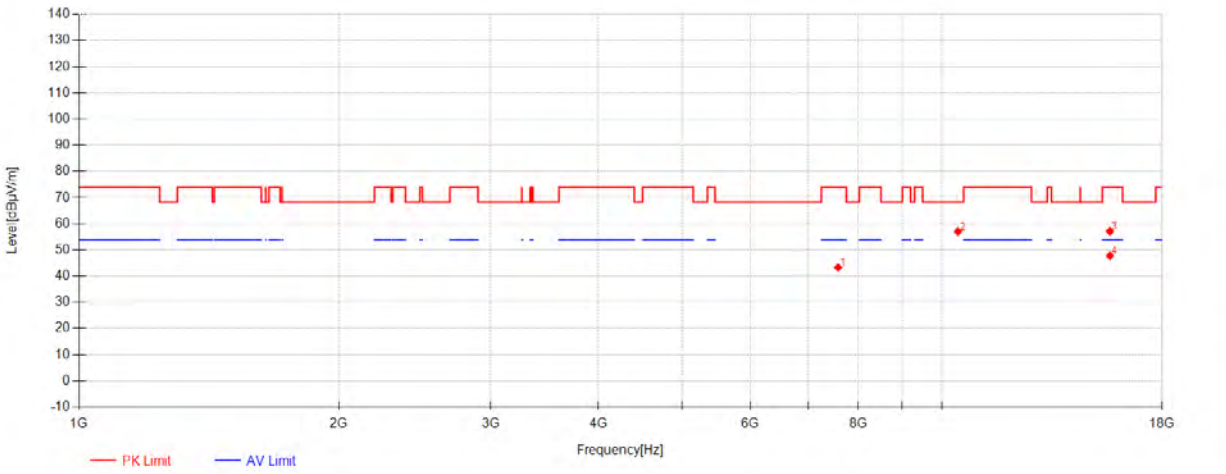
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8011.2917	49.99	37.09	-42.04	45.04	68.30	23.26	Vertical
2	10370.708	52.13	38.54	-38.79	51.87	68.30	16.43	Vertical
3	15538.041	50.50	40.47	-34.83	56.14	74.00	17.86	Vertical
4	15542.833	41.45	40.46	-34.79	47.12	54.00	6.88	Vertical

802.11ax20_Channel 44



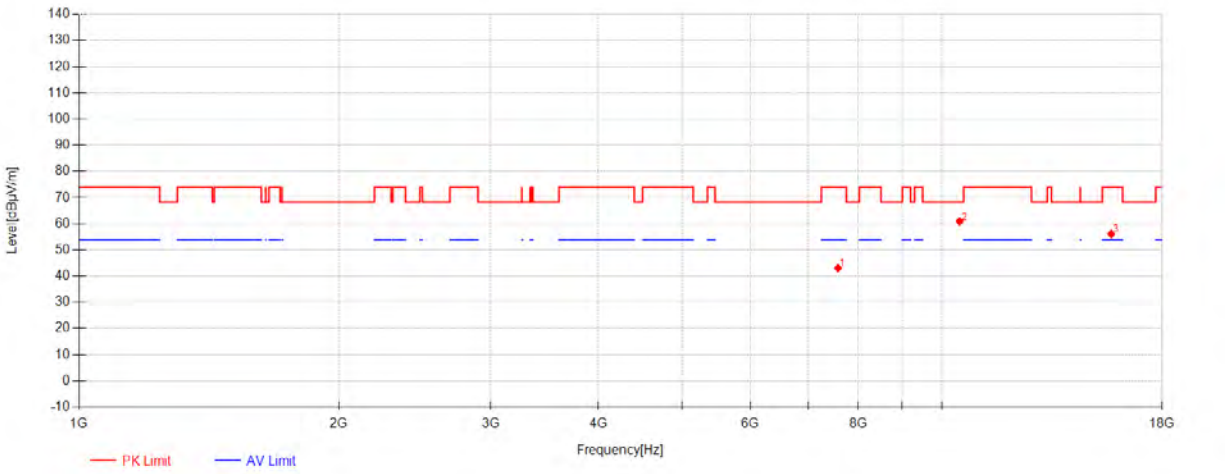
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8061.6042	50.28	37.06	-41.64	45.70	74.00	28.30	Horizontal
2	10442.104	58.72	38.54	-38.74	58.53	68.30	9.77	Horizontal
3	15660.229	52.35	40.21	-33.70	58.86	74.00	15.14	Horizontal
4	15662.625	42.27	40.21	-33.67	48.80	54.00	5.20	Horizontal

802.11ax20_Channel 44



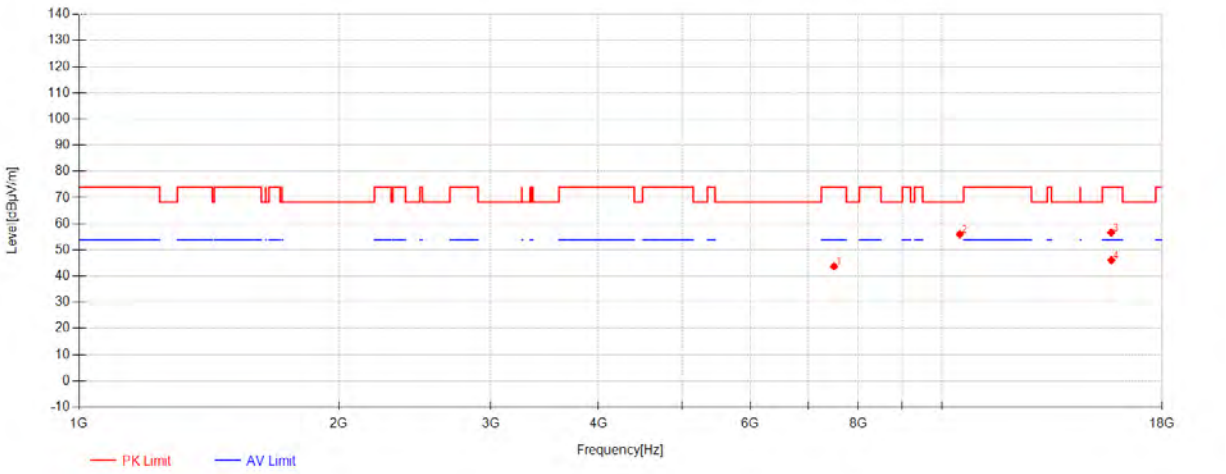
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7581.9583	49.64	36.51	-42.82	43.34	74.00	30.66	Vertical
2	10437.312	57.23	38.54	-38.73	57.04	68.30	11.26	Vertical
3	15657.833	50.64	40.22	-33.73	57.13	74.00	16.87	Vertical
4	15663.104	41.25	40.21	-33.67	47.79	54.00	6.21	Vertical

802.11ax20_Channel 48



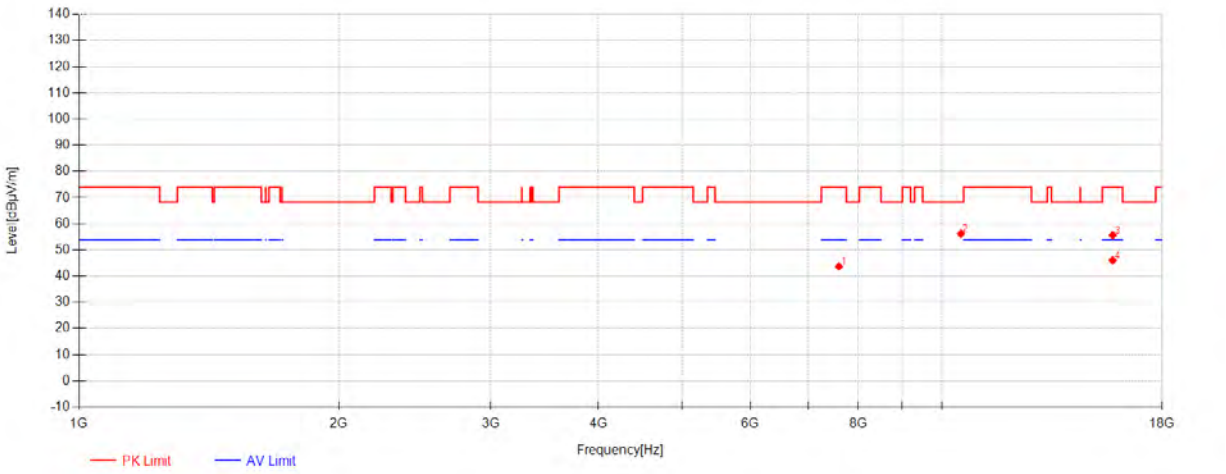
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7579.5625	49.40	36.51	-42.83	43.08	74.00	30.92	Horizontal
2	10486.666	61.11	38.55	-38.75	60.90	68.30	7.40	Horizontal
3	15716.291	49.26	40.10	-33.23	56.13	74.00	17.87	Horizontal

802.11ax20_Channel 48



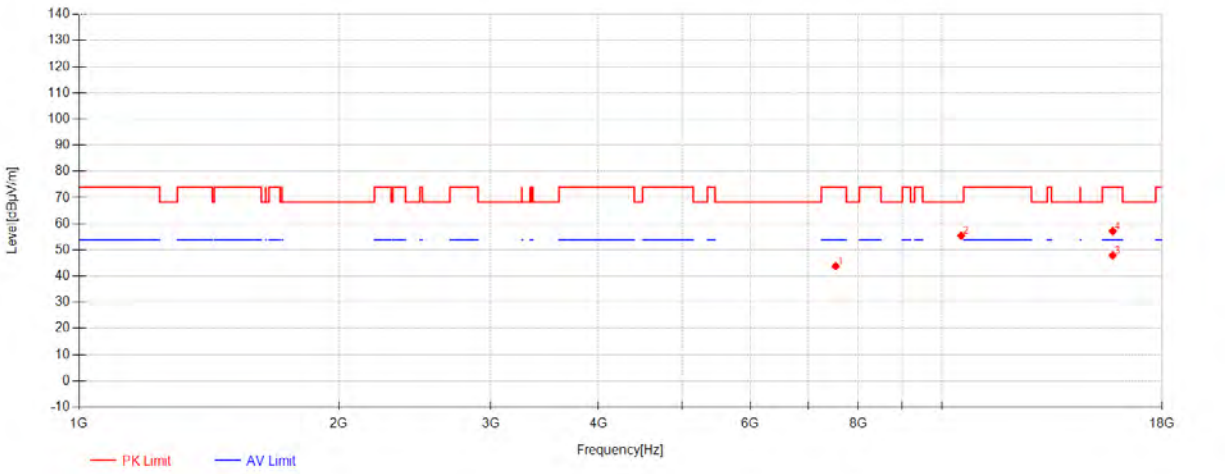
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7500.5	50.53	36.40	-43.17	43.76	74.00	30.24	Vertical
2	10490.5	56.26	38.55	-38.76	56.05	68.30	12.25	Vertical
3	15714.854	49.80	40.10	-33.23	56.67	74.00	17.33	Vertical
4	15720.604	39.23	40.09	-33.22	46.10	54.00	7.90	Vertical

802.11ax20_Channel 52



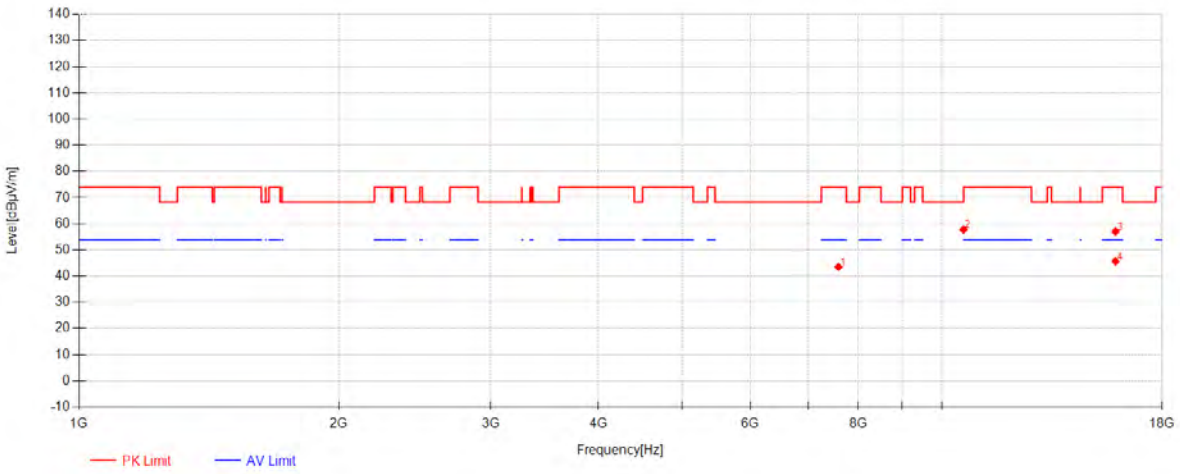
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7598.7292	49.95	36.54	-42.75	43.74	74.00	30.26	Horizontal
2	10525	56.23	38.55	-38.57	56.21	68.30	12.09	Horizontal
3	15776.666	48.80	39.97	-33.11	55.66	74.00	18.34	Horizontal
4	15777.145	39.19	39.97	-33.11	46.05	54.00	7.95	Horizontal

802.11ax20_Channel 52



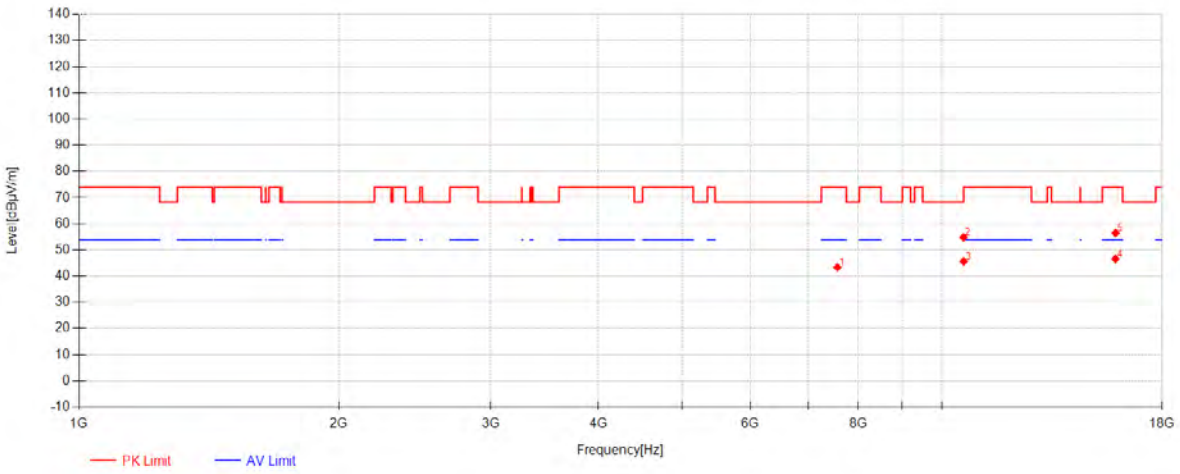
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7532.125	50.43	36.44	-43.03	43.84	74.00	30.16	Vertical
2	10530.270	55.44	38.55	-38.53	55.46	68.30	12.84	Vertical
3	15778.104	41.03	39.97	-33.10	47.89	54.00	6.11	Vertical
4	15780.020	50.34	39.96	-33.10	57.20	74.00	16.80	Vertical

802.11ax20_Channel 60



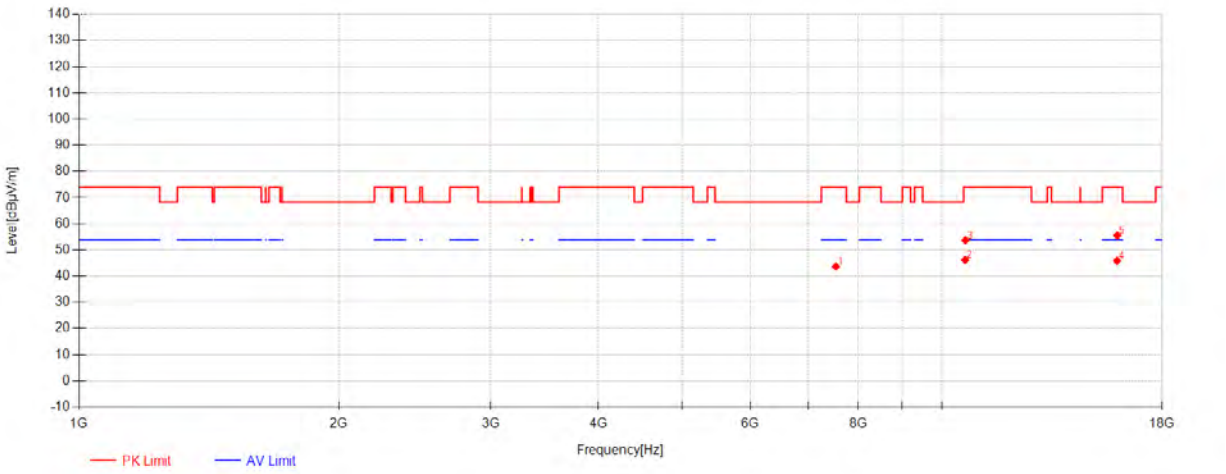
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7589.625	49.82	36.53	-42.78	43.56	74.00	30.44	Horizontal
2	10594.479	57.28	38.56	-38.05	57.79	68.30	10.51	Horizontal
3	15894.062	51.39	39.72	-34.07	57.05	74.00	16.95	Horizontal
4	15894.541	40.07	39.72	-34.07	45.72	54.00	8.28	Horizontal

802.11ax20_Channel 60



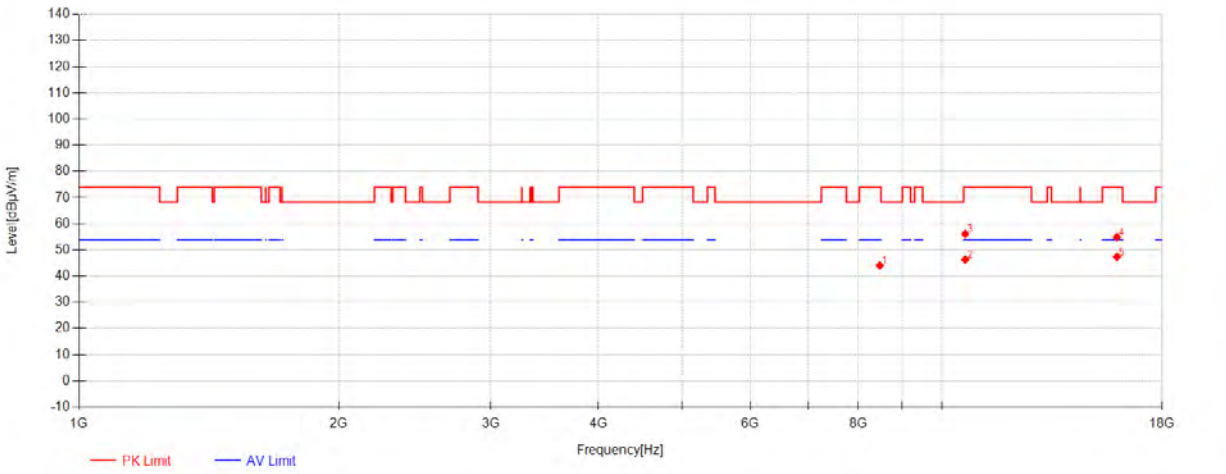
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7567.1042	49.80	36.49	-42.88	43.41	74.00	30.59	Vertical
2	10594	54.40	38.56	-38.06	54.90	68.30	13.40	Vertical
3	10600.708	45.15	38.56	-38.01	45.70	54.00	8.30	Vertical
4	15893.583	40.99	39.72	-34.06	46.65	54.00	7.35	Vertical
5	15900.770	50.90	39.71	-34.14	56.47	74.00	17.53	Vertical

802.11ax20_Channel 64



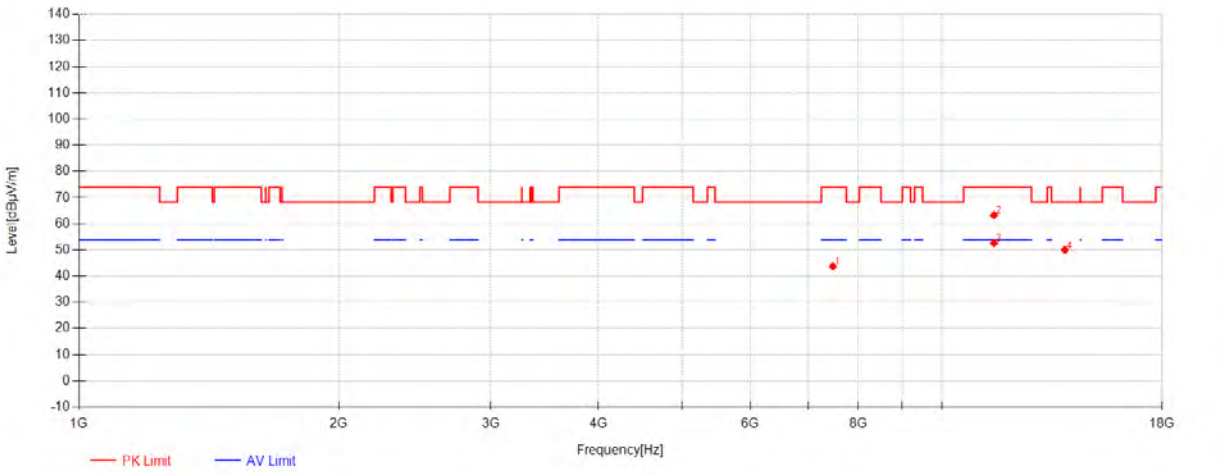
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7536.9167	50.28	36.45	-43.01	43.72	74.00	30.28	Horizontal
2	10640.479	45.44	38.56	-37.80	46.20	54.00	7.80	Horizontal
3	10647.666	52.98	38.56	-37.76	53.78	74.00	20.22	Horizontal
4	15962.104	40.95	39.58	-34.65	45.88	54.00	8.12	Horizontal
5	15968.812	50.68	39.57	-34.70	55.54	74.00	18.46	Horizontal

802.11ax20_Channel 64



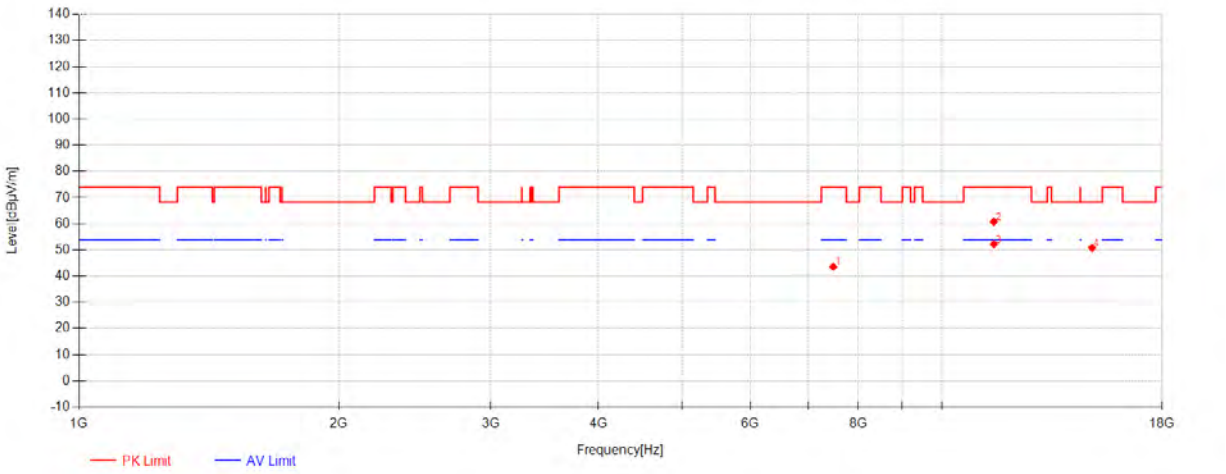
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	8474.1667	48.97	36.82	-41.69	44.10	74.00	29.90	Vertical
2	10642.395	45.60	38.56	-37.79	46.37	54.00	7.63	Vertical
3	10642.395	55.36	38.56	-37.79	56.13	74.00	17.87	Vertical
4	15956.354	49.97	39.59	-34.60	54.96	74.00	19.04	Vertical
5	15959.708	42.41	39.58	-34.63	47.37	54.00	6.63	Vertical

802.11ax20_Channel 149



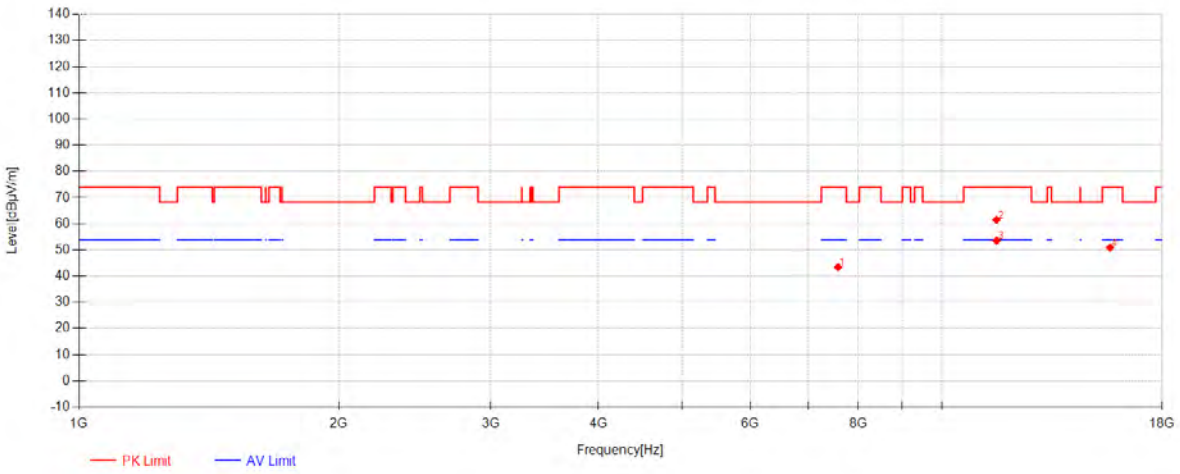
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7477.0208	50.54	36.34	-43.08	43.79	74.00	30.21	Horizontal
2	11492.916	61.05	38.85	-36.58	63.32	74.00	10.68	Horizontal
3	11494.354	50.32	38.85	-36.57	52.60	54.00	1.40	Horizontal
4	13887.312	45.01	40.64	-35.66	50.00	68.30	18.30	Horizontal

802.11ax20_Channel 149



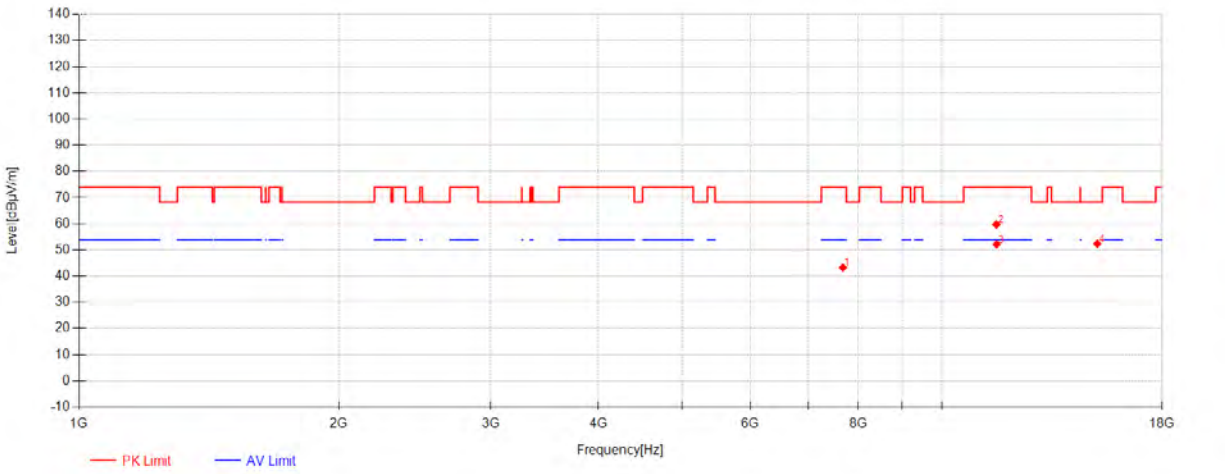
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7484.6875	50.36	36.36	-43.11	43.61	74.00	30.39	Vertical
2	11488.604	58.54	38.84	-36.62	60.76	74.00	13.24	Vertical
3	11490.041	50.00	38.85	-36.61	52.24	54.00	1.76	Vertical
4	14930.937	44.18	41.54	-34.91	50.81	68.30	17.49	Vertical

802.11ax20_Channel 157



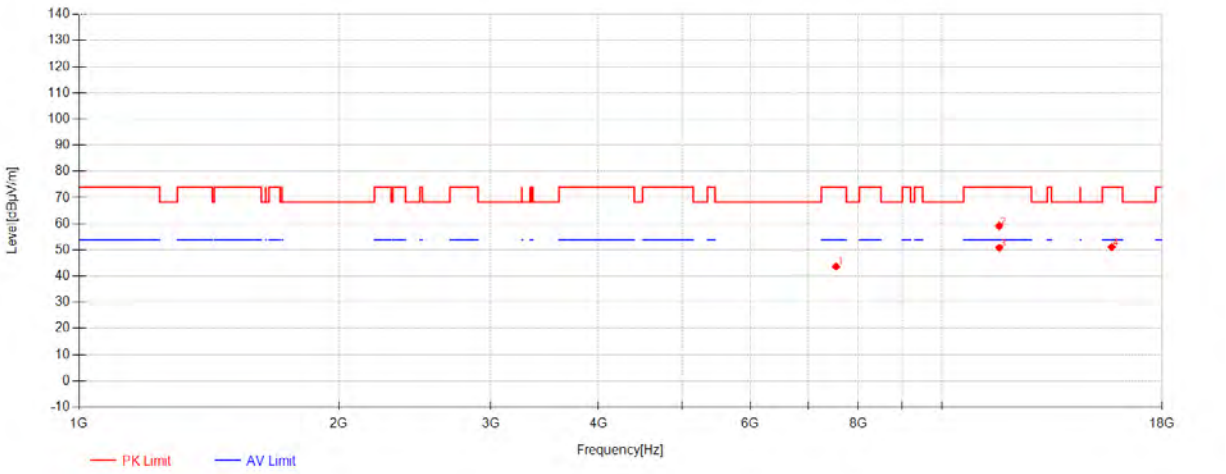
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7580.5208	49.78	36.51	-42.82	43.47	74.00	30.53	Horizontal
2	11568.625	59.45	38.88	-36.83	61.50	74.00	12.50	Horizontal
3	11571.020	51.55	38.89	-36.84	53.59	54.00	0.41	Horizontal
4	15663.104	44.36	40.21	-33.67	50.90	74.00	23.10	Horizontal

802.11ax20_Channel 157



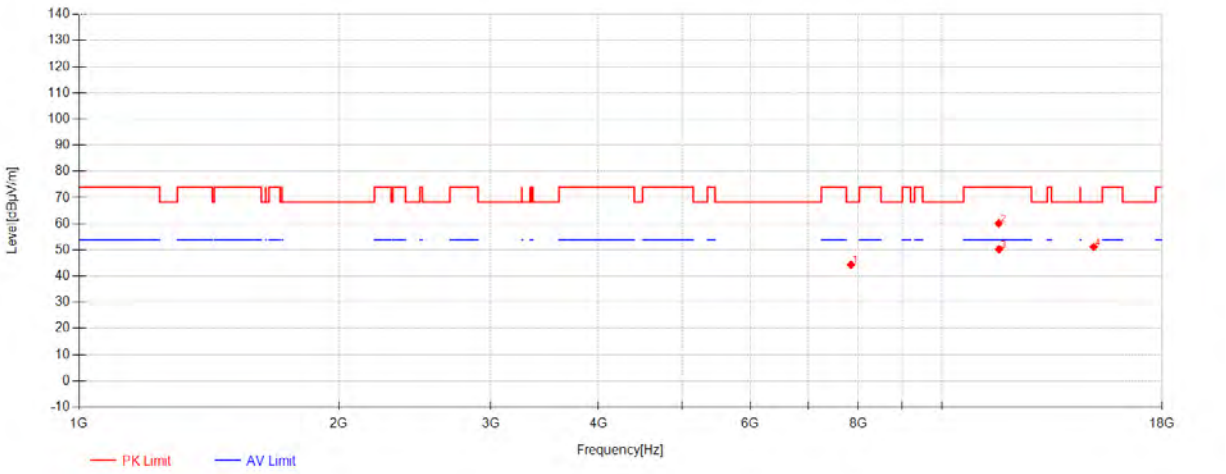
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7680.1875	49.57	36.65	-42.91	43.31	74.00	30.69	Vertical
2	11565.75	57.67	38.88	-36.82	59.73	74.00	14.27	Vertical
3	11571.5	50.12	38.89	-36.85	52.16	54.00	1.84	Vertical
4	15141.770	45.27	41.30	-34.18	52.39	68.30	15.91	Vertical

802.11ax20_Channel 165



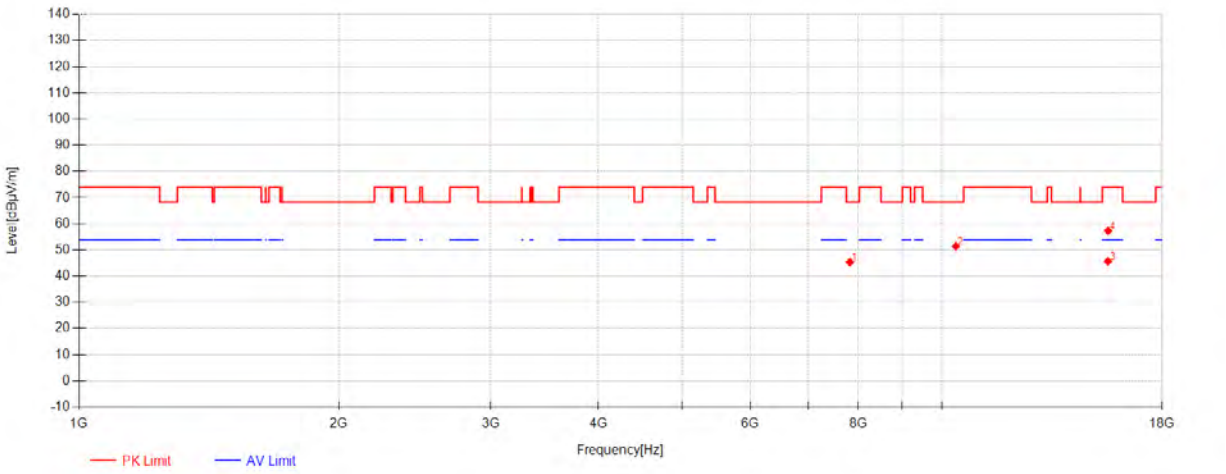
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7540.75	50.23	36.46	-42.99	43.69	74.00	30.31	Horizontal
2	11655.354	56.68	38.93	-36.49	59.12	74.00	14.88	Horizontal
3	11655.833	48.39	38.93	-36.48	50.83	54.00	3.17	Horizontal
4	15737.375	44.24	40.05	-33.19	51.11	74.00	22.89	Horizontal

802.11ax20_Channel 165



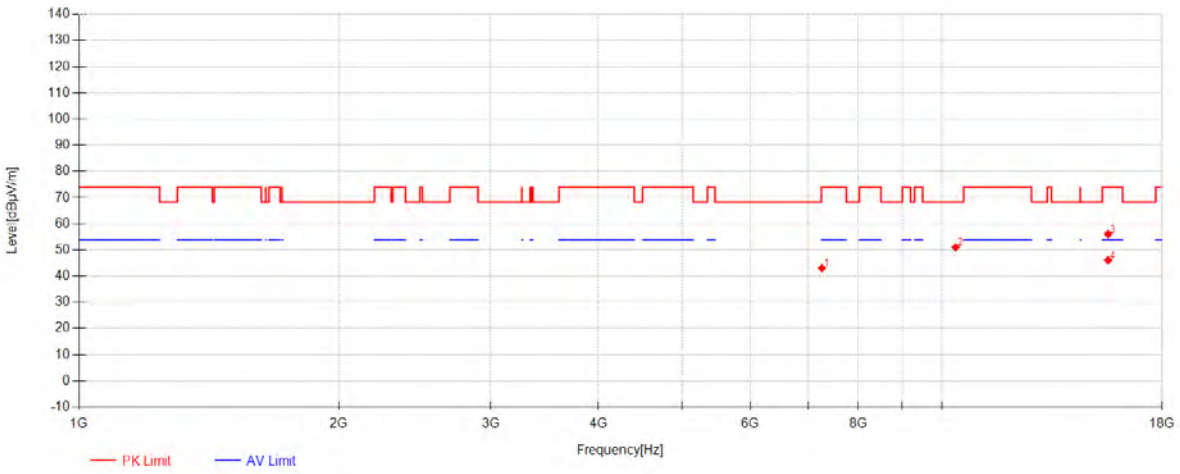
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7846.4583	50.21	36.89	-42.65	44.44	68.30	23.86	Vertical
2	11639.541	57.80	38.92	-36.63	60.09	74.00	13.91	Vertical
3	11650.562	47.84	38.93	-36.53	50.24	54.00	3.76	Vertical
4	14995.145	44.04	41.60	-34.45	51.18	68.30	17.12	Vertical

802.11ax40_Channel 38



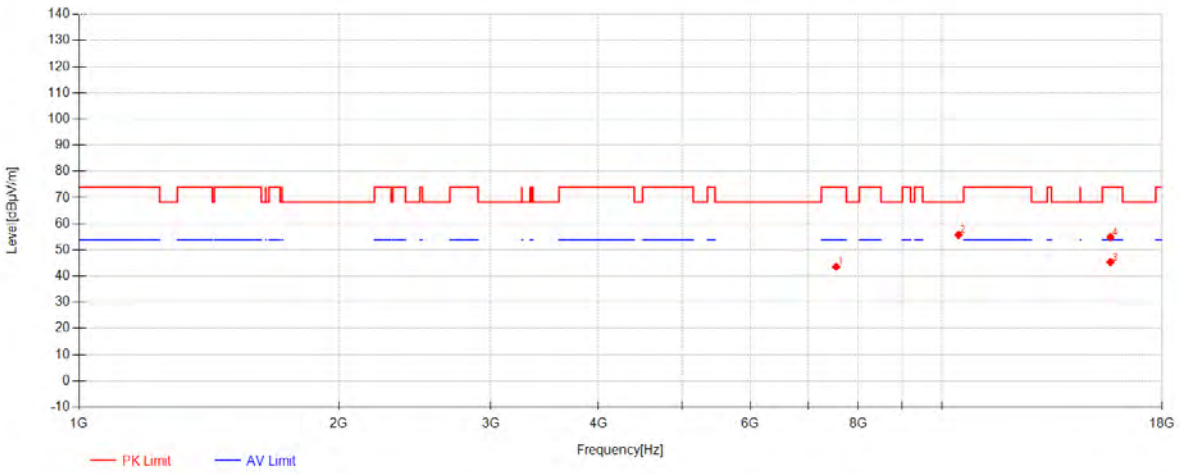
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7823.4583	51.20	36.85	-42.62	45.44	68.30	22.86	Horizontal
2	10378.854	51.65	38.54	-38.77	51.42	68.30	16.88	Horizontal
3	15575.416	39.86	40.39	-34.55	45.70	54.00	8.30	Horizontal
4	15585	51.40	40.37	-34.48	57.29	74.00	16.71	Horizontal

802.11ax40_Channel 38



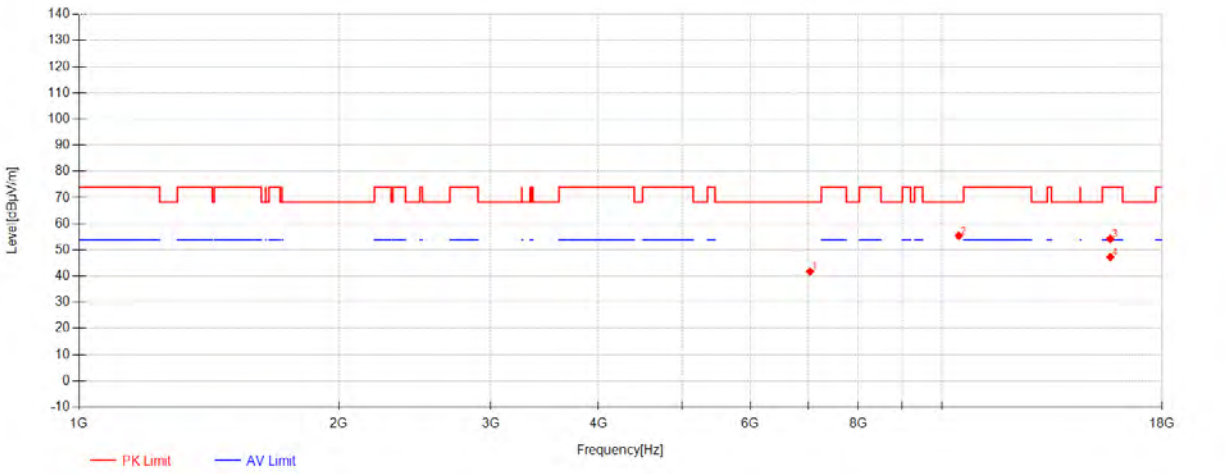
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7261.875	50.76	35.73	-43.44	43.06	74.00	30.94	Vertical
2	10374.541	51.26	38.54	-38.78	51.01	68.30	17.29	Vertical
3	15585.479	50.19	40.37	-34.48	56.08	74.00	17.92	Vertical
4	15585.958	40.19	40.37	-34.47	46.09	54.00	7.91	Vertical

802.11ax40_Channel 46



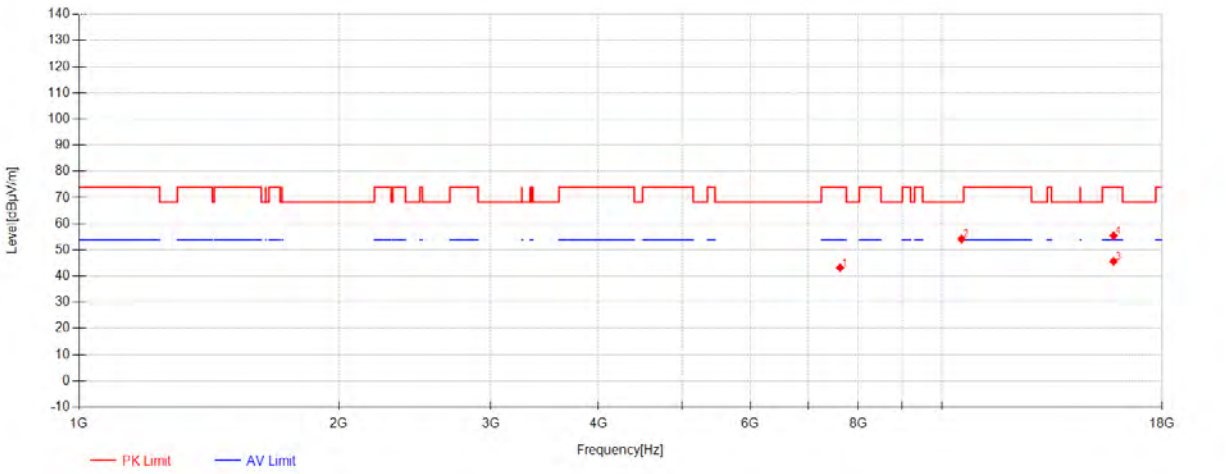
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7542.6667	50.14	36.46	-42.99	43.61	74.00	30.39	Horizontal
2	10452.645	56.00	38.55	-38.74	55.80	68.30	12.50	Horizontal
3	15680.833	38.72	40.17	-33.47	45.42	54.00	8.58	Horizontal
4	15688.5	48.22	40.15	-33.39	54.99	74.00	19.01	Horizontal

802.11ax40_Channel 46



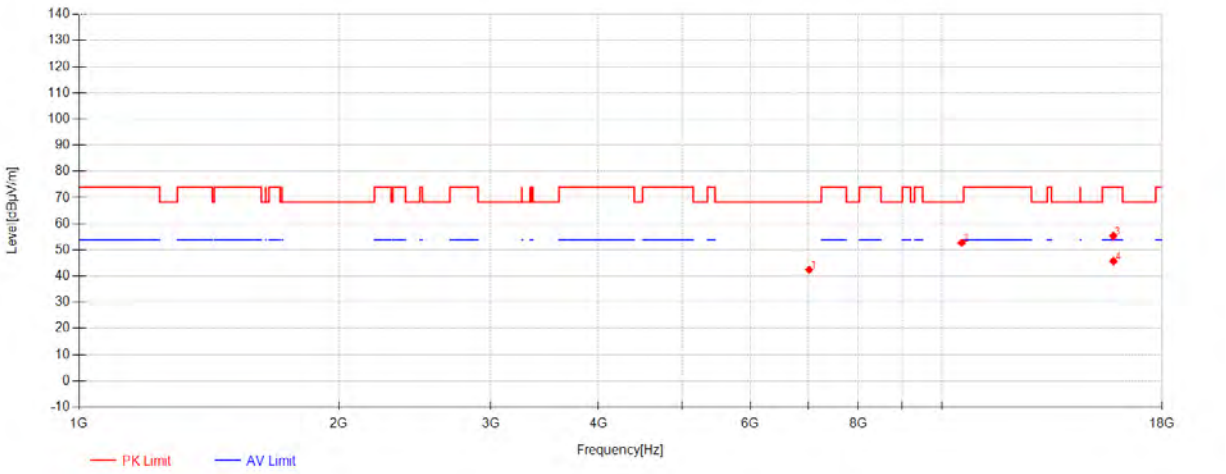
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7034.75	49.87	35.10	-43.22	41.74	68.30	26.56	Vertical
2	10461.75	55.63	38.55	-38.74	55.43	68.30	12.87	Vertical
3	15675.562	47.64	40.18	-33.53	54.29	74.00	19.71	Vertical
4	15683.229	40.58	40.17	-33.45	47.30	54.00	6.70	Vertical

802.11ax40_Channel 54



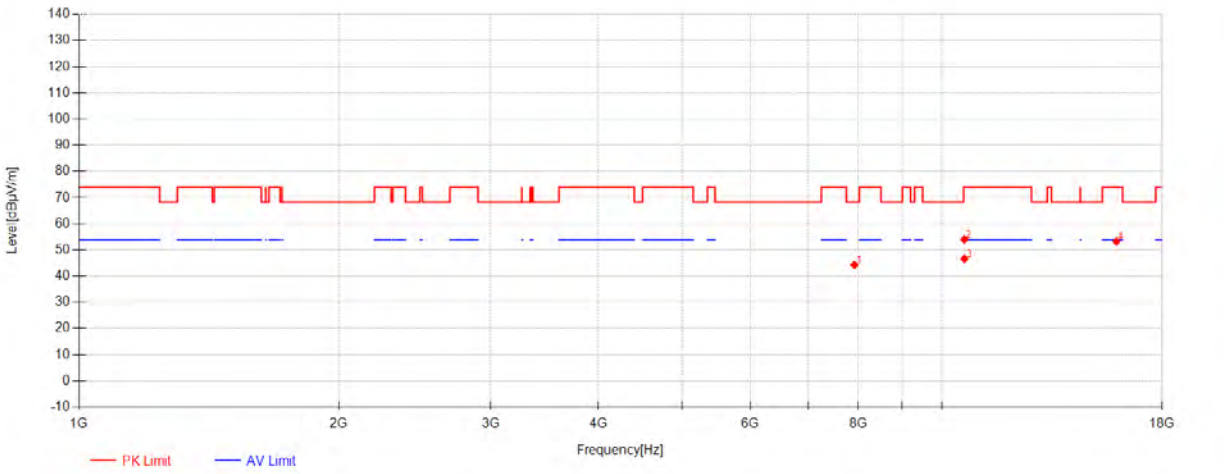
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7623.1667	49.46	36.57	-42.79	43.24	74.00	30.76	Horizontal
2	10540.333	54.13	38.55	-38.46	54.23	68.30	14.07	Horizontal
3	15813.083	39.01	39.89	-33.20	45.70	54.00	8.30	Horizontal
4	15815	48.79	39.89	-33.22	55.46	74.00	18.54	Horizontal

802.11ax40_Channel 54



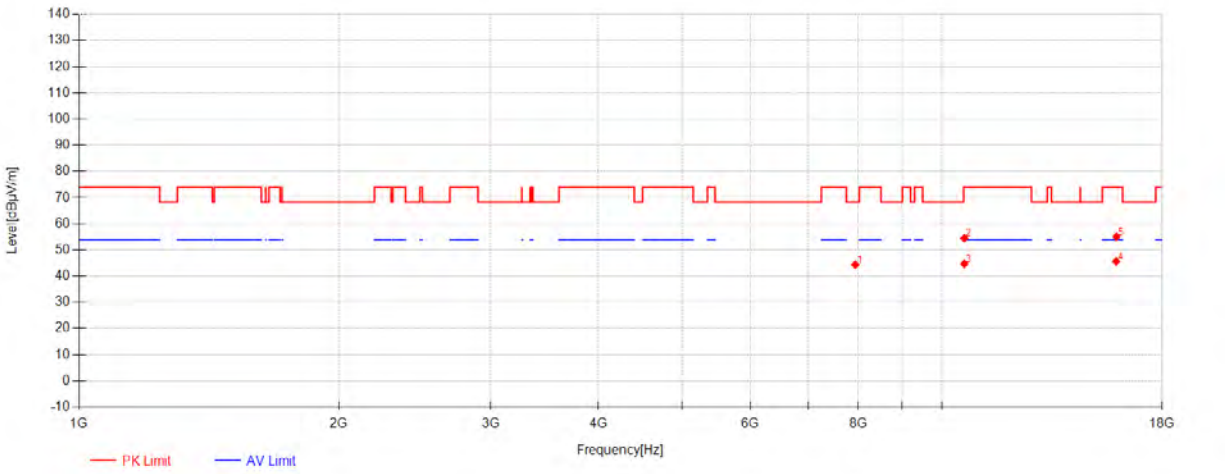
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7017.9792	50.53	35.05	-43.11	42.47	68.30	25.83	Vertical
2	10540.812	52.64	38.55	-38.45	52.74	68.30	15.56	Vertical
3	15800.145	48.51	39.92	-33.06	55.37	74.00	18.63	Vertical
4	15811.645	39.06	39.90	-33.18	45.77	54.00	8.23	Vertical

802.11ax40_Channel 62



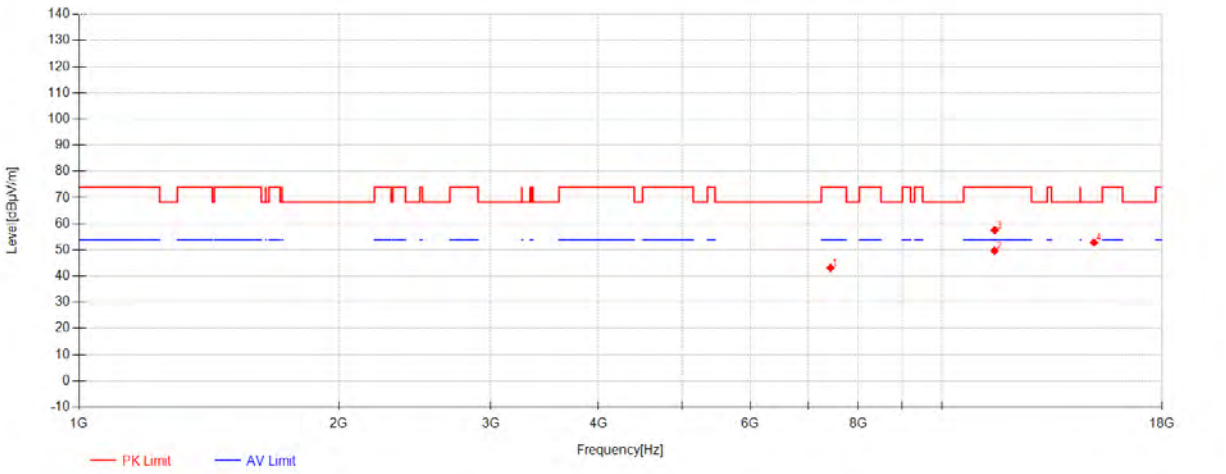
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7920.25	50.01	36.99	-42.62	44.38	68.30	23.92	Horizontal
2	10618.916	53.45	38.56	-37.91	54.10	74.00	19.90	Horizontal
3	10619.395	46.02	38.56	-37.91	46.67	54.00	7.33	Horizontal
4	15937.187	48.12	39.63	-34.44	53.31	74.00	20.69	Horizontal

802.11ax40_Channel 62



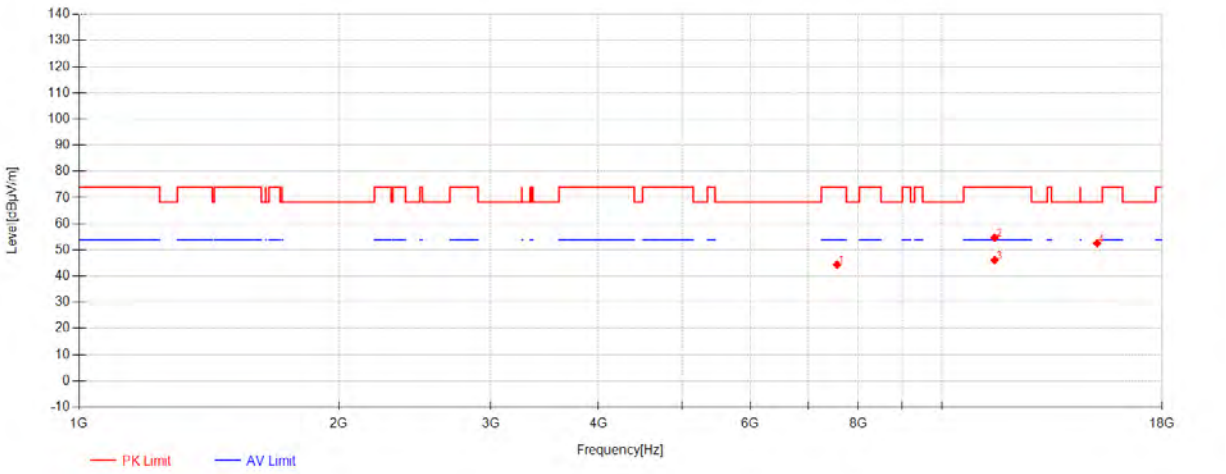
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7937.0208	49.97	37.01	-42.51	44.47	68.30	23.83	Vertical
2	10616.041	53.88	38.56	-37.93	54.52	74.00	19.48	Vertical
3	10617.958	44.11	38.56	-37.92	44.76	54.00	9.24	Vertical
4	15927.604	40.40	39.65	-34.36	45.69	54.00	8.31	Vertical
5	15936.229	49.91	39.63	-34.43	55.11	74.00	18.89	Vertical

802.11ax40_Channel 151



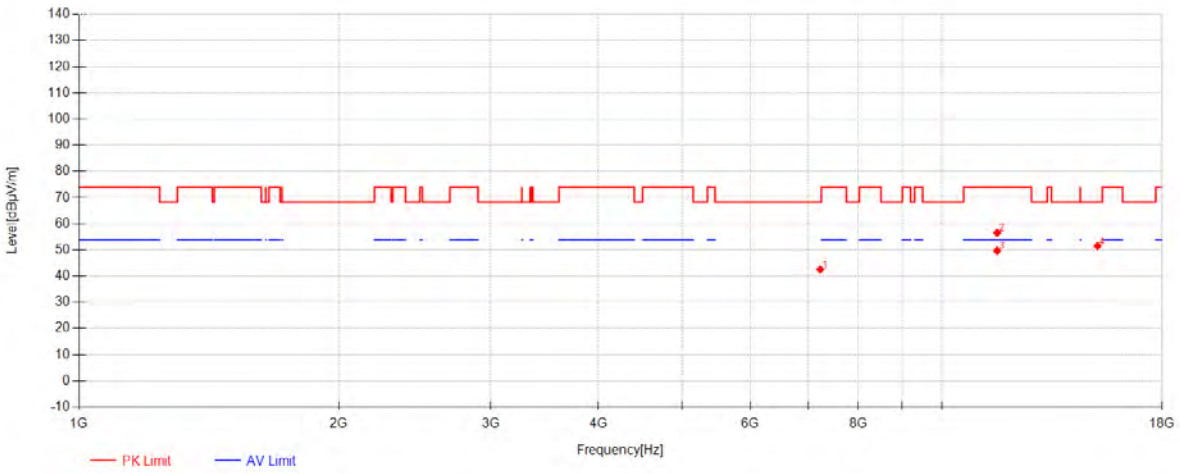
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7431.0208	49.88	36.21	-42.91	43.18	74.00	30.82	Horizontal
2	11509.208	47.39	38.85	-36.55	49.69	54.00	4.31	Horizontal
3	11514.958	55.27	38.86	-36.58	57.55	74.00	16.45	Horizontal
4	15010.479	45.74	41.58	-34.43	52.89	68.30	15.41	Horizontal

802.11ax40_Channel 151



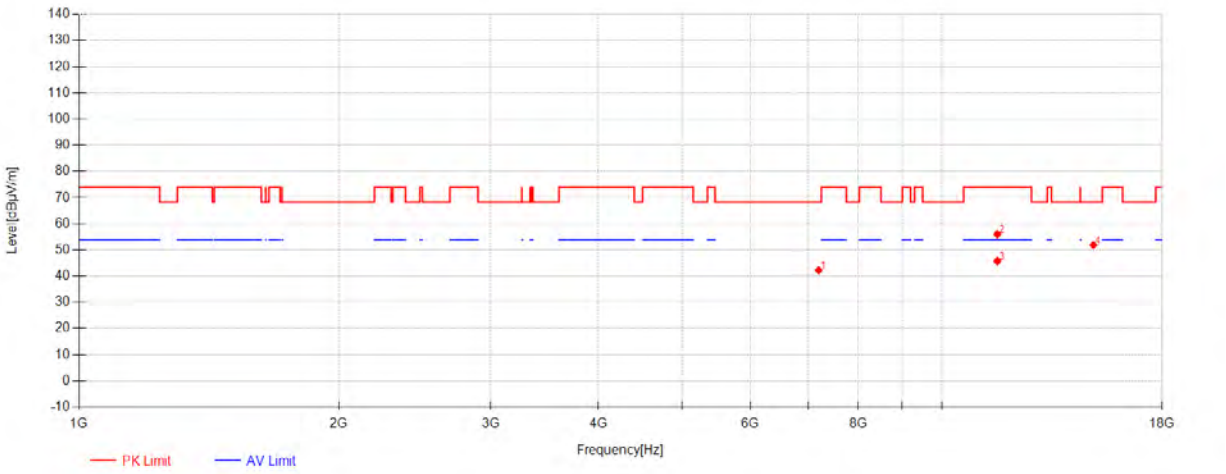
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7561.3542	50.91	36.49	-42.91	44.49	74.00	29.51	Vertical
2	11511.125	52.47	38.86	-36.56	54.76	74.00	19.24	Vertical
3	11512.083	43.86	38.86	-36.57	46.15	54.00	7.85	Vertical
4	15134.104	45.47	41.32	-34.23	52.55	68.30	15.75	Vertical

802.11ax40_Channel 159



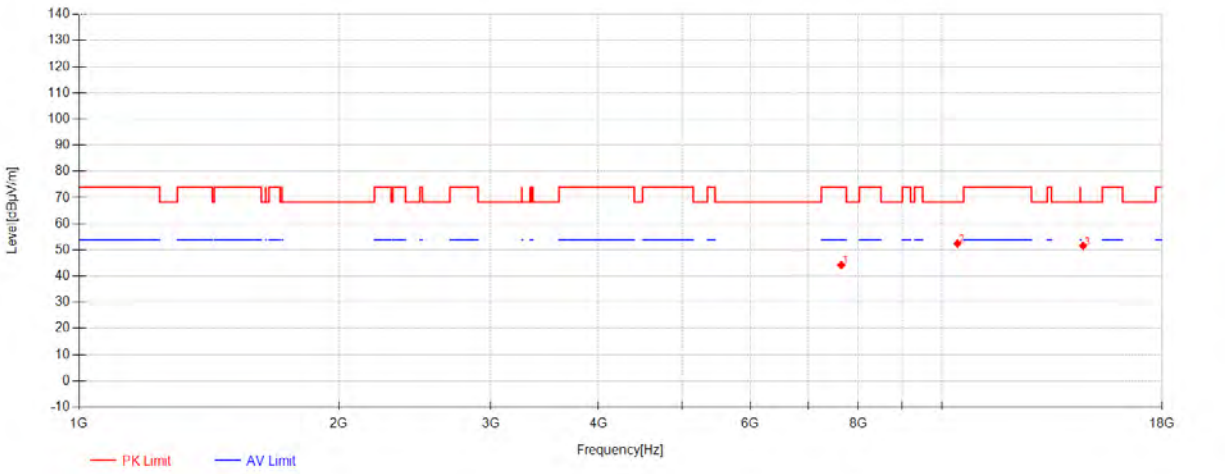
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7229.2917	50.45	35.64	-43.53	42.56	68.30	25.74	Horizontal
2	11590.187	54.59	38.90	-36.93	56.55	74.00	17.45	Horizontal
3	11590.187	47.75	38.90	-36.93	49.71	54.00	4.29	Horizontal
4	15152.791	44.37	41.28	-34.10	51.55	68.30	16.75	Horizontal

802.11ax40_Channel 159



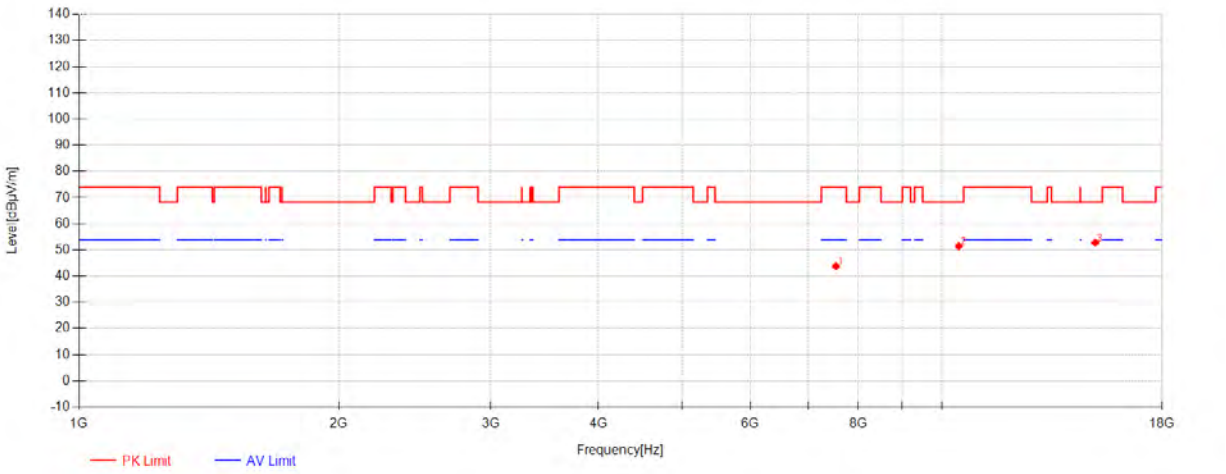
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7198.625	50.33	35.56	-43.61	42.28	68.30	26.02	Vertical
2	11594.979	54.08	38.90	-36.96	56.02	74.00	17.98	Vertical
3	11595.458	43.86	38.90	-36.96	45.80	54.00	8.20	Vertical
4	14987.958	44.83	41.59	-34.51	51.91	68.30	16.39	Vertical

802.11ax80_Channel 42



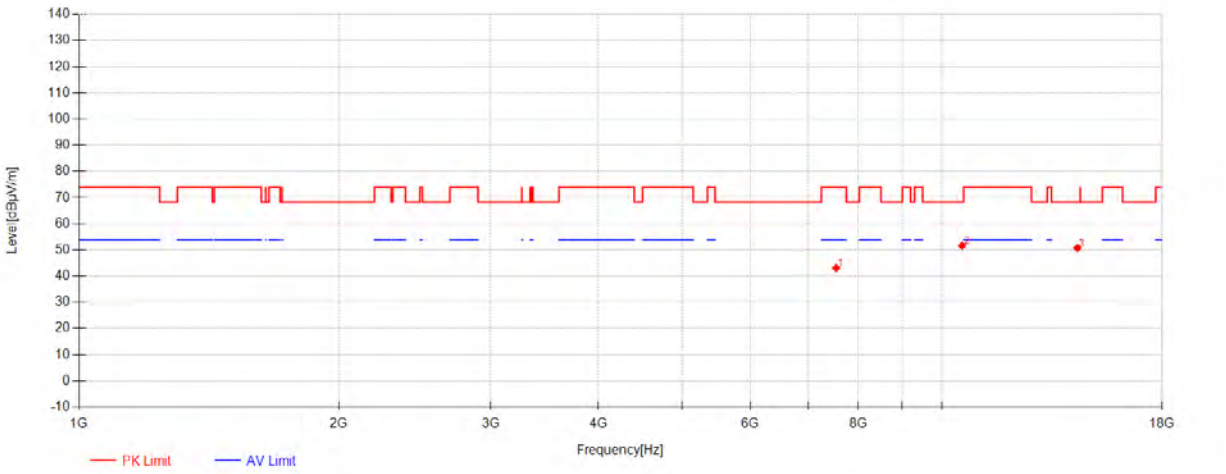
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7647.125	50.51	36.61	-42.84	44.28	74.00	29.72	Horizontal
2	10427.25	52.64	38.54	-38.73	52.45	68.30	15.85	Horizontal
3	14575.875	45.42	41.26	-35.08	51.60	68.30	16.70	Horizontal

802.11ax80_Channel 42



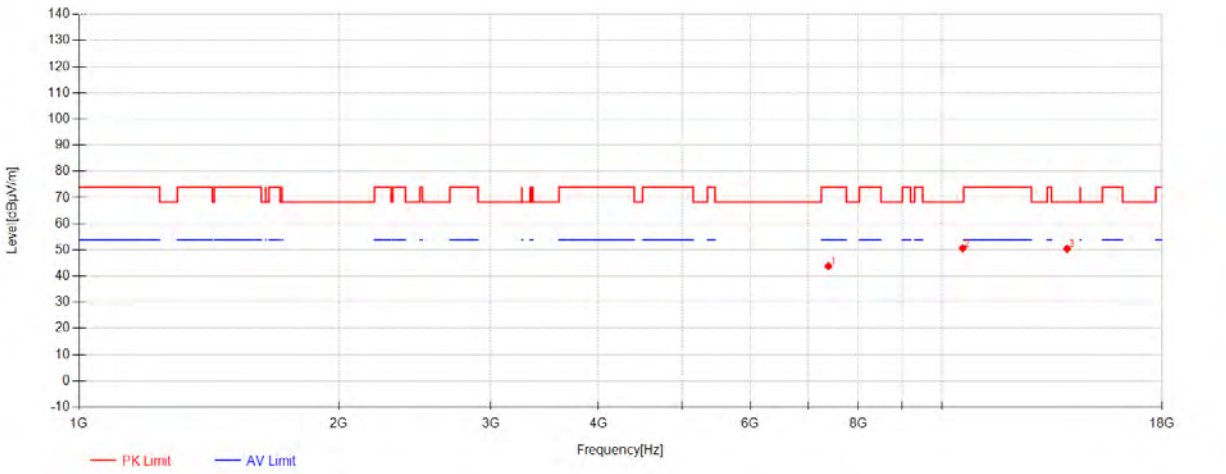
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7538.8333	50.38	36.45	-43.00	43.83	74.00	30.17	Vertical
2	10462.708	51.67	38.55	-38.75	51.47	68.30	16.83	Vertical
3	15057.916	45.80	41.48	-34.45	52.82	68.30	15.48	Vertical

802.11ax80_Channel 58



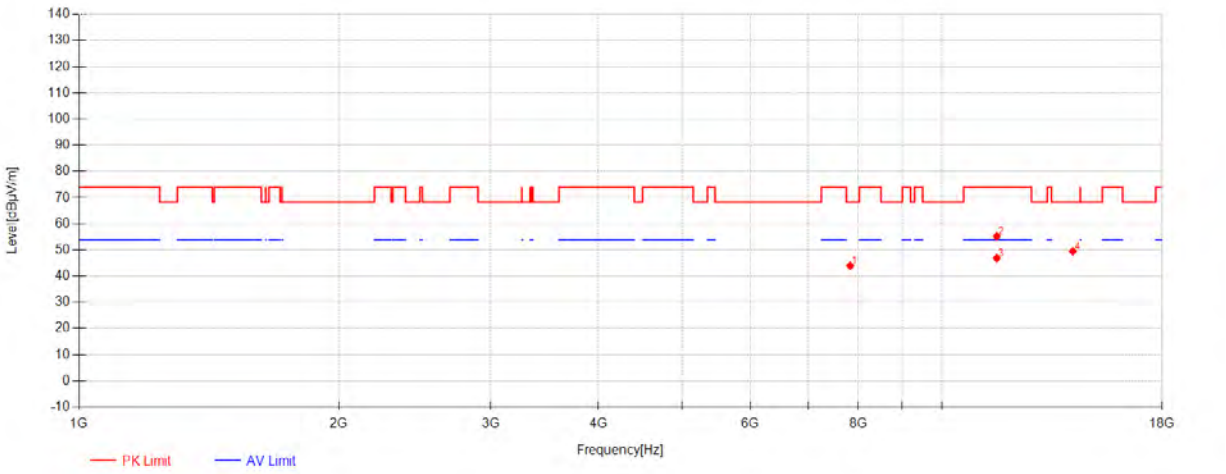
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7543.1458	49.63	36.46	-42.98	43.11	74.00	30.89	Horizontal
2	10556.145	51.41	38.56	-38.34	51.63	68.30	16.67	Horizontal
3	14361.208	45.01	41.09	-35.38	50.72	68.30	17.58	Horizontal

802.11ax80_Channel 58



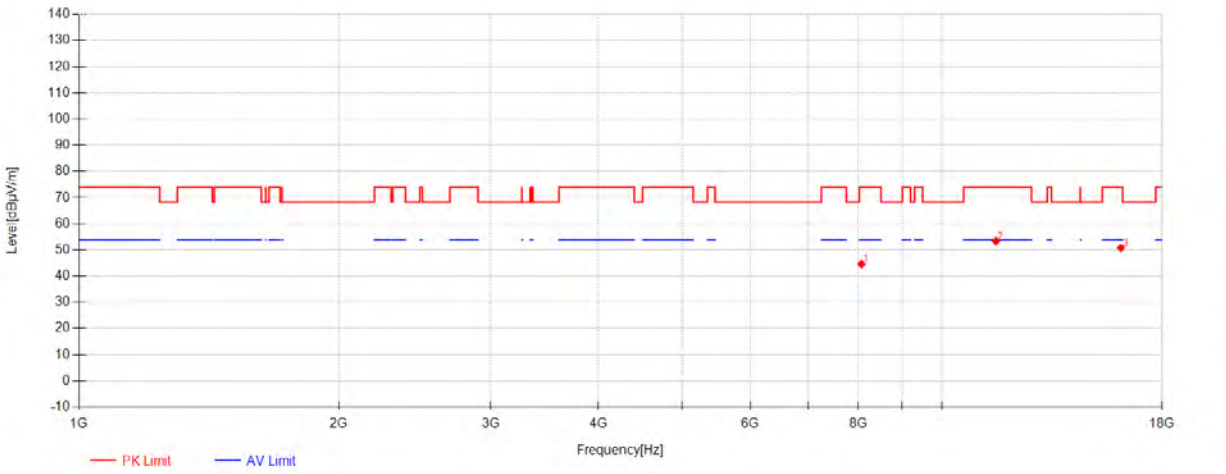
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7387.8958	50.62	36.09	-42.86	43.85	74.00	30.15	Vertical
2	10571.958	50.27	38.56	-38.22	50.61	68.30	17.69	Vertical
3	13966.375	44.71	40.75	-35.05	50.42	68.30	17.88	Vertical

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	7830.6458	49.77	36.86	-42.63	44.00	68.30	24.30	Horizontal
2	11576.291	53.21	38.89	-36.87	55.23	74.00	18.77	Horizontal
3	11576.770	44.86	38.89	-36.87	46.88	54.00	7.12	Horizontal
4	14183.437	43.99	40.95	-35.43	49.50	68.30	18.80	Horizontal

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	8069.2708	49.23	37.06	-41.58	44.71	74.00	29.29	Vertical
2	11554.25	51.30	38.88	-36.76	53.41	74.00	20.59	Vertical
3	16128.375	45.16	39.83	-34.23	50.77	74.00	23.23	Vertical

7.5 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.

7.5.1 E.U.T. Operation

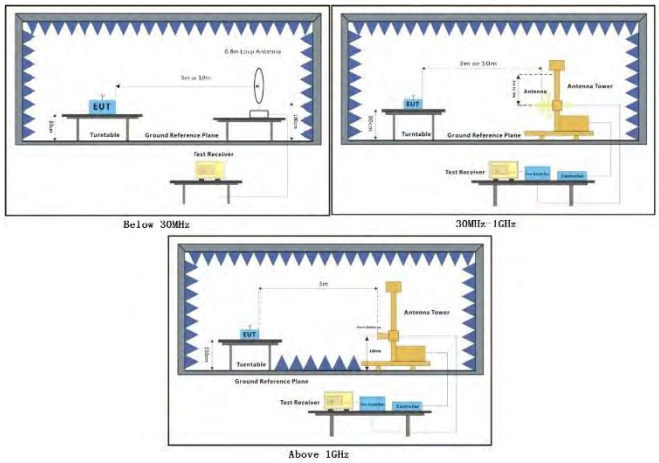
Operating Environment:
Temperature: 23 °C Humidity: 46 % RH Atmospheric Pressure: 1010 mbar

7.5.2 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-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.

7.5.3 Test Setup Diagram



7.5.4 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.

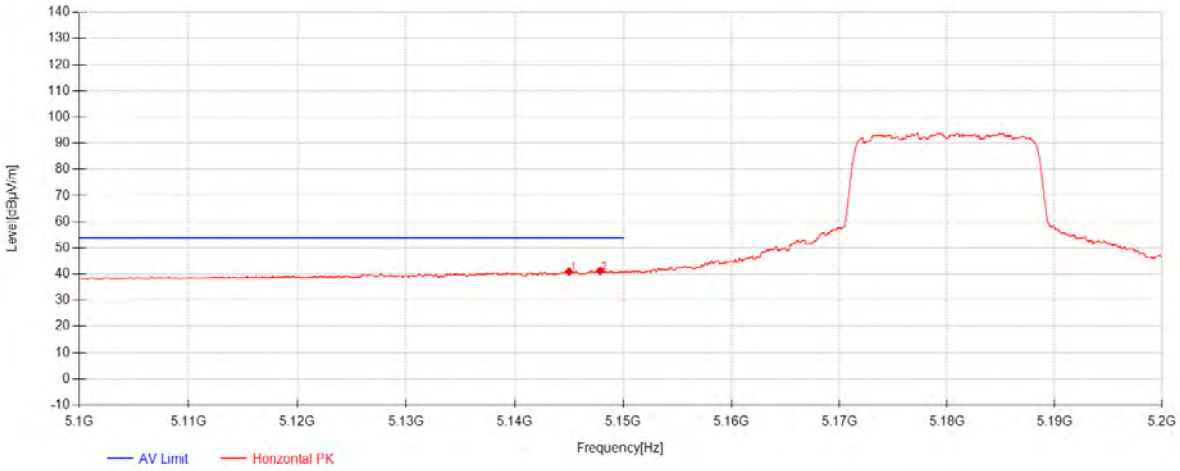
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

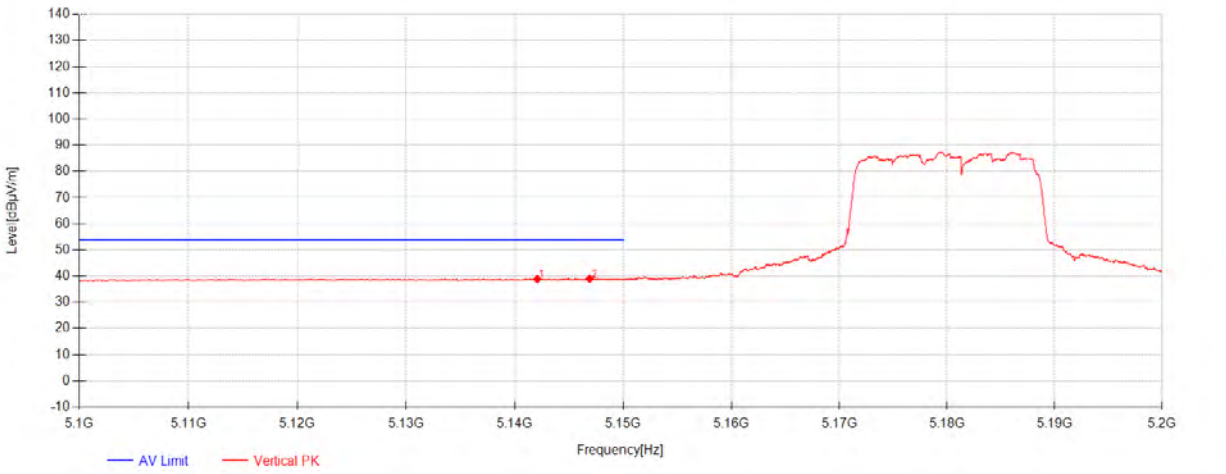
Remark2: Average Measurements Above 1000MHz， VBW = 10 Hz(when duty cycle is no less than 98 percent).VBW $\geqslant$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

802.11a_Channel 36



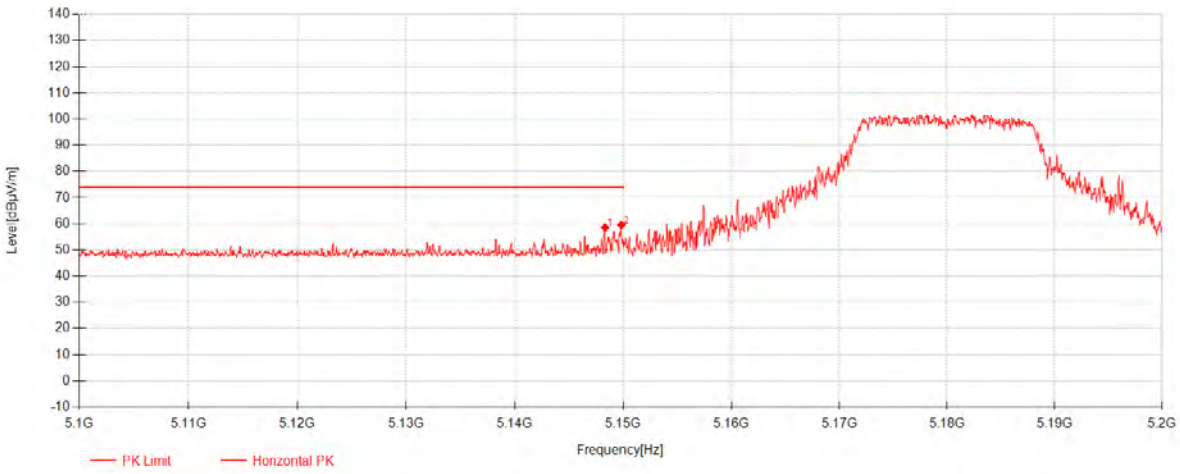
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5145	28.44	31.66	-19.15	40.95	54.00	13.05	Horizontal
2	5147.8667	28.74	31.67	-19.15	41.26	54.00	12.74	Horizontal

802.11a_Channel 36



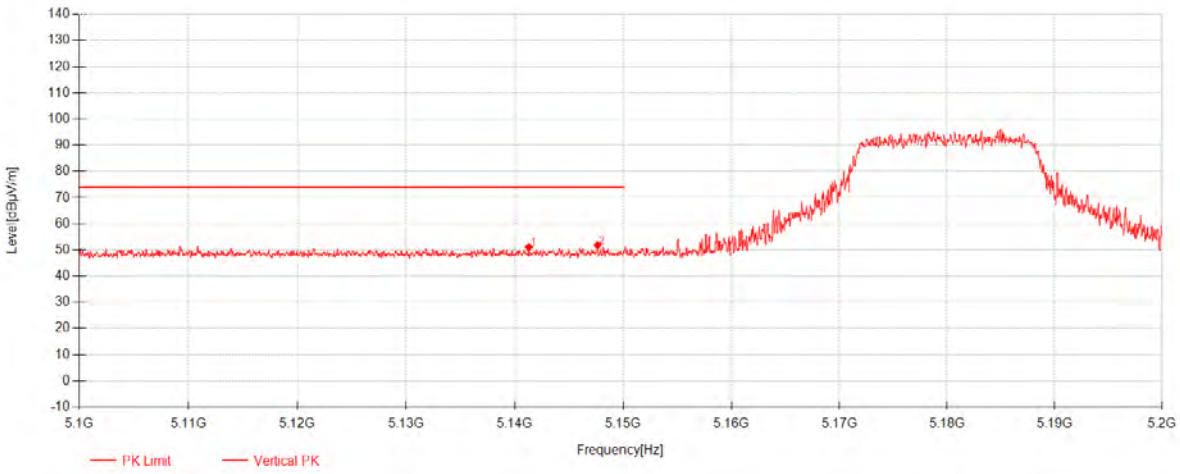
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5142.0667	26.35	31.66	-19.16	38.85	54.00	15.15	Vertical
2	5146.9	26.47	31.66	-19.15	38.99	54.00	15.01	Vertical

802.11a_Channel 36



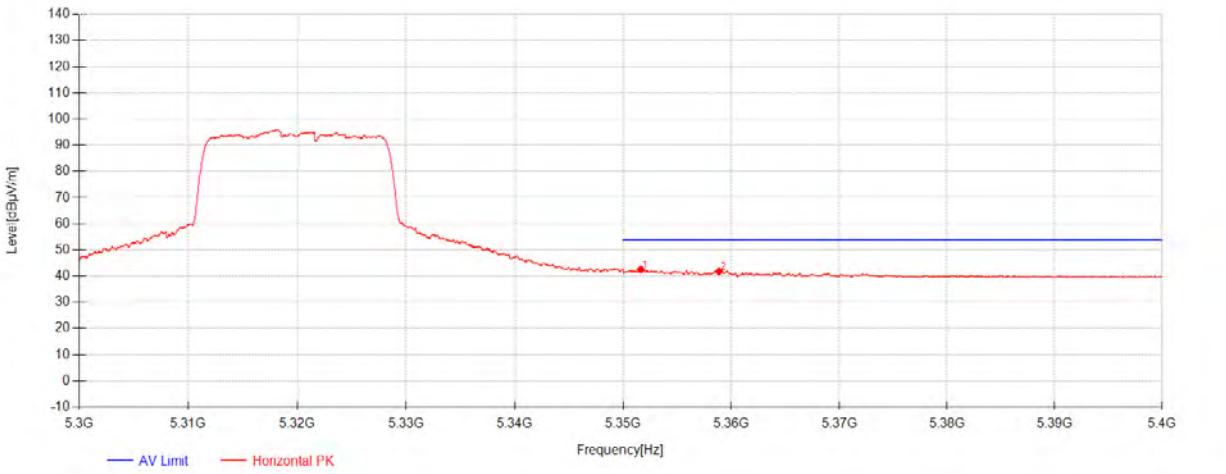
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5148.3333	46.05	31.67	-19.14	58.57	74.00	15.43	Horizontal
2	5149.8333	47.02	31.67	-19.14	59.55	74.00	14.45	Horizontal

802.11a_Channel 36



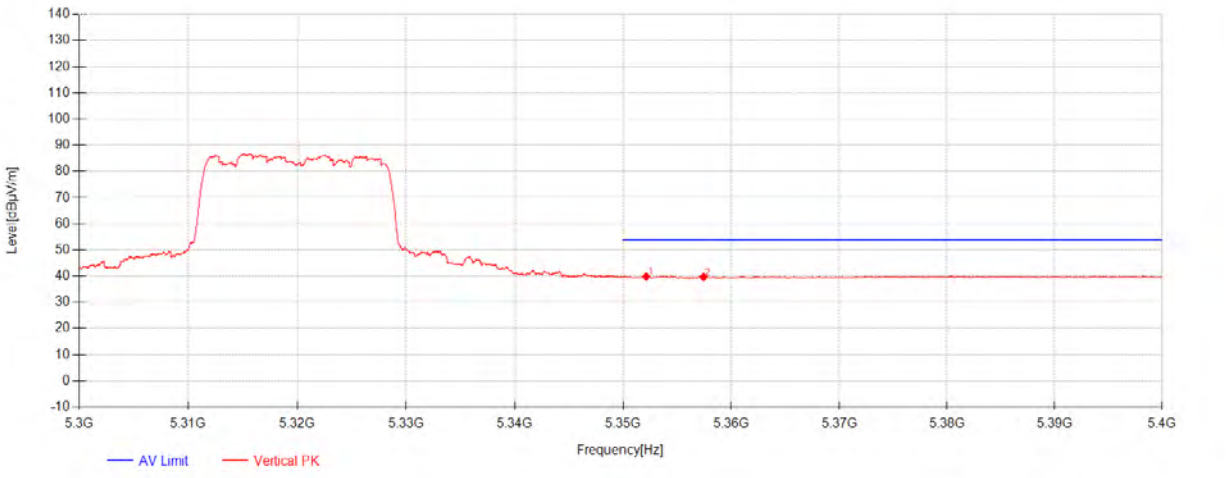
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5141.3	38.62	31.65	-19.16	51.11	74.00	22.89	Vertical
2	5147.6333	39.32	31.67	-19.15	51.84	74.00	22.16	Vertical

802.11a_Channel 64



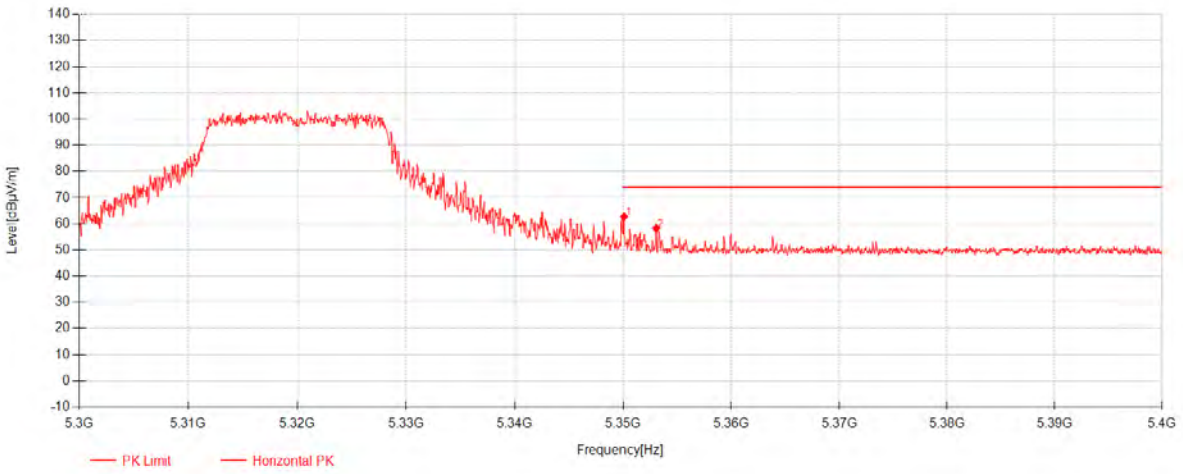
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.6333	29.49	32.03	-18.90	42.62	54.00	11.38	Horizontal
2	5358.8667	28.68	32.05	-18.92	41.80	54.00	12.20	Horizontal

802.11a_Channel 64



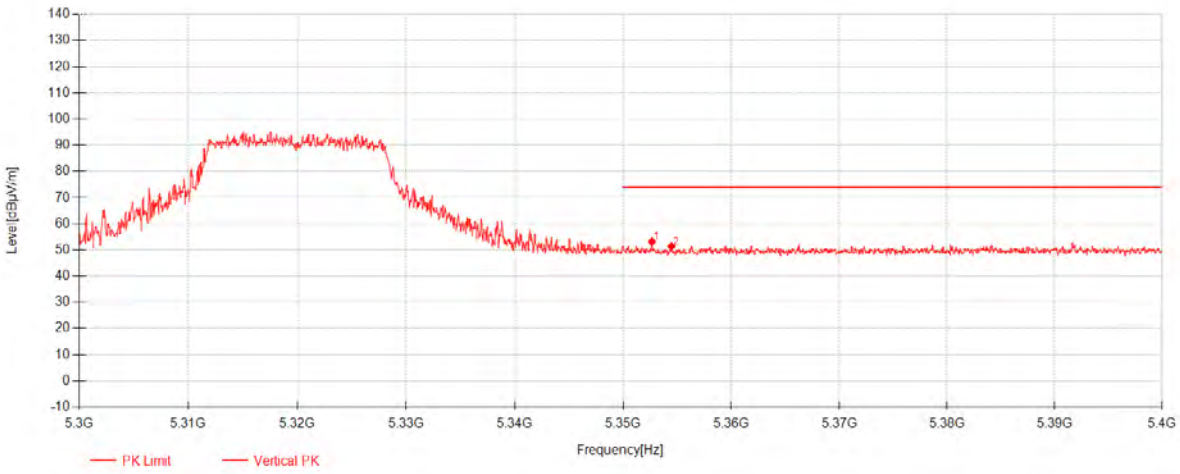
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5352.1333	26.69	32.03	-18.91	39.82	54.00	14.18	Vertical
2	5357.4333	26.53	32.04	-18.92	39.66	54.00	14.34	Vertical

802.11a_Channel 64



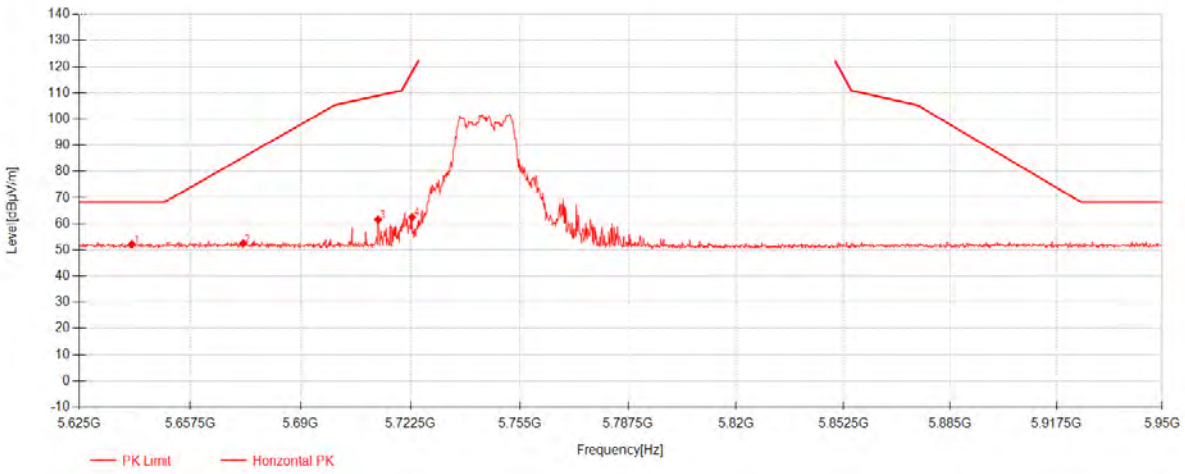
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5350.1	49.65	32.03	-18.90	62.78	74.00	11.22	Horizontal
2	5353.0667	45.12	32.04	-18.91	58.25	74.00	15.75	Horizontal

802.11a_Channel 64



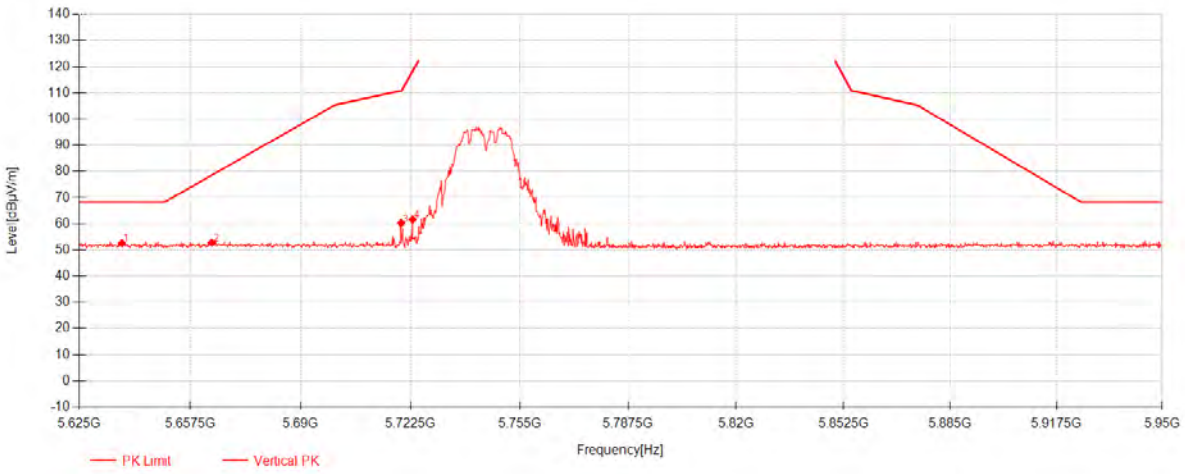
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5352.6667	40.13	32.03	-18.91	53.26	74.00	20.74	Vertical
2	5354.4667	38.29	32.04	-18.91	51.42	74.00	22.58	Vertical

802.11a_Channel 149



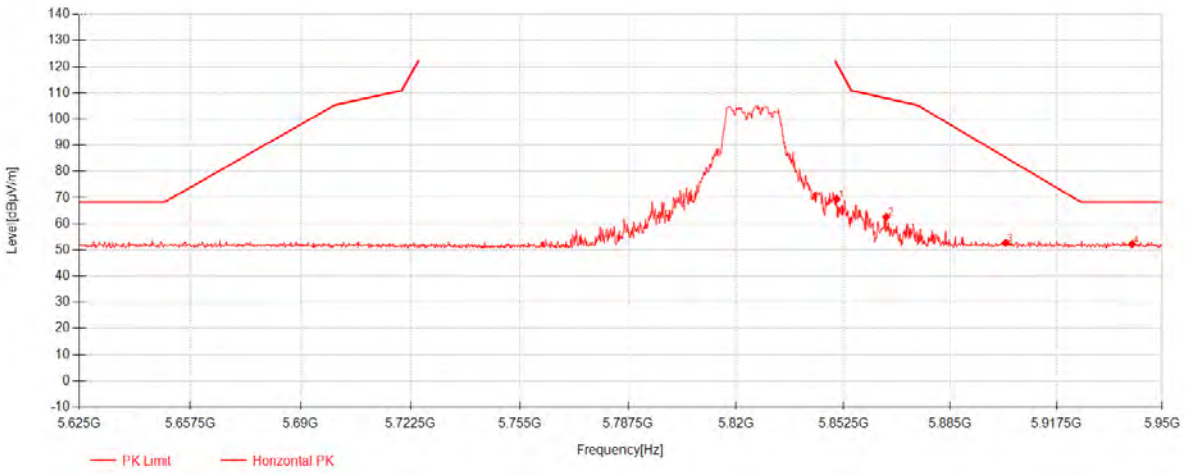
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5640.4375	38.60	32.33	-18.72	52.20	68.30	16.10	Horizontal
2	5673.1	38.92	32.33	-18.73	52.53	85.43	32.90	Horizontal
3	5712.9125	48.03	32.34	-18.77	61.60	108.92	47.32	Horizontal
4	5722.9875	48.96	32.34	-18.80	62.51	117.71	55.20	Horizontal

802.11a_Channel 149



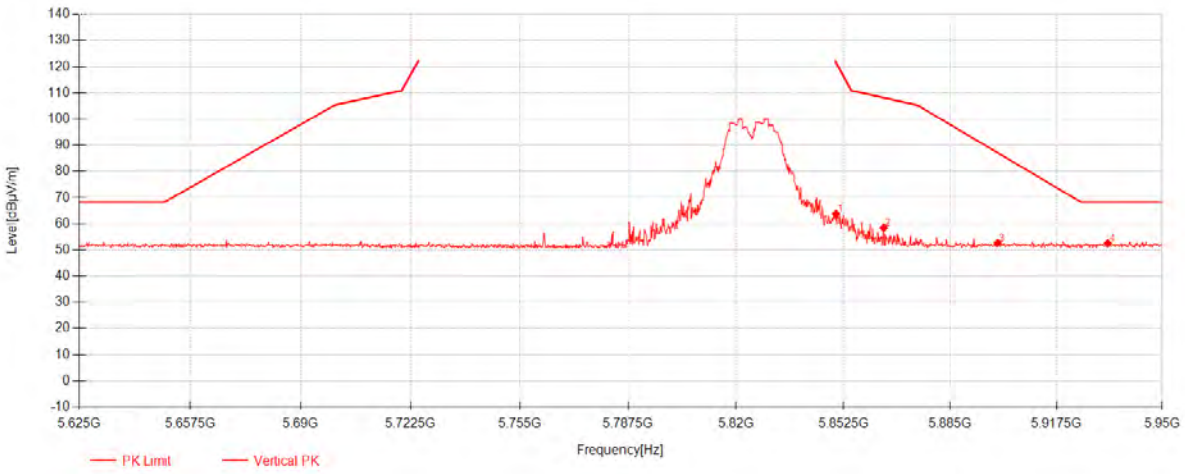
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5637.5125	39.03	32.33	-18.72	52.63	68.30	15.67	Vertical
2	5663.8375	39.23	32.33	-18.73	52.84	78.57	25.73	Vertical
3	5719.7375	46.68	32.34	-18.79	60.23	110.83	50.60	Vertical
4	5723.15	48.08	32.34	-18.80	61.63	118.08	56.45	Vertical

802.11a_Channel 165



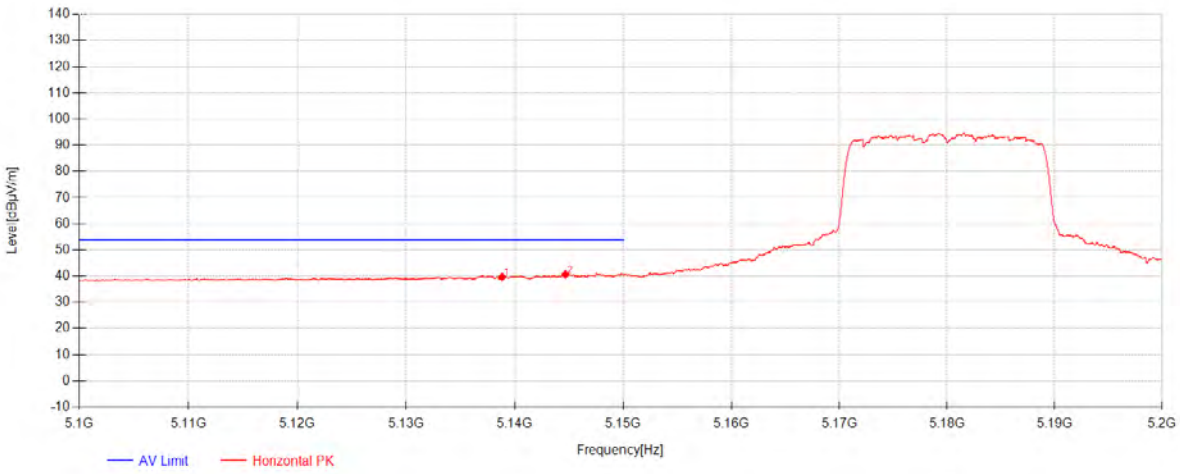
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5850.3875	55.93	32.37	-18.88	69.42	121.42	52.00	Horizontal
2	5865.5	49.10	32.37	-18.84	62.63	107.96	45.33	Horizontal
3	5901.9	39.08	32.38	-18.74	52.72	85.36	32.64	Horizontal
4	5940.7375	38.68	32.39	-18.83	52.24	68.30	16.06	Horizontal

802.11a_Channel 165



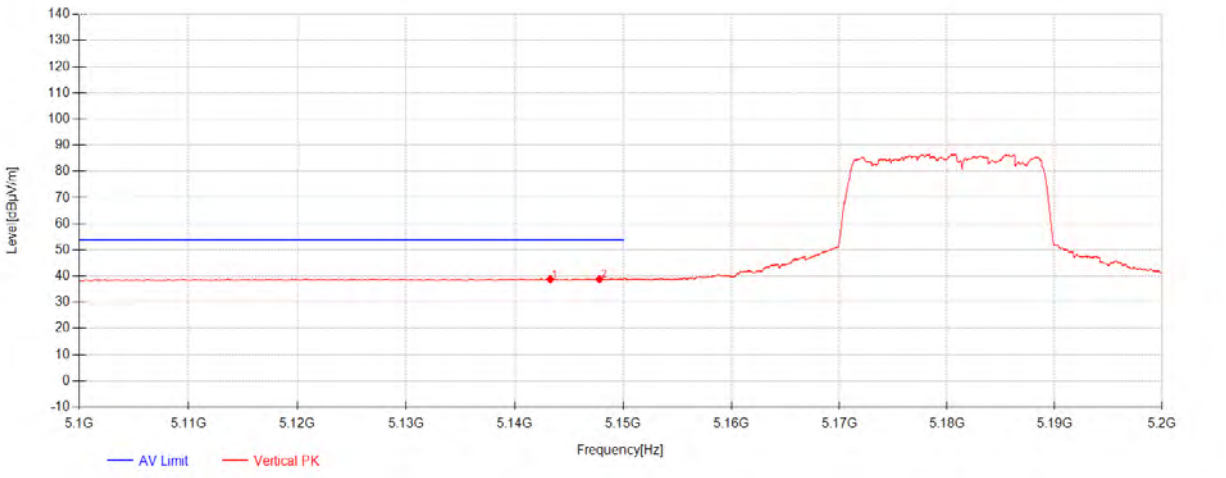
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5850.225	50.36	32.37	-18.88	63.85	121.79	57.94	Vertical
2	5864.6875	44.86	32.37	-18.84	58.39	108.19	49.80	Vertical
3	5899.4625	39.10	32.38	-18.74	52.74	87.16	34.42	Vertical
4	5933.2625	39.00	32.39	-18.81	52.58	68.30	15.72	Vertical

802.11ac20_Channel 36



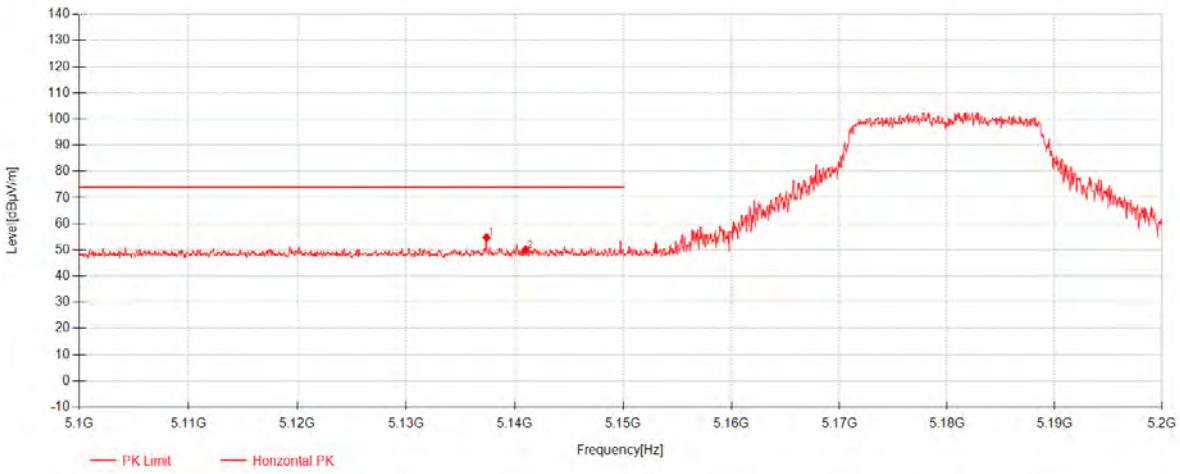
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5138.8333	27.21	31.65	-19.17	39.69	54.00	14.31	Horizontal
2	5144.6667	28.11	31.66	-19.15	40.62	54.00	13.38	Horizontal

802.11ac20_Channel 36



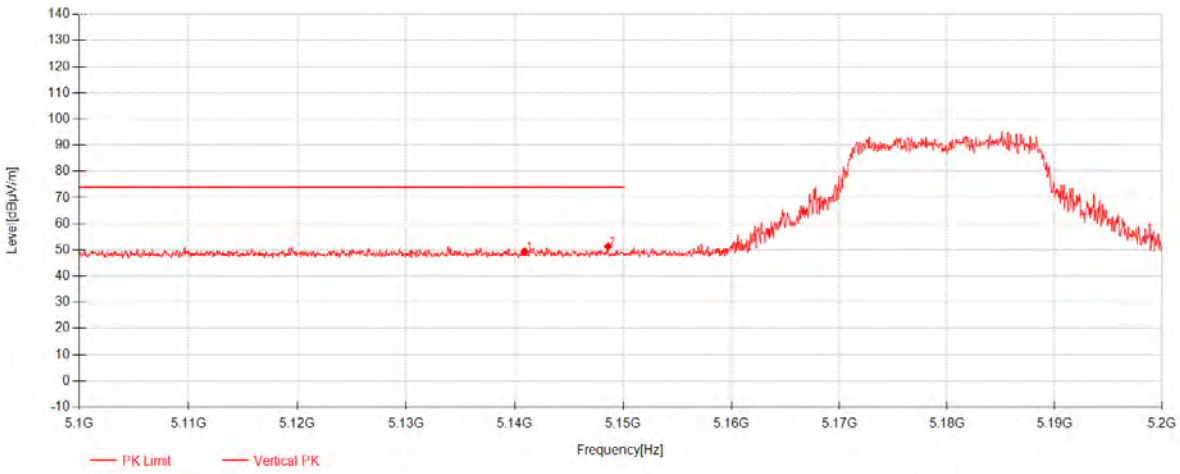
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.2667	26.26	31.66	-19.16	38.76	54.00	15.24	Vertical
2	5147.8	26.27	31.67	-19.15	38.79	54.00	15.21	Vertical

802.11ac20_Channel 36



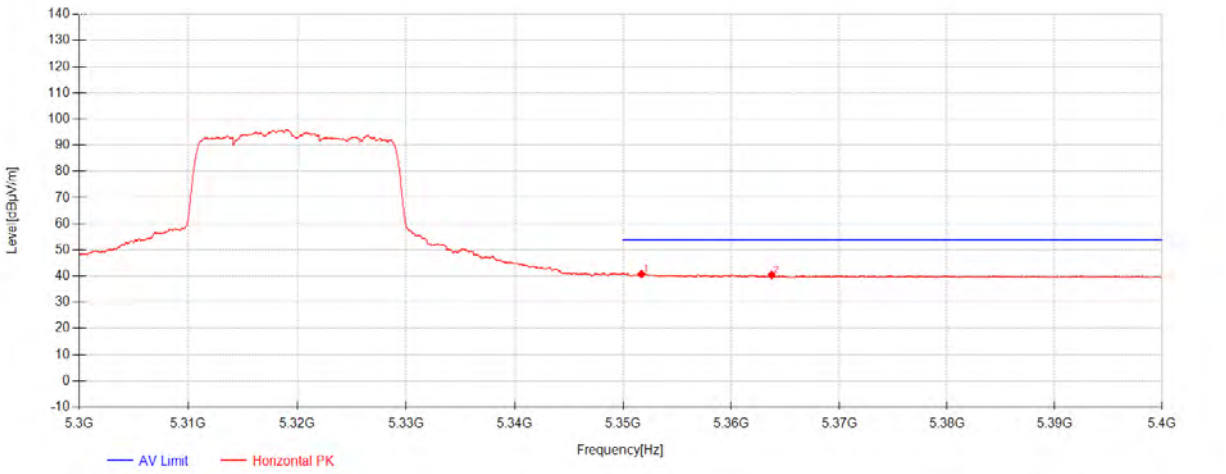
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5137.4	42.35	31.65	-19.17	54.83	74.00	19.17	Horizontal
2	5141	37.58	31.65	-19.16	50.07	74.00	23.93	Horizontal

802.11ac20_Channel 36



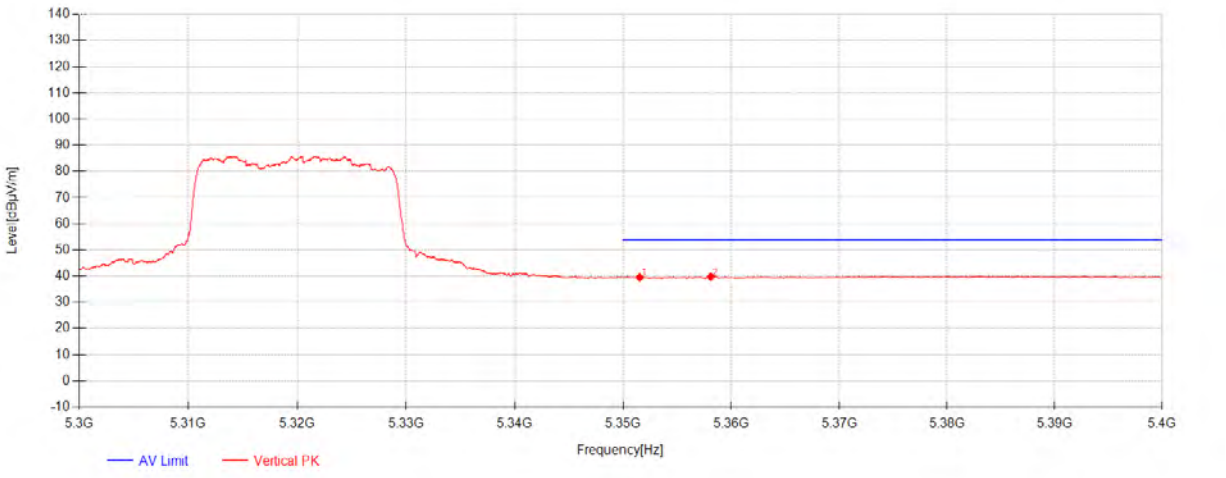
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5140.9	36.93	31.65	-19.16	49.42	74.00	24.58	Vertical
2	5148.6	38.84	31.67	-19.14	51.36	74.00	22.64	Vertical

802.11ac20_Channel 64



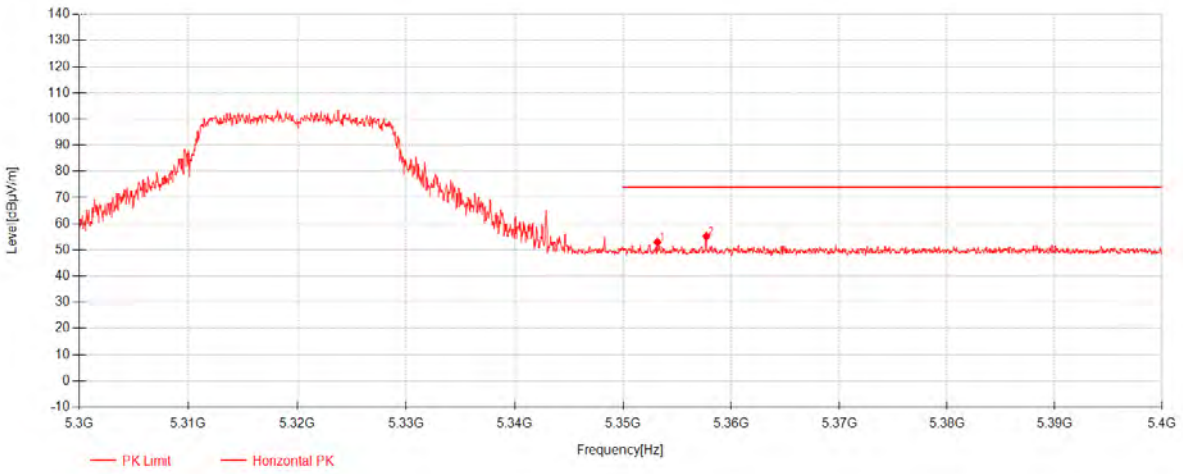
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.7	27.63	32.03	-18.90	40.76	54.00	13.24	Horizontal
2	5363.7333	27.28	32.05	-18.93	40.40	54.00	13.60	Horizontal

802.11ac20_Channel 64



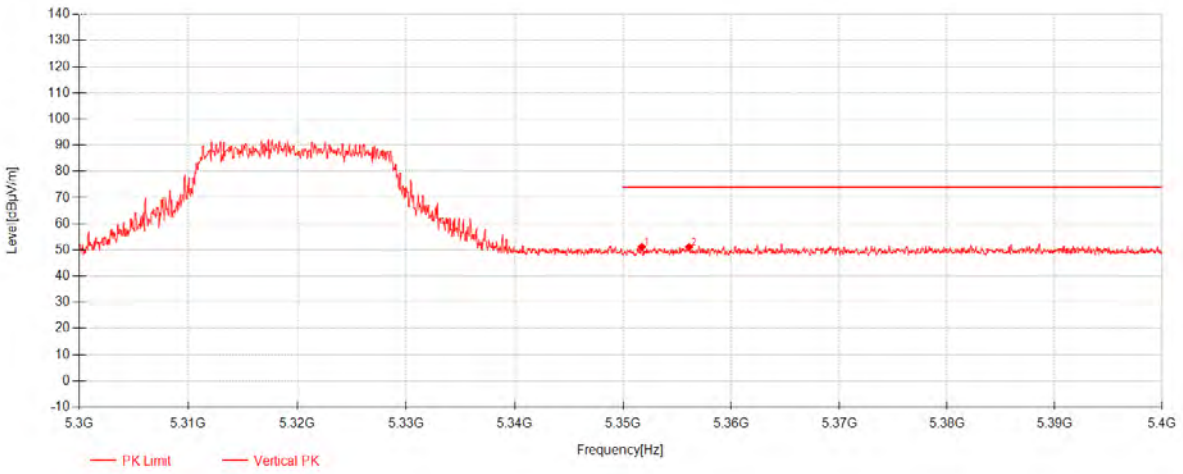
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.5333	26.41	32.03	-18.90	39.54	54.00	14.46	Vertical
2	5358.1	26.60	32.04	-18.92	39.73	54.00	14.27	Vertical

802.11ac20_Channel 64



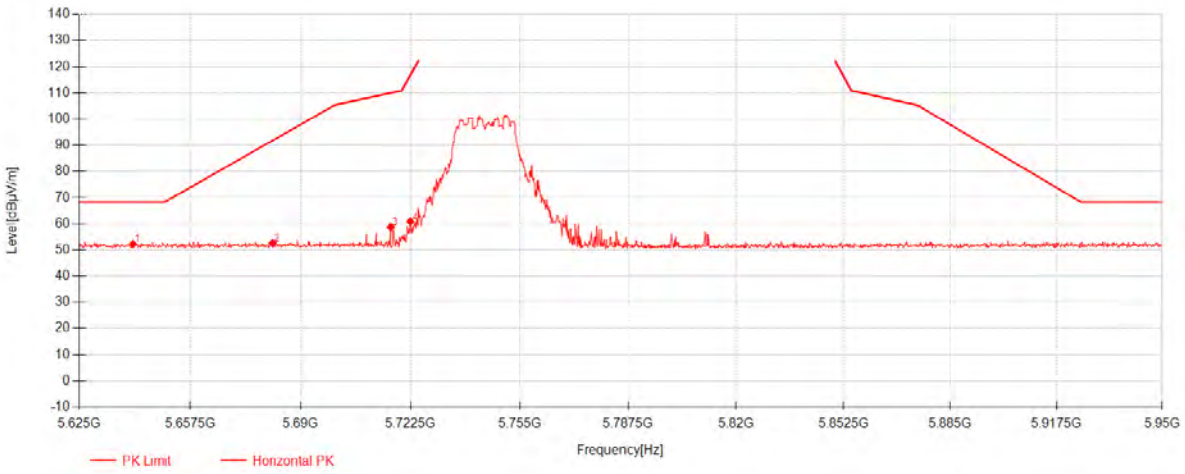
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5353.1667	39.95	32.04	-18.91	53.08	74.00	20.92	Horizontal
2	5357.7	42.14	32.04	-18.92	55.27	74.00	18.73	Horizontal

802.11ac20_Channel 64



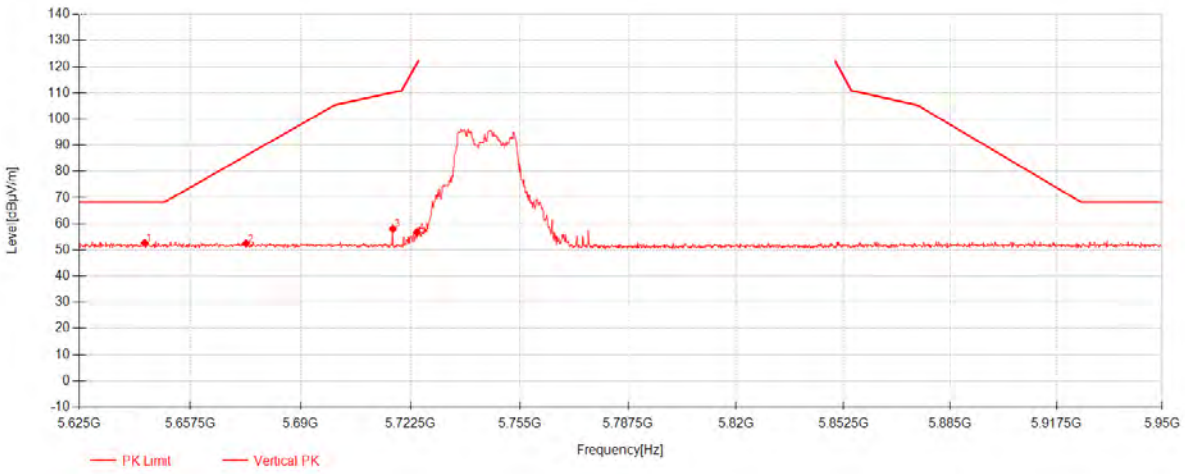
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5351.7333	38.08	32.03	-18.90	51.21	74.00	22.79	Vertical
2	5356.1	37.99	32.04	-18.91	51.12	74.00	22.88	Vertical

802.11ac20_Channel 149



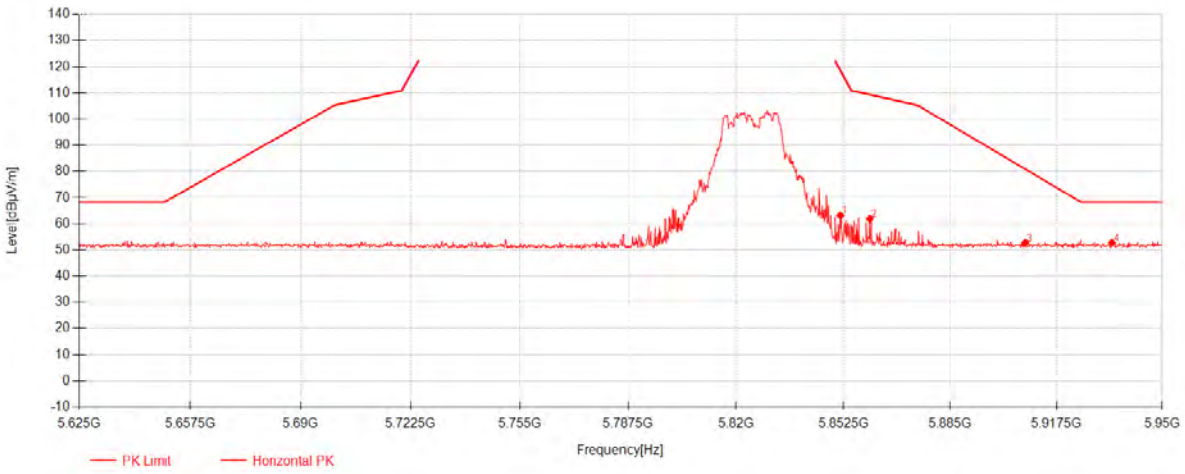
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5640.7625	38.67	32.33	-18.72	52.27	68.30	16.03	Horizontal
2	5681.7125	39.03	32.34	-18.73	52.64	91.81	39.17	Horizontal
3	5716.65	45.19	32.34	-18.78	58.75	109.96	51.21	Horizontal
4	5722.5	47.30	32.34	-18.80	60.85	116.60	55.75	Horizontal

802.11ac20_Channel 149



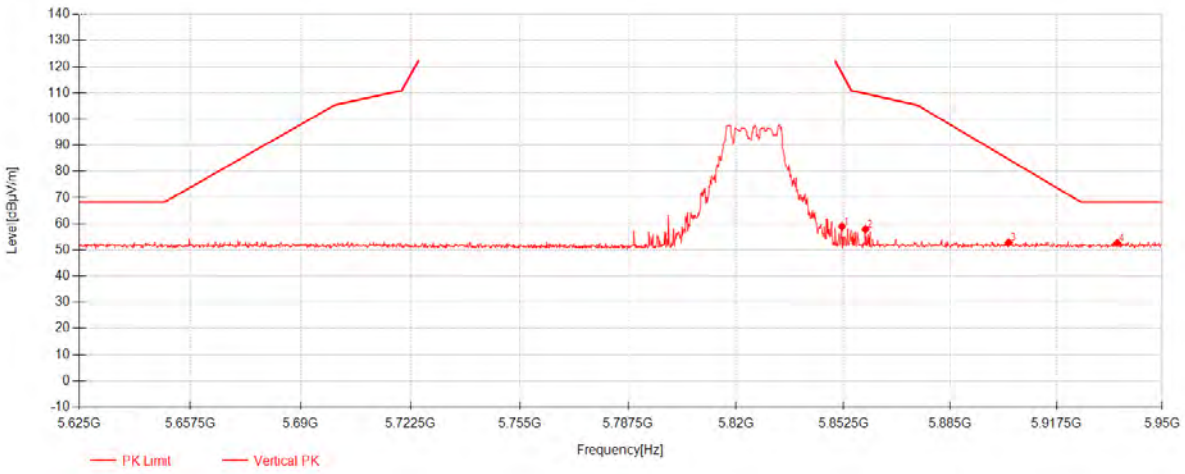
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5644.175	39.13	32.33	-18.72	52.73	68.30	15.57	Vertical
2	5673.9125	38.90	32.33	-18.73	52.51	86.04	33.53	Vertical
3	5717.3	44.47	32.34	-18.78	58.03	110.15	52.12	Vertical
4	5724.45	43.27	32.34	-18.80	56.81	121.05	64.24	Vertical

802.11ac20_Channel 165



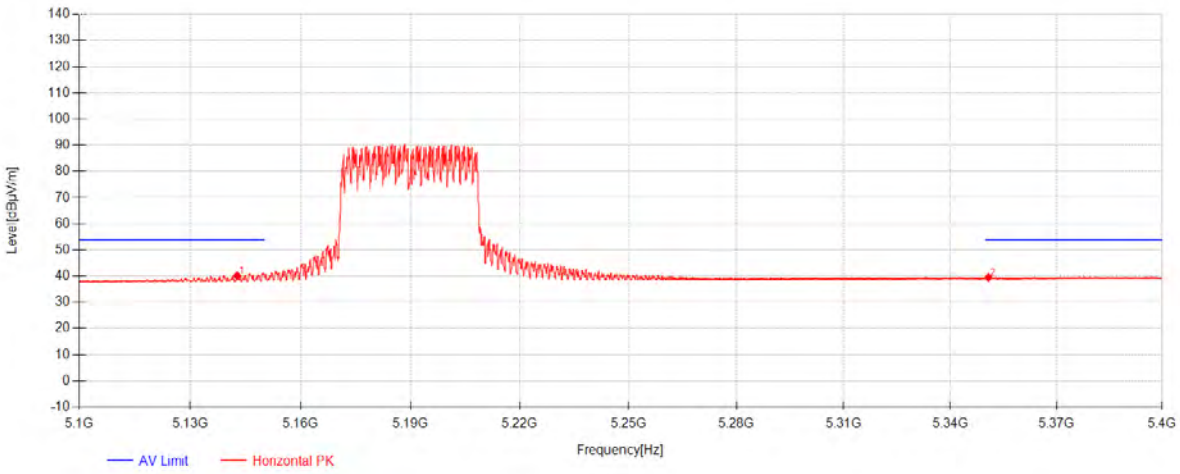
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5851.525	49.77	32.37	-18.88	63.26	118.82	55.56	Horizontal
2	5860.4625	48.36	32.37	-18.85	61.88	109.37	47.49	Horizontal
3	5907.9125	39.19	32.38	-18.76	52.81	80.91	28.10	Horizontal
4	5934.5625	39.25	32.39	-18.81	52.82	68.30	15.48	Horizontal

802.11ac20_Channel 165



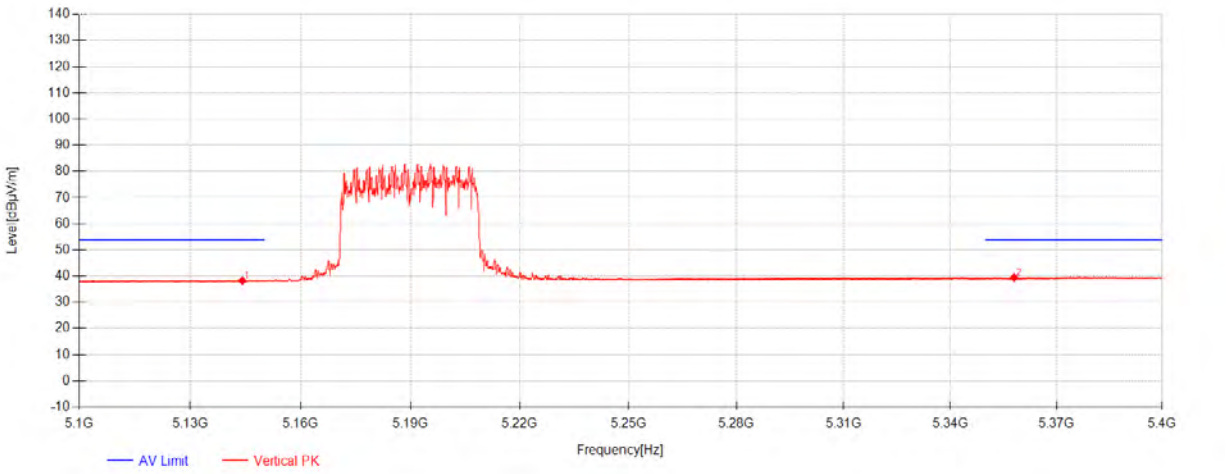
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5852.0125	45.46	32.37	-18.88	58.95	117.71	58.76	Vertical
2	5859.1625	44.39	32.37	-18.86	57.90	109.73	51.83	Vertical
3	5902.875	39.27	32.38	-18.75	52.90	84.63	31.73	Vertical
4	5936.1875	39.16	32.39	-18.82	52.73	68.30	15.57	Vertical

802.11ac40_Channel 38



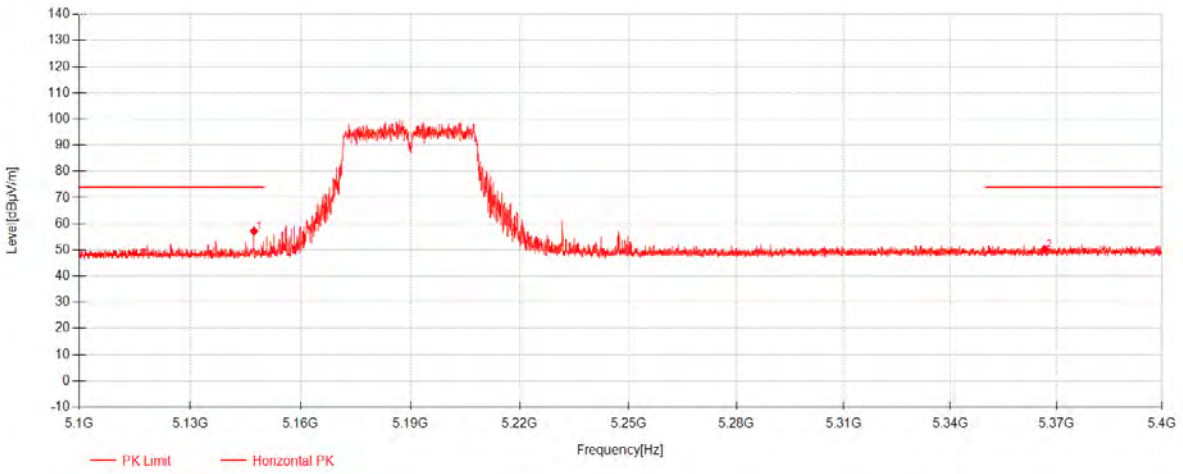
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5142.72	27.67	31.66	-19.16	40.17	54.00	13.83	Horizontal
2	5350.755	26.37	32.03	-18.90	39.50	54.00	14.50	Horizontal

802.11ac40_Channel 38



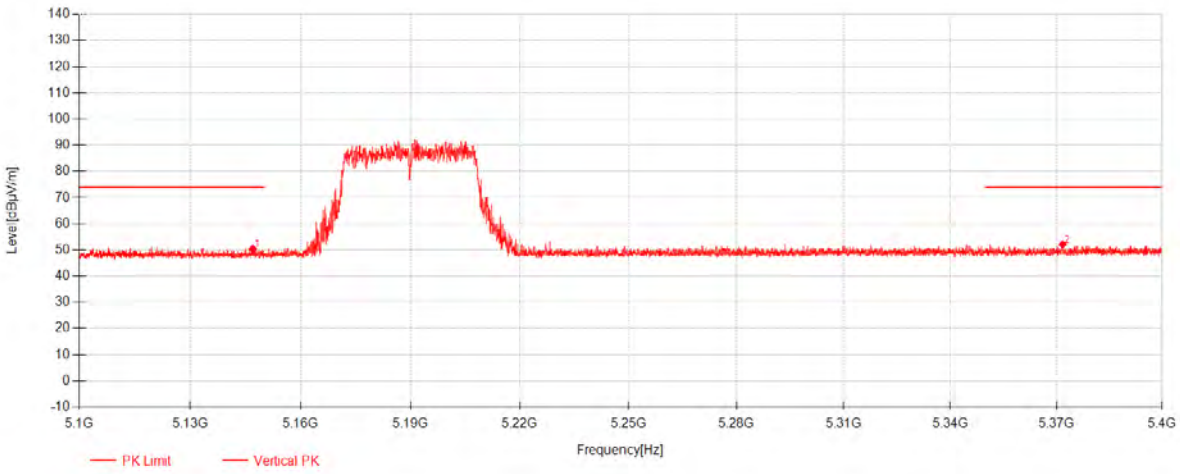
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5144.16	25.77	31.66	-19.15	38.28	54.00	15.72	Vertical
2	5358	26.32	32.04	-18.92	39.45	54.00	14.55	Vertical

802.11ac40_Channel 38



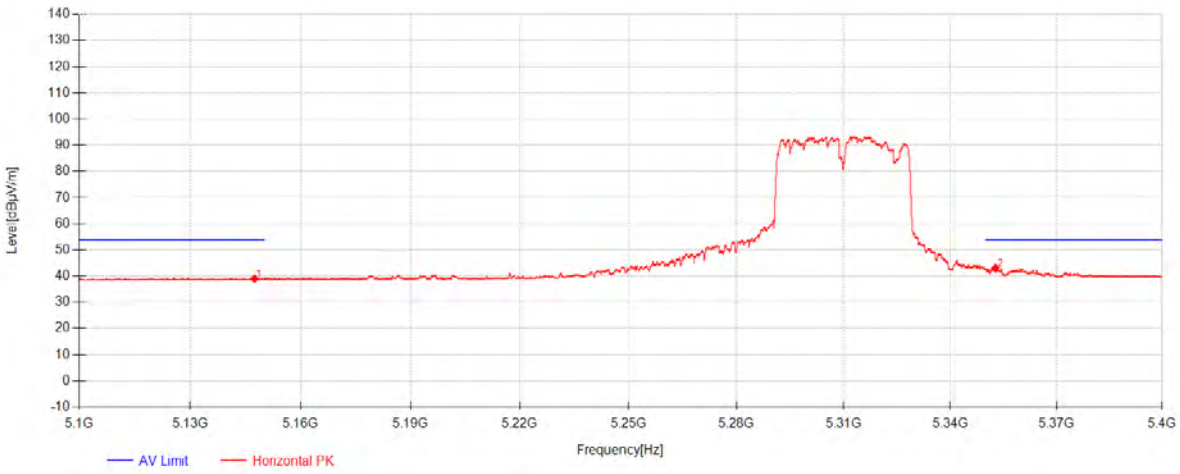
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5147.32	44.68	31.67	-19.15	57.20	74.00	16.80	Horizontal
2	5366.6275	37.23	32.06	-18.94	50.35	74.00	23.65	Horizontal

802.11ac40_Channel 38



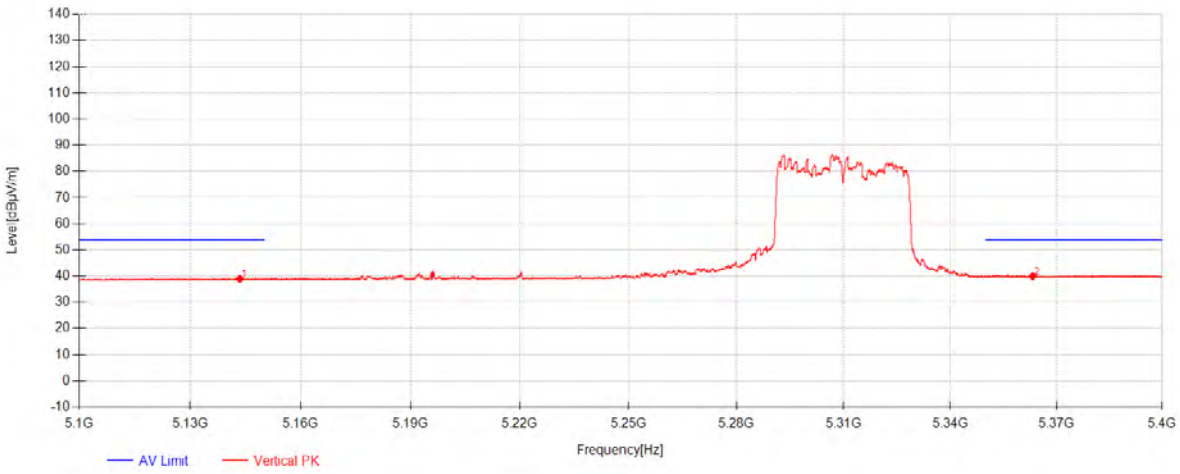
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5146.98	37.89	31.66	-19.15	50.41	74.00	23.59	Vertical
2	5371.72	39.00	32.07	-18.95	52.12	74.00	21.88	Vertical

802.11ac40_Channel 62



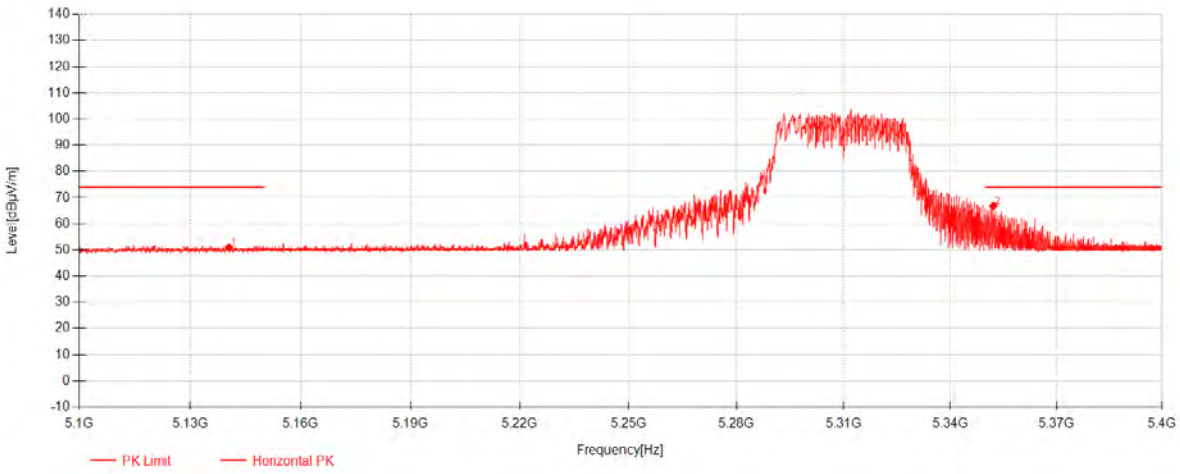
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5147.45	26.51	31.67	-19.15	39.03	54.00	14.97	Horizontal
2	5352.725	30.03	32.03	-18.91	43.16	54.00	10.84	Horizontal

802.11ac40_Channel 62



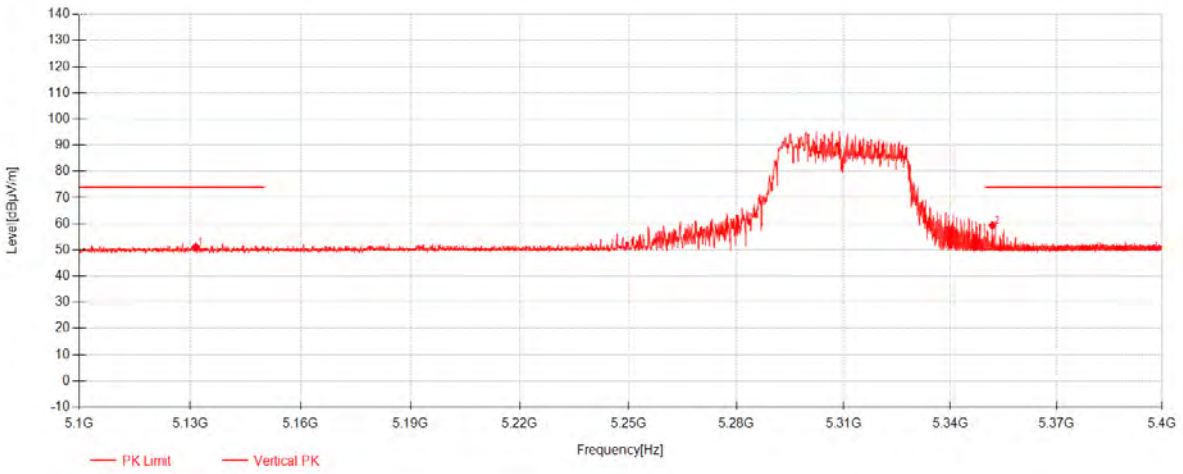
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5143.45	26.46	31.66	-19.16	38.96	54.00	15.04	Vertical
2	5363.225	26.86	32.05	-18.93	39.98	54.00	14.02	Vertical

802.11ac40_Channel 62



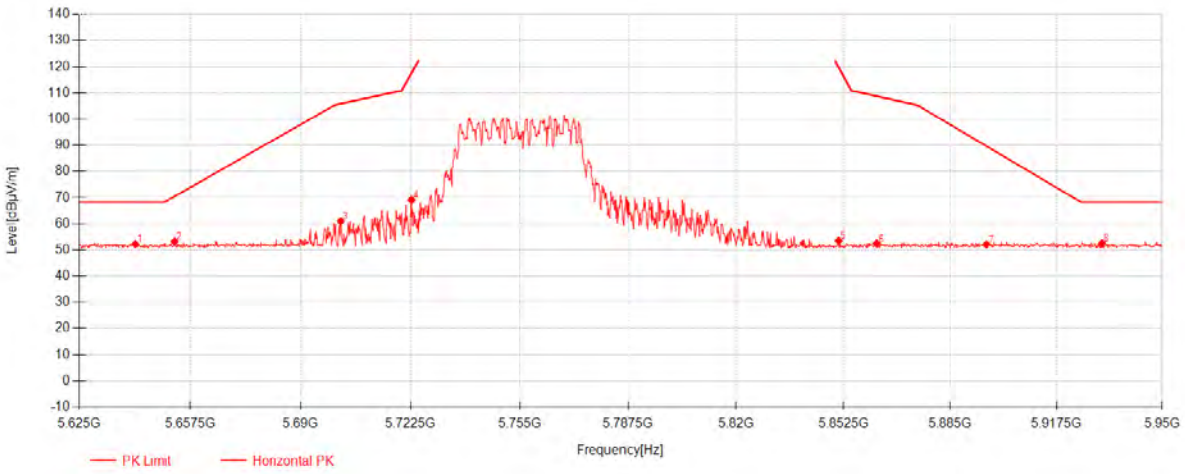
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5140.5333	38.58	31.65	-19.16	51.07	74.00	22.93	Horizontal
2	5352.1375	53.67	32.03	-18.91	66.80	74.00	7.20	Horizontal

802.11ac40_Channel 62



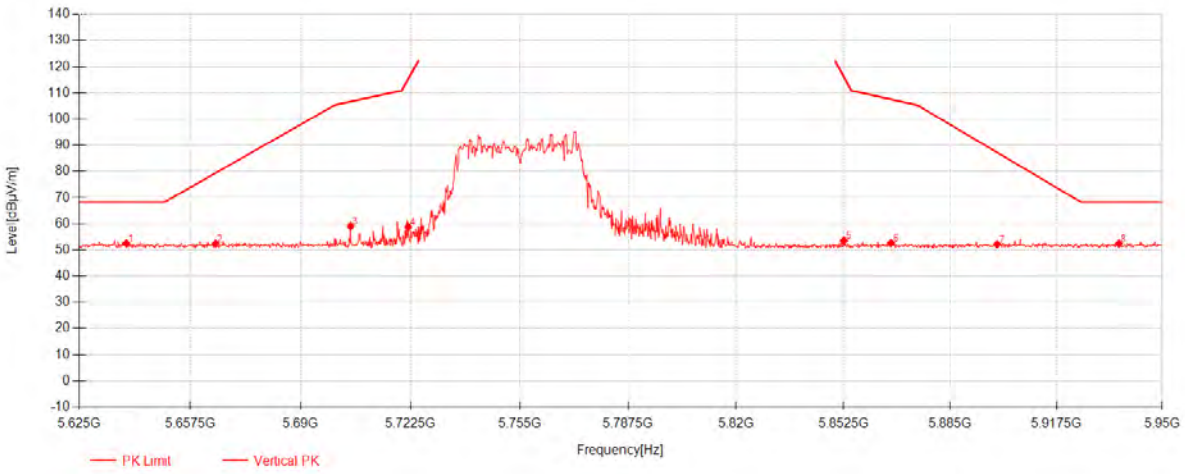
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5131.5333	38.79	31.64	-19.18	51.24	74.00	22.76	Vertical
2	5351.8625	46.19	32.03	-18.90	59.32	74.00	14.68	Vertical

802.11ac40_Channel 151



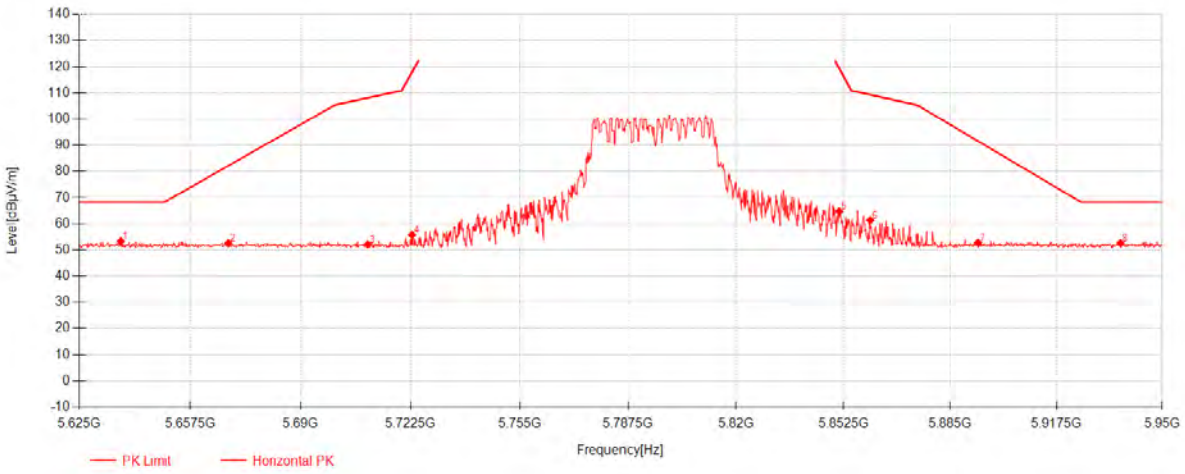
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5641.4125	38.65	32.33	-18.72	52.25	68.30	16.05	Horizontal
2	5652.95	39.64	32.33	-18.73	53.25	70.49	17.24	Horizontal
3	5701.8625	47.35	32.34	-18.74	60.95	105.82	44.87	Horizontal
4	5722.825	55.55	32.34	-18.80	69.10	117.34	48.24	Horizontal
5	5851.0375	40.05	32.37	-18.88	53.54	119.93	66.39	Horizontal
6	5862.575	39.04	32.37	-18.85	52.56	108.78	56.22	Horizontal
7	5896.05	38.50	32.38	-18.75	52.13	89.68	37.55	Horizontal
8	5931.475	39.02	32.39	-18.81	52.60	68.30	15.70	Horizontal

802.11ac40_Channel 151



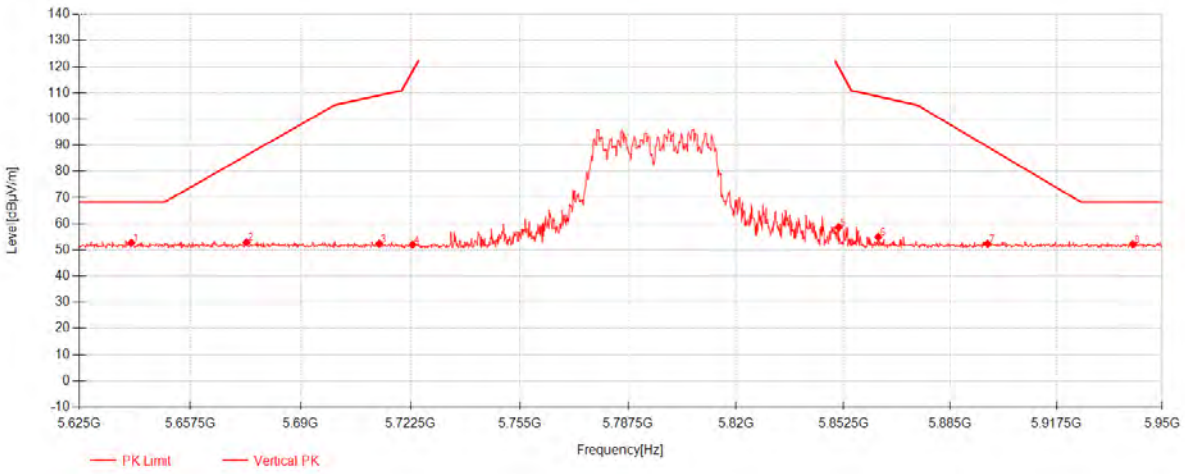
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	5638.8125	38.95	32.33	-18.72	52.55	68.30	15.75	Vertical
2	5664.975	38.87	32.33	-18.73	52.48	79.42	26.94	Vertical
3	5704.7875	45.44	32.34	-18.74	59.04	106.64	47.60	Vertical
4	5721.85	45.29	32.34	-18.80	58.84	115.12	56.28	Vertical
5	5852.6625	40.14	32.37	-18.88	53.63	116.23	62.60	Vertical
6	5866.9625	39.18	32.37	-18.84	52.72	107.55	54.83	Vertical
7	5899.3	38.51	32.38	-18.74	52.15	87.28	35.13	Vertical
8	5936.675	38.87	32.39	-18.82	52.44	68.30	15.86	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	5637.1875	39.74	32.33	-18.72	53.34	68.30	14.96	Horizontal
2	5668.7125	38.97	32.33	-18.73	52.58	82.19	29.61	Horizontal
3	5709.825	38.55	32.34	-18.76	52.13	108.05	55.92	Horizontal
4	5722.9875	42.26	32.34	-18.80	55.81	117.71	61.90	Horizontal
5	5851.2	51.27	32.37	-18.88	64.76	119.56	54.80	Horizontal
6	5860.625	47.79	32.37	-18.85	61.31	109.32	48.01	Horizontal
7	5893.45	39.18	32.38	-18.76	52.80	91.61	38.81	Horizontal
8	5937.1625	39.09	32.39	-18.82	52.66	68.30	15.64	Horizontal

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	5640.275	39.20	32.33	-18.72	52.80	68.30	15.50	Vertical
2	5674.075	39.33	32.33	-18.73	52.94	86.16	33.22	Vertical
3	5713.2375	38.85	32.34	-18.77	52.42	109.01	56.59	Vertical
4	5723.15	38.53	32.34	-18.80	52.08	118.08	66.00	Vertical
5	5851.0375	45.14	32.37	-18.88	58.63	119.93	61.30	Vertical
6	5863.0625	41.46	32.37	-18.85	54.99	108.64	53.65	Vertical
7	5896.375	38.77	32.38	-18.75	52.40	89.44	37.04	Vertical
8	5940.9	38.66	32.39	-18.83	52.22	68.30	16.08	Vertical