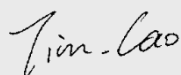


Test report No:
2580412R.703B

FCC TEST REPORT

Product Name	Smart Camera
Trademark	N/A
Model and /or type reference	SC296-WBD4, SC296-WBD4A, SC296-WBD4B, SC296-WBD4C, SC296-WBD4D, SC296-WBD4E, SC296-WBD4F, SC296-WBD4G
FCC ID	2BEWXSC296
Applicant's name / address	Zhejiang Lingzhu Technology Co., Ltd. Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.407) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2025-09-12
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Aug. 14, 2025
Date (start test)	Aug. 17, 2025
Date (finish test)	Sep.11, 2025
Note: Radiated Emission and Radiated Emission Band Edge were completed at Test Location B, and other tests were completed at Test Location A.	

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2580412R.703B	V1.0	Initial issue of report.	2025-09-12

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.407).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1 General Information.

USED EQUIPMENT

Test Location A :Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2025.06.11	2026.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2025.06.11	2026.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2025.03.15	2026.03.14	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2025.07.11	2026.07.10	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2024.10.26	2025.10.25	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2025.03.23	2026.03.22	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2025.03.23	2026.03.22	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2025.07.06	2026.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test Location A :AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100726	2025.05.18	2026.05.17	4.42 SP1	N/A
Two-Line V-Network	R&S	ENV 216	101044	2024.10.26	2025.10.25	N/A	N/A
Two-Line V-Network	R&S	ENV 216	101189	2025.05.10	2026.05.09	N/A	N/A
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2025.03.16	2026.03.15	N/A	N/A
Coaxial Cable	Huber+Suhner	RG 223	TR1-C1	2025.03.16	2026.03.15	N/A	N/A
Impedance Stabilization Network	Teseq GmbH	ISN T800	57318	2025.02.25	2026.02.24	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	EMC01	2025.06.17	2026.06.16	N/A	N/A
Shielding room	Quietek	4.9m*4m*3m	TR1	2023.03.04	2028.03.03	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	N/A

Test Location A :Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP3	N/A
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2024.11.02	2025.11.01	A.31.05	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2025.04.16	2026.04.15	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2025.03.24	2026.03.23	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2025.06.17	2026.06.16	N/A	N/A
Coaxial Cable	Huber+Suhner	RTS-1909	THM-021	2025.04.30	2026.04.29	N/A	N/A
Anechoic chamber	Quietek	9m*6m*6m	AC2	2024.07.07	2029.07.06	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test Location A: Radiated Emission (1GHz-40GHz) / AC6

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Signal analyzer	Agilent	N9020A	MY49100159	2025.05.10	2026.05.09	A 08.54	N/A
Power Amplifier	MVE	MPC1018.50	C30002D	2025.05.17	2026.05.16	N/A	N/A
DRG Horn Antenna	RFSPIN	DRH18-E	CE2C07A18EN	2024.12.07	2025.12.06	N/A	N/A
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	750	2024.11.24	2025.11.23	N/A	N/A
Pre-Amplifier	Schwarzbeck	BBV 9721	00114	2025.05.17	2026.05.16	N/A	N/A
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9168	1231	2025.05.28	2026.05.27	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF04	2025.06.17	2026.06.16	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.06.17	2026.06.16	N/A	N/A
Anechoic chamber	Quietek	9m*5.5m*5.5m	AC6	2024.06.30	2029.06.29	N/A	N/A
Test Software	Tonscend	JS36	JS36-RSE	N/A	N/A	N/A	5.0.0

Test Location B: Radiated Emission Band Edge / AC103

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
Signal analyzer	keysight	N9020B	MY63490118	2025.07.11	2026.07.10	A 08.54	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2024.11.23	2025.11.22	N/A	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2024.11.02	2025.11.01	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2024.10.28	2025.10.27	N/A	N/A
Amplifier	ESE	LNA0118	LNA23100009	2025.08.06	2026.08.05	N/A	N/A
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2024.11.16	2025.11.15	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2024.11.20	2025.11.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	026	2024.09.04	2025.09.03	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	026	2025.09.04	2026.09.03	N/A	N/A
Test Software	Tonscend	JS36	N/A	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	± 2.92 dB
Peak Power Output	± 1.13 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.60 dB 200MHz~1GHz: 4.10 dB Vertical: 30MHz~200MHz: 4.80 dB 200MHz~1GHz: 4.10 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~40GHz: 4.70 dB Vertical: 18GHz~40GHz: 4.60 dB
RF antenna conducted test	± 1.13 dB
Radiated Emission Band Edge	± 5.00 dB
DTS Bandwidth	± 279 Hz
Occupied Bandwidth	± 279 Hz
Power Density	± 1.13 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.86 dB 300MHz~1GHz: 4.86 dB Vertical: 30MHz~200MHz: 4.92 dB 300MHz~1GHz: 4.92 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.99 dB Vertical: 1GHz~18GHz: 5.76 dB Horizontal: 18GHz~40GHz: 5.99 dB Vertical: 18GHz~40GHz: 5.76 dB
Radiated Emission Band Edge	± 5.99 dB

1 GENERAL INFORMATION

Product Name	Smart Camera
Model No.	SC296-WBD4,SC296-WBD4A,SC296-WBD4B,SC296-WBD4C,SC296-WBD4D,SC296-WBD4E,SC296-WBD4F,SC296-WBD4G
Model difference.....	1.Changes in color and logo position; 2. Software version upgrades (e.g., only optimizing functions without changing the safety or electromagnetic compatibility characteristics of the product).
Trademark.....	N/A
Operation Temperature	-10~45 °C
Manufacturer	Zhejiang Lingzhu Technology Co., Ltd.
Manufacturer address.....	Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province,China
Power Supply	5 Vdc,2A (type C) 3.7Vdc (lithium-ion battery)
Test SN.....	Conducted: DGLGG08NC00046
	Radiated: DGLGG08NC0005E
Wireless specification	802.11a/n/ac/ax
Operating frequency range(s)	U-NII-1: 5150 MHz to 5250 MHz; U-NII-2A: 5250 MHz to 5350 MHz; U-NII-2C: 5470 MHz to 5725 MHz U-NII-3: 5725 MHz to 5850 MHz
Type of Modulation.....	OFDM / OFDMA
DFS Function:	Slave without radar detection
TPC Function:	Not Support
Antenna Type.....	Dipole
Antenna Gain	0.45 dBi

Remark:

1.The test sample model is SC296-WBD4

2.As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2 DESCRIPTION OF TEST SETUP

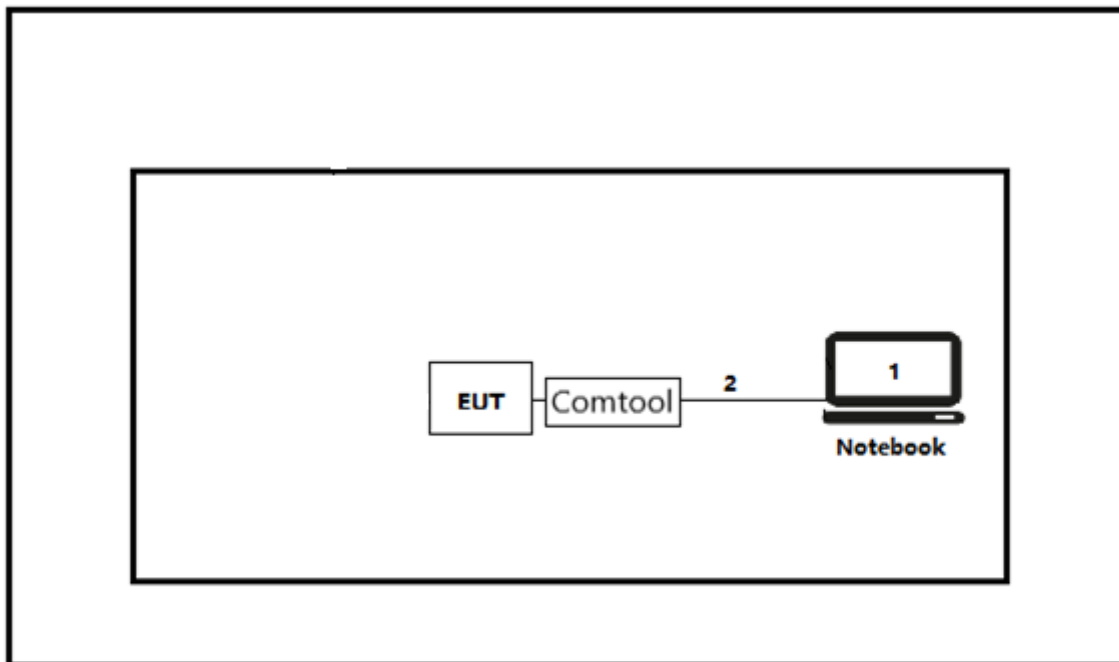
2.1 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
Putty	V1.1.5.0	N/A	N/A

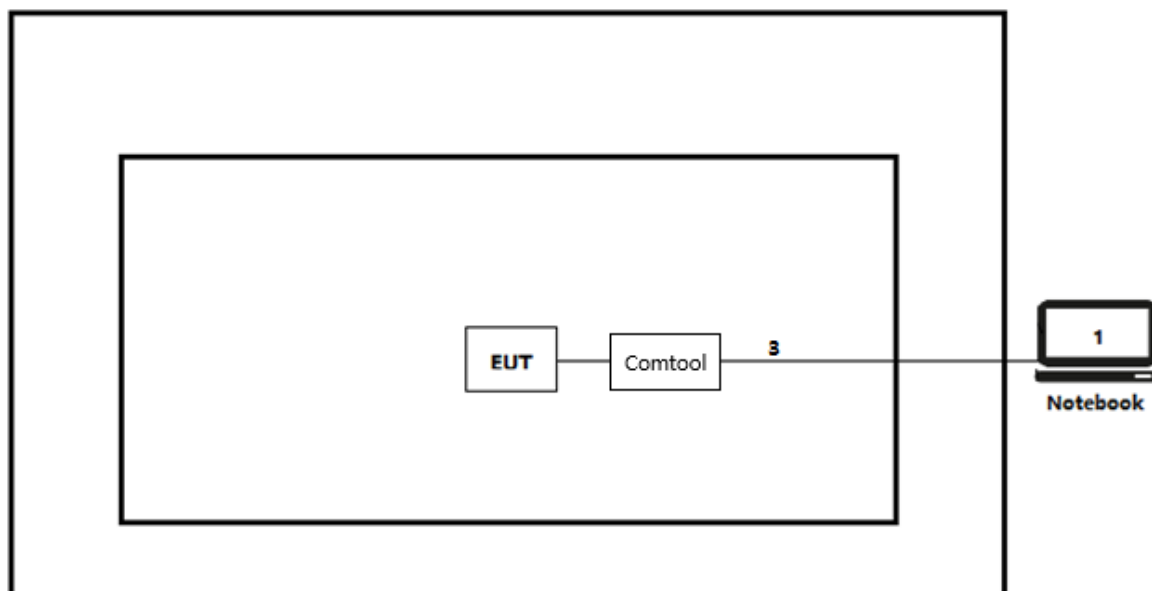
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☐
(3)USB Control Cable	8	☒	☐

2.2 Test Configuration / Block diagram used for tests

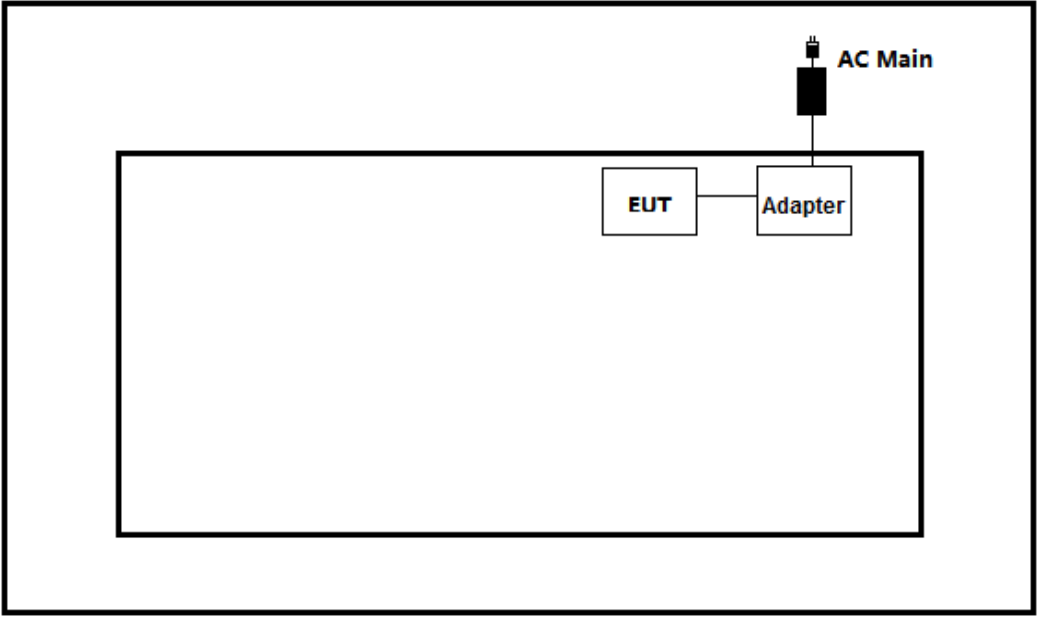
Test setup Diagram- Conducted test



Test setup Diagram- Radiated test



Test setup Diagram- AC Line Conducted Emission Test



3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart E	2024	FCC CFR Title 47 Part 15 Subpart E
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 789033	2017	This document provides guidance for determining emissions compliance of U-NII devices under Part 15, Subpart E of the FCC rules.
KDB 662911	2020	Provision to Allow Measurement of Directional Gain of Multi-Antenna Systems for Compliance Verification
KDB 905462	2016	UNII DFS Compliance Procedures New Rules

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Result
Antenna Requirement	--	15.203/15.407(a)	--	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	PASS
	Band II-A	15.407(a)(2)		
	Band II-C	15.407(a)(2)		
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	PASS
	Band II-A			
	Band II-C			
	Band III			
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	PASS
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW,11dBm+10*lg(EBW)}	
	Band II-C		< 1W	
	Band III	15.407(a)(3)		
Maximum Power Spectral Density	Band I	15.407(a)	<11dBm/MHz	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz	
	Band II-C			
	Band III	15.407(a)(3)	<30dBm/500KHz	
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	PASS
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below	PASS

			the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209	---	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	PASS
Dynamic Frequency Selection (DFS)	Band II-A Band II-C	15.407(h)	---	PASS
Remark: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz				

Requirement – Test case of FCC	Test Location	Remark
Radiated Emission	B	Test data please refer to Appendix A
Emission bandwidth and occupied bandwidth	A	Test data please refer to Appendix B
6dB Emission Bandwidth	A	Test data please refer to Appendix C
Duty cycle	A	Test data please refer to Appendix D
Power Output	A	Test data please refer to Appendix E
Peak Power Spectral Density	A	Test data please refer to Appendix F
Radiated Emission Band Edge	B	Test data please refer to Appendix G
Frequency Stability	A	Test data please refer to Appendix H

Requirement – Test case of FCC	Test Location	Remark
Dynamic Frequency Selection (DFS)	A	Test data please refer to Appendix I
AC Power Line Conducted Emissions	A	Test data please refer to Appendix J
Antenna Requirement	---	---

Mode	Channel	Frequency(MHz)	Power Setting
802.11a	36	5180	20
	40	5200	22
	48	5240	22
	52	5260	22
	56	5280	22
	64	5320	22
	100	5500	19
	116	5580	19
	140	5700	23
	149	5745	24
	157	5785	24
	165	5825	24
802.11n20	36	5180	20
	40	5200	22
	48	5240	22
	52	5260	22
	56	5280	22
	64	5320	22
	100	5500	19
	116	5580	20
	140	5700	20
	149	5745	23
	157	5785	23
	165	5825	23
802.11n40	38	5190	19
	46	5230	22
	54	5270	22
	62	5310	18
	102	5510	20
	110	5550	21
	134	5670	22
	151	5755	23
	159	5795	23
	36	5180	20

Mode	Channel	Frequency(MHz)	Power Setting
802.11ac20	40	5200	22
	48	5240	22
	52	5260	22
	56	5280	22
	64	5320	22
	100	5500	19
	116	5580	20
	140	5700	20
	149	5745	23
	157	5785	23
	165	5825	23
802.11ac40	38	5190	19
	46	5230	22
	54	5270	22
	62	5310	18
	102	5510	20
	110	5550	21
	134	5670	22
	151	5755	23
	159	5795	23
802.11ax20	36	5180	20
	40	5200	22
	48	5240	22
	52	5260	22
	56	5280	22
	64	5320	22
	100	5500	19
	116	5580	20
	140	5700	20
	149	5745	23
	157	5785	23
	165	5825	23
802.11ax40	38	5190	19
	46	5230	22
	54	5270	22
	62	5310	18
	102	5510	20
	110	5550	21
	134	5670	22
	151	5755	23
	159	5795	23

3.4 Test Facility

Test Location A	:	FCC Designation Number: CN1199
Tset Location B	:	FCC Designation Number: CN1321

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 AC Power Line Conducted Emission

VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

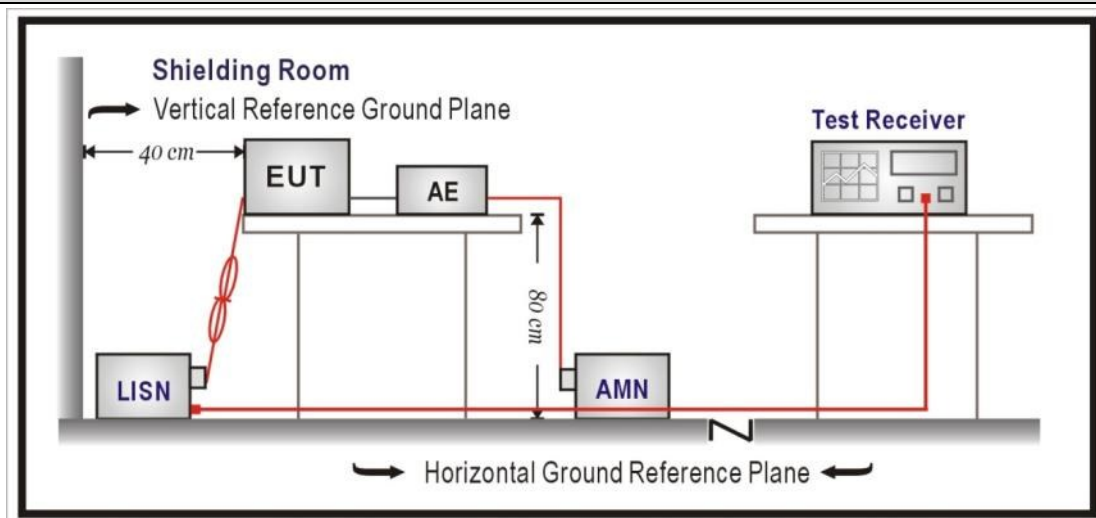
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.2 Radiated Emissions**VERDICT: PASS****4.2.1 Limit****Standard** FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.²Above 38.6

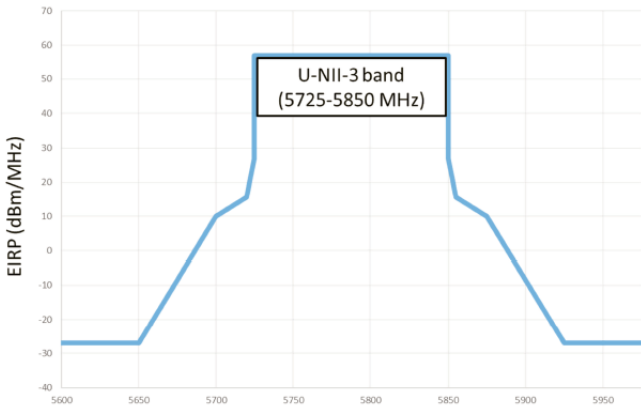
FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)

Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 - 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

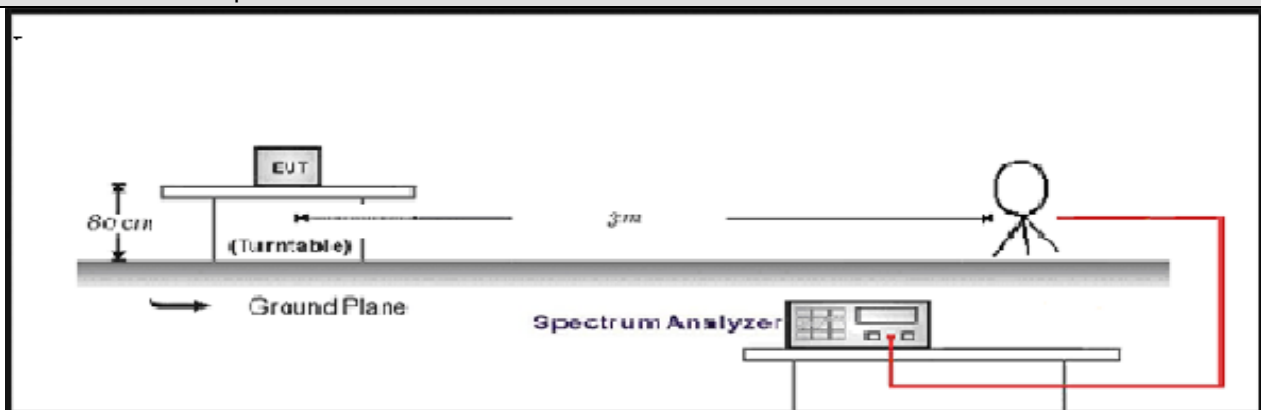
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)

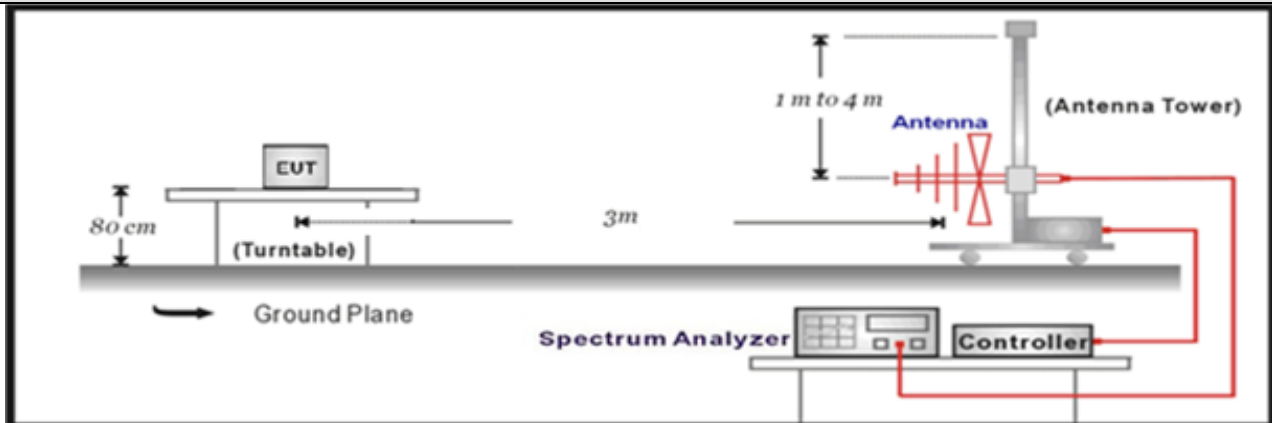
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850		

4.2.2 Test Setup

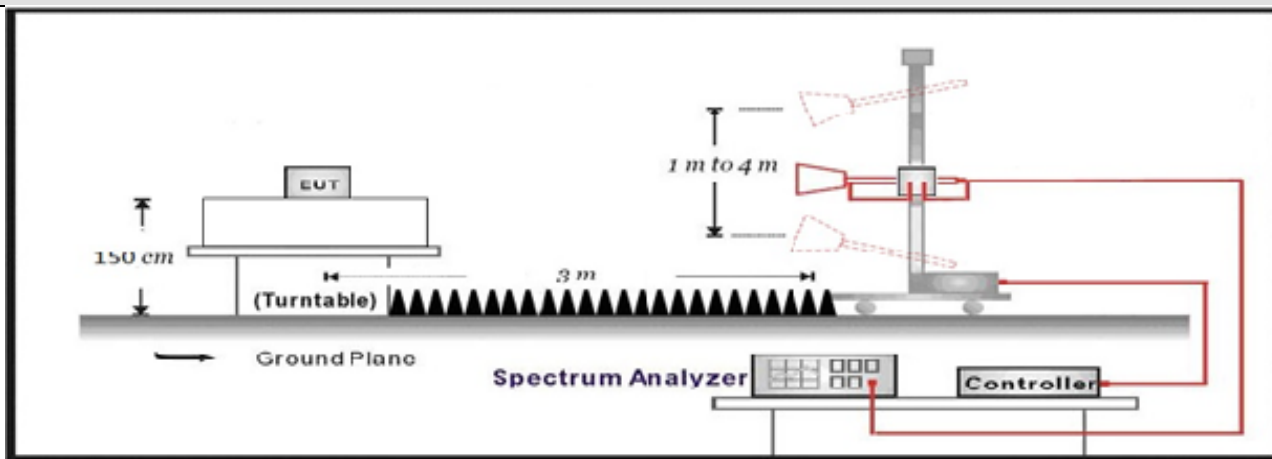
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
☒	ANSI C63.10	12.7.5	Radiated emission measurements
☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz

	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Emission bandwidth

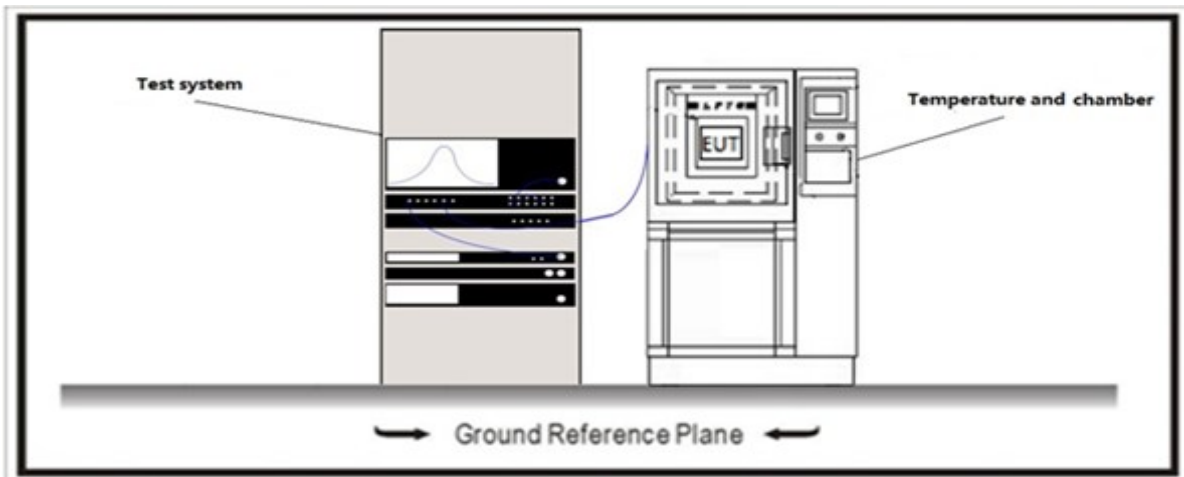
VERDICT: PASS

4.3.1 Limit

Standard	FCC CFR Title 47 Part 15 Subpart E: Section 15.407
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Within the Frequency band.

4.3.2 Test Setup



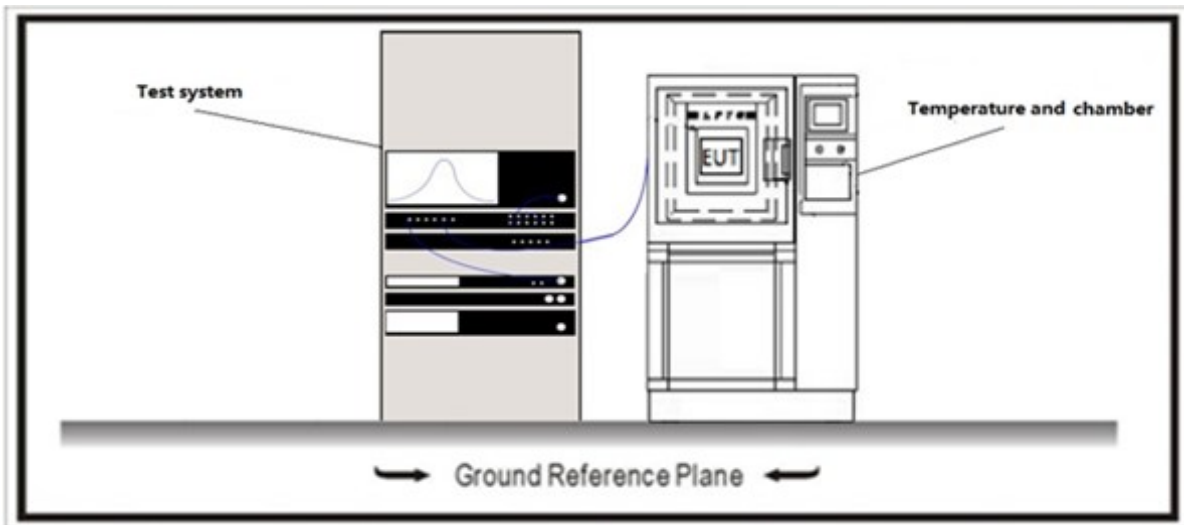
4.3.3 Test Procedure

Test Method

	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Emission bandwidth and occupied bandwidth
☐	ANSI C63.10	12.5.1	Emission bandwidth for the band 5.725 GHz to 5.85 GHz
☒	ANSI C63.10	12.5.2	Emission bandwidth for all other bands
☒	ANSI C63.10	12.5.3	Occupied bandwidth
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
☒	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
☐	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.4 6dB bandwidth**VERDICT: PASS****4.4.1 Limit****Standard**

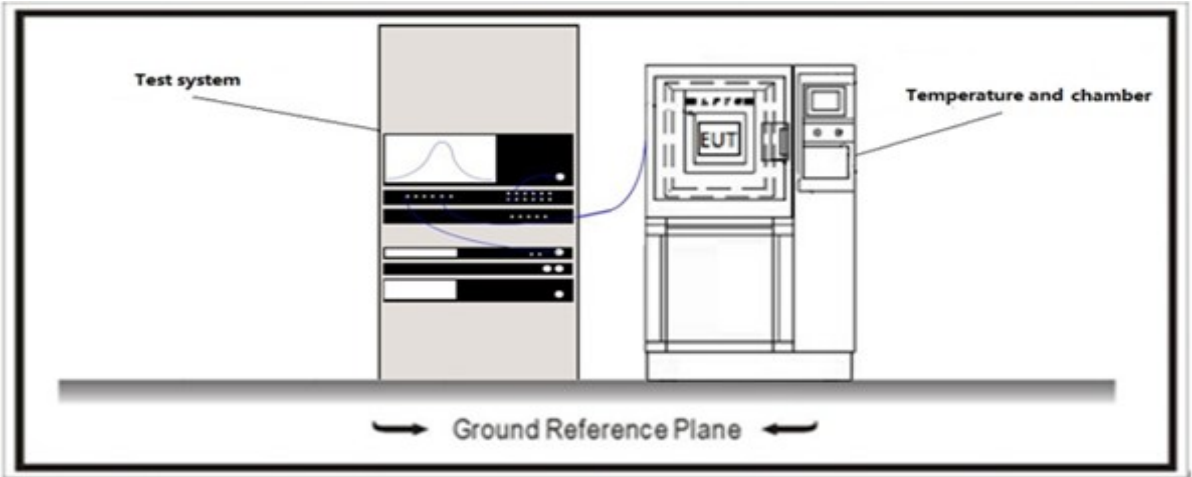
FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)

6dB Bandwidth $\geq 500\text{KHz}$ **4.4.2 Test Setup****4.4.3 Test Procedure****Test Method**

	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Emission bandwidth and occupied bandwidth
☒	ANSI C63.10	12.5.1	Emission bandwidth for the band 5.725 GHz to 5.85 GHz
☐	ANSI C63.10	12.5.2	Emission bandwidth for all other bands
☐	ANSI C63.10	12.5.3	Occupied bandwidth
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
☐	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
☒	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v02r01	D	99 Percent Occupied Bandwidth

4.5 Duty cycle	VERDICT: PASS
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4.5.1 Limit
N/A

4.5.2 Test Setup


4.5.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	12.2	Duty cycle (D), transmission duration (T), and maximum power control level

4.6 Power Output

VERDICT: PASS

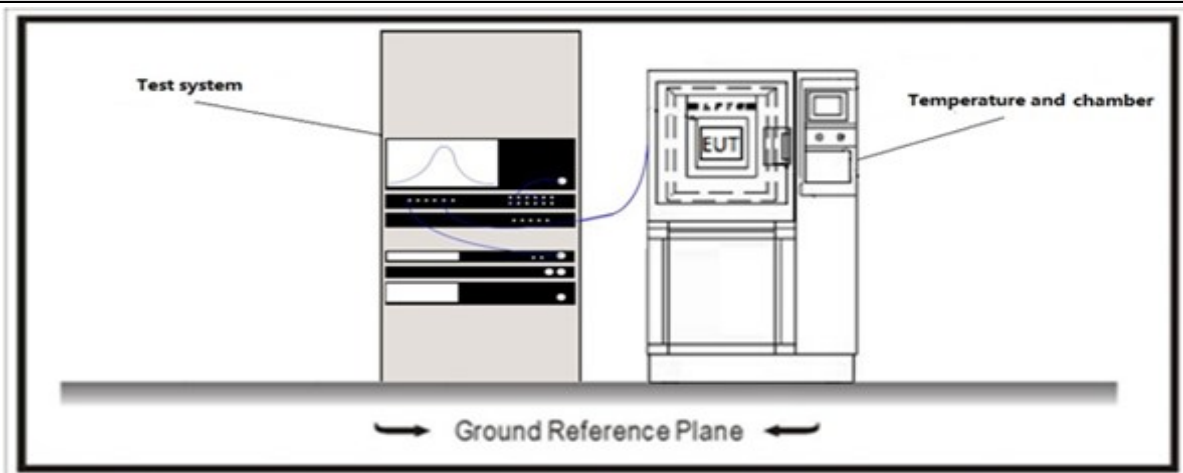
4.6.1 Limit

Standard		FCC Part 15 Subpart E Paragraph 15.407 (a)
☒	For the band 5.15-5.25 GHz	
☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees	
☐	Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$	
☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 23)$	
☒	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 24 - (G_{TX} - 6)$	
☒	For the band 5.25-5.35 GHz:	
☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$	
☒	For the 5.47-5.725 GHz:	
☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \log B) - (G_{TX} - 6)$	
☒	For the band 5.725-5.85 GHz:	
☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{out} = 30 - (G_{TX} - 6)$	
☐	Point-to-point systems (P2P): the maximum conducted output power (P_{out}) shall not exceed the lesser of 1 W	

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.6.2 Test Setup



4.6.3 Test Procedure

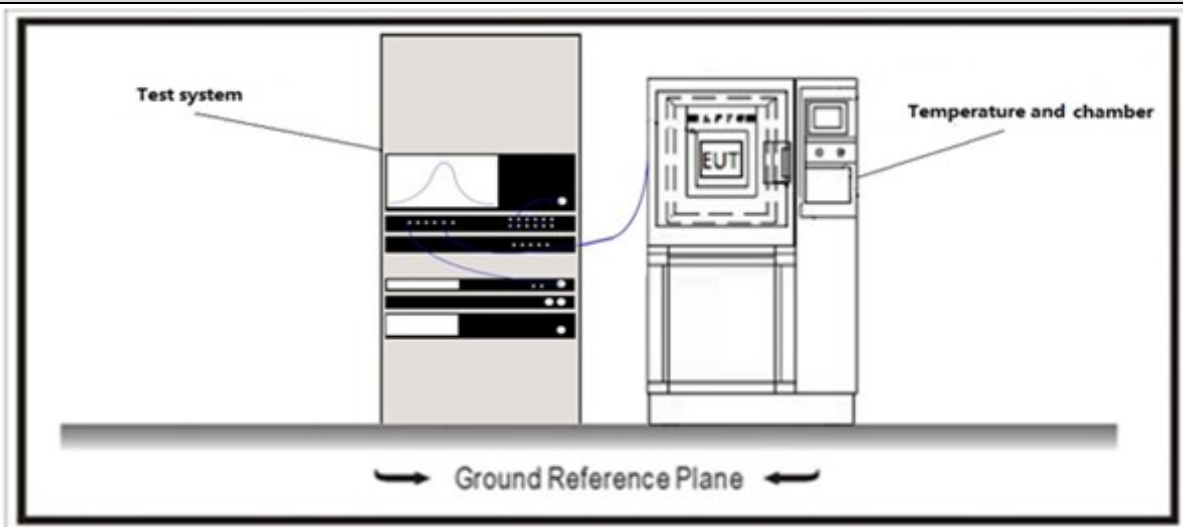
	References Rule		Chapter	Description
☒	ANSI C63.10		12.4	Maximum conducted output power
	☐	ANSI C63.10	12.4.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐ ANSI C63.10	12.4.2.2	Method SA-1
		☐ ANSI C63.10	12.4.2.3	Method SA-1A (alternative)
		☐ ANSI C63.10	12.4.2.4	Method SA-2
		☐ ANSI C63.10	12.4.2.5	Method SA-2A (alternative)
		☐ ANSI C63.10	12.4.2.6	Method SA-3
		☐ ANSI C63.10	12.4.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10	12.4.3	Maximum conducted output power using a power meter
		☐ ANSI C63.10	12.4.3.1	Method PM
		☒ ANSI C63.10	12.4.3.2	Method PM-G

4.7 Maximum Power Spectral Density**VERDICT: PASS****4.7.1 Limit****Standard** FCC Part 15 Subpart E Paragraph 15.407 (a)

☒	For the band 5.15-5.25 GHz
☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 23)$
☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.25-5.35 GHz:
☒	The maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.47-5.725 GHz:
☒	The maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:
☒	The maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.7.2 Test Setup



4.7.3 Test Procedure			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.6	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

4.8 Radiated Emission Band Edge**VERDICT: PASS****4.8.1 Limit****Standard** FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.²Above 38.6

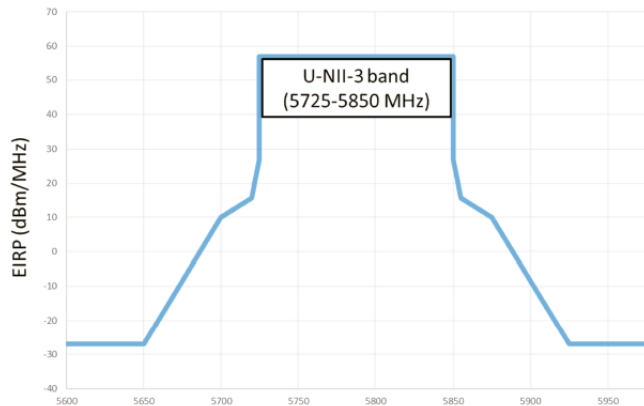
FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)

Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 - 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

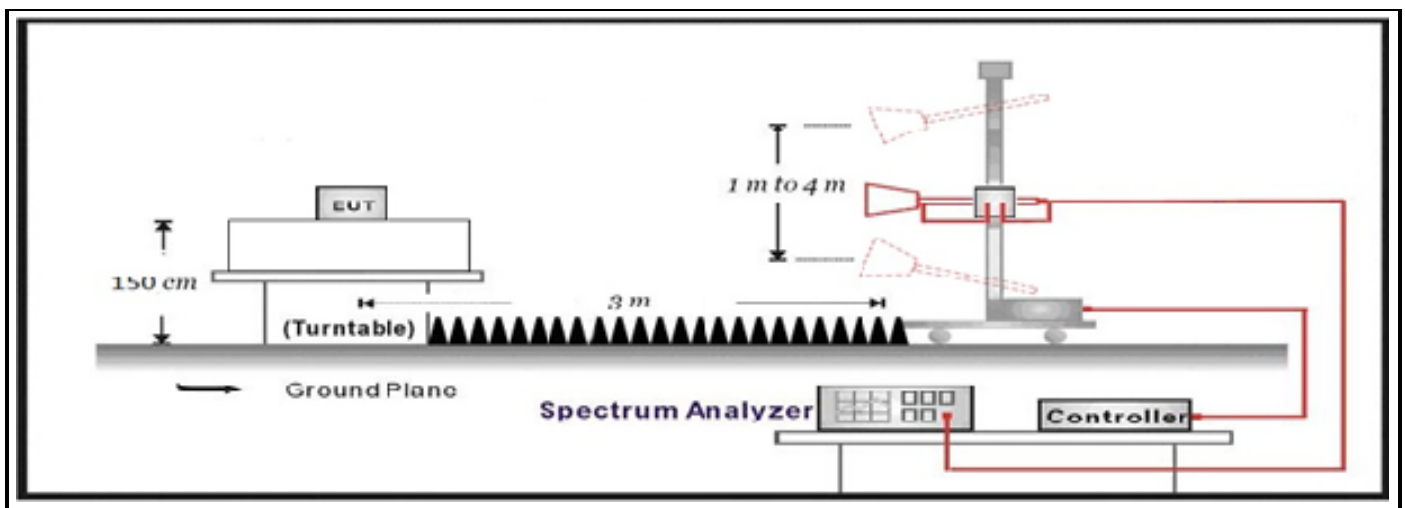
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850	 U-NII-3 band (5725-5850 MHz)	

4.8.2 Test Setup

Above 1GHz Test Setup:



4.8.3 Test Procedure

	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☐	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☐	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v02r01		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method



		☐	FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.
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4.9 Frequency Stability

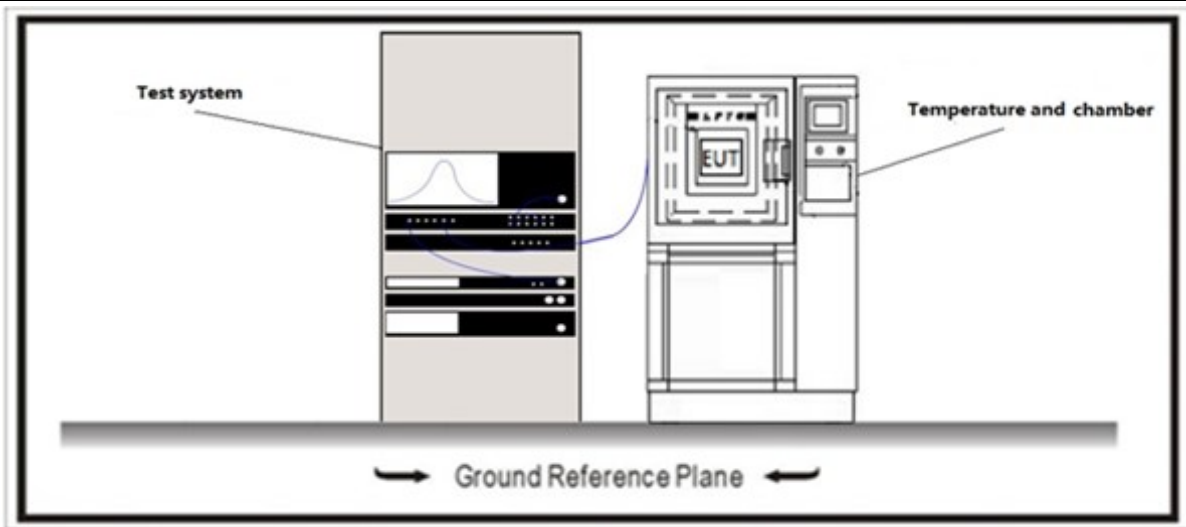
VERDICT: PASS

4.9.1 Limit:

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

4.9.2 Test Setup



4.9.3 Test Procedure

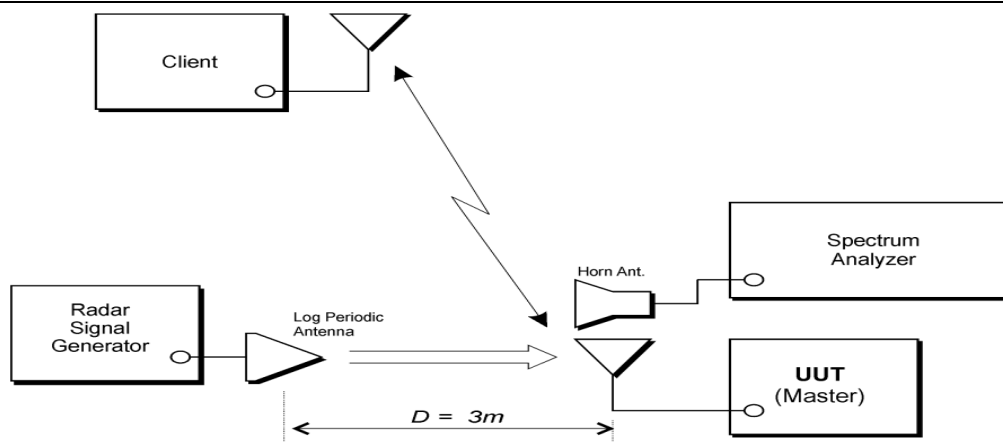
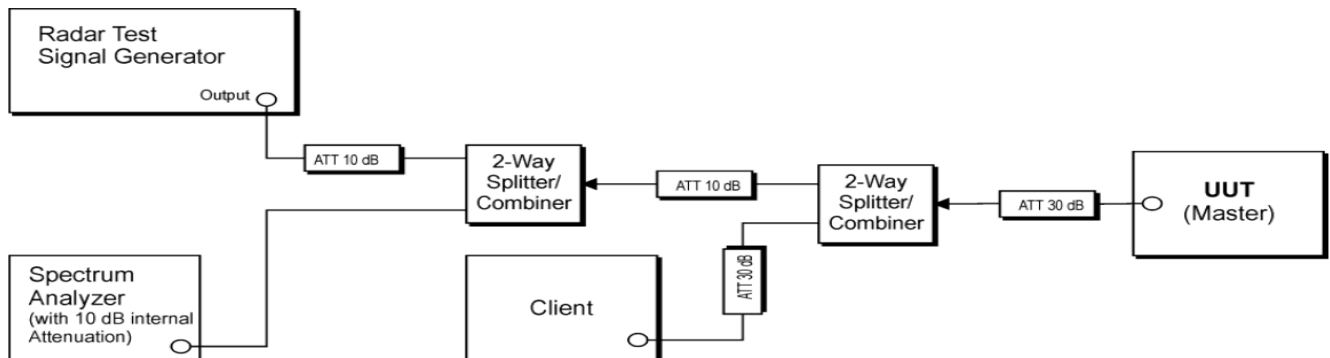
	References Rule		Chapter	Description
☒	ANSI C63.10		6.8	Frequency stability tests
	☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

4.10 Dynamic Frequency Selection (DFS)**VERDICT: PASS****4.10.1 Limit**

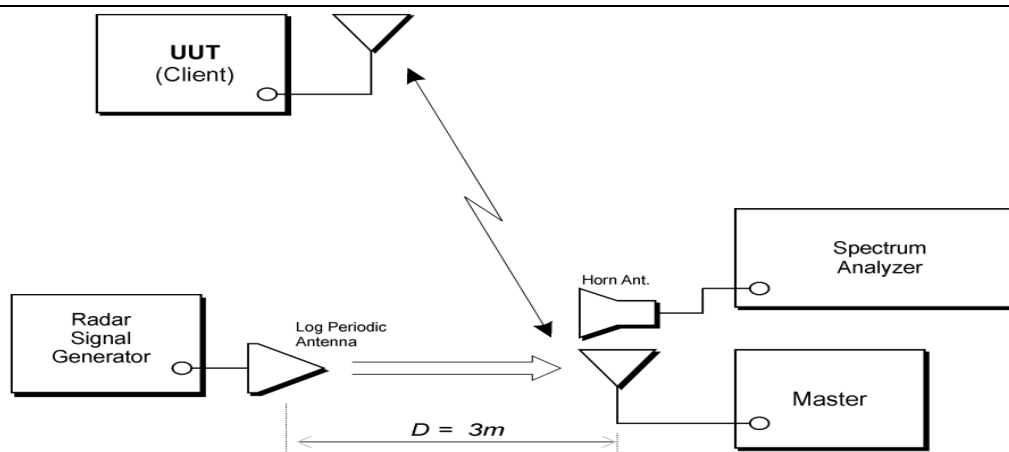
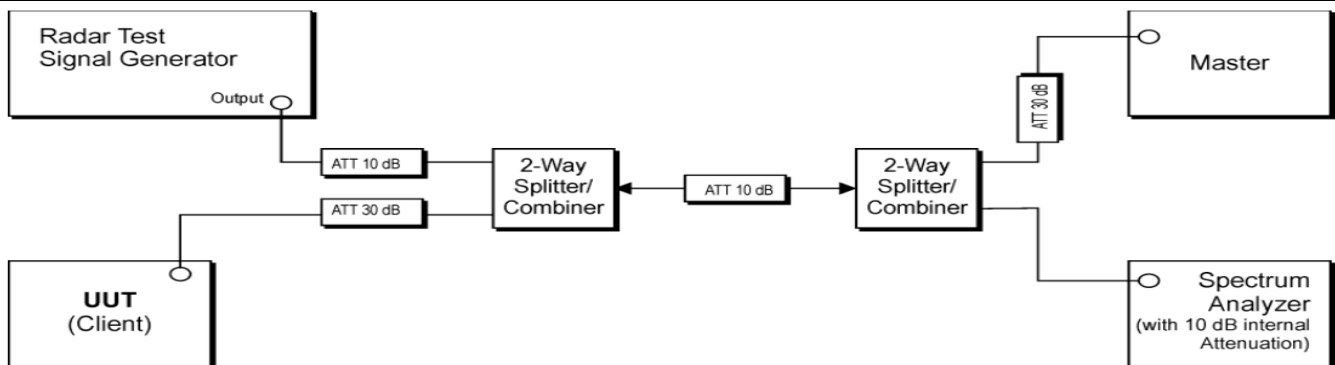
Standard	FCC Part 15 Subpart E Paragraph 15.407(h)
Channel Availability Check (CAC)	
60 Seconds	
Radar Detection Threshold Level	
EIRP $\geq$ 200 milliwatt, level value: -64 dBm EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz, level value: -62 dBm EIRP < 200 milliwatt that do not meet the power spectral density requirement, level value: -62 dBm Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	
U-NII Detection Bandwidth	
Minimum 100% of the UNII 99% transmission power bandwidth. See Note Note: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	
In-Service Monitoring	
the RLAN device shall be capable of detecting any of the radar test signals. Detection Probability (P_d): 60%	
Channel Shutdown - Channel Move Time.	
10 Seconds	
Channel Shutdown - Channel Closing Transmission Time	
200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.(See Notes 1 and 2) Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	
Non-Occupancy Period	
Minimum 30 minutes	

4.10.2 Test Setup

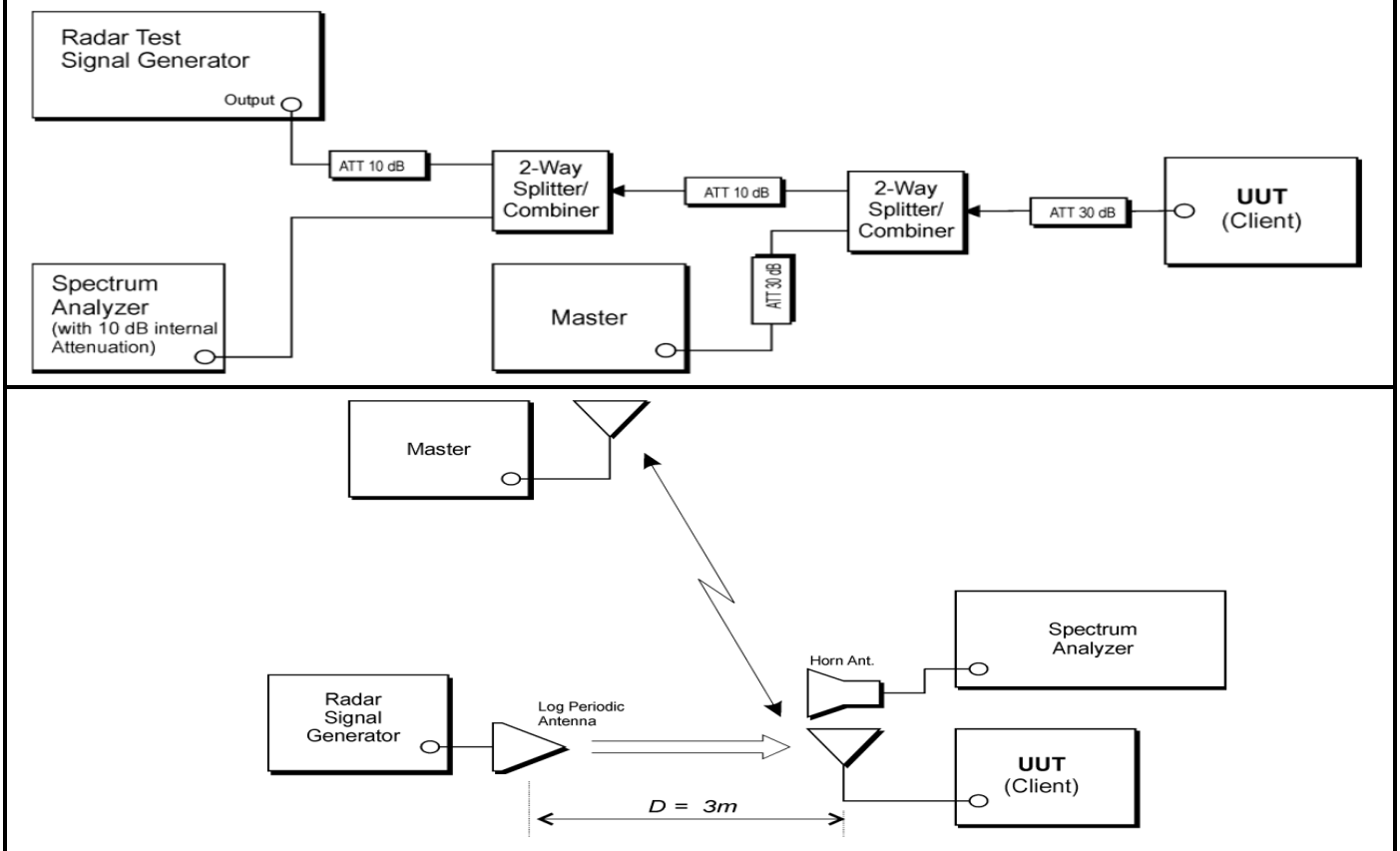
Master with injection at the Master



Client with injection at the Master



Client with injection at the Client



4.10.3 Test Procedure

References Rule	Description
☒ KDB 905462 D02	Dynamic Frequency Selection (DFS)

For a UUT with antenna connector(s) and using dedicated external antenna(s), or for a UUT with integral antenna(s) but with a temporary antenna connector(s) provided, conducted measurements shall be used.

When performing DFS testing on smart antenna systems, a power splitter/combiner shall be used to combine all the receive chains (antenna inputs) into a single test point. The insertion loss of the splitter/combiner shall be taken into account.

The UUT shall be configured to operate at the highest transmitter output power setting.

Beamforming gain Y of smart antenna systems, operating in a mode where beamforming is active, is ignored in order to test the worst case.

The centre frequencies of the radar test signals used in the test procedures below shall fall within the central 80 % of the Occupied Channel Bandwidth of the RLAN channel under test.

Tests with a radar burst at the beginning of the Channel Availability Check Time

a) The signal generator and UUT are connected using Set-up A as described in clause 5.4.8.1.3.1. The power of the UUT is switched off.

b) The UUT is powered on at T_0 . T_1 denotes the instant when the UUT has completed its power-up sequence ($T_{\text{power\_up}}$) and is ready to start the radar detection. The *Channel Availability Check* is expected to commence on Ch_r at instant T_1 and is expected to end no sooner than $T_1 + T_{\text{ch\_avail\_check}}$ unless the radar test signal is detected sooner. Additional verification may be needed to define T_1 in case it is not exactly known or indicated by the UUT.

c) A single radar burst is generated on Ch_r using the reference test signal defined in table D.3 at a level of up to 10 dB above the level defined in clause 5.4.8.2.1.1. This single-burst radar test signal shall commence within 2 s after time T_1 .

d) It shall be recorded if the radar test signal was detected.

e) A timing trace or description of the observed timing and behaviour of the UUT shall be recorded.

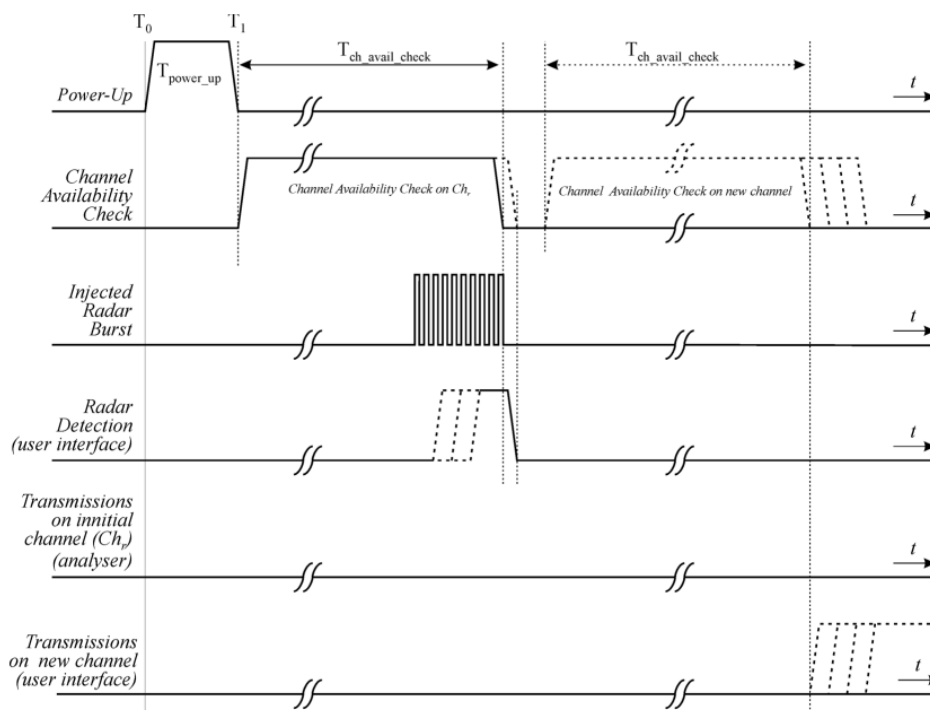


Figure 9: Example of timing for radar testing towards the end of the Channel Availability Check Time

In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during *In-Service Monitoring*;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the UNII device (In- Service Monitoring).

- a) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without DFS), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- d) At time T_0 the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in **Table 5** at levels defined in **Table 3**, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. **Figure 17** illustrates Channel Closing Transmission Time.
- f) When operating as a Master Device, monitor the UUT for more than 30 minutes following instant T_2 to verify that the UUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.
- g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

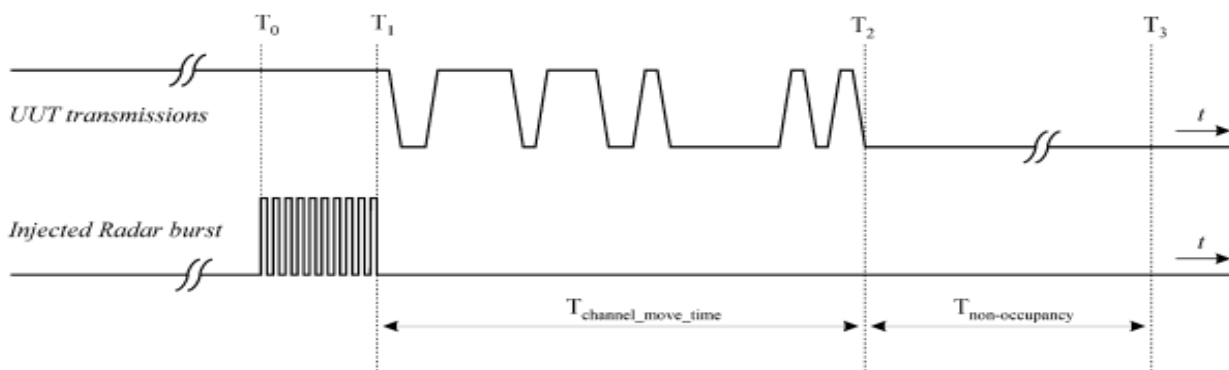


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

- a) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- d) At time T₀ the Radar Waveform generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
- f) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
- g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

Radar Detection Threshold Level (during Off-Channel CAC)

- a) The signal generator, the UUT (master device) and a slave device associated with the UUT, are connected using *Set-up A* described in clause 5.4.8.1.3.1.
- b) The UUT shall transmit a test transmission sequence in accordance with clause 5.3.1.2 on (all) the *Operating Channel(s)*.
- c) A multi burst radar test signal is generated on Chr using any of the radar test signals defined in table D.4 at a level defined in clause 5.4.8.2.1.1. The radar test signal used shall be recorded in the report. This multi burst radar test signal shall commence at T₃ and shall continue for the total duration of the *Off-Channel CAC Time* (T_{Off-Channel_CAC}) as declared by the manufacturer in accordance with table D.1. For channels within the 5 600 MHz to 5 650 MHz band test signals #3 and #4 shall not be used and the Burst Interval Time (BIT) during the test shall be varied between 8 min and 10 min. For channels outside this band, the Burst Interval Time (BIT) during the test shall be varied between 45 s and 60 s.
- d) The UUT shall detect the radar test signal before the end of the *Off-Channel CAC Time* and this shall be recorded. For the purpose of reducing test time, the test may be terminated immediately once the UUT has reported detection of the radar test signal.

Detection Probability (P_d)

This test may be facilitated by disabling the *Channel Shutdown* feature for the duration of the test. For channels outside the 5 600 MHz to 5 650 MHz band, the test in clause 5.4.8.2.1.4.2 is sufficient to demonstrate that the UUT meets the Detection Probability (P_d) defined in table D.5.

Where the declared channel plan includes channels whose nominal bandwidth falls completely or partly within the 5 600 MHz to 5 650 MHz band, the procedure in the steps below has to be performed on one of these channels. See clause 5.3.2.

a) A multi burst radar test signal is generated on Chr using any of the radar test signals defined in table D.4 (except signals #3 and #4) at a level of 10 dB above the level defined in clause 5.4.8.2.1.1. The radar test signal used shall be recorded in the report. This multi burst radar test signal shall commence at T₃ and shall continue for the total duration of the *Off-Channel CAC Time* (T_{Off-Channel_CAC}) as declared by the manufacturer in accordance with table D.1. The Burst Interval Time (BIT) during the test shall be varied between 8 minutes and 10 minutes.

b) It shall be recorded how many bursts have been detected by the UUT at the end of the *Off-Channel CAC Time*. The minimum number of bursts that the UUT shall detect in order to comply with the detection probability defined for this frequency range in table D.5 is given by table 12.

For the purpose of reducing test time, the test may be terminated immediately the UUT has reported the minimum number of burst detections required.

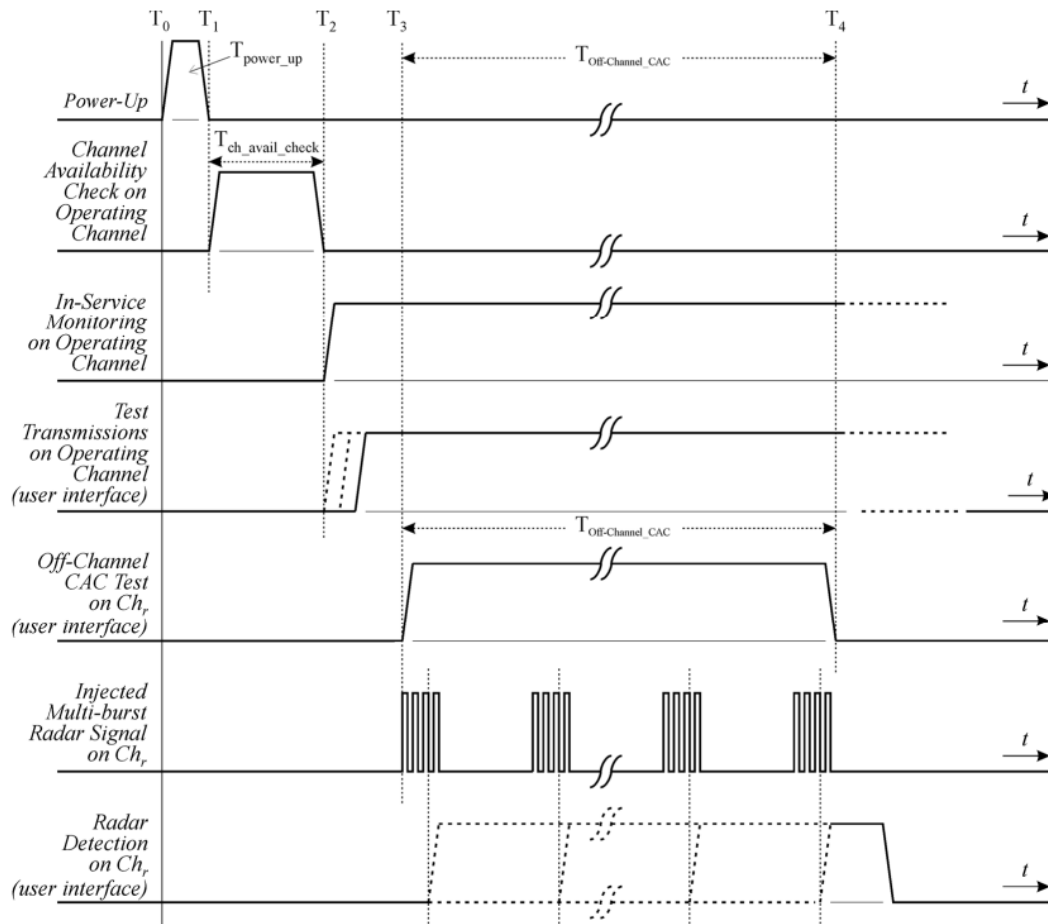


Figure 11: Example of timing for radar testing during the Off-Channel CAC

In-Service Monitoring

The steps below define the procedure to verify the *In-Service Monitoring* and the *Radar Detection Threshold Level* during the *In-Service Monitoring*.

The channel, on which the *In-Service Monitoring* test will be performed, shall be selected in accordance with clause 5.3.2. This channel, designated as *Chr*, is an *Operating Channel*.

a) When the UUT is a master device, a slave device will be used that associates with the UUT. The signal generator and the UUT are connected using *Set-up A* described in clause 5.4.8.1.3.1.

When the UUT is a slave device with a *Radar Interference Detection* function, the UUT shall associate with a master device. The signal generator and the UUT are connected using *Set-up C* described in clause 5.4.8.1.3.3.

b) The UUT shall transmit a test transmission sequence in accordance with clause 5.3.1.2 on the selected channel *Chr*. While the testing is performed on *Chr*, the equipment is allowed to have simultaneous transmissions on other adjacent or non-adjacent *Operating Channels*.

c) At a certain time T_0 , a single burst radar test signal is generated on *Chr* using radar test signal #1 defined in table D.4 and at a level defined in clause 5.4.8.2.1.1. T_1 denotes the end of the radar burst.

d) It shall be recorded if the radar test signal was detected.

e) Step b) to step d) shall be performed 20 times, each time a random value shall be chosen for pulse width and pulse repetition frequency from the corresponding ranges provided in table D.4. For radar test signal #5 and radar

test signal #6 provided in table D.4 the number of PRF values shall vary between 2 or 3. The radar test signal shall be detected at least 12 times out of the 20 trials in order to comply with the detection probability specified in table D.5.

f) Step b) to step e) shall be repeated for each of the radar test signals defined in table D.4 and as described in clause 5.4.8.1.2.

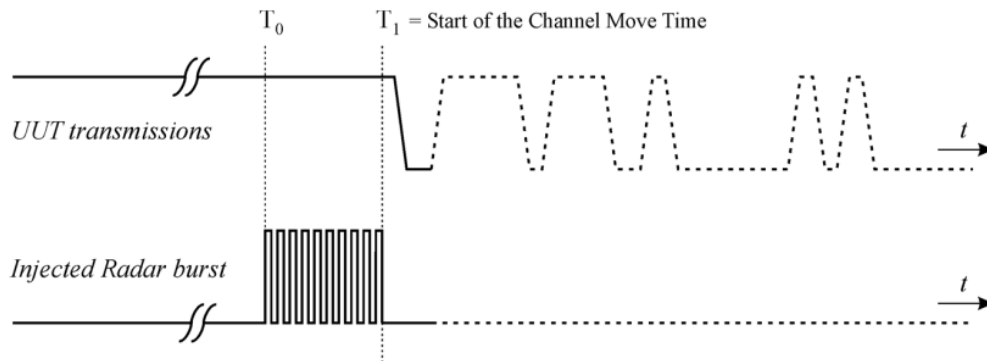


Figure 12: Example of timing for radar testing during In-Service Monitoring

Channel Shutdown and Non-Occupancy period

The steps below define the procedure to verify the *Channel Shutdown* process and to determine the *Channel Closing Transmission Time*, the *Channel Move Time* and the *Non-Occupancy Period*. This is illustrated in figure 13.

The channel, on which these tests will be performed, shall be selected in accordance with clause 5.3.2. This channel, designated as Chr, is an *Operating Channel*.

a) When the UUT is a master device, a slave device will be used that associates with the UUT. The signal generator and the UUT shall be connected using *Set-up A* described in clause 5.4.8.1.3.1.

When the UUT is a slave device (with or without a *Radar Interference Detection* function), the UUT shall associate with a master device. The signal generator and the UUT shall be connected using *Set-up B* described in clause 5.4.8.1.3.2.

In both cases, it is assumed that the channel selection mechanism for the *Uniform Spreading* requirement is disabled in the master.

b) The UUT shall transmit a test transmission sequence in accordance with clause 5.3.1.2 on the selected channel Chr. While the testing is performed on Chr, the equipment is allowed to have simultaneous transmissions on other adjacent or non-adjacent *Operating Channels*.

c) At a certain time T_0 , a single burst test signal is generated on Chr using the reference DFS test signal defined in table D.3 and at a level of up to 10 dB above the level defined in clause 5.4.8.2.1.1 on the selected channel. T_1 denotes the end of the radar burst.

d) The transmissions of the UUT following instant T_1 on the selected channel Chr shall be observed for a period greater than or equal to the *Channel Move Time* defined in table D.1. The aggregate duration (*Channel Closing Transmission Time*) of all transmissions from the UUT on Chr during the *Channel Move Time* shall be compared to the limit defined in table D.1. For equipment capable of having simultaneous transmissions on multiple (adjacent or non-adjacent) *Operating Channels*, the equipment is allowed to continue transmissions on other *Operating Channels* (different from Chr).

The aggregate duration of all transmissions of the UUT does not include quiet periods in between transmissions of the UUT.

e) T_2 denotes the instant when the UUT has ceased all transmissions on the channel Chr. The time difference between T_1 and T_2 shall be measured. This value (*Channel Move Time*) shall be noted and compared with the limit defined in table D.1.

f) Following instant T_2 , the selected channel Chr shall be observed for a period equal to the *Non-Occupancy Period* ($T_3 - T_2$) to verify that the UUT does not resume any transmissions on this channel.

g) When the UUT is a slave device with a *Radar Interference Detection* function step b) to step f) shall be repeated with the generator connected to the UUT using *Set-up C* as described in clause 5.4.8.1.3.3. See also note 2 in table D.2.

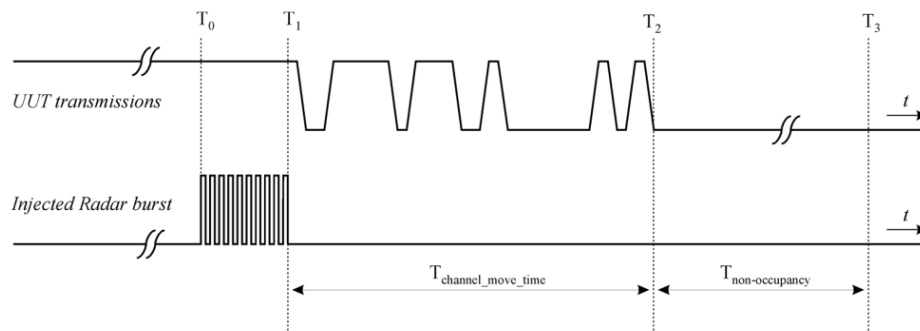


Figure 13: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

4.11 Antenna Requirement**VERDICT: PASS****4.11.1 Limit:**

Standard	FCC Part 15 Subpart C Paragraph 15.203;
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

4.11.2 Antenna Connector Construction:

☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

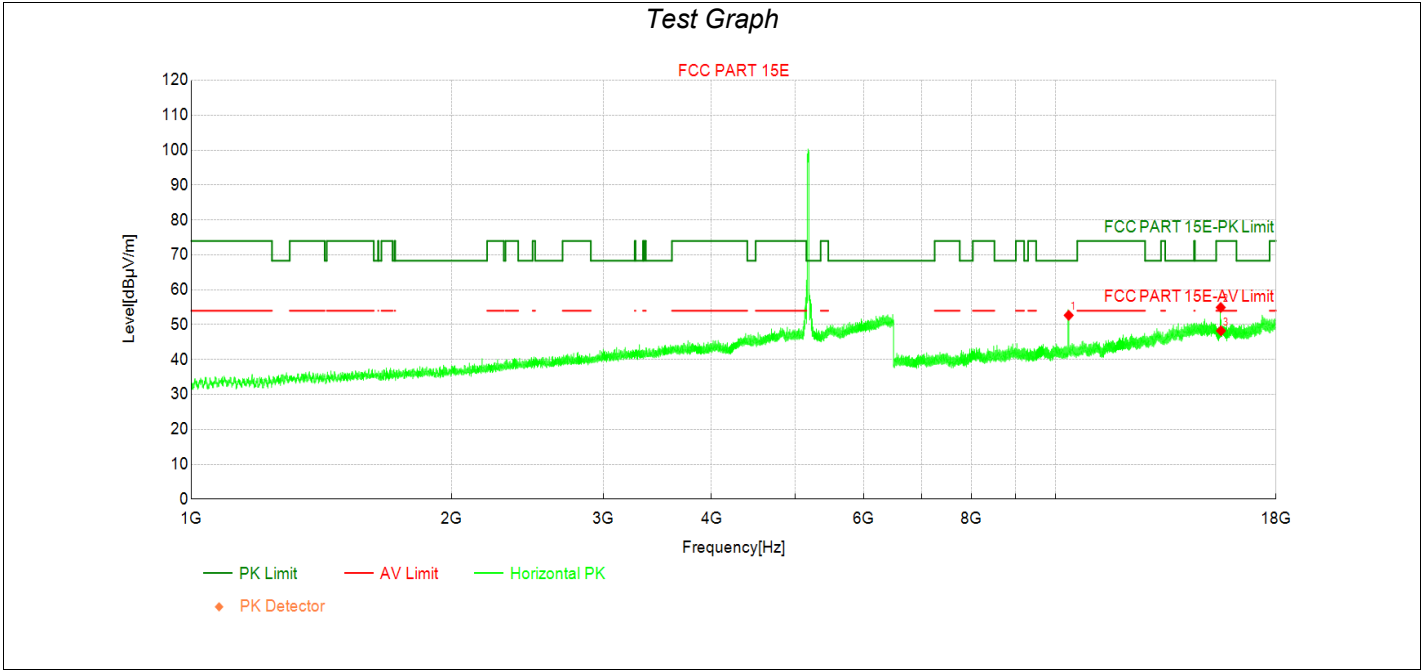
5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

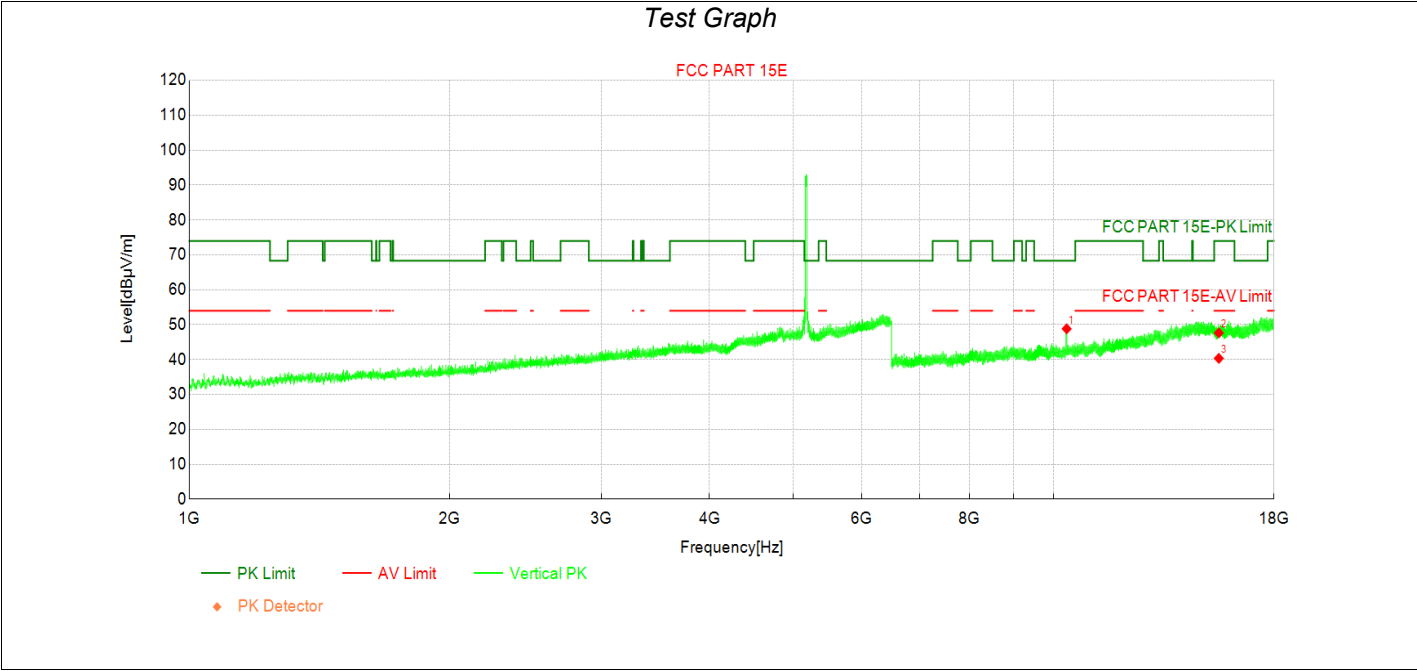
Appendix A: Radiated Emission

Transmit at 5180MHz by 802.11a with Ant1



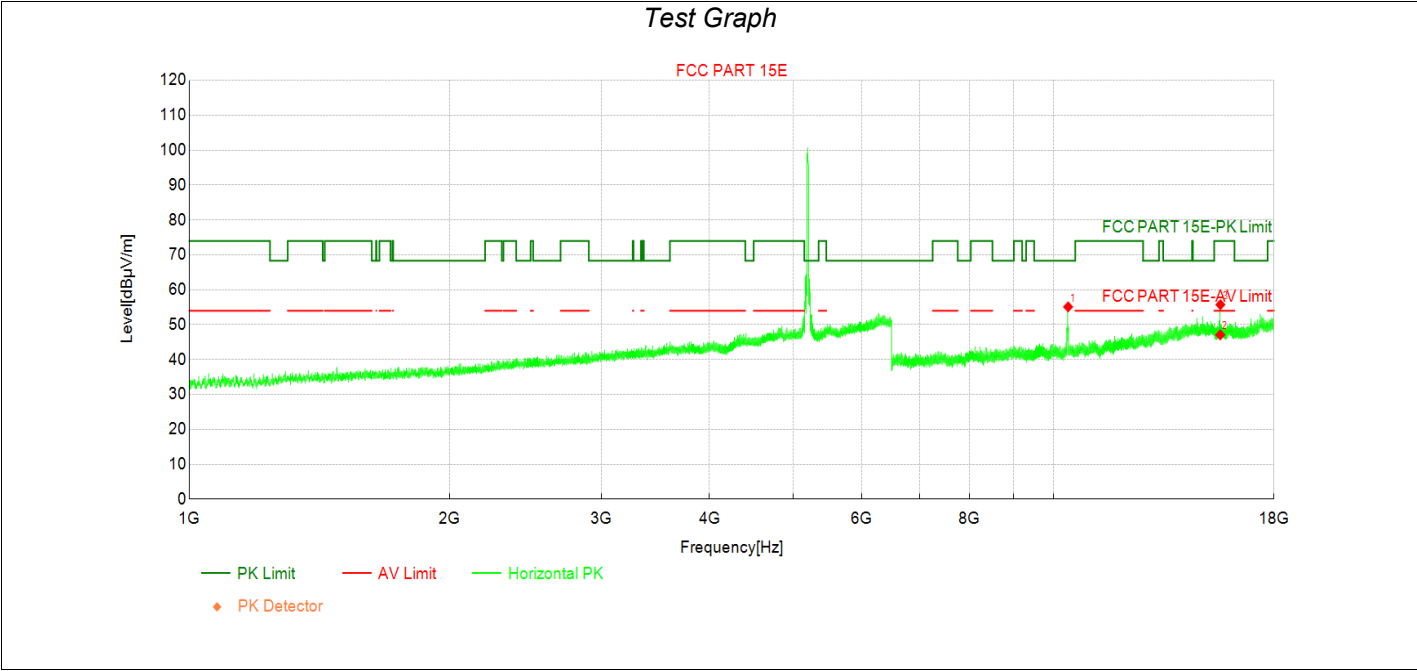
Data List									
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1	10360.00	45.04	52.68	7.64	68.30	15.62	PK	Horizo	PASS
2	15536.13	38.40	54.94	16.54	74.00	19.06	PK	Horizo	PASS
3	15544.75	31.71	48.24	16.53	54.00	5.76	AV	Horizo	PASS

Transmit at 5180MHz by 802.11a with Ant1



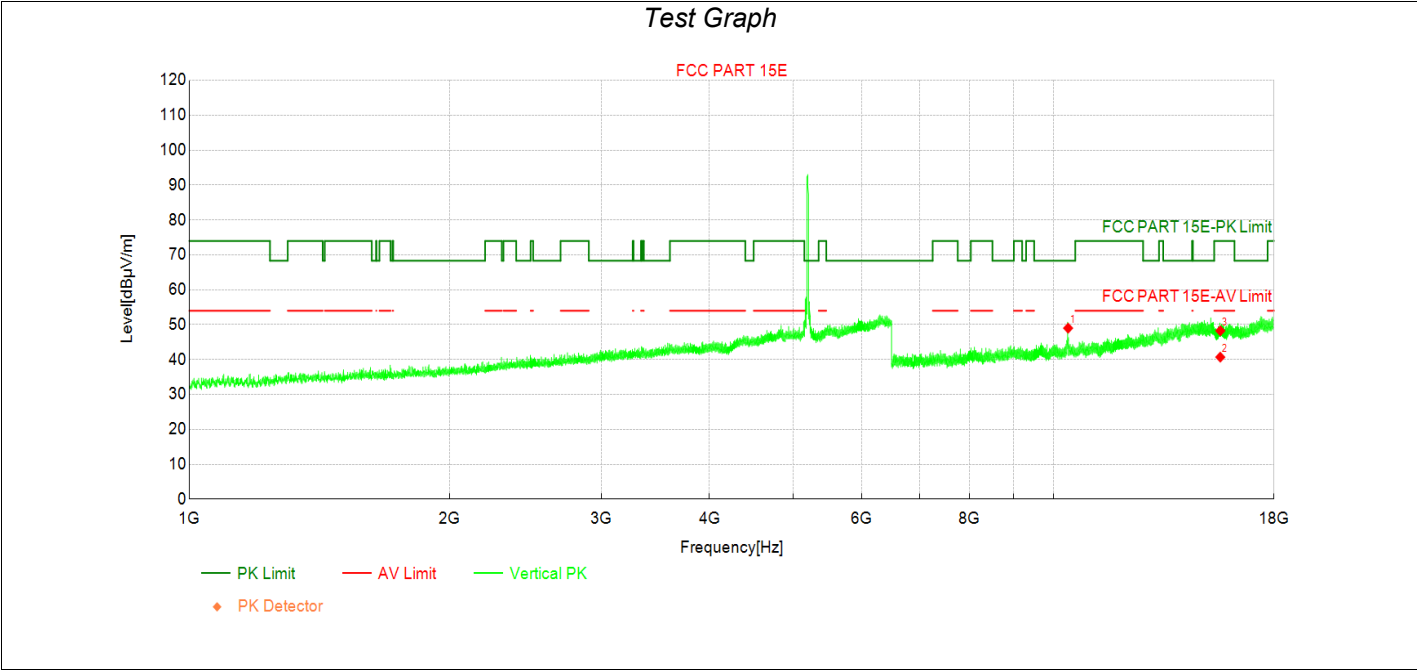
Data List									
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1	10360.00	41.17	48.81	7.64	68.30	19.49	PK	Vertic	PASS
2	15540.00	31.10	47.63	16.53	74.00	26.37	PK	Vertic	PASS
3	15540.00	23.82	40.35	16.53	54.00	13.65	AV	Vertic	PASS

Transmit at 5200MHz by 802.11a with Ant1



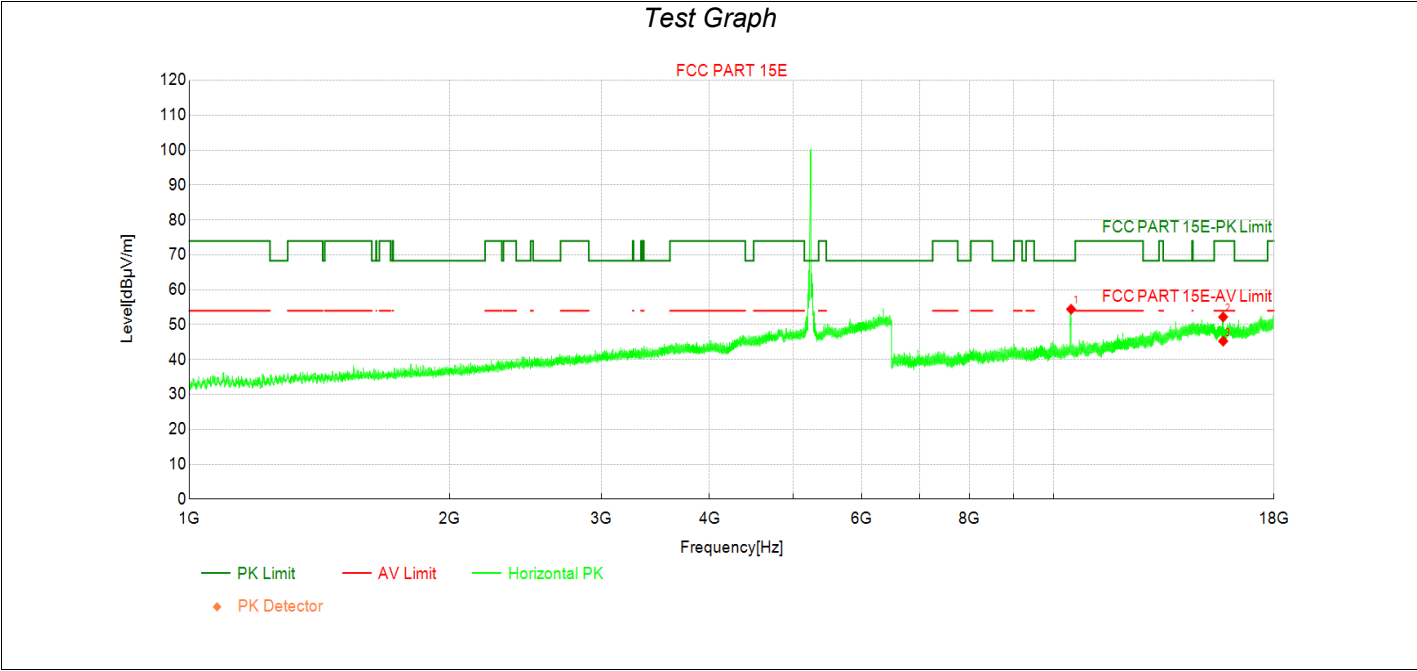
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1	10399.94	47.39	55.10	7.71	68.30	13.20	PK	Horizo	PASS
2	15600.00	30.59	47.07	16.48	54.00	6.93	AV	Horizo	PASS
3	15604.17	39.26	55.74	16.48	74.00	18.26	PK	Horizo	PASS

Transmit at 5200MHz by 802.11a with Ant1



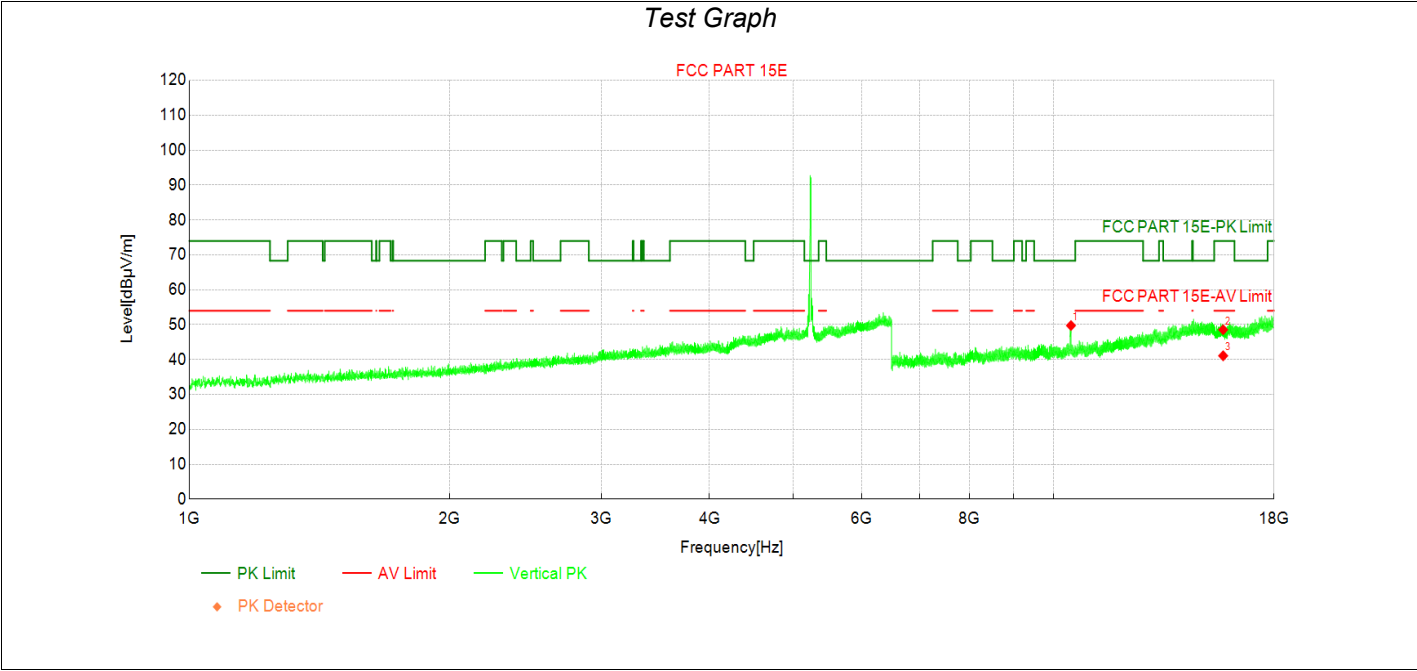
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1	10400.00	41.29	49.00	7.71	68.30	19.30	PK	Vertic	PASS
2	15600.00	24.22	40.70	16.48	54.00	13.30	AV	Vertic	PASS
3	15600.00	31.77	48.25	16.48	74.00	25.75	PK	Vertic	PASS

Transmit at 5240MHz by 802.11a with Ant1



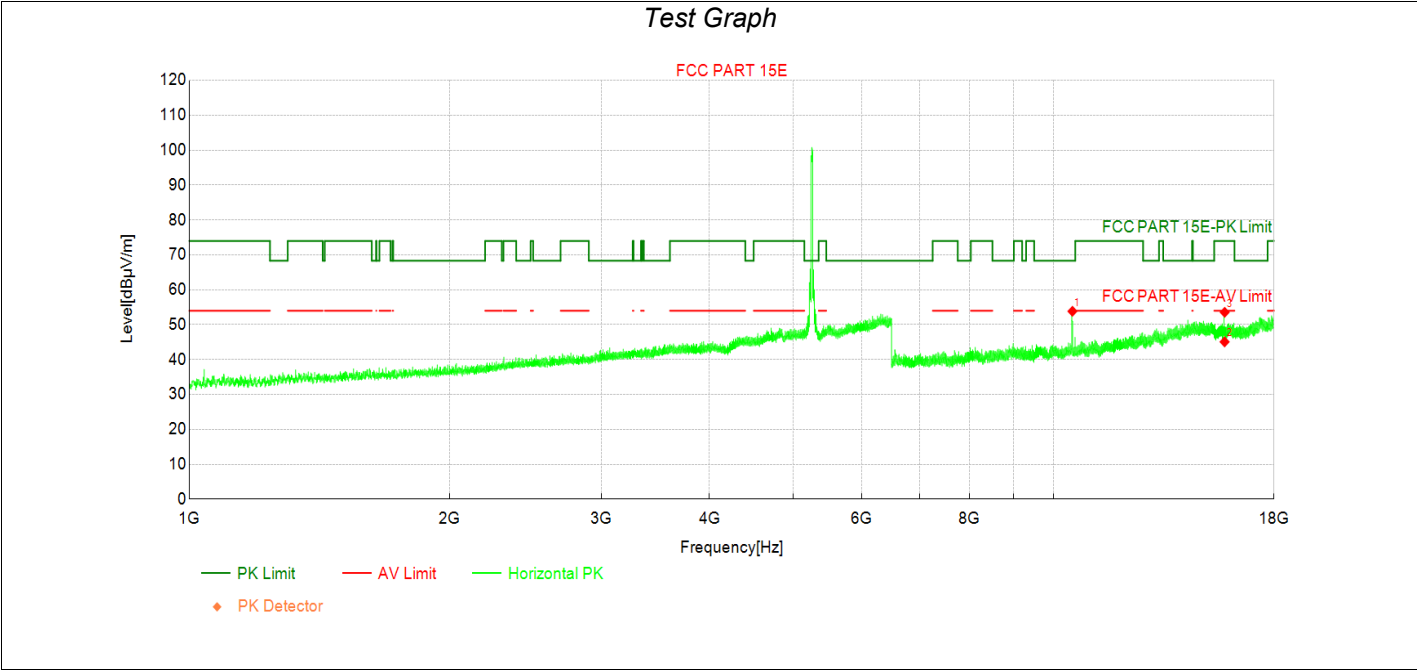
Data List									
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1	10483.31	46.24	54.42	8.18	68.30	13.88	PK	Horizo	PASS
2	15720.00	35.60	52.20	16.60	74.00	21.80	PK	Horizo	PASS
3	15720.00	28.66	45.26	16.60	54.00	8.74	AV	Horizo	PASS

Transmit at 5240MHz by 802.11a with Ant1



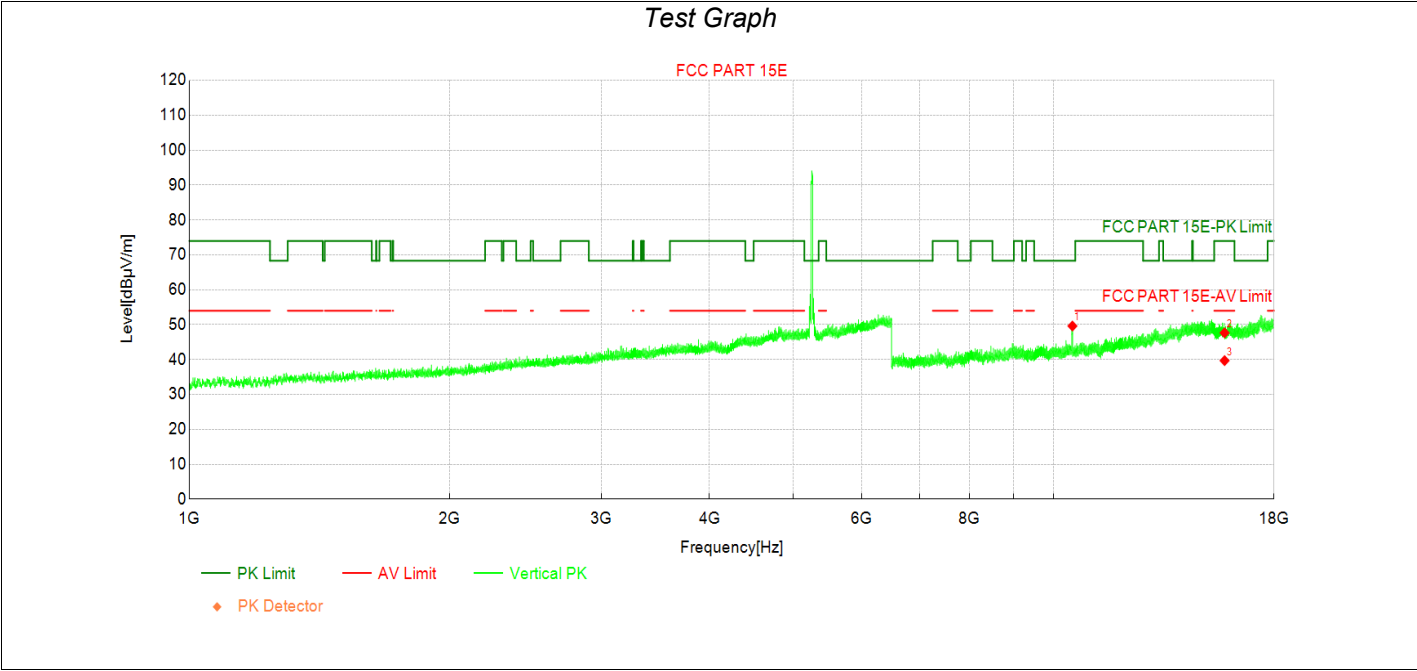
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1	10480.00	41.58	49.74	8.16	68.30	18.56	PK	Vertic	PASS
2	15720.00	31.95	48.55	16.60	74.00	25.45	PK	Vertic	PASS
3	15720.00	24.48	41.08	16.60	54.00	12.92	AV	Vertic	PASS

Transmit at 5260MHz by 802.11a with Ant1



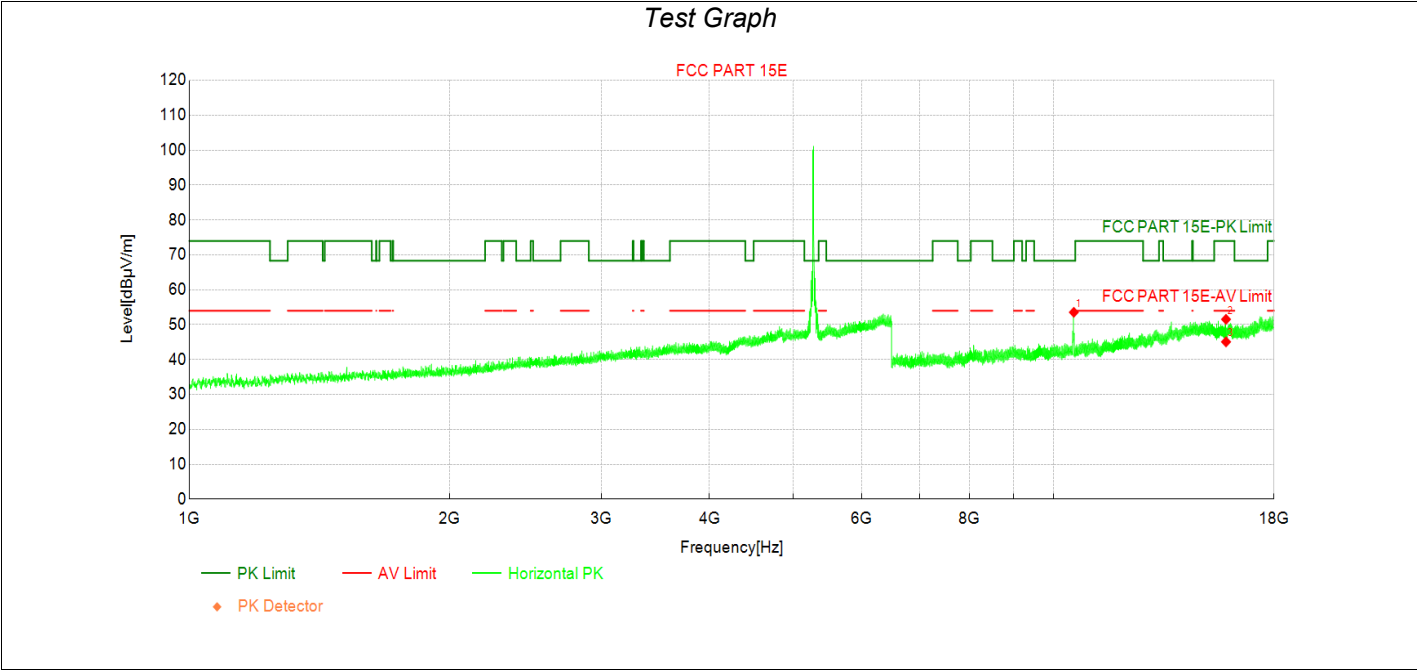
Data List									
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1	10520.00	45.53	53.84	8.31	68.30	14.46	PK	Horizo	PASS
2	15780.00	28.38	45.08	16.70	54.00	8.92	AV	Horizo	PASS
3	15784.33	36.84	53.54	16.70	74.00	20.46	PK	Horizo	PASS

Transmit at 5260MHz by 802.11a with Ant1



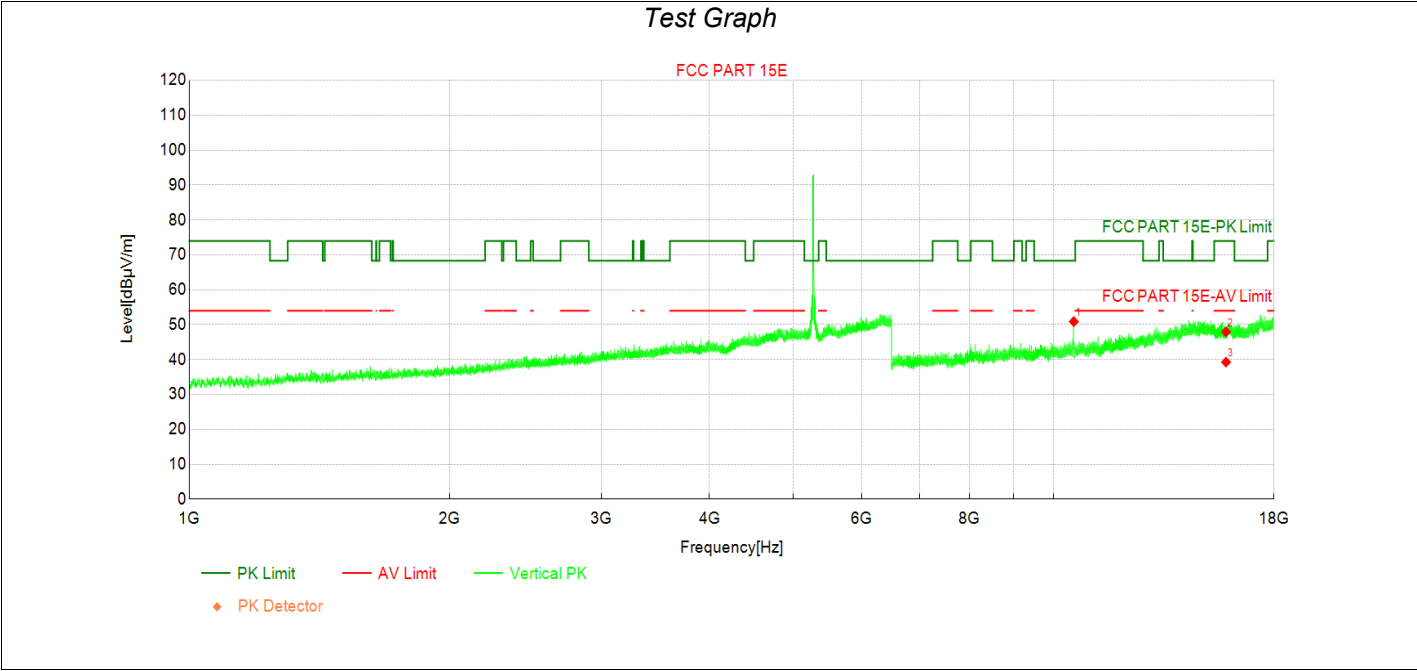
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1	10520.00	41.30	49.61	8.31	68.30	18.69	PK	Vertic	PASS
2	15780.00	30.95	47.65	16.70	74.00	26.35	PK	Vertic	PASS
3	15780.00	23.00	39.70	16.70	54.00	14.30	AV	Vertic	PASS

Transmit at 5280MHz by 802.11a with Ant1



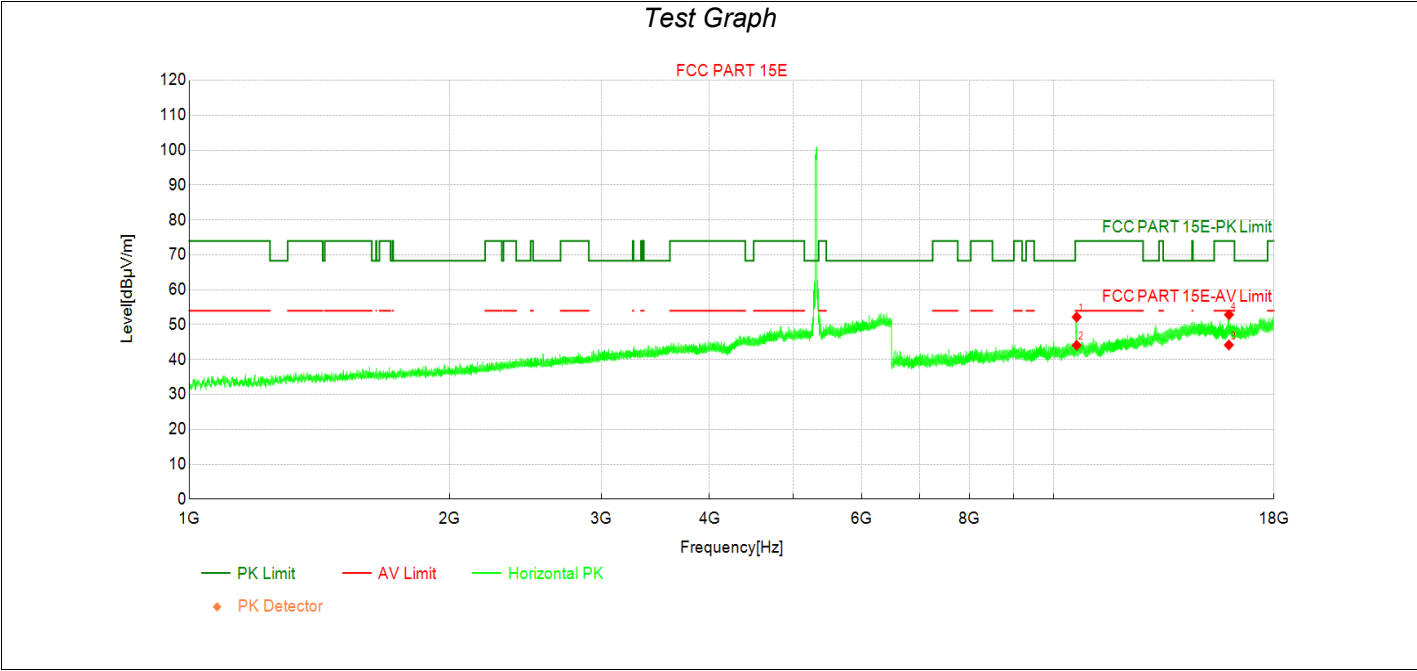
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1	10559.98	45.15	53.54	8.39	68.30	14.76	PK	Horizo	PASS
2	15840.00	34.69	51.53	16.84	74.00	22.47	PK	Horizo	PASS
3	15840.00	28.23	45.07	16.84	54.00	8.93	AV	Horizo	PASS

Transmit at 5280MHz by 802.11a with Ant1



Data List									
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1	10559.50	42.49	50.88	8.39	68.30	17.42	PK	Vertic	PASS
2	15840.00	31.11	47.95	16.84	74.00	26.05	PK	Vertic	PASS
3	15840.00	22.44	39.28	16.84	54.00	14.72	AV	Vertic	PASS

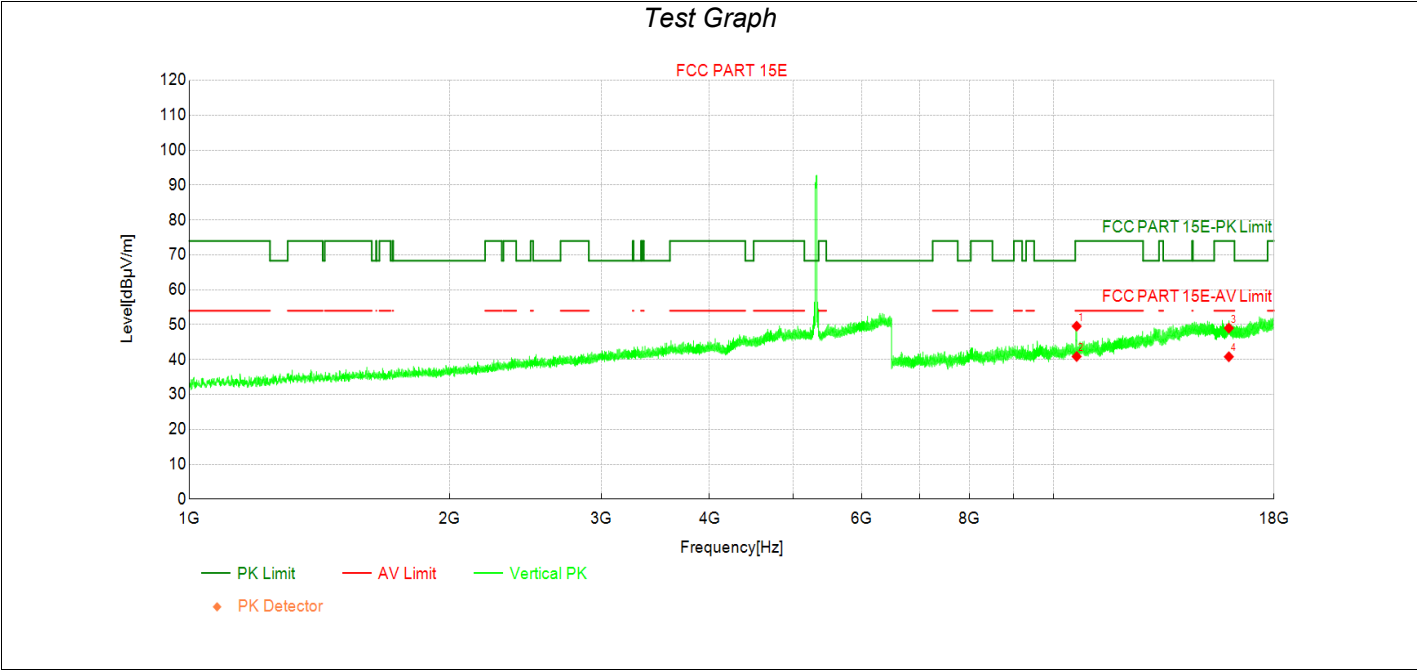
Transmit at 5320MHz by 802.11a with Ant1



Data List

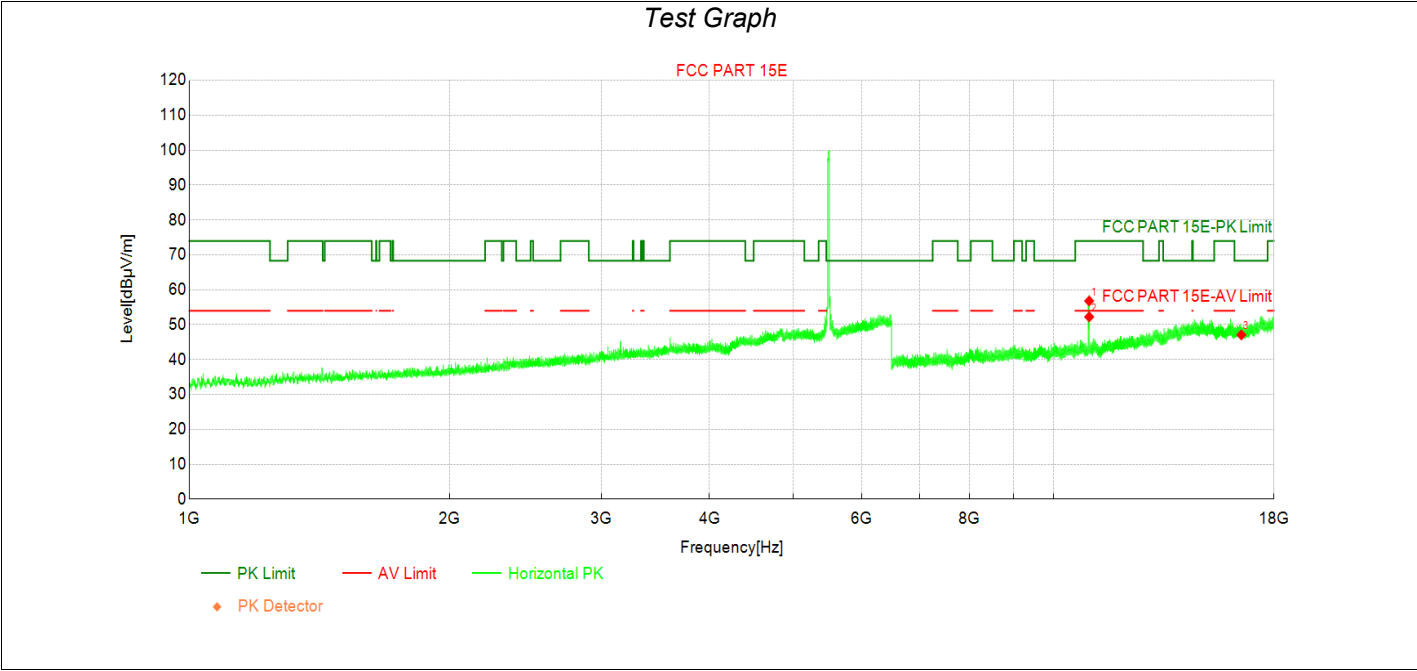
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1	10640.00	43.74	52.17	8.43	74.00	21.83	PK	Horizo	PASS
2	10640.00	35.66	44.09	8.43	54.00	9.91	AV	Horizo	PASS
3	15960.00	26.90	44.17	17.27	54.00	9.83	AV	Horizo	PASS
4	15964.02	35.55	52.84	17.29	74.00	21.16	PK	Horizo	PASS

Transmit at 5320MHz by 802.11a with Ant1



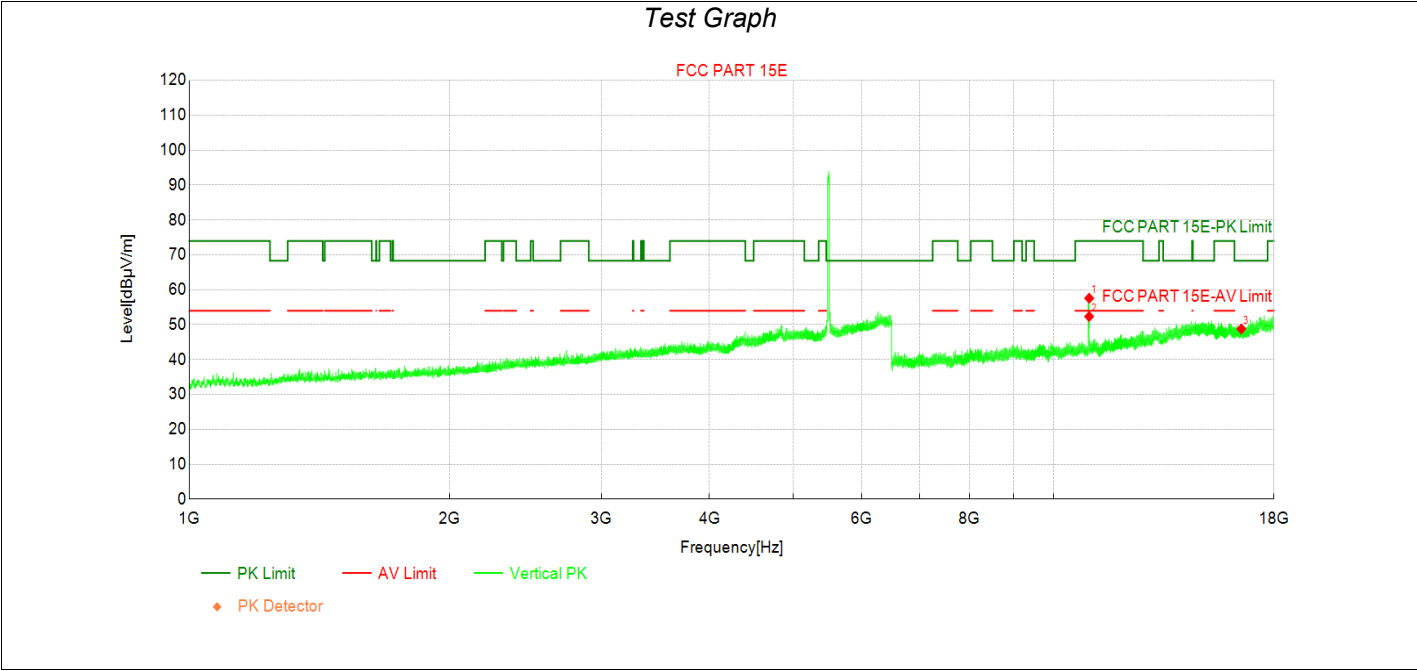
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1	10640.00	41.13	49.56	8.43	74.00	24.44	PK	Vertic	PASS
2	10640.00	32.44	40.87	8.43	54.00	13.13	AV	Vertic	PASS
3	15960.00	31.75	49.02	17.27	74.00	24.98	PK	Vertic	PASS
4	15960.00	23.54	40.81	17.27	54.00	13.19	AV	Vertic	PASS

Transmit at 5500MHz by 802.11a with Ant1



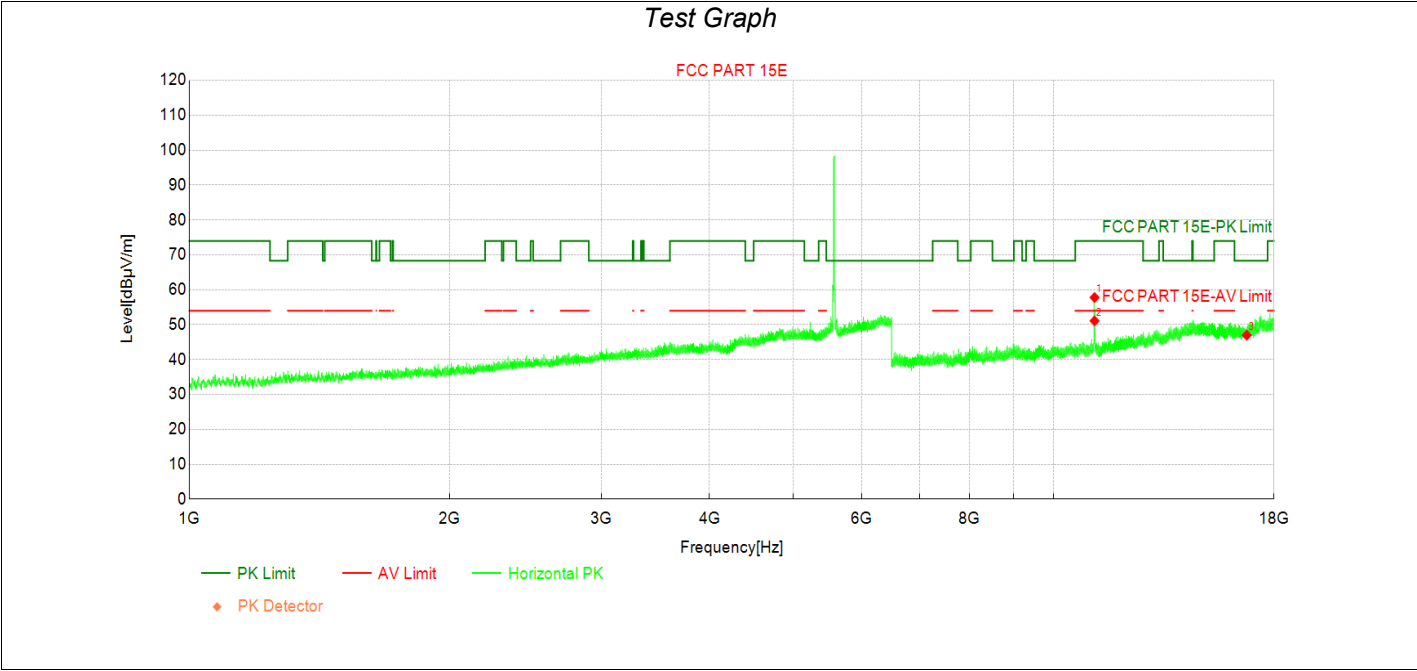
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	47.30	56.79	9.49	74.00	17.21	PK	Horizo	PASS
2	11000.33	42.73	52.22	9.49	54.00	1.78	AV	Horizo	PASS
3	16500.00	29.56	47.07	17.51	68.30	21.23	PK	Horizo	PASS

Transmit at 5500MHz by 802.11a with Ant1



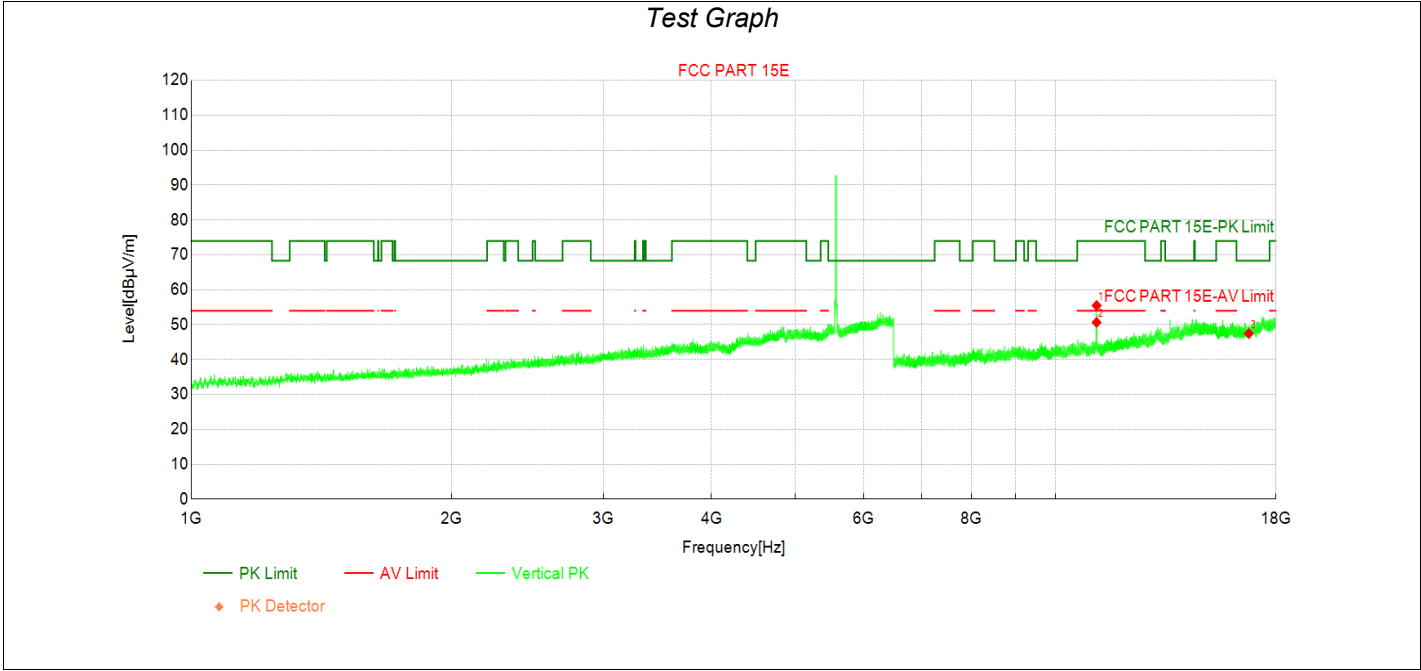
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	48.08	57.57	9.49	74.00	16.43	PK	Vertic	PASS
2	11000.00	42.84	52.33	9.49	54.00	1.67	AV	Vertic	PASS
3	16500.00	31.27	48.78	17.51	68.30	19.52	PK	Vertic	PASS

Transmit at 5580MHz by 802.11a with Ant1



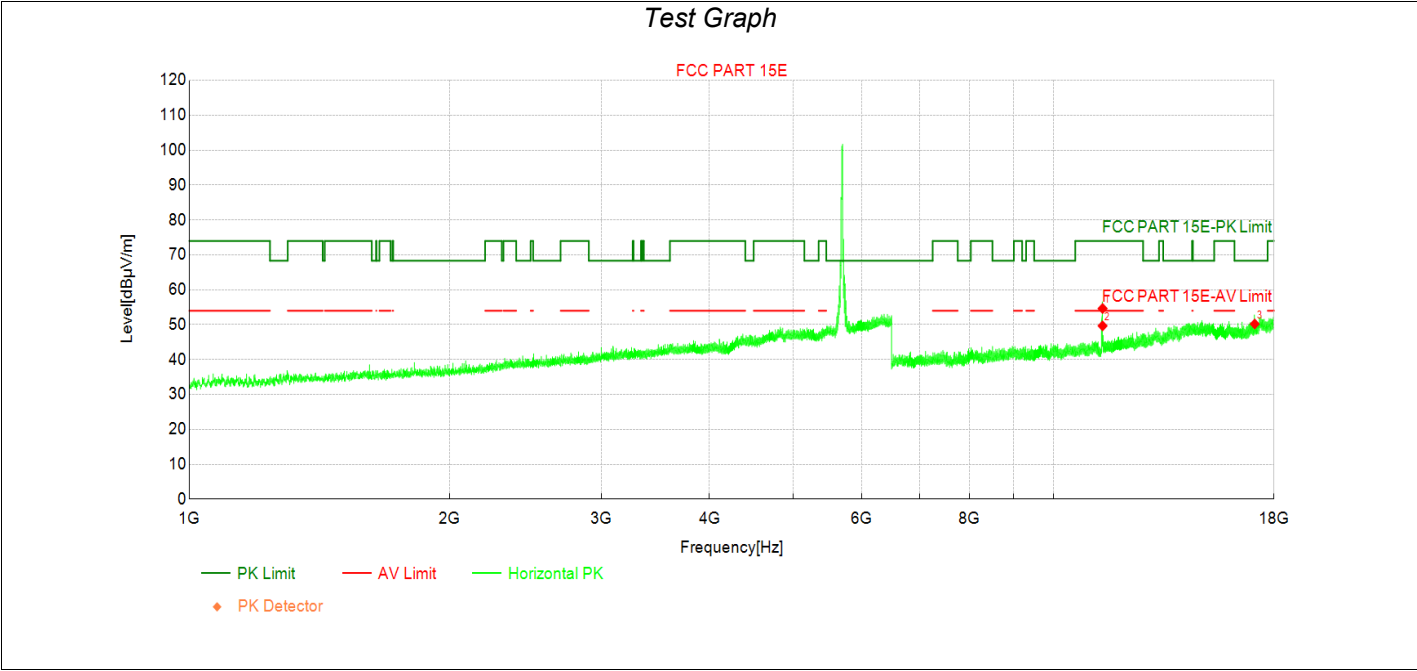
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11159.90	48.25	57.78	9.53	74.00	16.22	PK	Horizo	PASS
2	11160.00	41.55	51.08	9.53	54.00	2.92	AV	Horizo	PASS
3	16740.00	29.01	46.97	17.96	68.30	21.33	PK	Horizo	PASS

Transmit at 5580MHz by 802.11a with Ant1



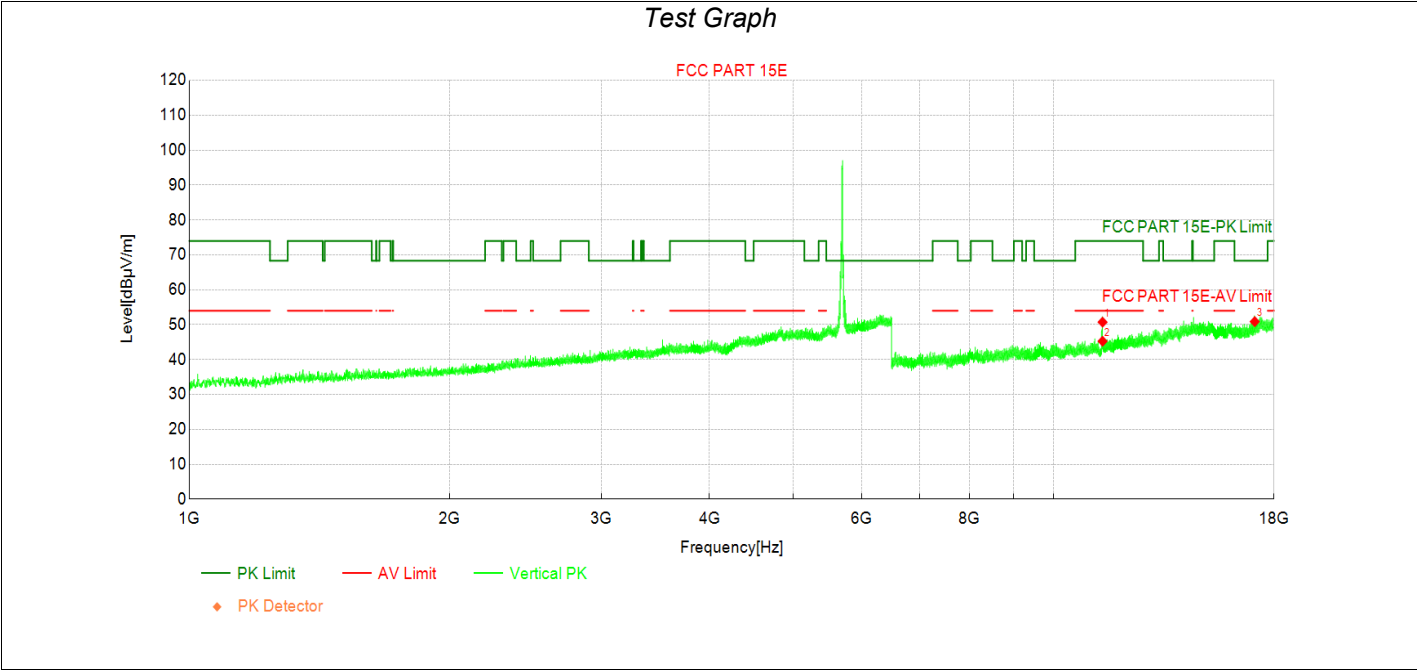
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	45.94	55.47	9.53	74.00	18.53	PK	Vertic	PASS
2	11160.00	41.11	50.64	9.53	54.00	3.36	AV	Vertic	PASS
3	16740.00	29.51	47.47	17.96	68.30	20.83	PK	Vertic	PASS

Transmit at 5700MHz by 802.11a with Ant1



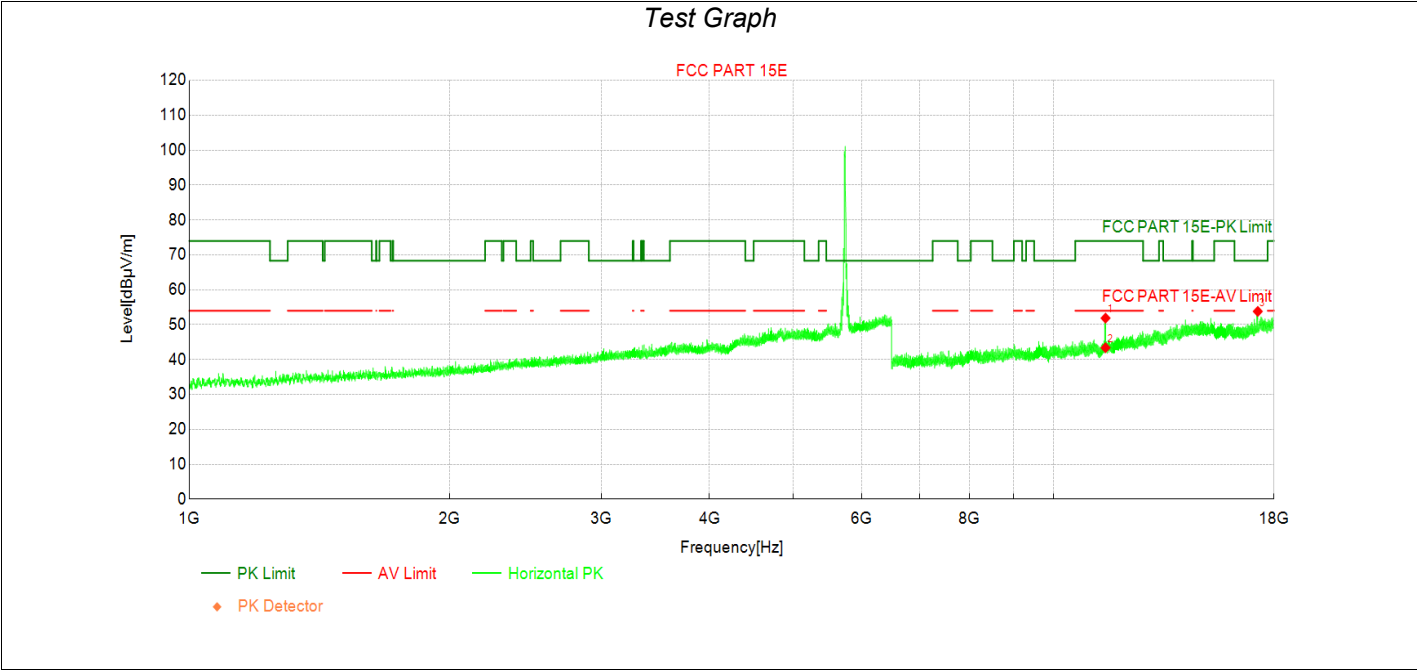
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	44.49	54.63	10.14	74.00	19.37	PK	Horizo	PASS
2	11400.00	39.52	49.66	10.14	54.00	4.34	AV	Horizo	PASS
3	17100.00	31.11	50.19	19.08	68.30	18.11	PK	Horizo	PASS

Transmit at 5700MHz by 802.11a with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	40.58	50.72	10.14	74.00	23.28	PK	Vertic	PASS
2	11400.00	35.11	45.25	10.14	54.00	8.75	AV	Vertic	PASS
3	17100.00	31.79	50.87	19.08	68.30	17.43	PK	Vertic	PASS

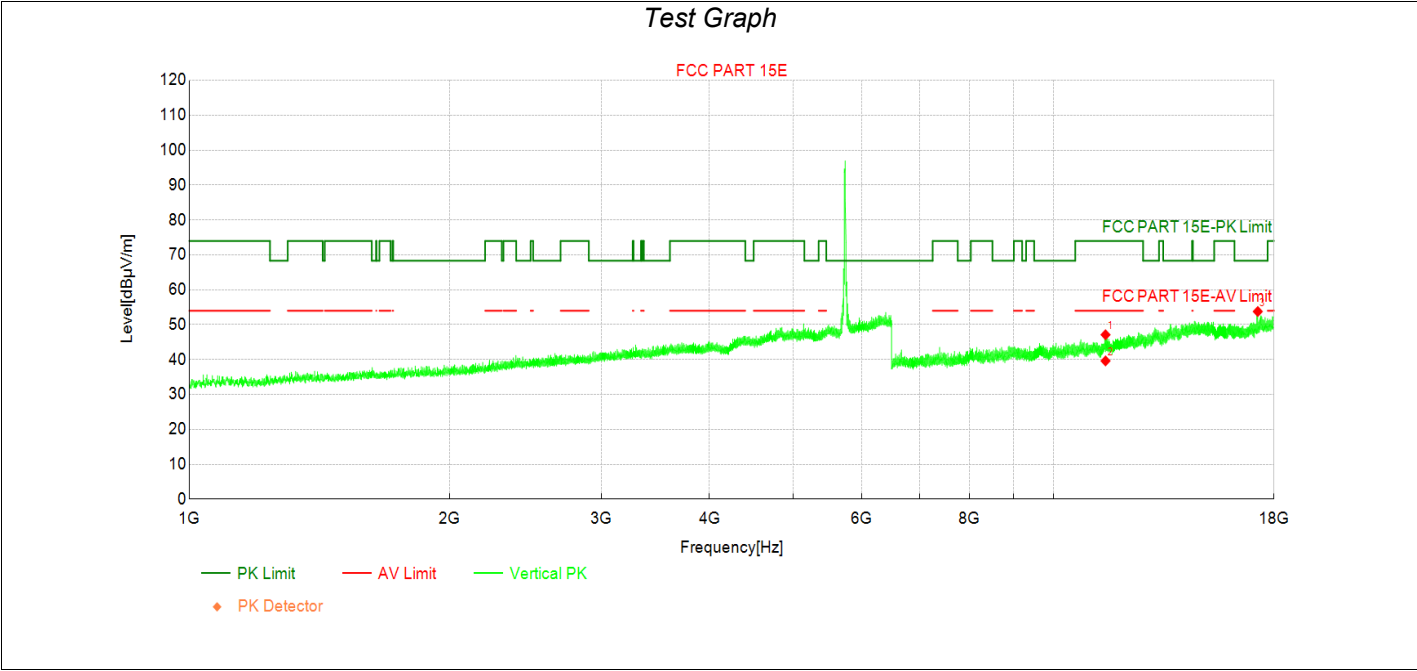
Transmit at 5745MHz by 802.11a with Ant1



Data List

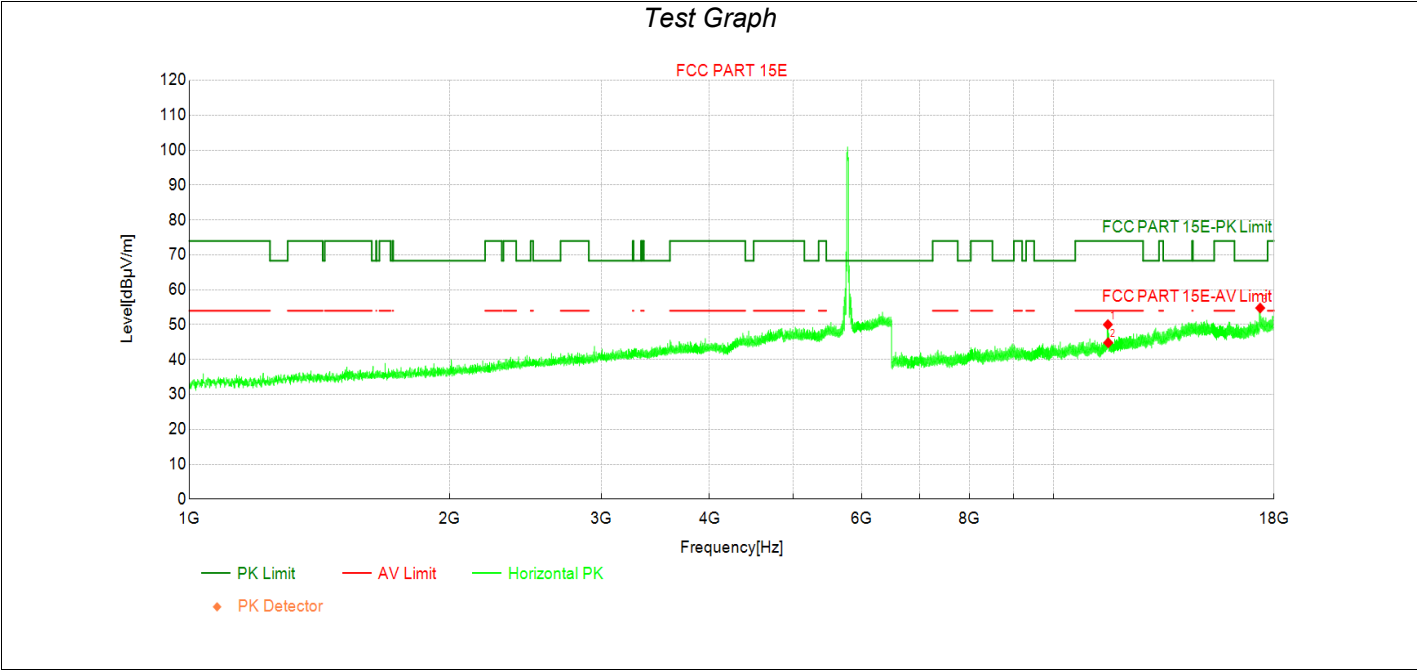
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	41.59	51.87	10.28	74.00	22.13	PK	Horizo	PASS
2	11490.00	33.10	43.38	10.28	54.00	10.62	AV	Horizo	PASS
3	17239.56	35.10	53.79	18.69	68.30	14.51	PK	Horizo	PASS

Transmit at 5745MHz by 802.11a with Ant1



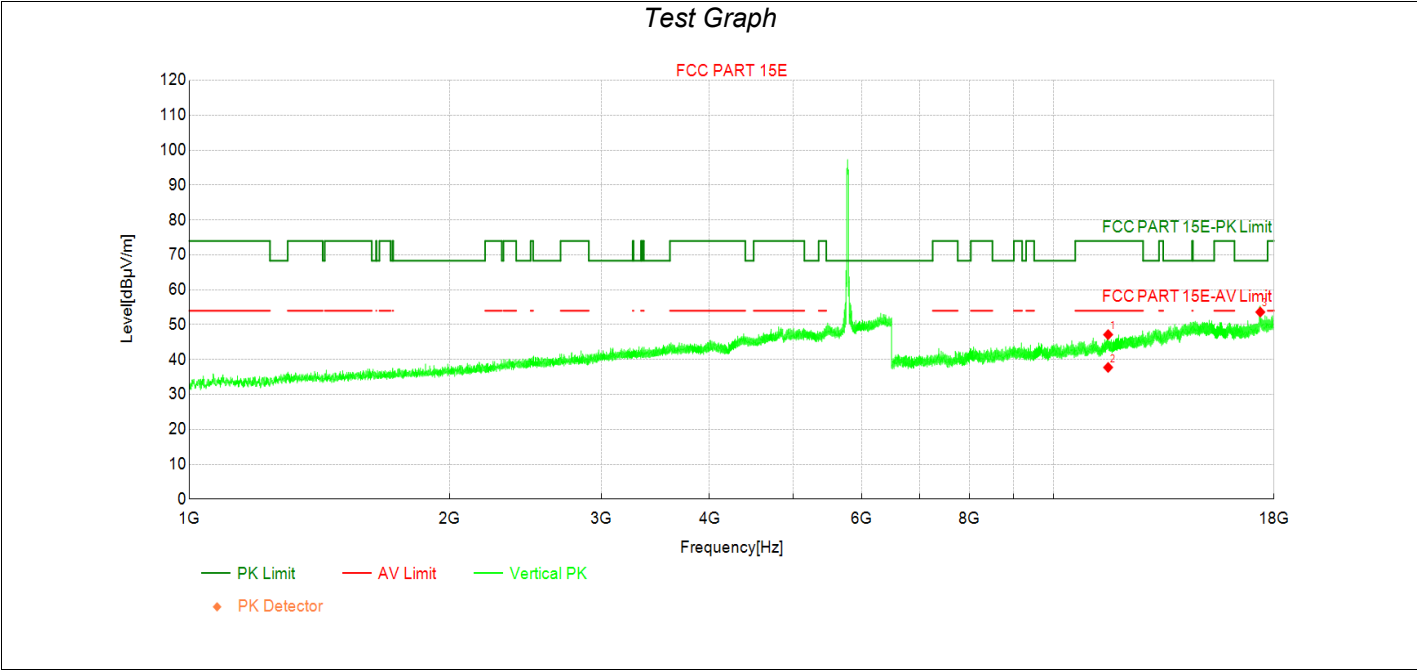
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	36.83	47.11	10.28	74.00	26.89	PK	Vertic	PASS
2	11490.00	29.33	39.61	10.28	54.00	14.39	AV	Vertic	PASS
3	17239.08	35.08	53.77	18.69	68.30	14.53	PK	Vertic	PASS

Transmit at 5785MHz by 802.11a with Ant1



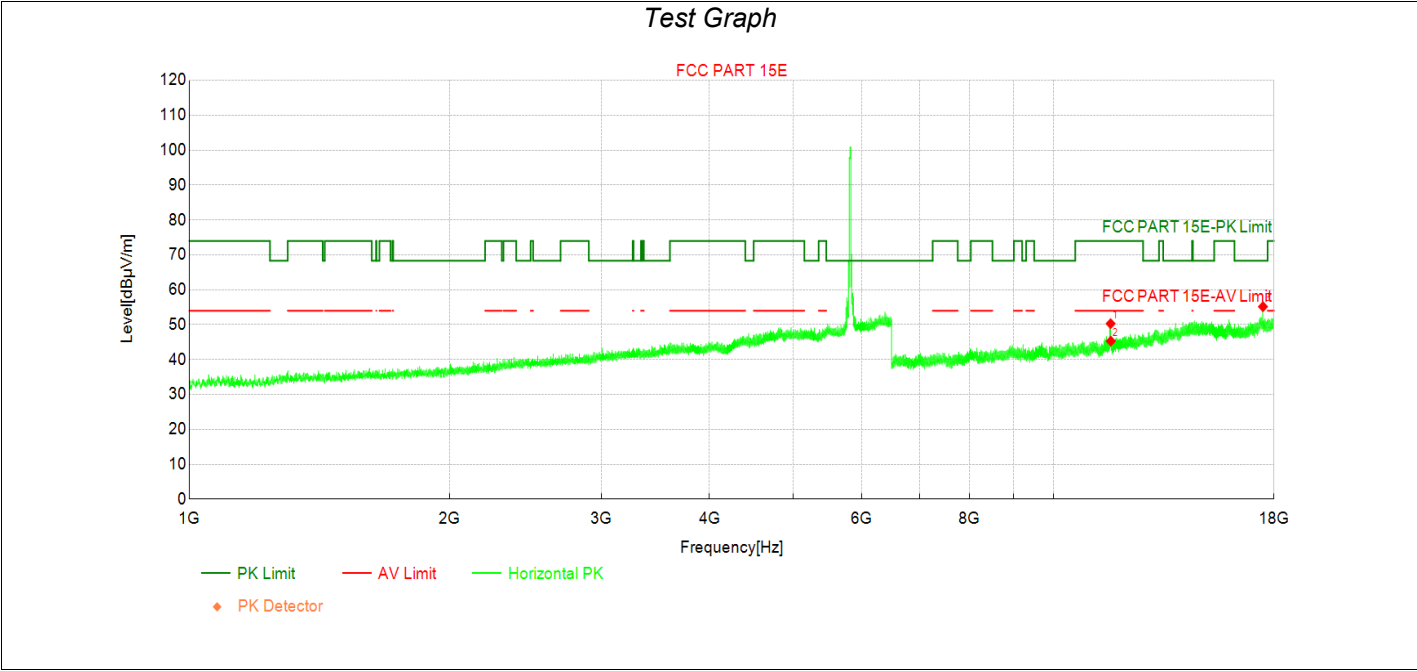
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11562.40	39.28	50.02	10.74	74.00	23.98	PK	Horizo	PASS
2	11573.90	33.99	44.82	10.83	54.00	9.18	AV	Horizo	PASS
3	17350.25	35.17	54.77	19.60	68.30	13.53	PK	Horizo	PASS

Transmit at 5785MHz by 802.11a with Ant1



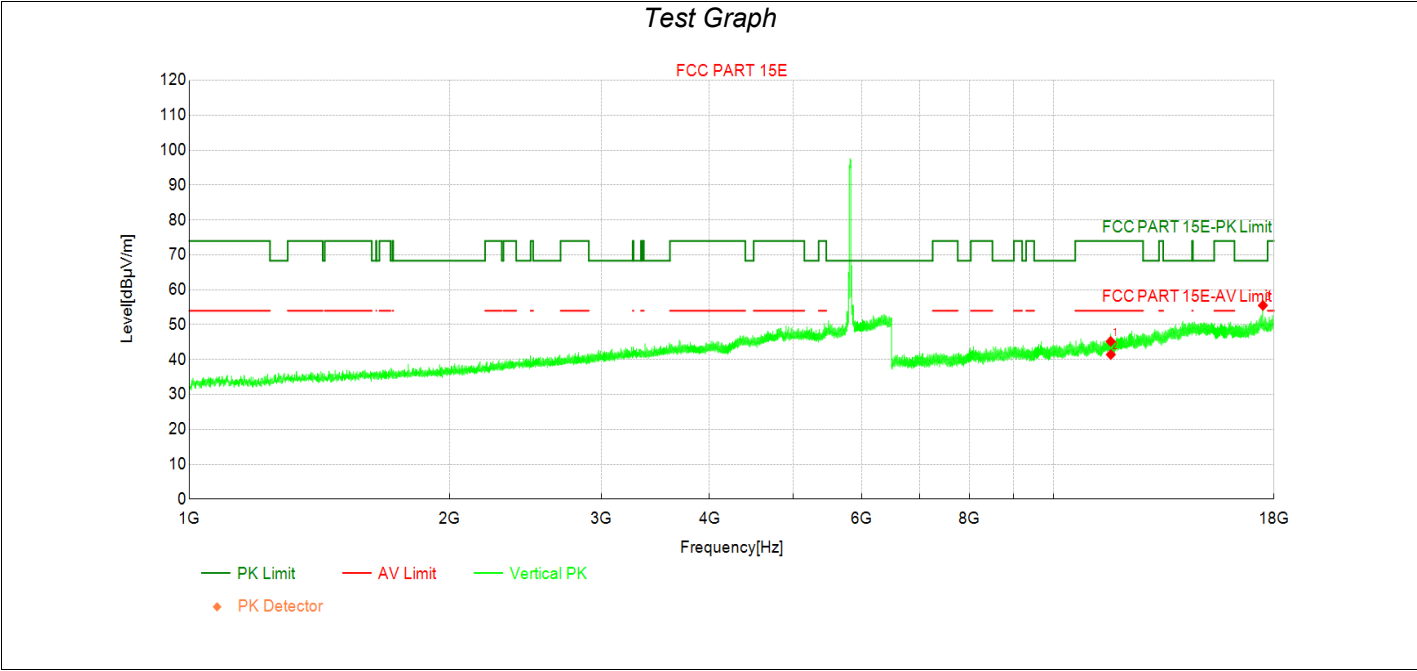
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	36.35	47.14	10.79	74.00	26.86	PK	Vertic	PASS
2	11570.00	26.95	37.74	10.79	54.00	16.26	AV	Vertic	PASS
3	17355.00	33.93	53.60	19.67	68.30	14.70	PK	Vertic	PASS

Transmit at 5825MHz by 802.11a with Ant1



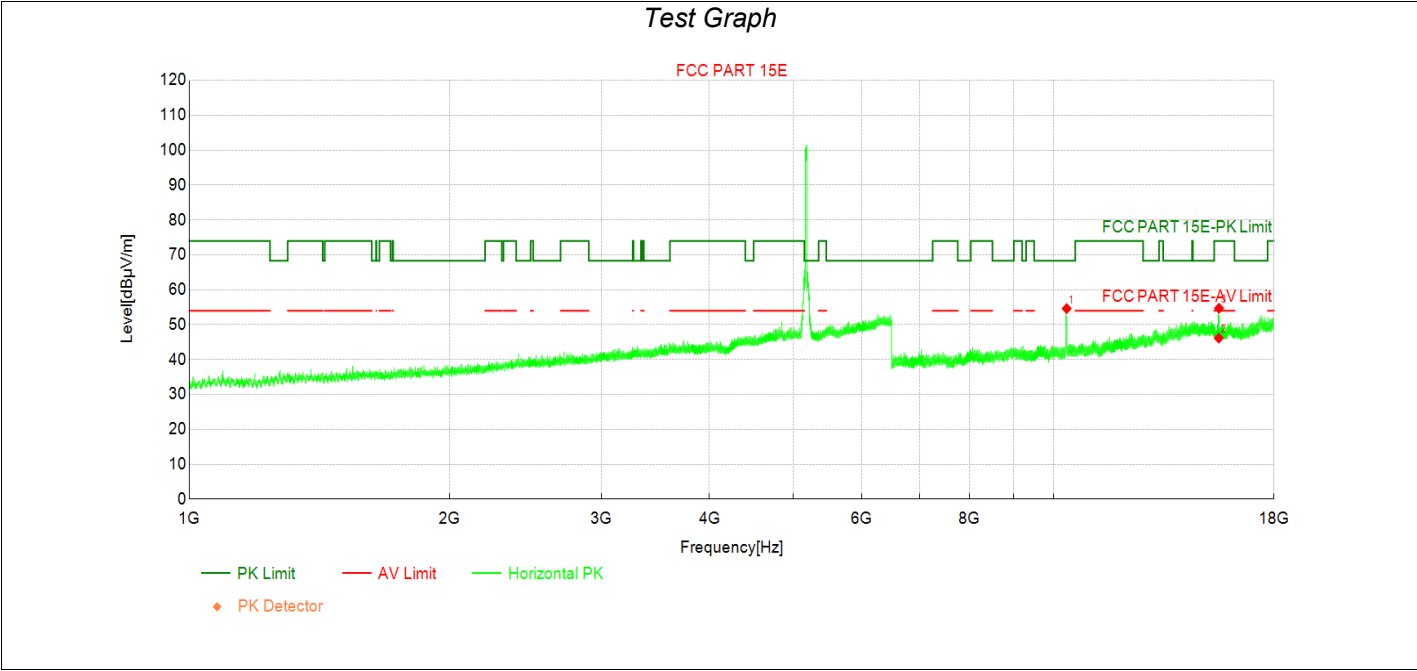
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11646.73	39.25	50.29	11.04	74.00	23.71	PK	Horizo	PASS
2	11653.92	34.25	45.28	11.03	54.00	8.72	AV	Horizo	PASS
3	17479.15	35.12	55.15	20.03	68.30	13.15	PK	Horizo	PASS

Transmit at 5825MHz by 802.11a with Ant1



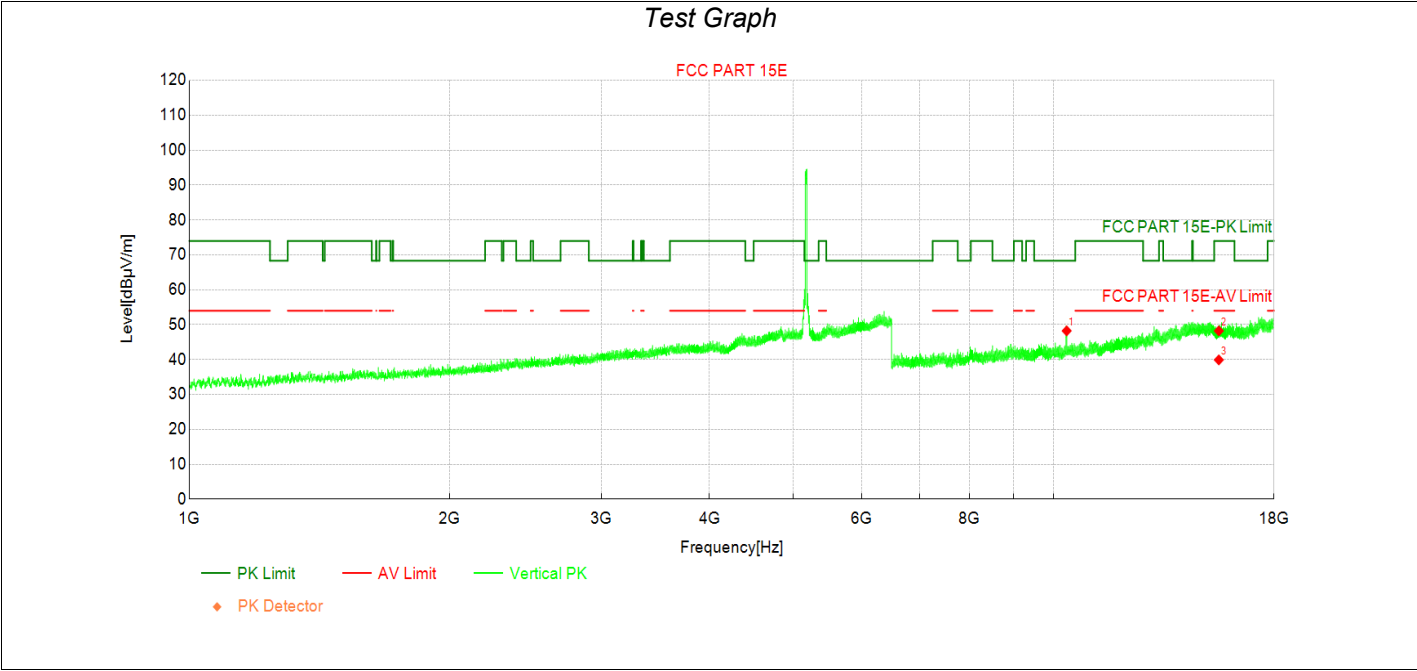
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	34.16	45.19	11.03	74.00	28.81	PK	Vertic	PASS
2	11653.92	30.41	41.44	11.03	54.00	12.56	AV	Vertic	PASS
3	17479.15	35.48	55.51	20.03	68.30	12.79	PK	Vertic	PASS

Transmit at 5180MHz by 802.11ax(20MHz) with Ant1



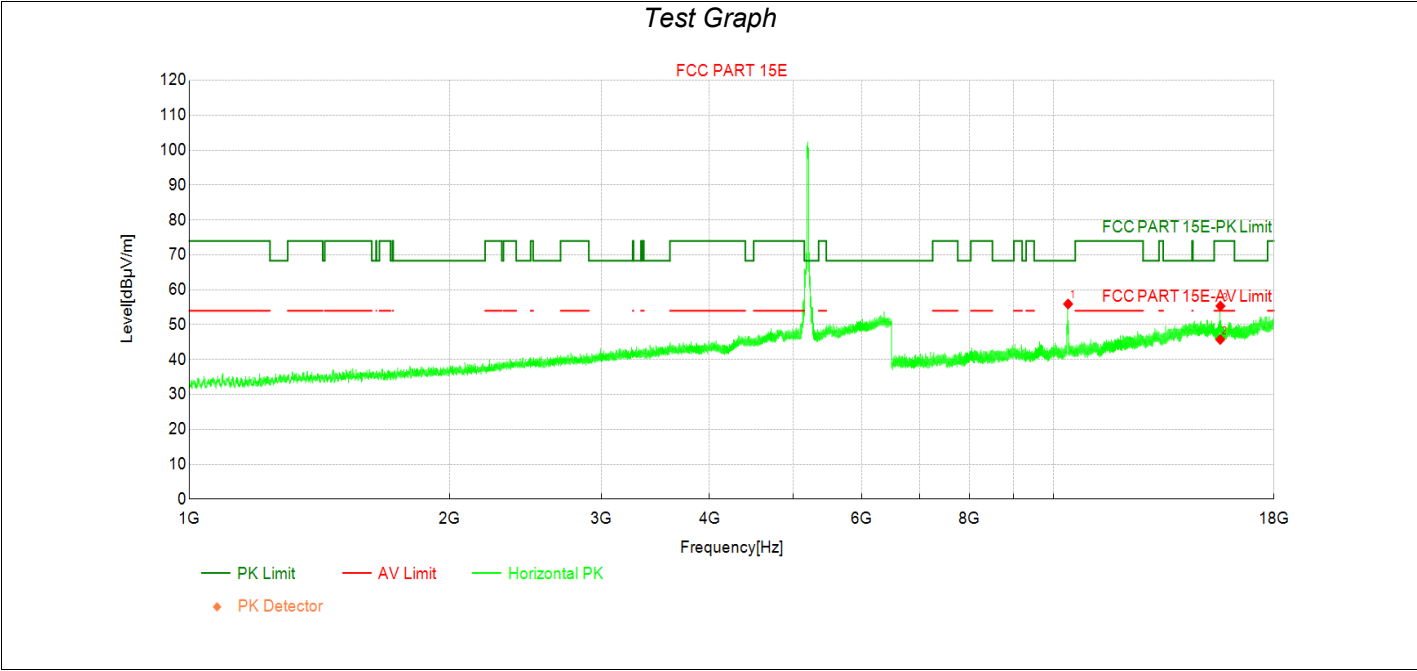
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10359.69	46.96	54.60	7.64	68.30	13.70	PK	Horizo	PASS
2	15537.56	29.60	46.14	16.54	54.00	7.86	AV	Horizo	PASS
3	15547.63	38.17	54.70	16.53	74.00	19.30	PK	Horizo	PASS

Transmit at 5180MHz by 802.11ax(20MHz) with Ant1



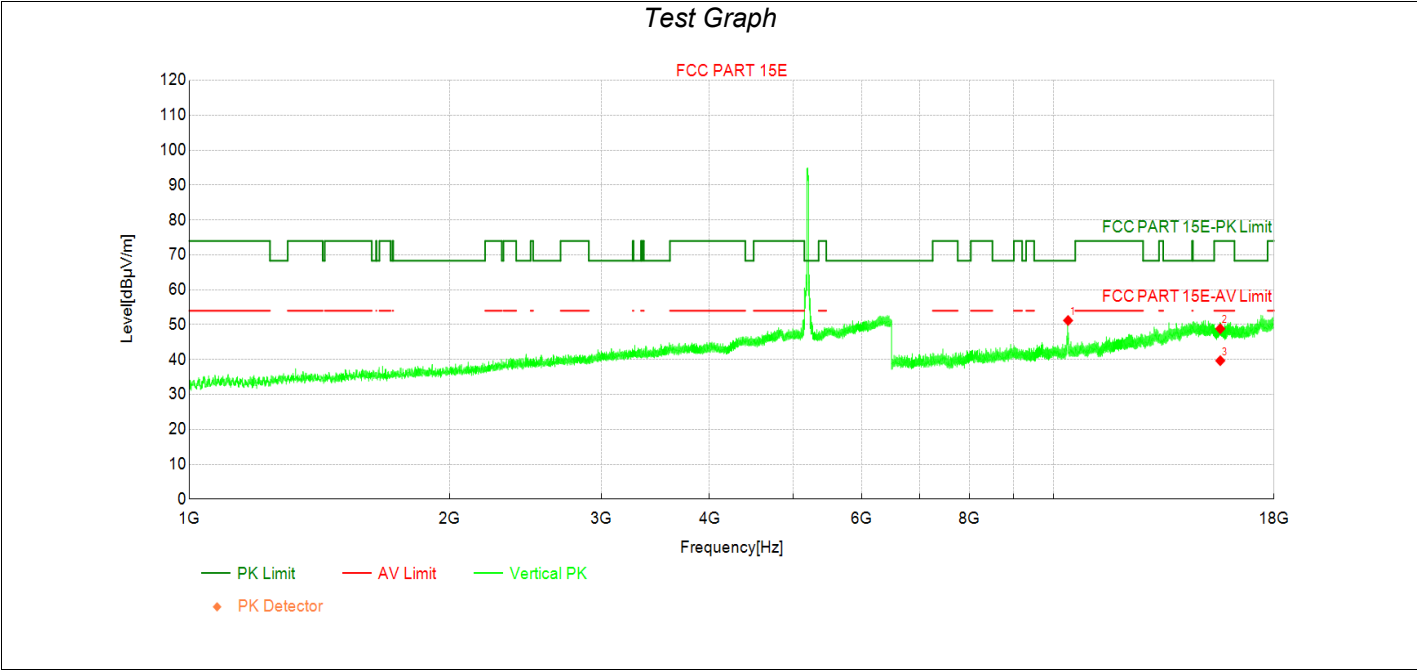
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	40.58	48.22	7.64	68.30	20.08	PK	Vertic	PASS
2	15540.00	31.68	48.21	16.53	74.00	25.79	PK	Vertic	PASS
3	15540.00	23.37	39.90	16.53	54.00	14.10	AV	Vertic	PASS

Transmit at 5200MHz by 802.11ax(20MHz) with Ant1



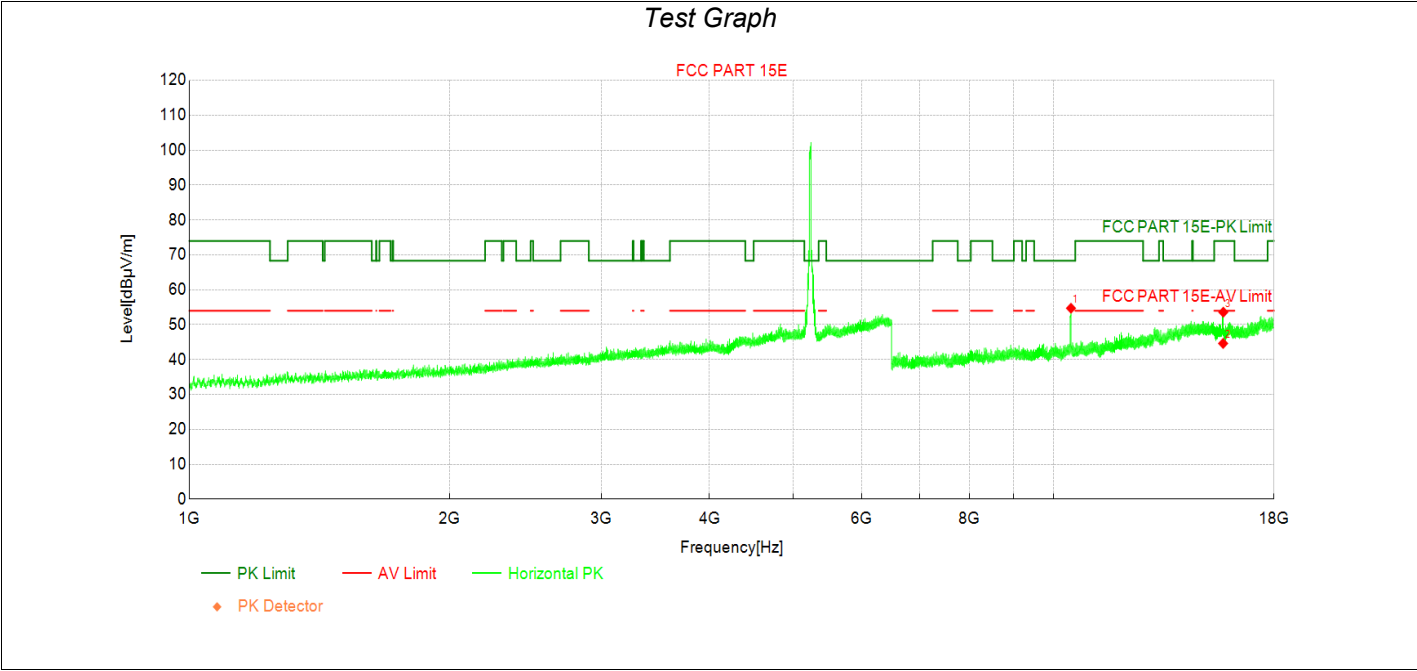
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10399.46	48.21	55.92	7.71	68.30	12.38	PK	Horizo	PASS
2	15600.00	29.26	45.74	16.48	54.00	8.26	AV	Horizo	PASS
3	15607.52	38.85	55.34	16.49	74.00	18.66	PK	Horizo	PASS

Transmit at 5200MHz by 802.11ax(20MHz) with Ant1



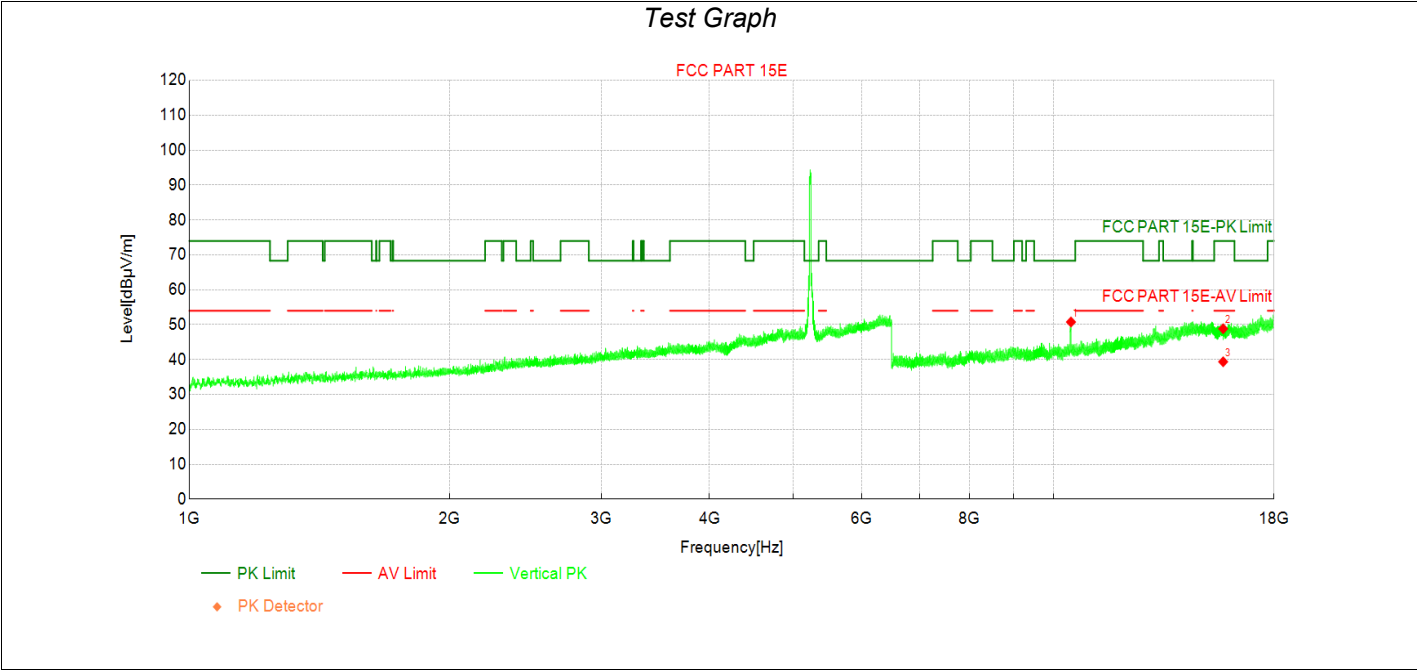
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10399.94	43.48	51.19	7.71	68.30	17.11	PK	Vertic	PASS
2	15600.00	32.35	48.83	16.48	74.00	25.17	PK	Vertic	PASS
3	15600.00	23.19	39.67	16.48	54.00	14.33	AV	Vertic	PASS

Transmit at 5240MHz by 802.11ax(20MHz) with Ant1



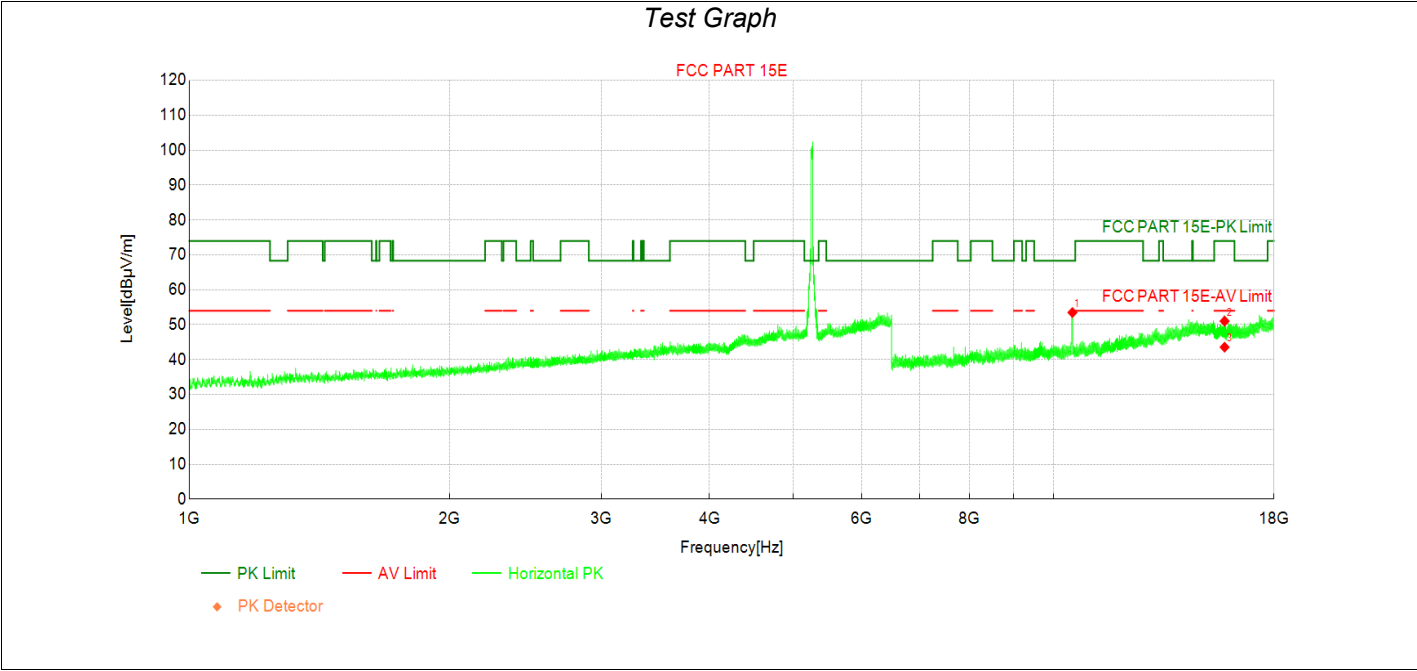
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10479.48	46.54	54.70	8.16	68.30	13.60	PK	Horizo	PASS
2	15717.73	28.01	44.61	16.60	54.00	9.39	AV	Horizo	PASS
3	15726.35	36.97	53.58	16.61	74.00	20.42	PK	Horizo	PASS

Transmit at 5240MHz by 802.11ax(20MHz) with Ant1



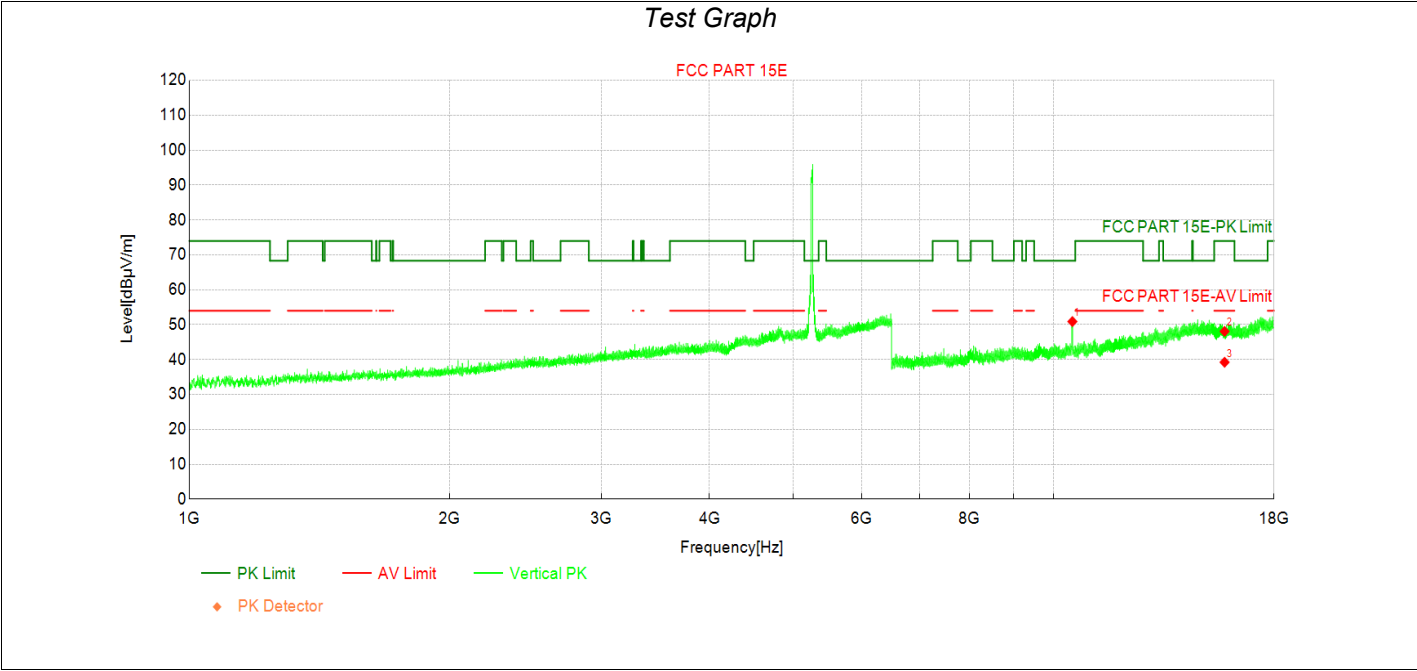
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10479.48	42.60	50.76	8.16	68.30	17.54	PK	Vertic	PASS
2	15720.00	32.23	48.83	16.60	74.00	25.17	PK	Vertic	PASS
3	15720.00	22.76	39.36	16.60	54.00	14.64	AV	Vertic	PASS

Transmit at 5260MHz by 802.11ax(20MHz) with Ant1



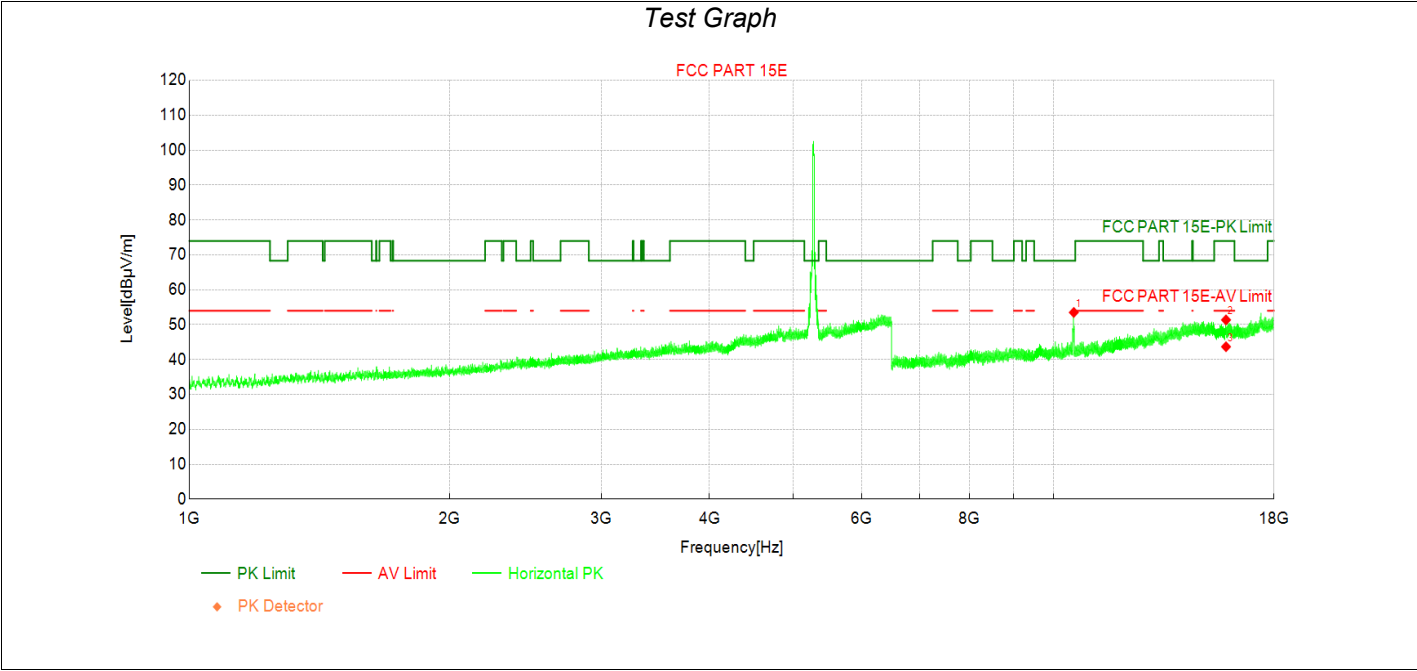
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10520.00	45.16	53.47	8.31	68.30	14.83	PK	Horizo	PASS
2	15780.00	34.32	51.02	16.70	74.00	22.98	PK	Horizo	PASS
3	15780.00	26.85	43.55	16.70	54.00	10.45	AV	Horizo	PASS

Transmit at 5260MHz by 802.11ax(20MHz) with Ant1



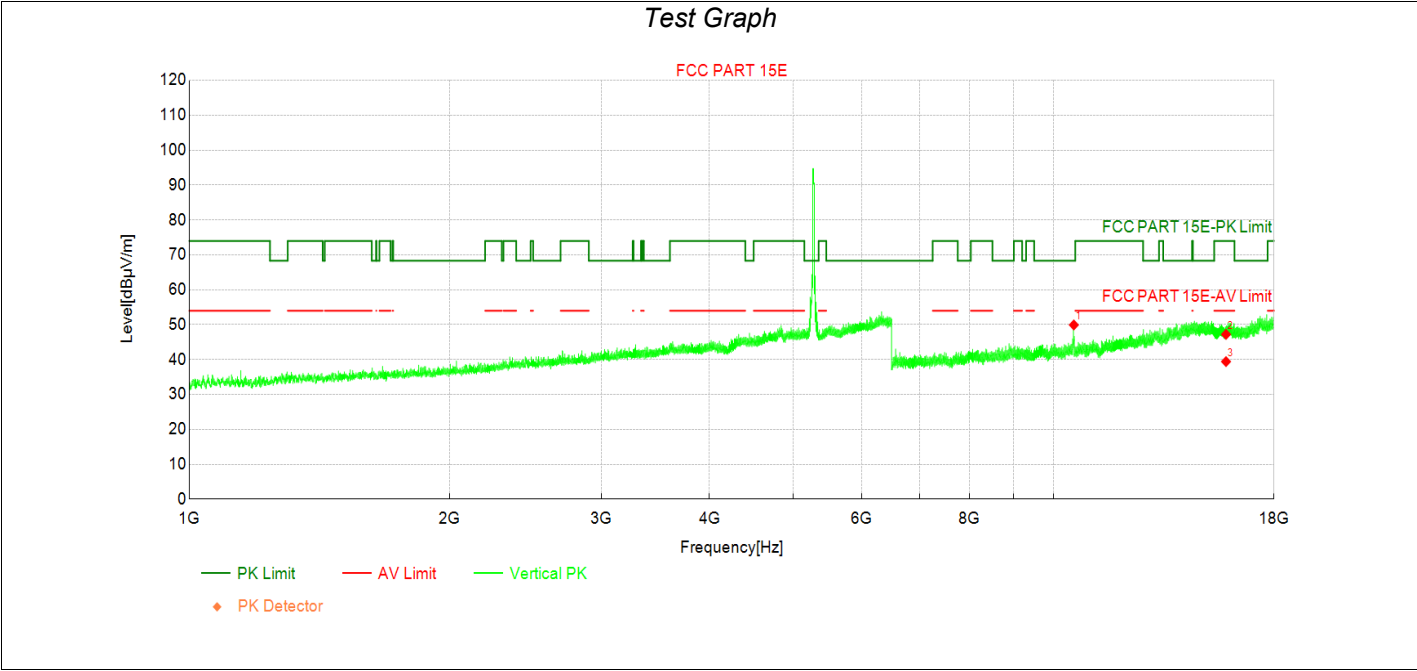
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10519.73	42.58	50.89	8.31	68.30	17.41	PK	Vertic	PASS
2	15780.00	31.38	48.08	16.70	74.00	25.92	PK	Vertic	PASS
3	15780.00	22.52	39.22	16.70	54.00	14.78	AV	Vertic	PASS

Transmit at 5280MHz by 802.11ax(20MHz) with Ant1



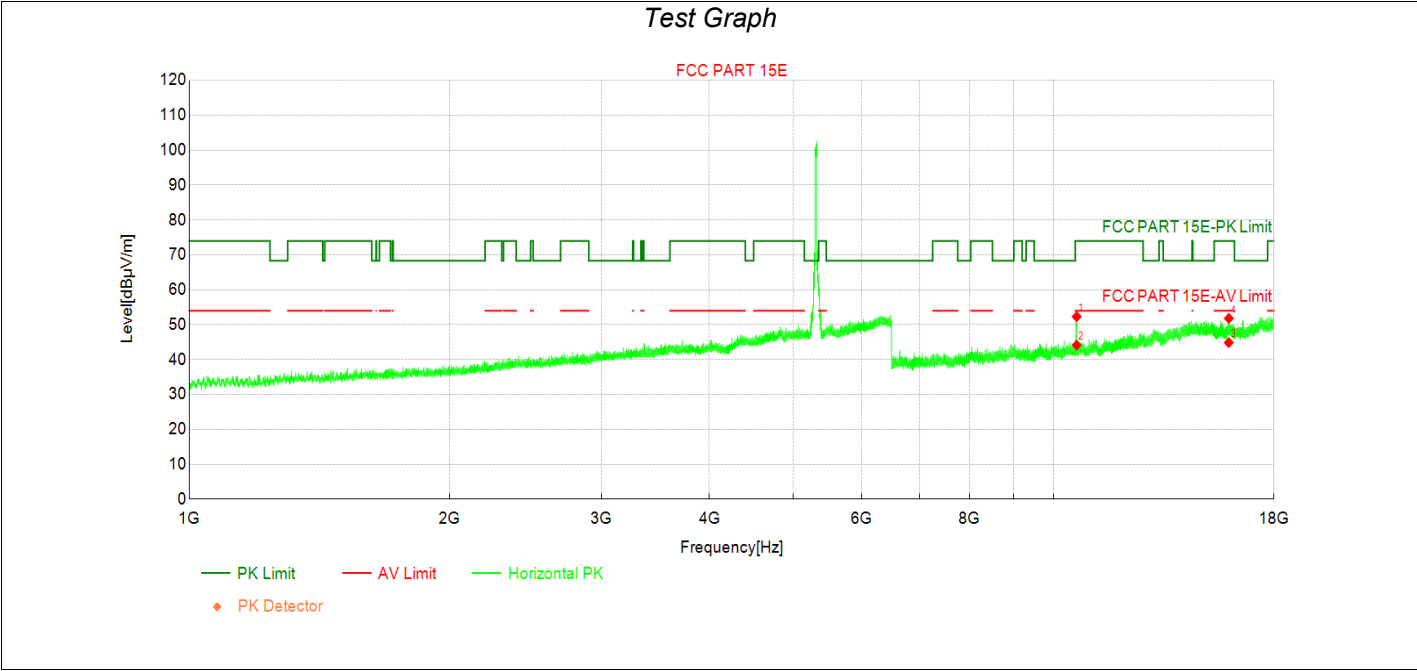
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10559.50	45.12	53.51	8.39	68.30	14.79	PK	Horizo	PASS
2	15840.00	34.52	51.36	16.84	74.00	22.64	PK	Horizo	PASS
3	15840.00	26.83	43.67	16.84	54.00	10.33	AV	Horizo	PASS

Transmit at 5280MHz by 802.11ax(20MHz) with Ant1



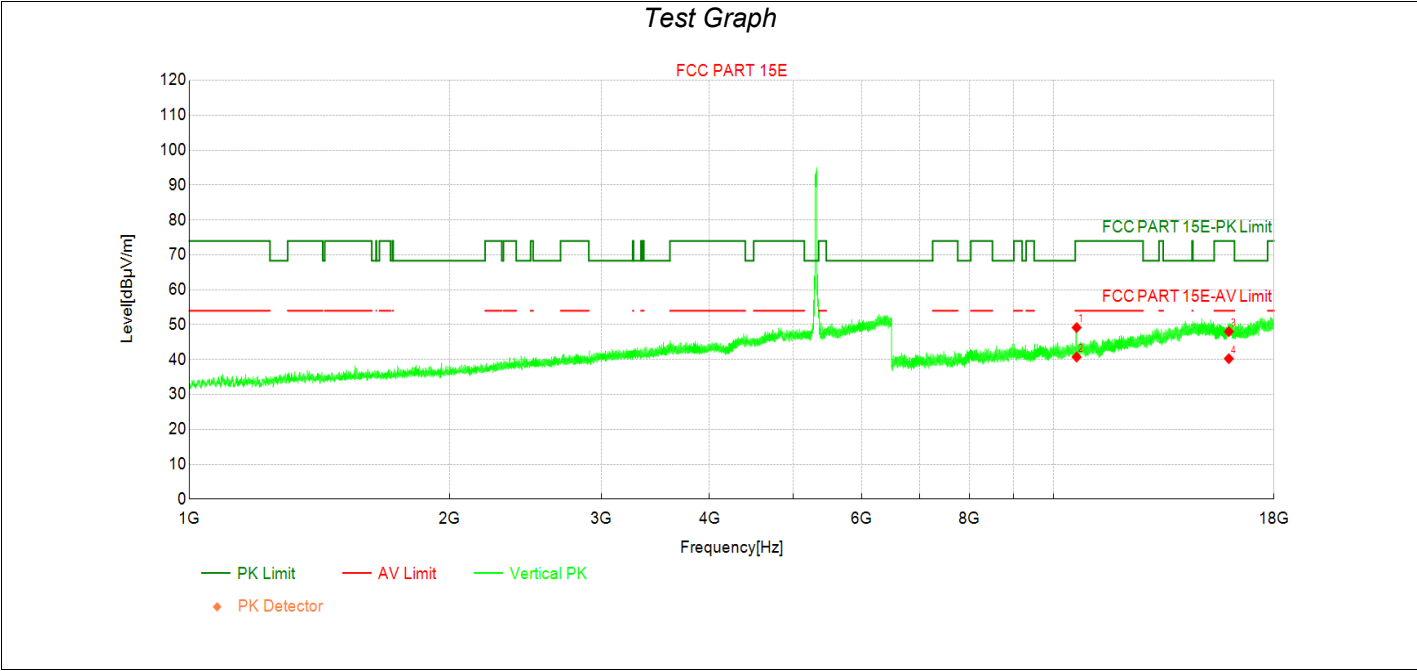
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10559.50	41.52	49.91	8.39	68.30	18.39	PK	Vertic	PASS
2	15840.00	30.37	47.21	16.84	74.00	26.79	PK	Vertic	PASS
3	15840.00	22.57	39.41	16.84	54.00	14.59	AV	Vertic	PASS

Transmit at 5320MHz by 802.11ax(20MHz) with Ant1



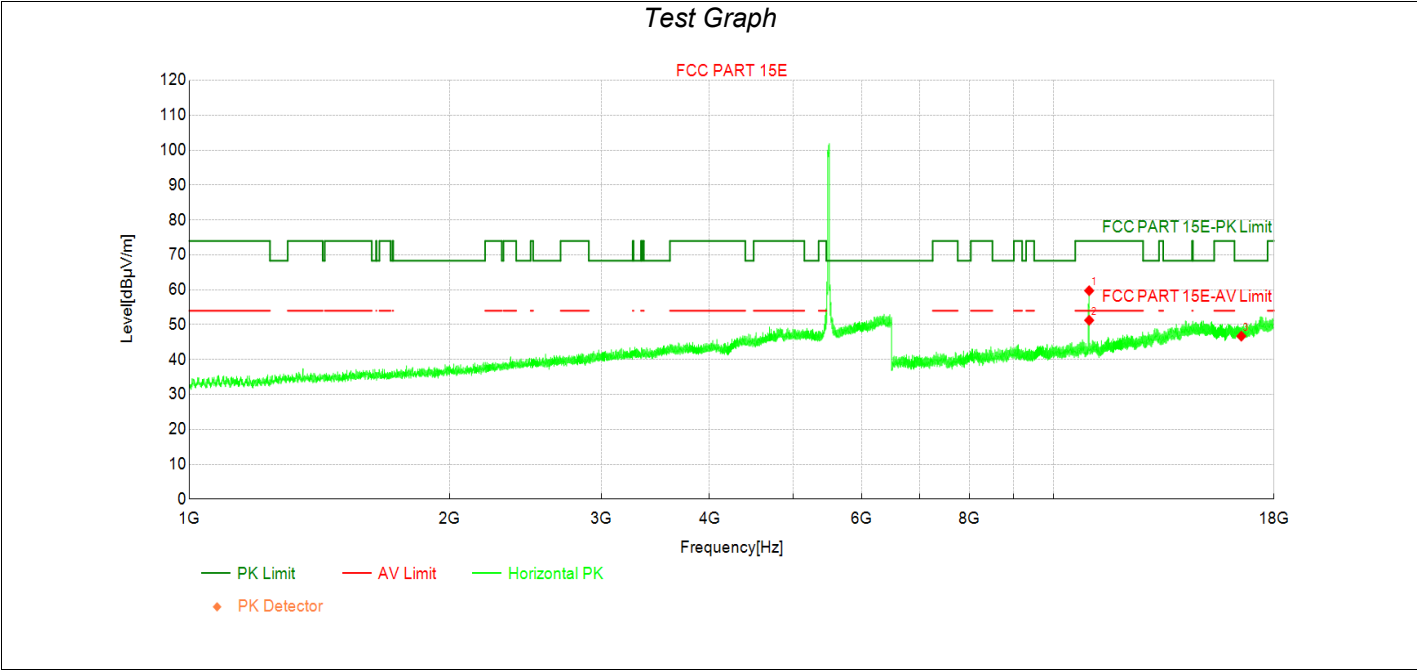
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	43.87	52.30	8.43	74.00	21.70	PK	Horizo	PASS
2	10640.00	35.72	44.15	8.43	54.00	9.85	AV	Horizo	PASS
3	15957.31	27.58	44.84	17.26	54.00	9.16	AV	Horizo	PASS
4	15960.00	34.54	51.81	17.27	74.00	22.19	PK	Horizo	PASS

Transmit at 5320MHz by 802.11ax(20MHz) with Ant1



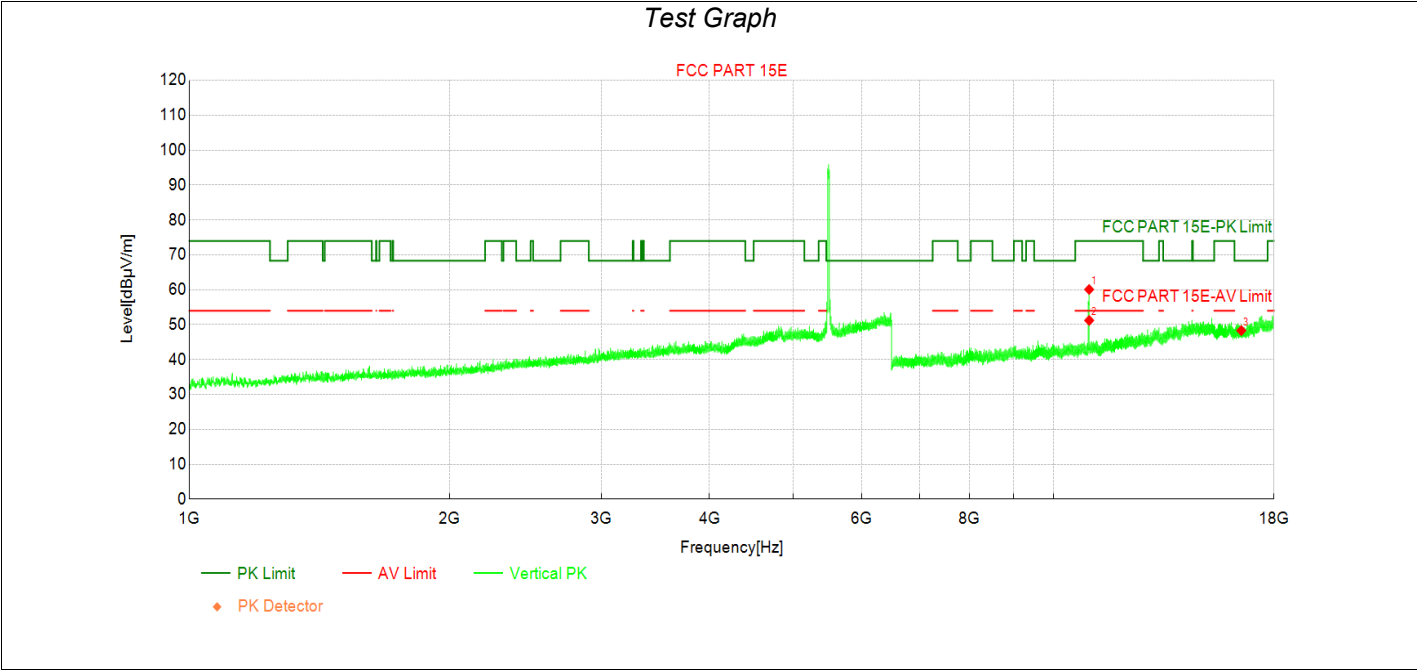
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	40.74	49.17	8.43	74.00	24.83	PK	Vertic	PASS
2	10640.00	32.29	40.72	8.43	54.00	13.28	AV	Vertic	PASS
3	15960.00	30.74	48.01	17.27	74.00	25.99	PK	Vertic	PASS
4	15960.00	22.99	40.26	17.27	54.00	13.74	AV	Vertic	PASS

Transmit at 5500MHz by 802.11ax(20MHz) with Ant1



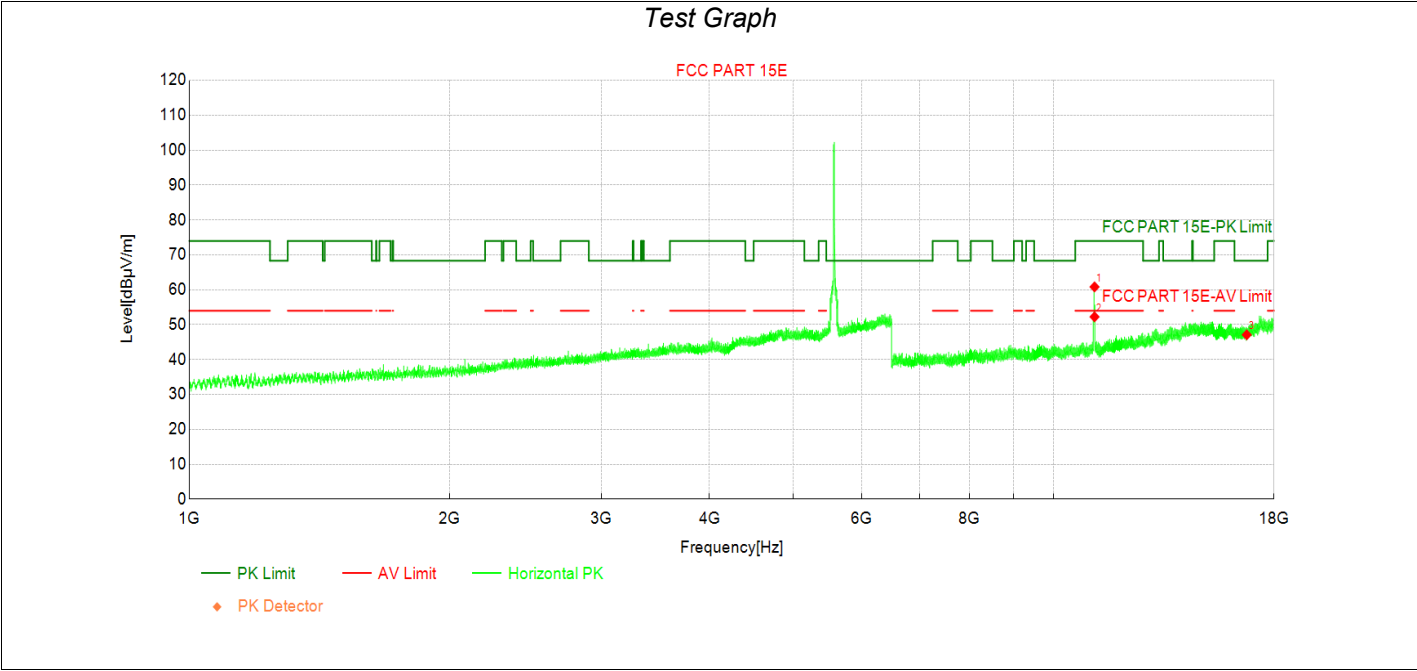
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10999.85	50.24	59.73	9.49	74.00	14.27	PK	Horizo	PASS
2	11000.00	41.76	51.25	9.49	54.00	2.75	AV	Horizo	PASS
3	16500.00	29.19	46.70	17.51	68.30	21.60	PK	Horizo	PASS

Transmit at 5500MHz by 802.11ax(20MHz) with Ant1



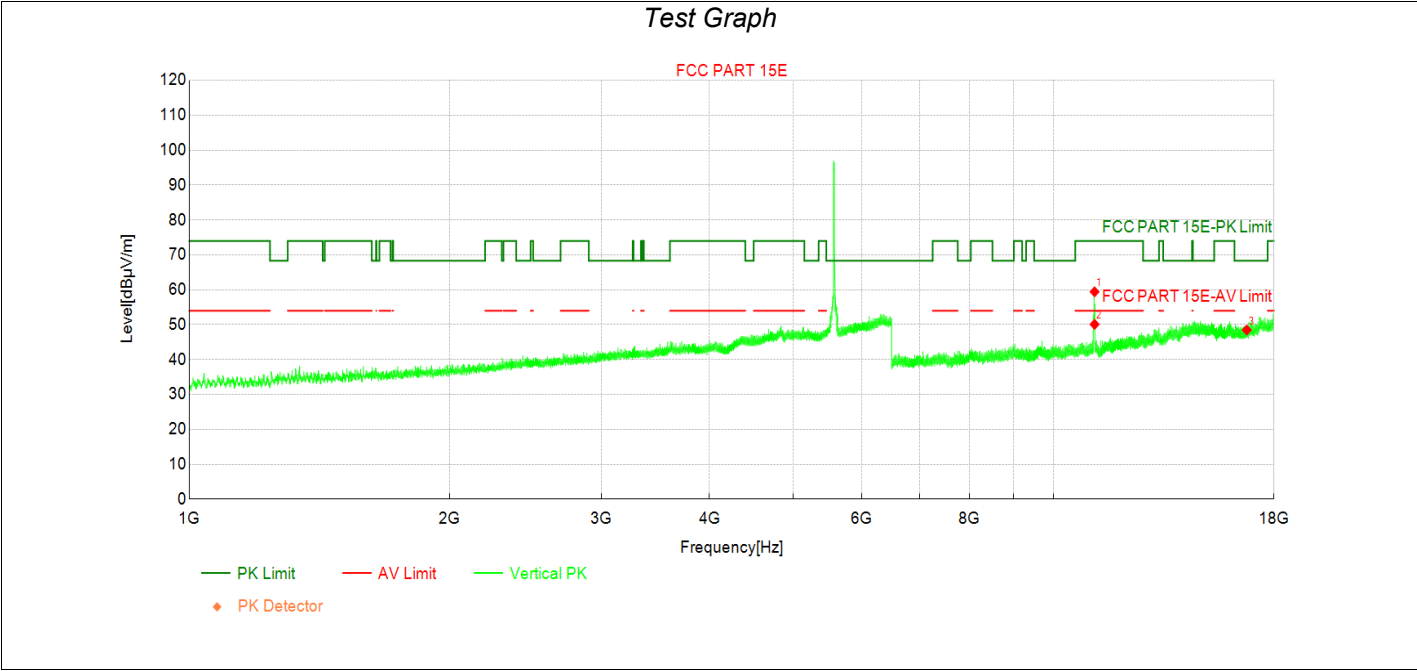
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10999.38	50.60	60.08	9.48	74.00	13.92	PK	Vertic	PASS
2	11000.00	41.73	51.22	9.49	54.00	2.78	AV	Vertic	PASS
3	16500.00	30.80	48.31	17.51	68.30	19.99	PK	Vertic	PASS

Transmit at 5580MHz by 802.11ax(20MHz) with Ant1



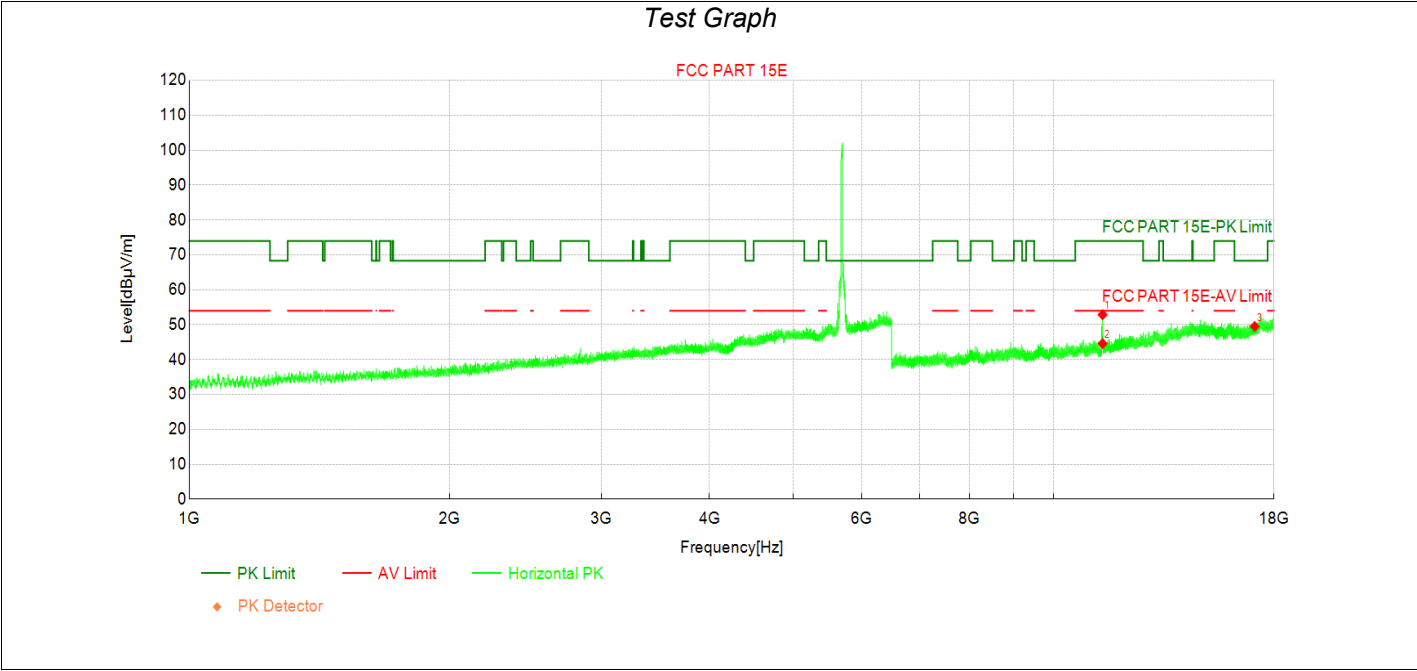
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11159.42	51.29	60.82	9.53	74.00	13.18	PK	Horizo	PASS
2	11160.00	42.71	52.24	9.53	54.00	1.76	AV	Horizo	PASS
3	16740.00	29.13	47.09	17.96	68.30	21.21	PK	Horizo	PASS

Transmit at 5580MHz by 802.11ax(20MHz) with Ant1



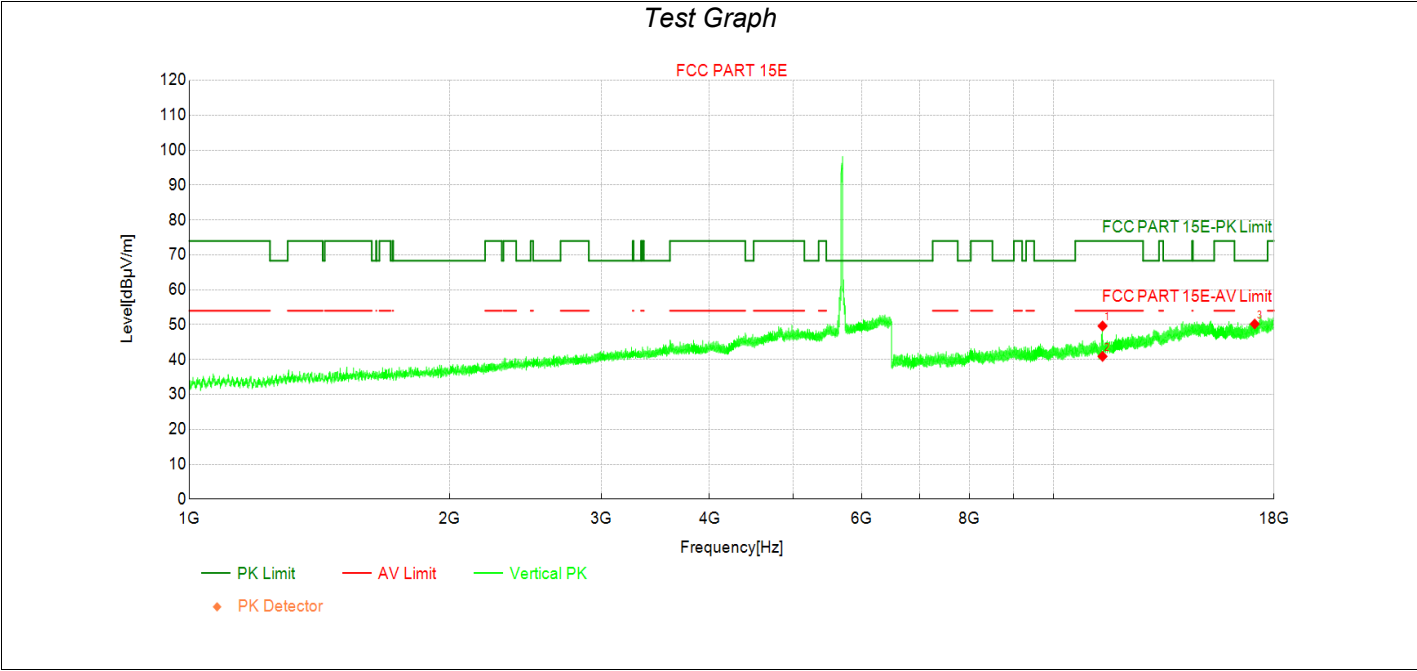
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11159.42	49.89	59.42	9.53	74.00	14.58	PK	Vertic	PASS
2	11160.00	40.56	50.09	9.53	54.00	3.91	AV	Vertic	PASS
3	16740.00	30.53	48.49	17.96	68.30	19.81	PK	Vertic	PASS

Transmit at 5700MHz by 802.11ax(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11399.48	42.71	52.85	10.14	74.00	21.15	PK	Horizo	PASS
2	11400.00	34.42	44.56	10.14	54.00	9.44	AV	Horizo	PASS
3	17100.00	30.39	49.47	19.08	68.30	18.83	PK	Horizo	PASS

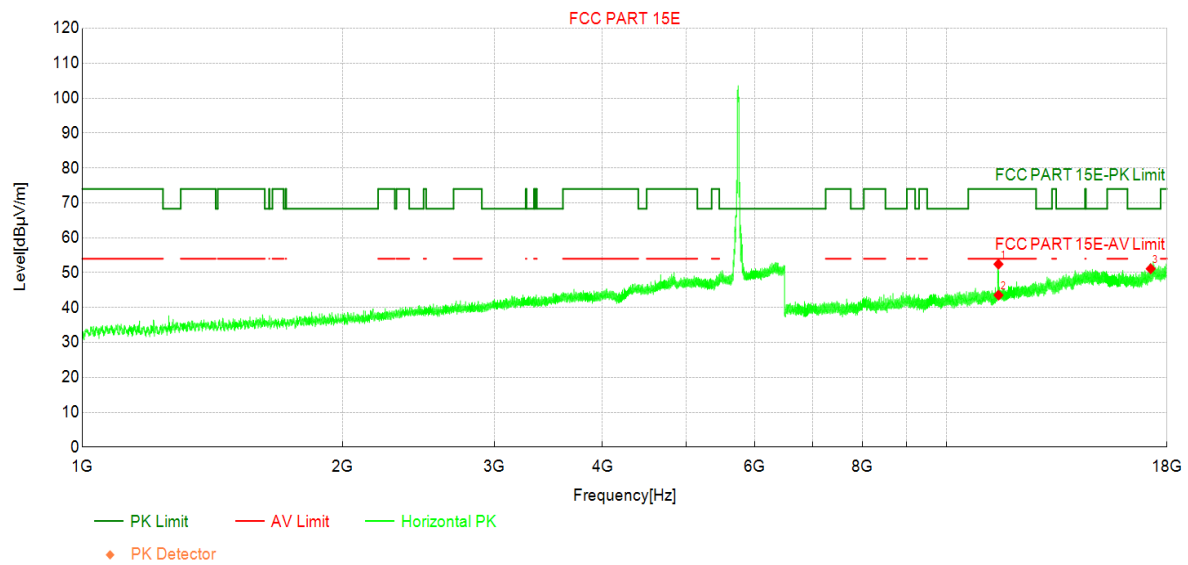
Transmit at 5700MHz by 802.11ax(20MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11399.48	39.48	49.62	10.14	74.00	24.38	PK	Vertic	PASS
2	11400.00	30.77	40.91	10.14	54.00	13.09	AV	Vertic	PASS
3	17100.00	31.11	50.19	19.08	68.30	18.11	PK	Vertic	PASS

Transmit at 5745MHz by 802.11ax(20MHz) with Ant1

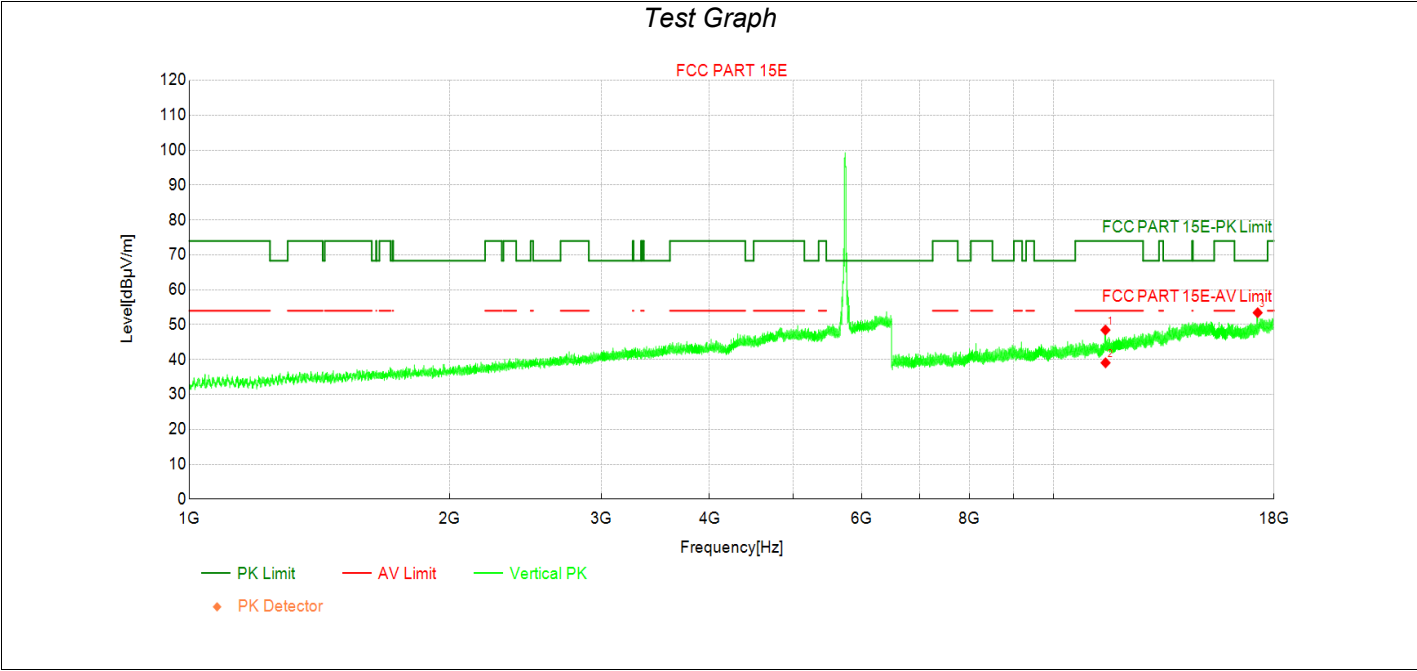
Test Graph



Data List

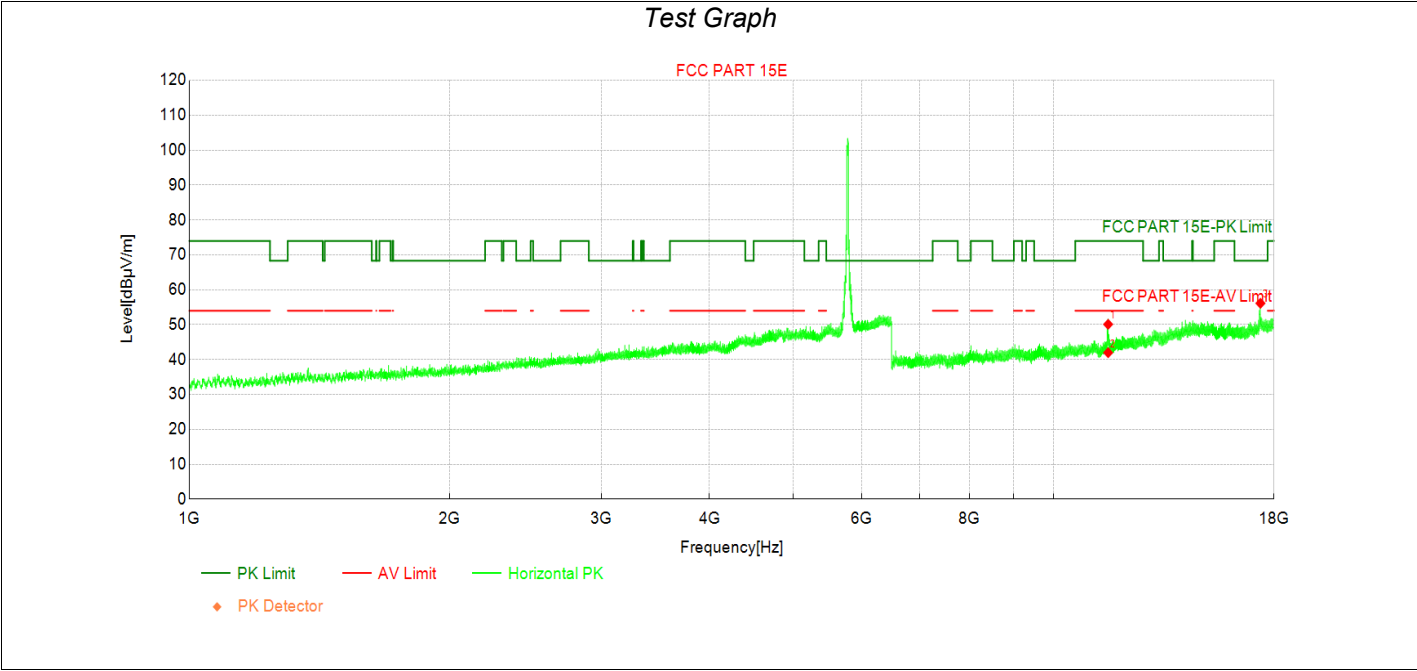
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11489.08	42.15	52.43	10.28	74.00	21.57	PK	Horizo	PASS
2	11490.00	33.28	43.56	10.28	54.00	10.44	AV	Horizo	PASS
3	17235.00	32.44	51.11	18.67	68.30	17.19	PK	Horizo	PASS

Transmit at 5745MHz by 802.11ax(20MHz) with Ant1



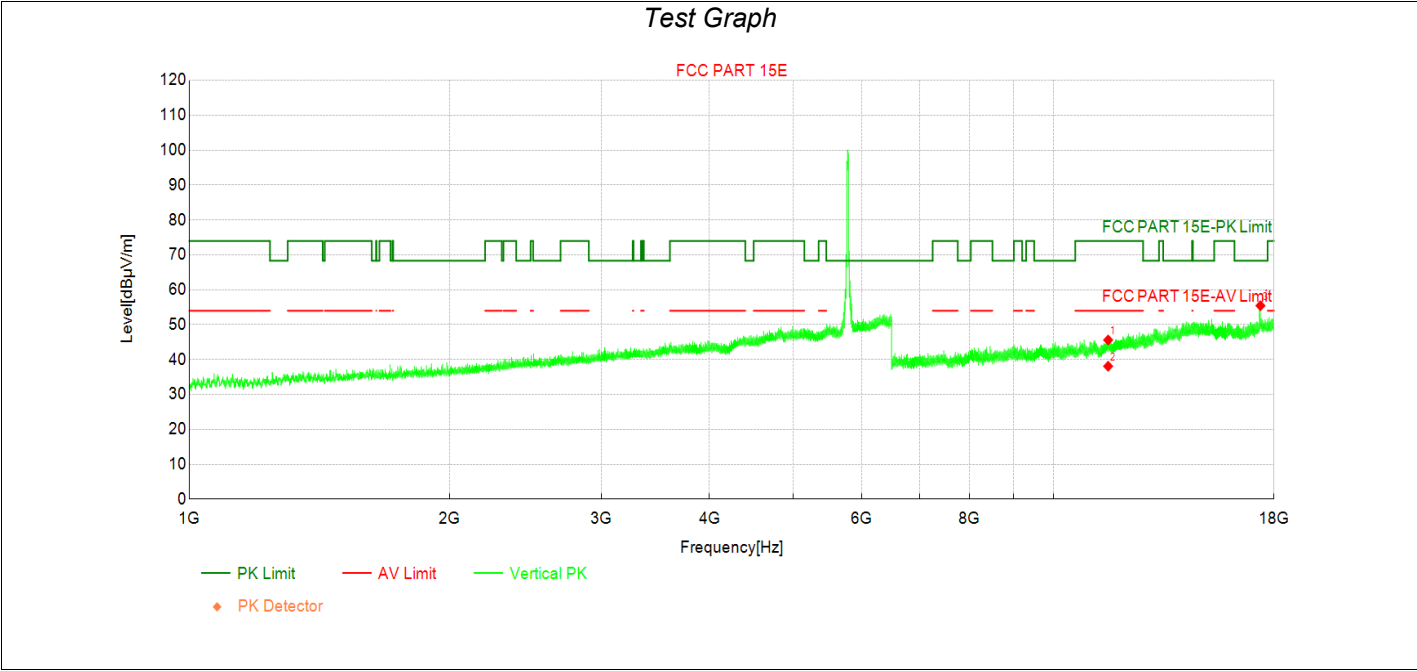
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11489.08	38.19	48.47	10.28	74.00	25.53	PK	Vertic	PASS
2	11490.00	28.79	39.07	10.28	54.00	14.93	AV	Vertic	PASS
3	17234.77	34.75	53.42	18.67	68.30	14.88	PK	Vertic	PASS

Transmit at 5785MHz by 802.11ax(20MHz) with Ant1



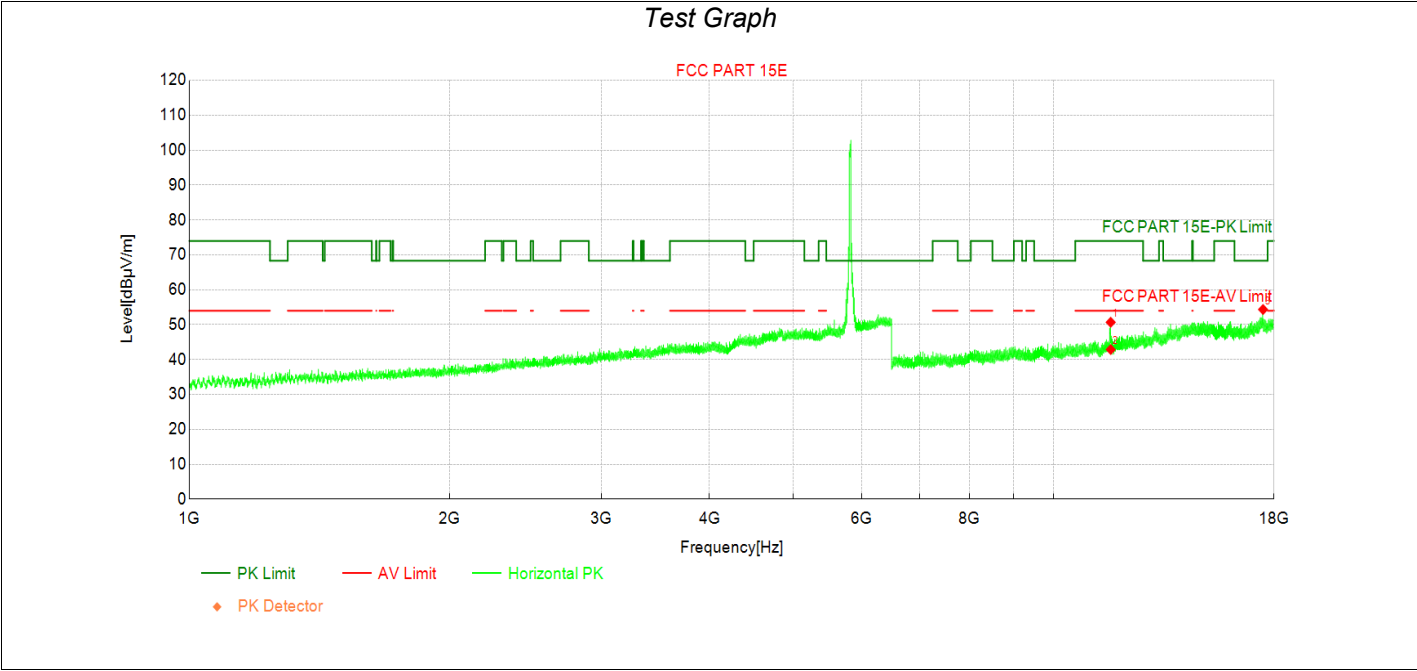
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	39.30	50.09	10.79	74.00	23.91	PK	Horizo	PASS
2	11570.00	31.18	41.97	10.79	54.00	12.03	AV	Horizo	PASS
3	17362.23	36.35	56.12	19.77	68.30	12.18	PK	Horizo	PASS

Transmit at 5785MHz by 802.11ax(20MHz) with Ant1



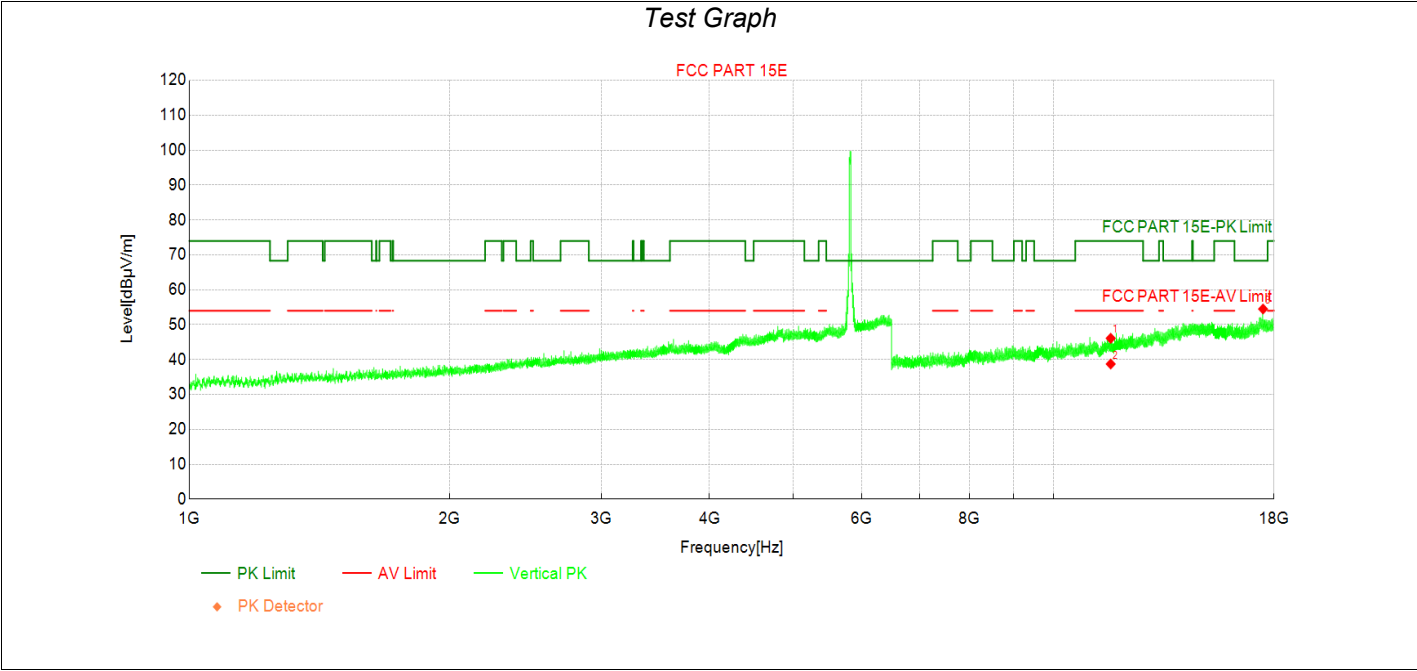
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	34.81	45.60	10.79	74.00	28.40	PK	Vertic	PASS
2	11570.00	27.30	38.09	10.79	54.00	15.91	AV	Vertic	PASS
3	17362.71	35.66	55.44	19.78	68.30	12.86	PK	Vertic	PASS

Transmit at 5825MHz by 802.11ax(20MHz) with Ant1



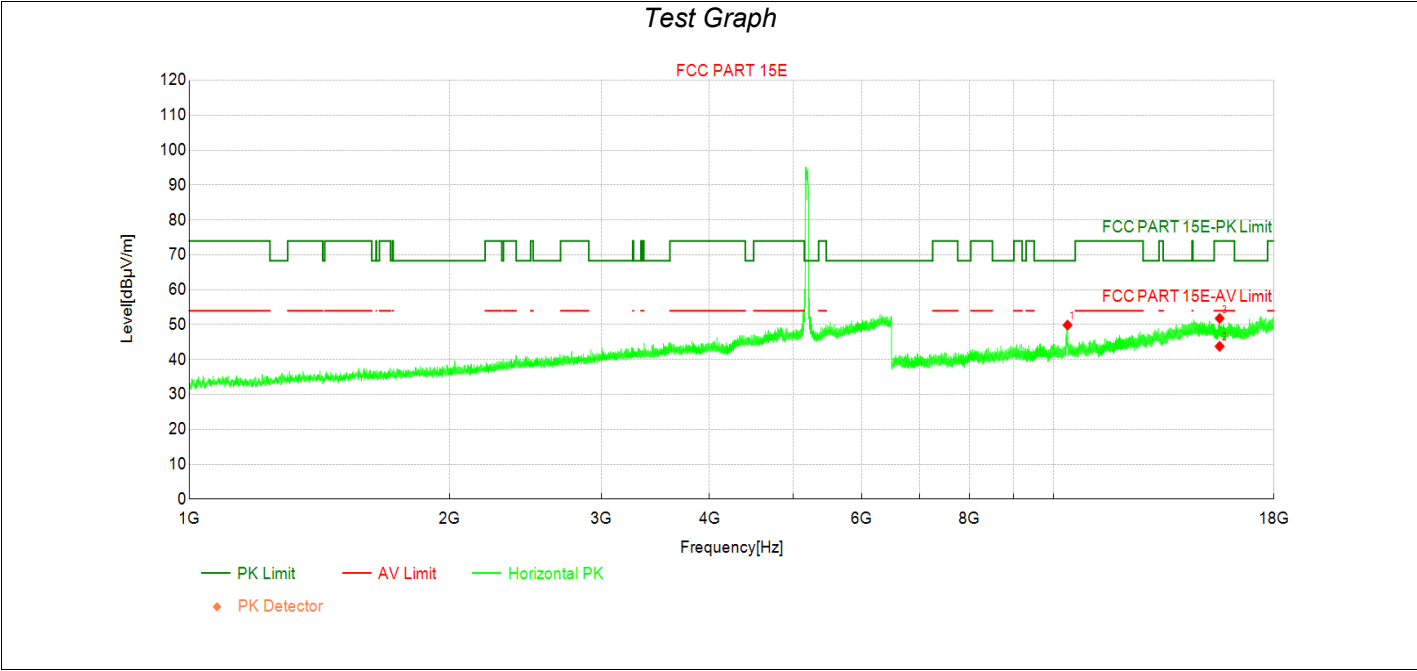
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	39.66	50.69	11.03	74.00	23.31	PK	Horizo	PASS
2	11650.00	31.85	42.88	11.03	54.00	11.12	AV	Horizo	PASS
3	17482.98	34.33	54.34	20.01	68.30	13.96	PK	Horizo	PASS

Transmit at 5825MHz by 802.11ax(20MHz) with Ant1



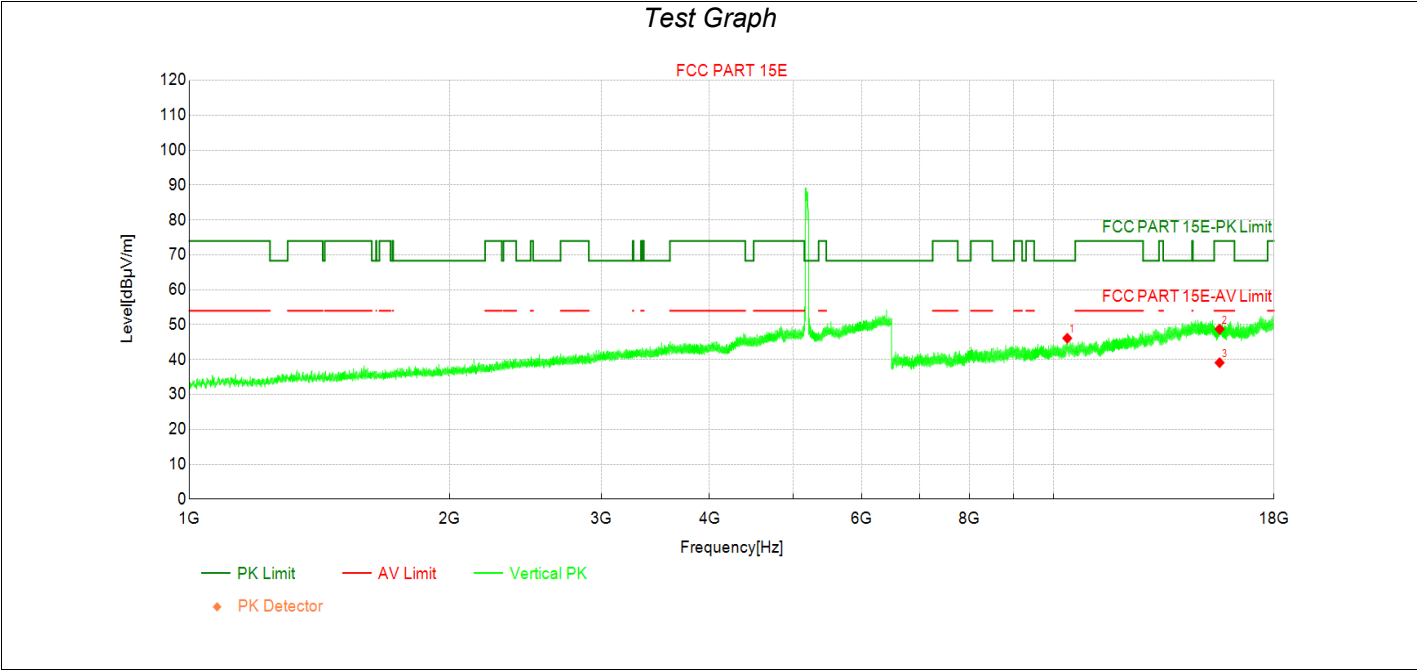
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	35.06	46.09	11.03	74.00	27.91	PK	Vertic	PASS
2	11650.00	27.70	38.73	11.03	54.00	15.27	AV	Vertic	PASS
3	17482.50	34.48	54.49	20.01	68.30	13.81	PK	Vertic	PASS

Transmit at 5190MHz by 802.11ac(40MHz) with Ant1



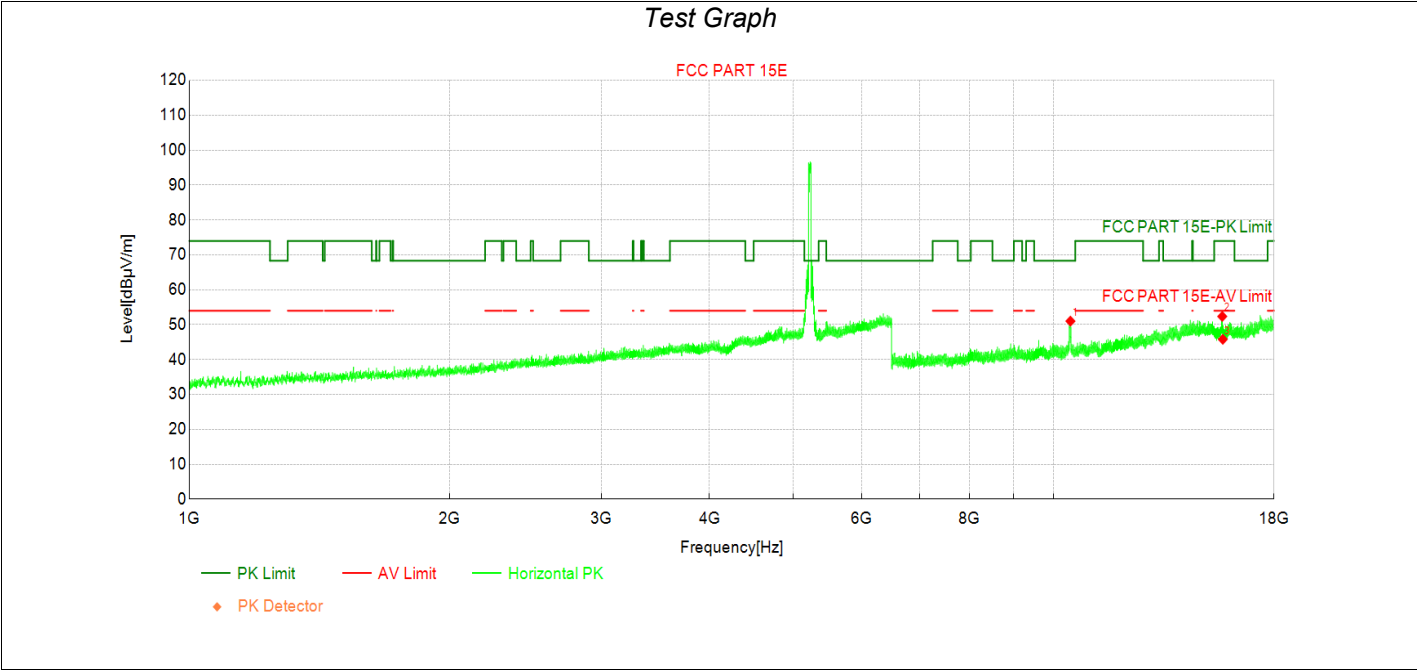
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10384.13	42.19	49.87	7.68	68.30	18.43	PK	Horizo	PASS
2	15571.58	27.28	43.79	16.51	54.00	10.21	AV	Horizo	PASS
3	15573.50	35.30	51.80	16.50	74.00	22.20	PK	Horizo	PASS

Transmit at 5190MHz by 802.11ac(40MHz) with Ant1



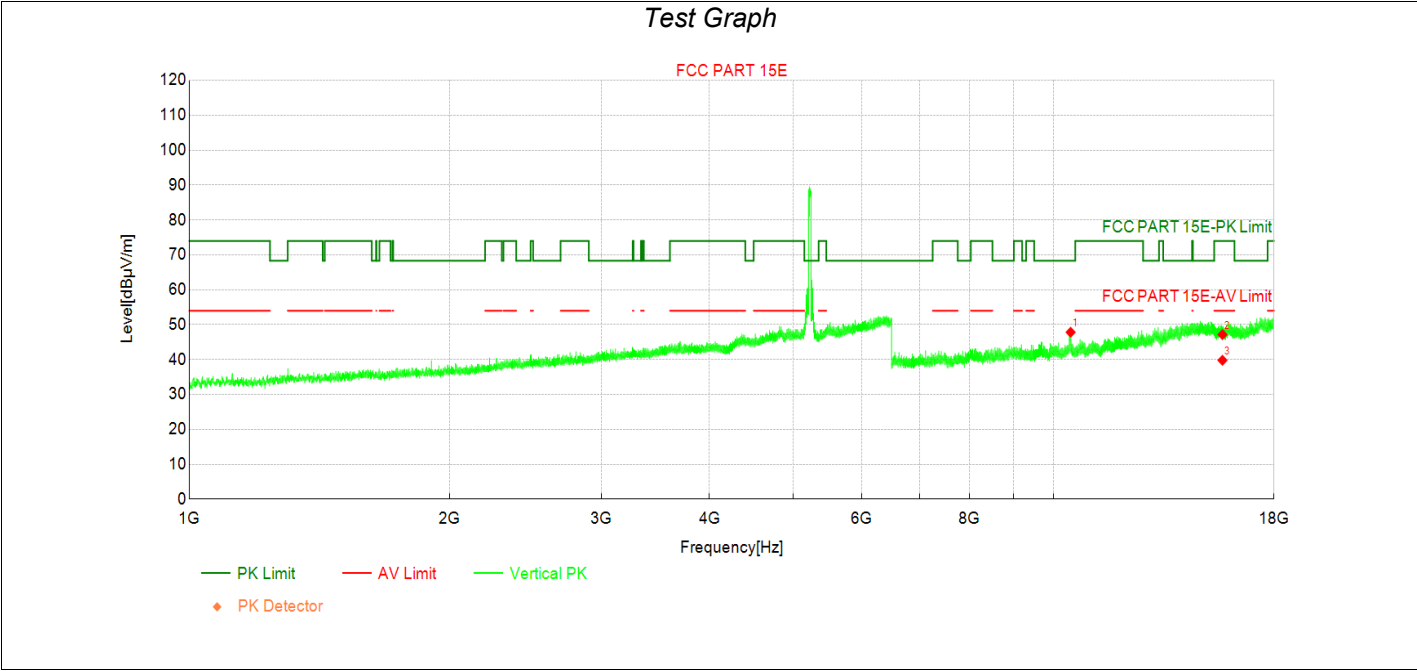
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10376.46	38.44	46.11	7.67	68.30	22.19	PK	Vertic	PASS
2	15570.00	32.20	48.71	16.51	74.00	25.29	PK	Vertic	PASS
3	15570.00	22.59	39.10	16.51	54.00	14.90	AV	Vertic	PASS

Transmit at 5230MHz by 802.11ac(40MHz) with Ant1



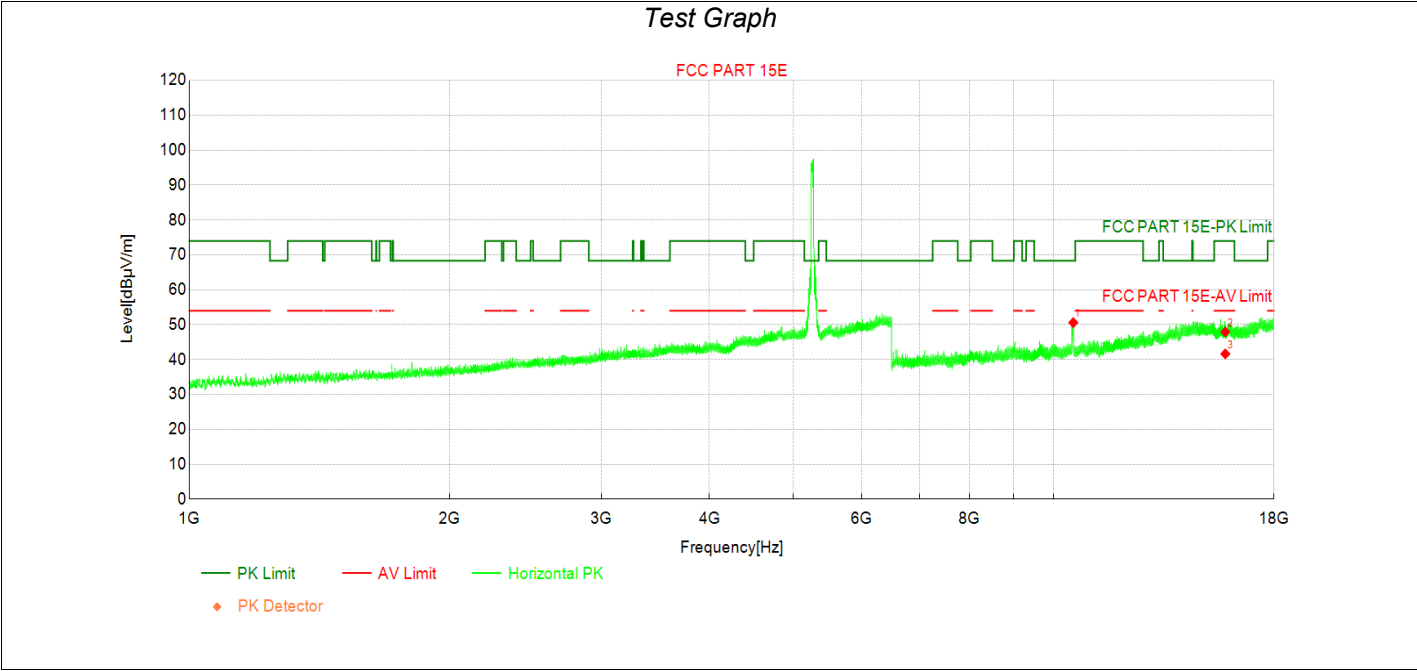
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10464.63	42.94	51.01	8.07	68.30	17.29	PK	Horizo	PASS
2	15682.27	35.81	52.36	16.55	74.00	21.64	PK	Horizo	PASS
3	15705.27	29.21	45.79	16.58	54.00	8.21	AV	Horizo	PASS

Transmit at 5230MHz by 802.11ac(40MHz) with Ant1



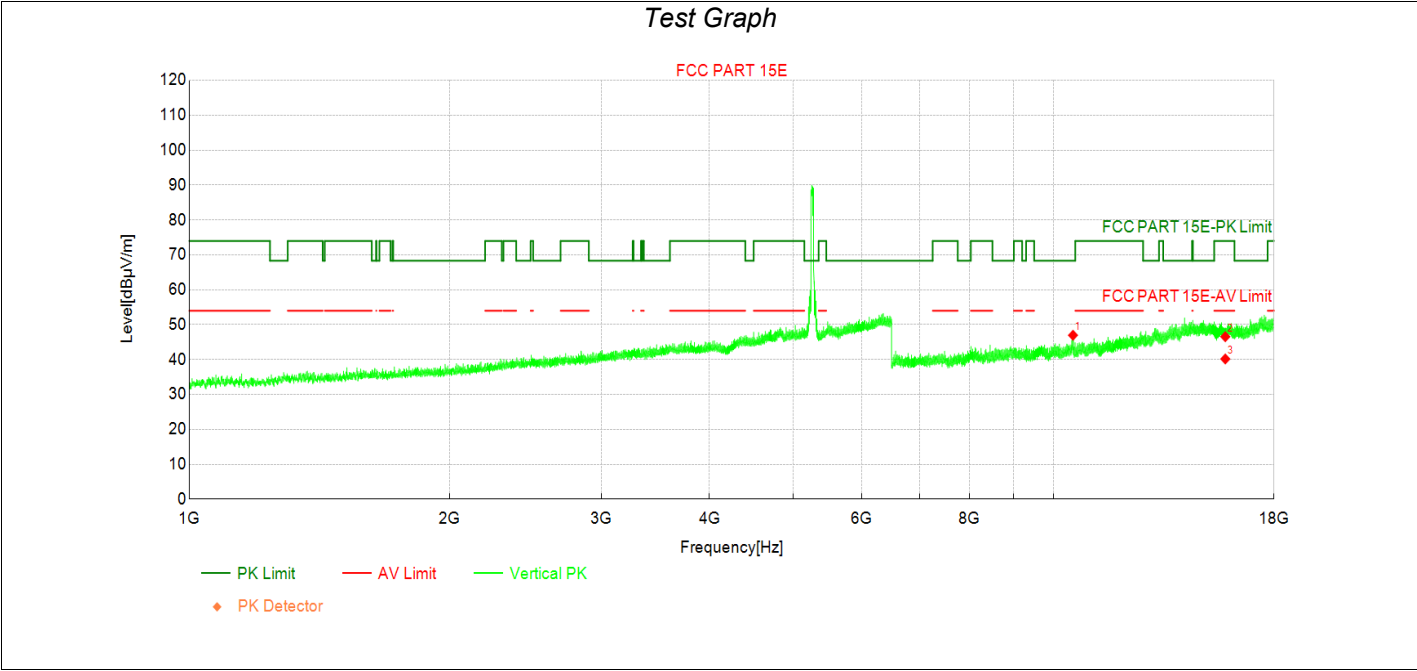
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10469.42	39.73	47.83	8.10	68.30	20.47	PK	Vertic	PASS
2	15690.00	30.59	47.15	16.56	74.00	26.85	PK	Vertic	PASS
3	15690.00	23.23	39.79	16.56	54.00	14.21	AV	Vertic	PASS

Transmit at 5270MHz by 802.11ac(40MHz) with Ant1



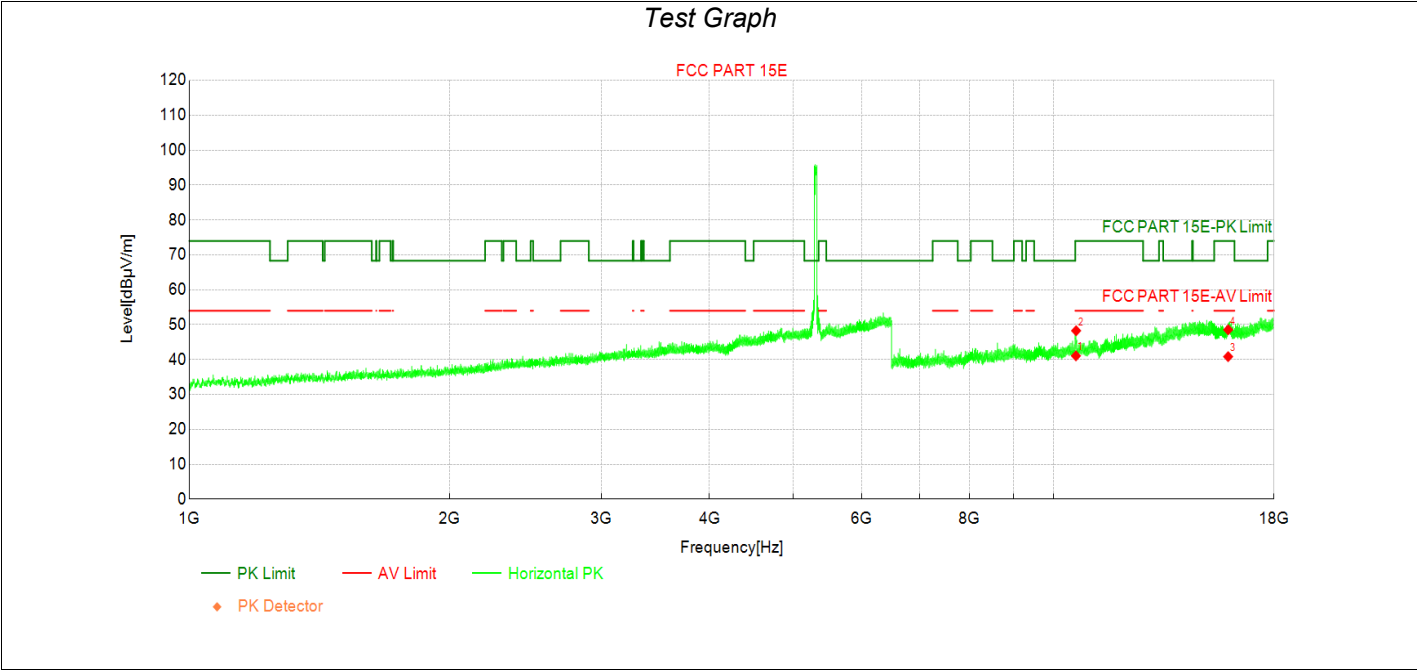
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10544.17	42.23	50.59	8.36	68.30	17.71	PK	Horizo	PASS
2	15810.00	31.16	47.92	16.76	74.00	26.08	PK	Horizo	PASS
3	15810.00	24.87	41.63	16.76	54.00	12.37	AV	Horizo	PASS

Transmit at 5270MHz by 802.11ac(40MHz) with Ant1



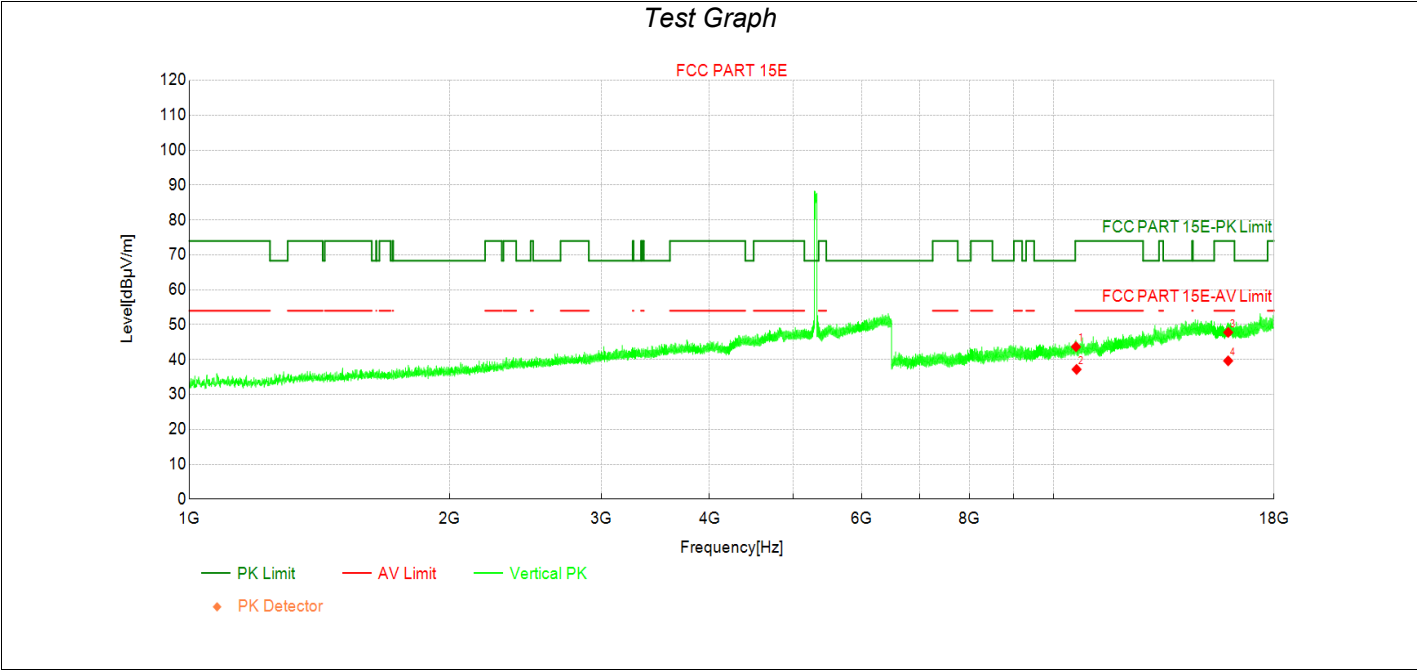
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10536.50	38.63	46.97	8.34	68.30	21.33	PK	Vertic	PASS
2	15810.00	29.79	46.55	16.76	74.00	27.45	PK	Vertic	PASS
3	15810.00	23.41	40.17	16.76	54.00	13.83	AV	Vertic	PASS

Transmit at 5310MHz by 802.11ac(40MHz) with Ant1



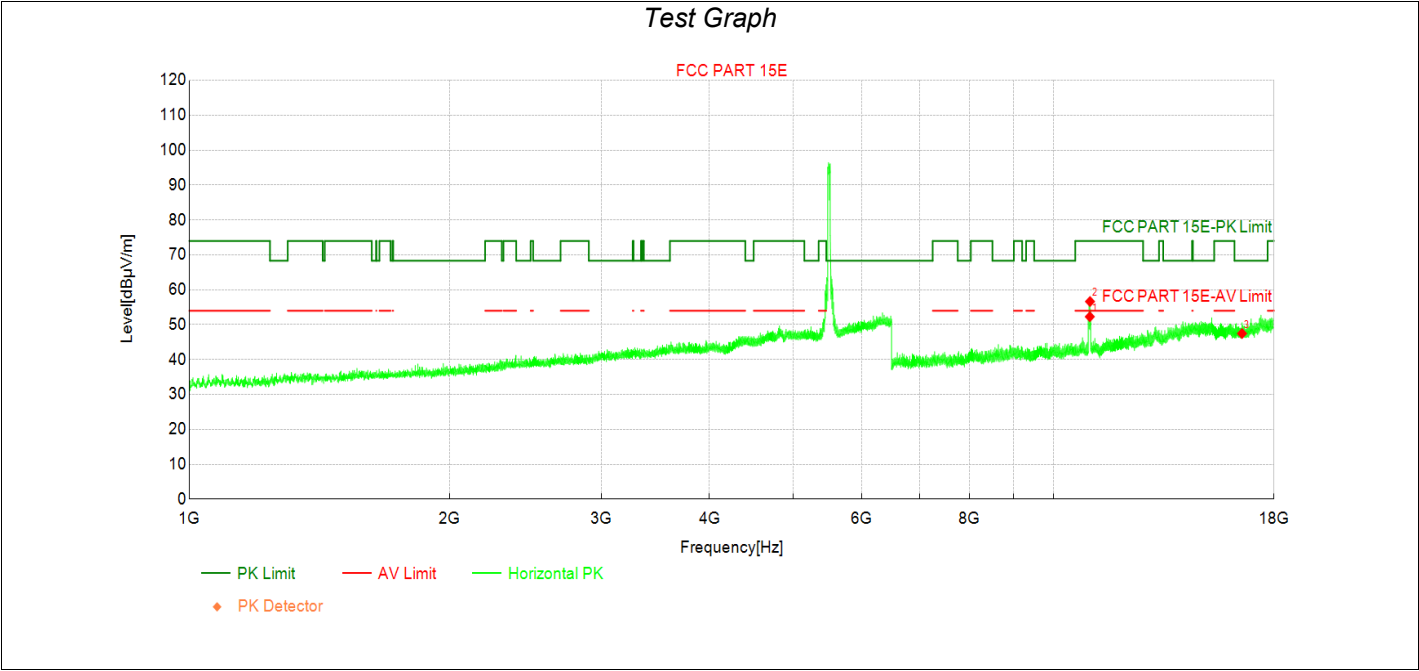
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10618.92	32.61	41.06	8.45	54.00	12.94	AV	Horizo	PASS
2	10624.19	39.81	48.26	8.45	74.00	25.74	PK	Horizo	PASS
3	15930.00	23.70	40.84	17.14	54.00	13.16	AV	Horizo	PASS
4	15930.00	31.40	48.54	17.14	74.00	25.46	PK	Horizo	PASS

Transmit at 5310MHz by 802.11ac(40MHz) with Ant1



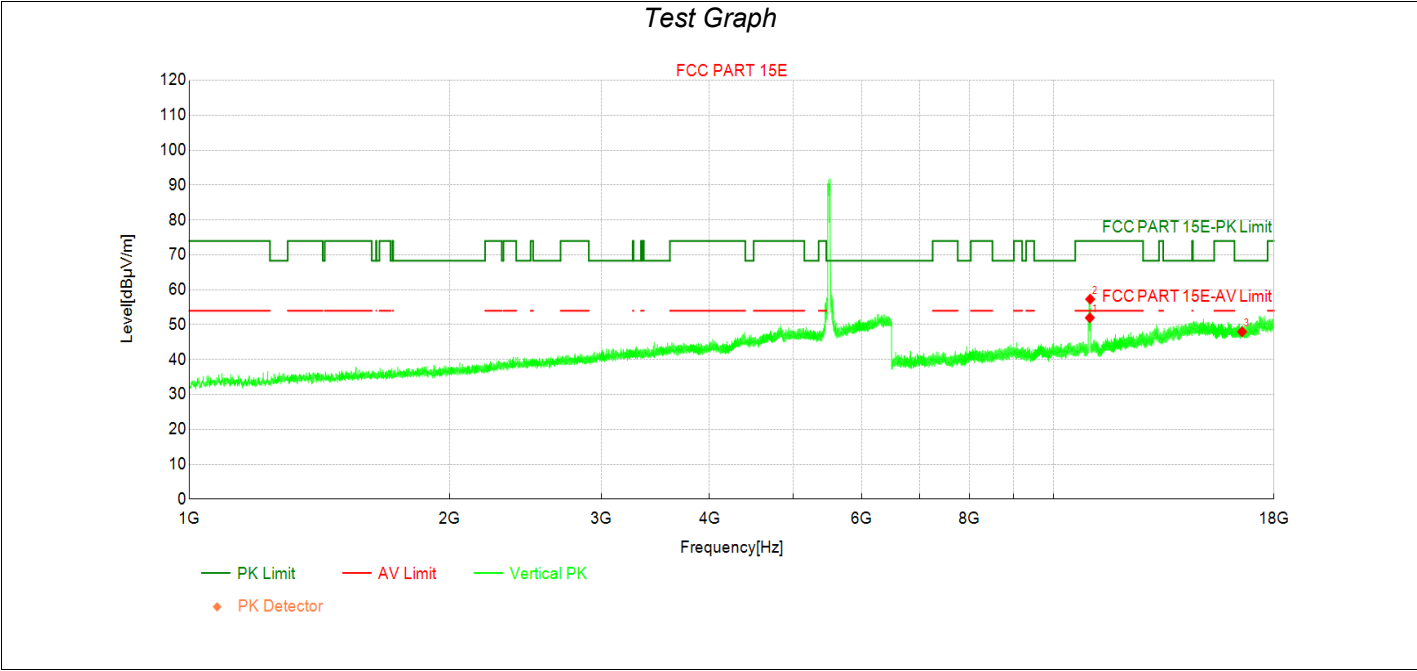
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10620.00	35.23	43.68	8.45	74.00	30.32	PK	Vertic	PASS
2	10637.13	28.75	37.19	8.44	54.00	16.81	AV	Vertic	PASS
3	15930.00	30.63	47.77	17.14	74.00	26.23	PK	Vertic	PASS
4	15930.00	22.50	39.64	17.14	54.00	14.36	AV	Vertic	PASS

Transmit at 5510MHz by 802.11ac(40MHz) with Ant1



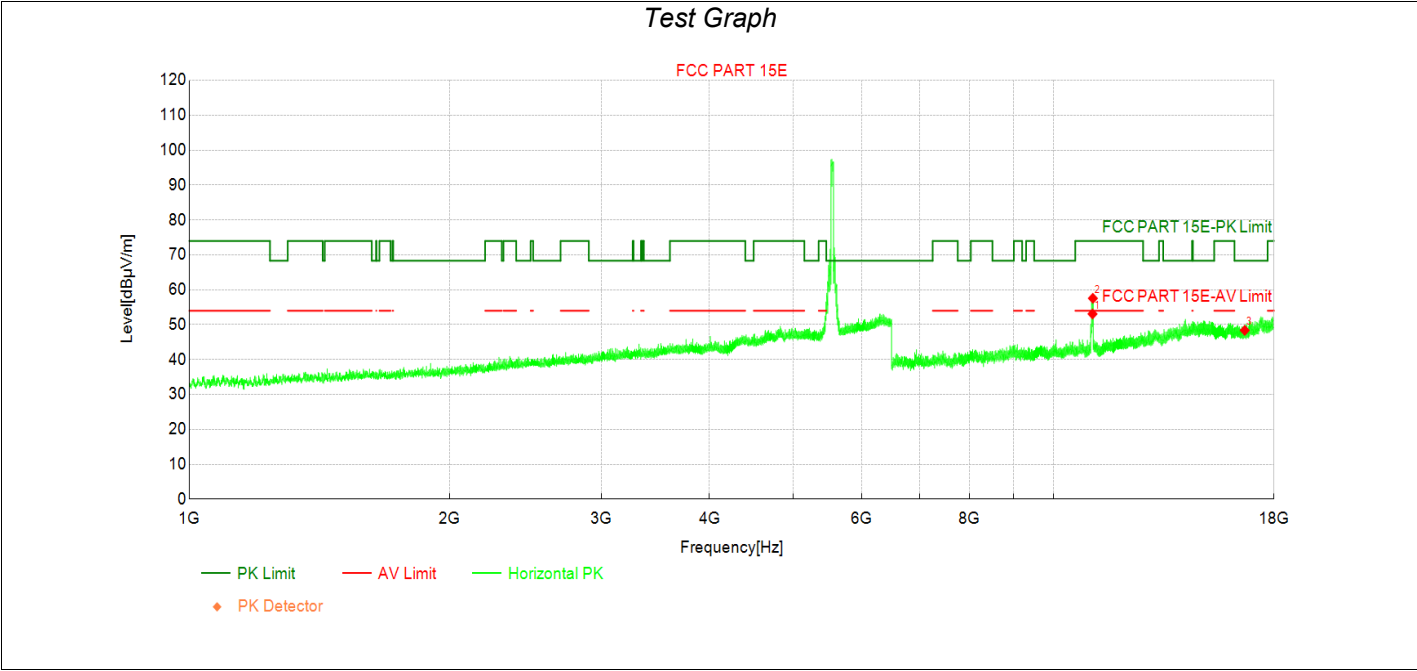
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11019.02	42.81	52.28	9.47	54.00	1.72	AV	Horizo	PASS
2	11024.29	47.18	56.63	9.45	74.00	17.37	PK	Horizo	PASS
3	16530.00	29.81	47.46	17.65	68.30	20.84	PK	Horizo	PASS

Transmit at 5510MHz by 802.11ac(40MHz) with Ant1



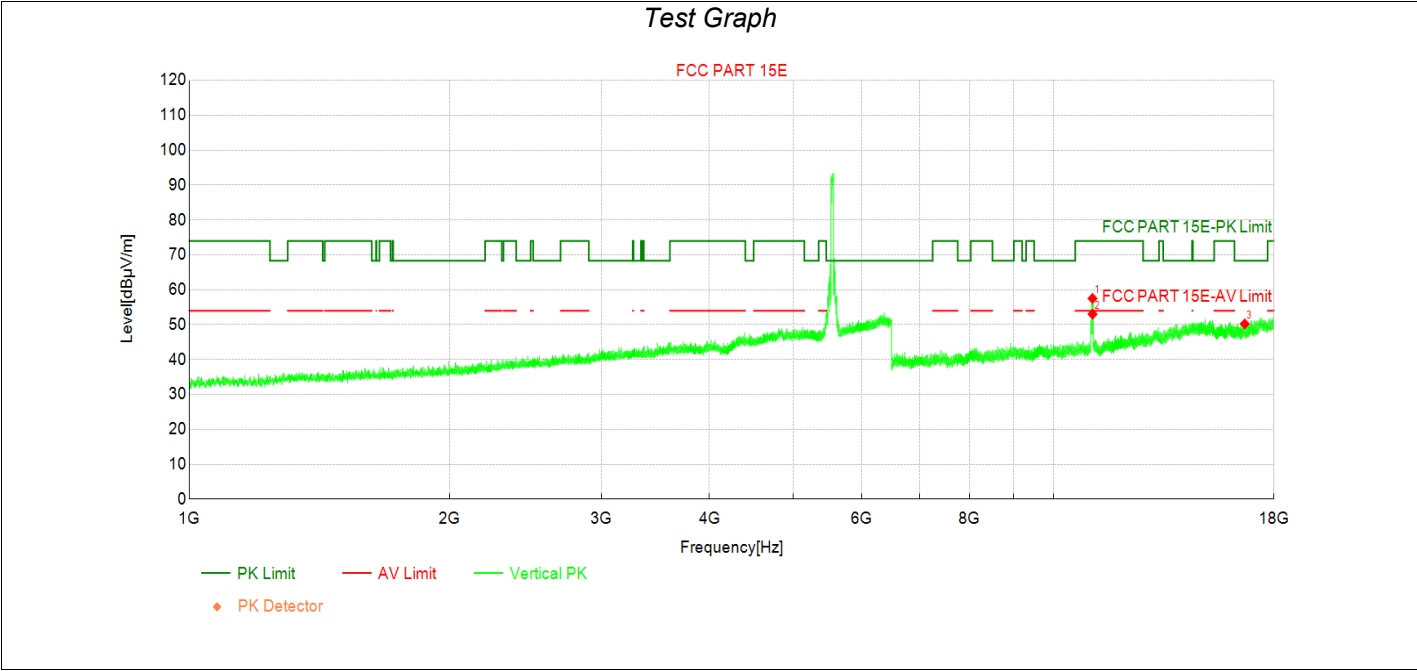
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11019.02	42.49	51.96	9.47	54.00	2.04	AV	Vertic	PASS
2	11029.56	47.85	57.30	9.45	74.00	16.70	PK	Vertic	PASS
3	16530.00	30.32	47.97	17.65	68.30	20.33	PK	Vertic	PASS

Transmit at 5550MHz by 802.11ac(40MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11099.04	43.72	53.06	9.34	54.00	0.94	AV	Horizo	PASS
2	11109.58	48.17	57.55	9.38	74.00	16.45	PK	Horizo	PASS
3	16650.00	30.61	48.37	17.76	68.30	19.93	PK	Horizo	PASS

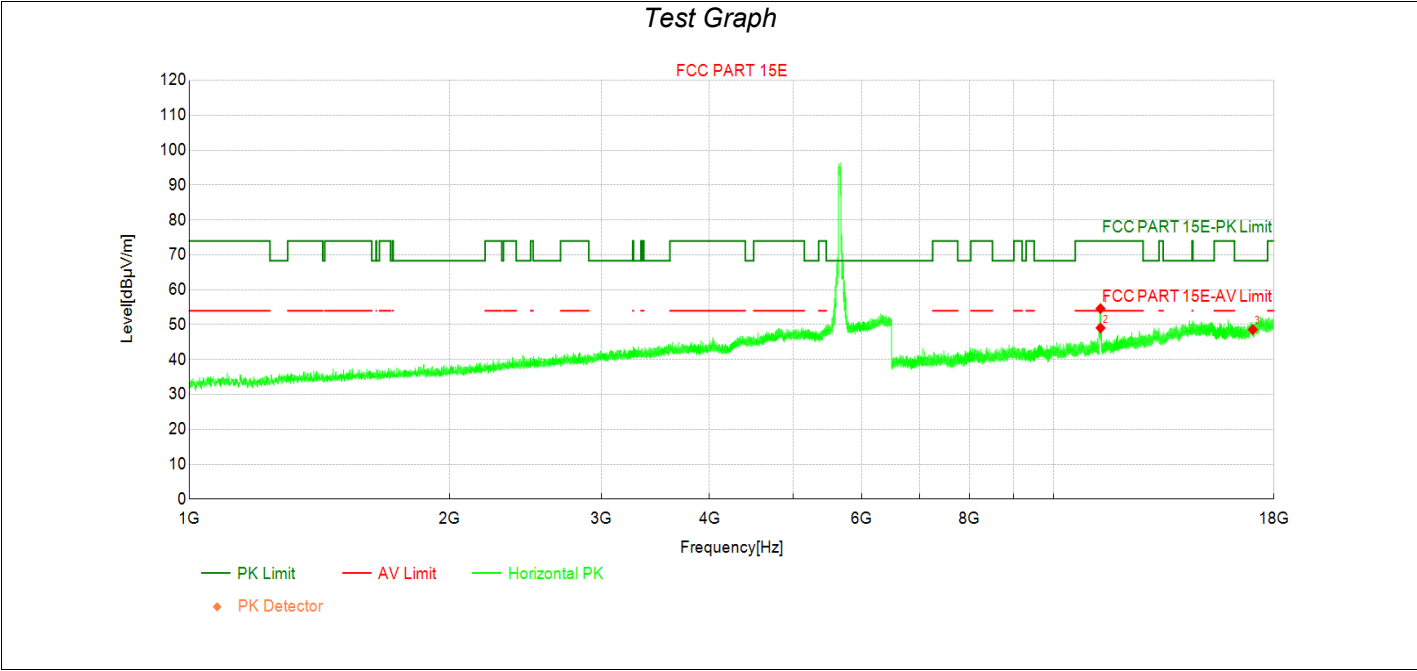
Transmit at 5550MHz by 802.11ac(40MHz) with Ant1



Data List

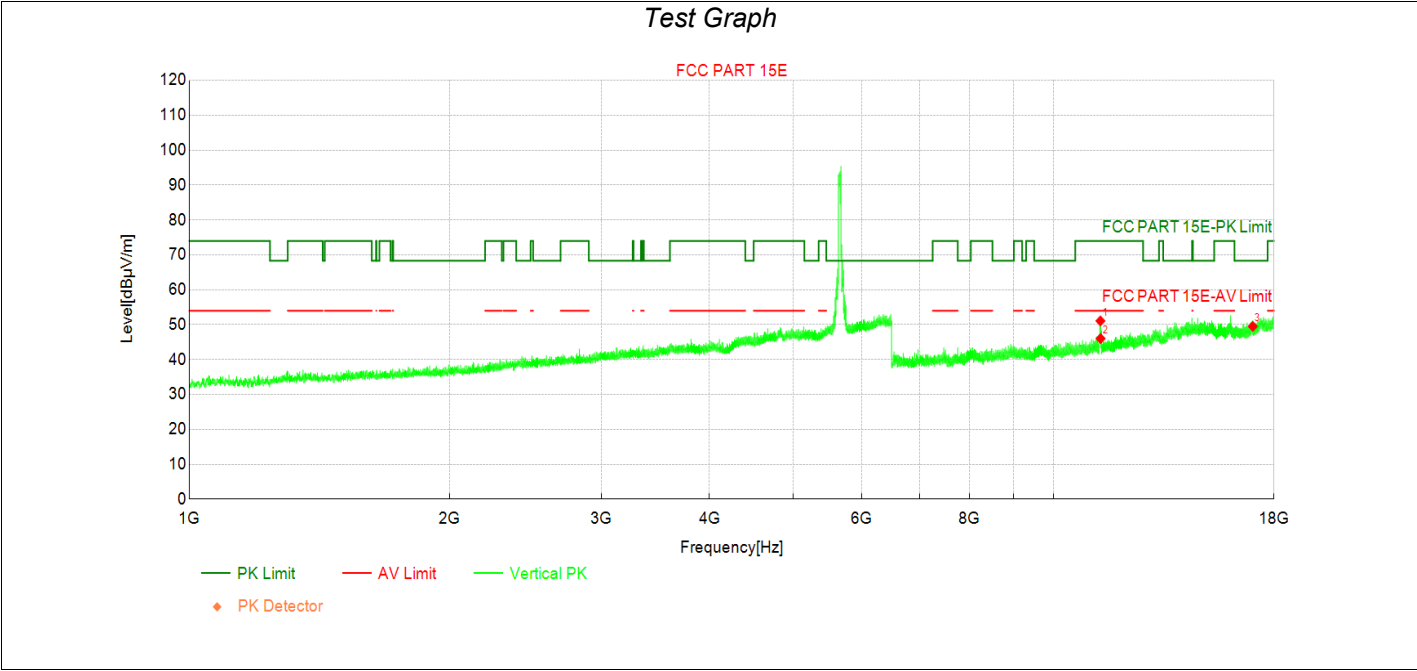
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11098.08	48.16	57.51	9.35	74.00	16.49	PK	Vertic	PASS
2	11099.04	43.66	53.00	9.34	54.00	1.00	AV	Vertic	PASS
3	16650.00	32.45	50.21	17.76	68.30	18.09	PK	Vertic	PASS

Transmit at 5670MHz by 802.11ac(40MHz) with Ant1



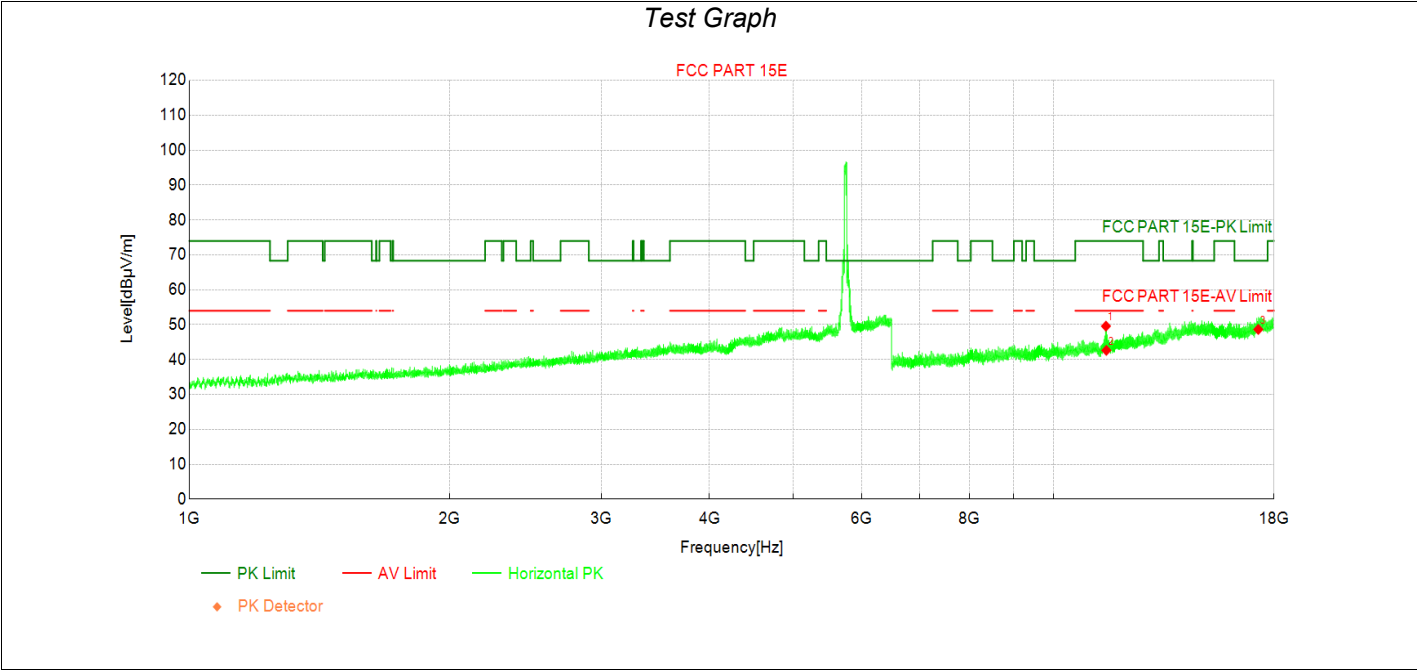
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11336.71	44.71	54.61	9.90	74.00	19.39	PK	Horizo	PASS
2	11338.63	39.14	49.06	9.92	54.00	4.94	AV	Horizo	PASS
3	17010.00	28.43	48.59	20.16	68.30	19.71	PK	Horizo	PASS

Transmit at 5670MHz by 802.11ac(40MHz) with Ant1



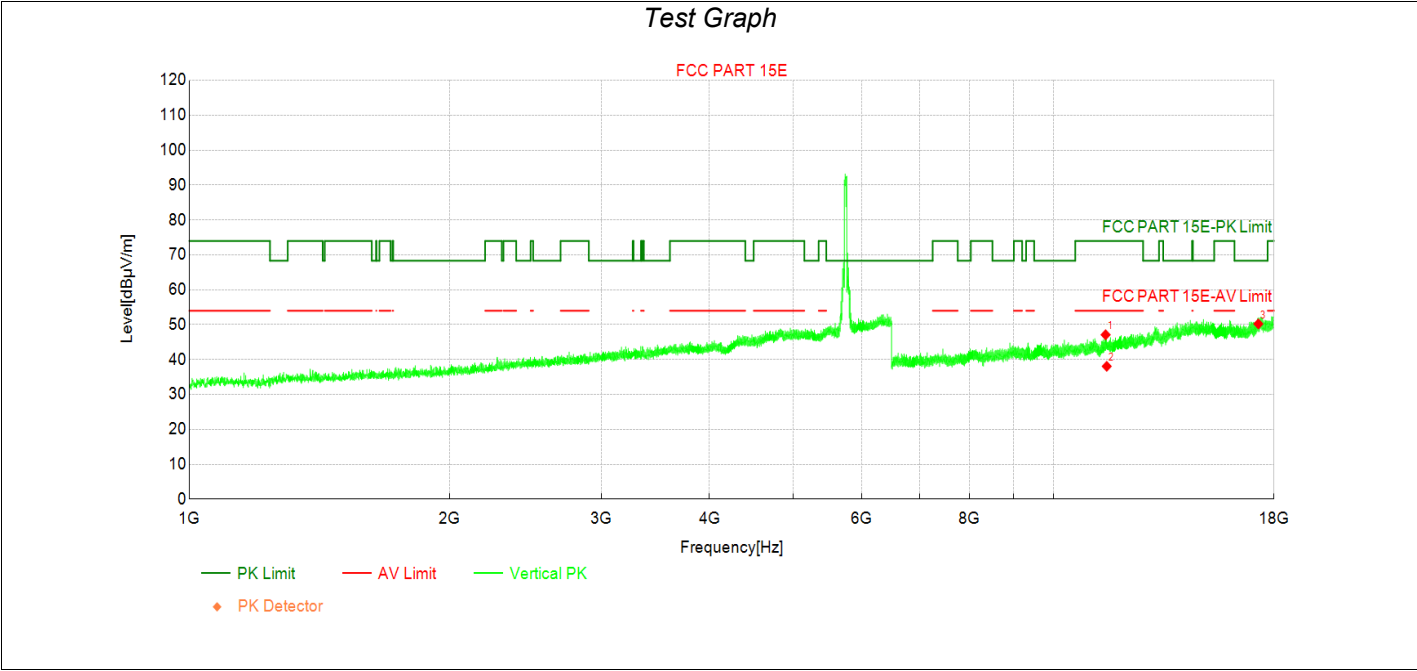
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11334.79	41.17	51.07	9.90	74.00	22.93	PK	Vertic	PASS
2	11338.63	36.10	46.02	9.92	54.00	7.98	AV	Vertic	PASS
3	17010.00	29.35	49.51	20.16	68.30	18.79	PK	Vertic	PASS

Transmit at 5755MHz by 802.11ac(40MHz) with Ant1



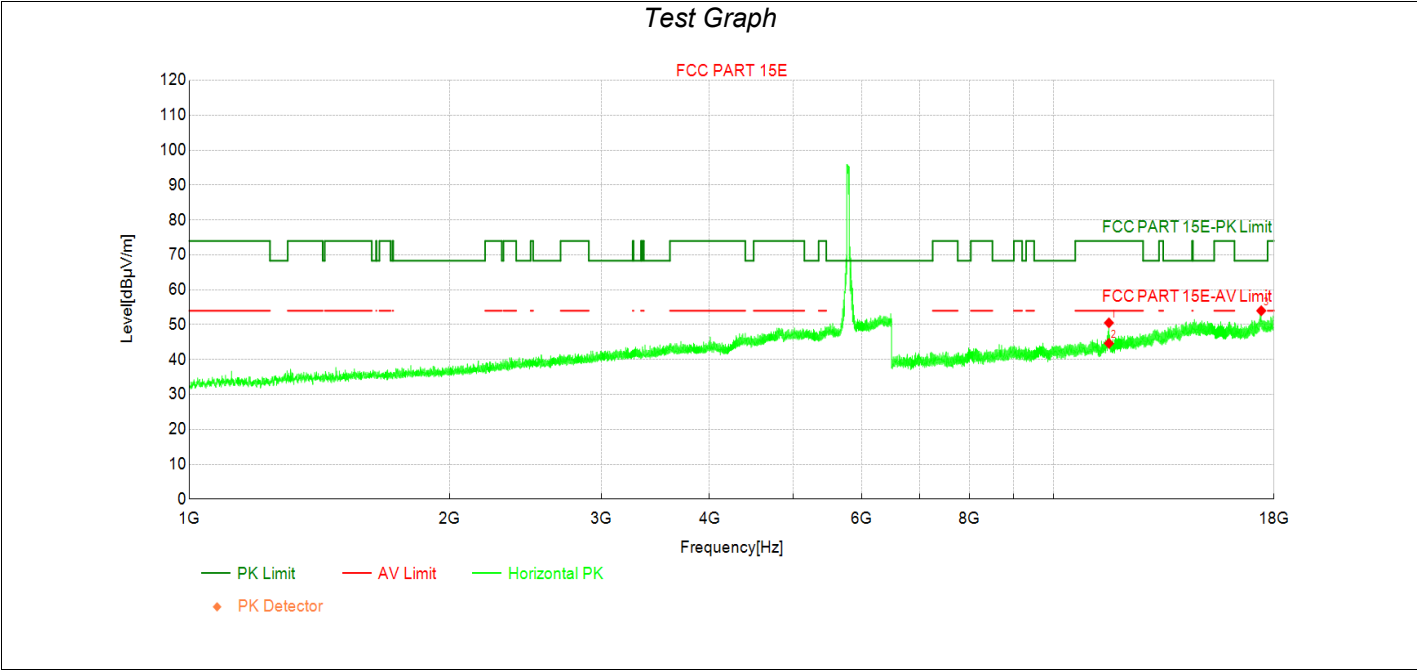
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11502.98	39.26	49.58	10.32	74.00	24.42	PK	Horizo	PASS
2	11514.96	32.23	42.63	10.40	54.00	11.37	AV	Horizo	PASS
3	17265.00	29.87	48.64	18.77	68.30	19.66	PK	Horizo	PASS

Transmit at 5755MHz by 802.11ac(40MHz) with Ant1



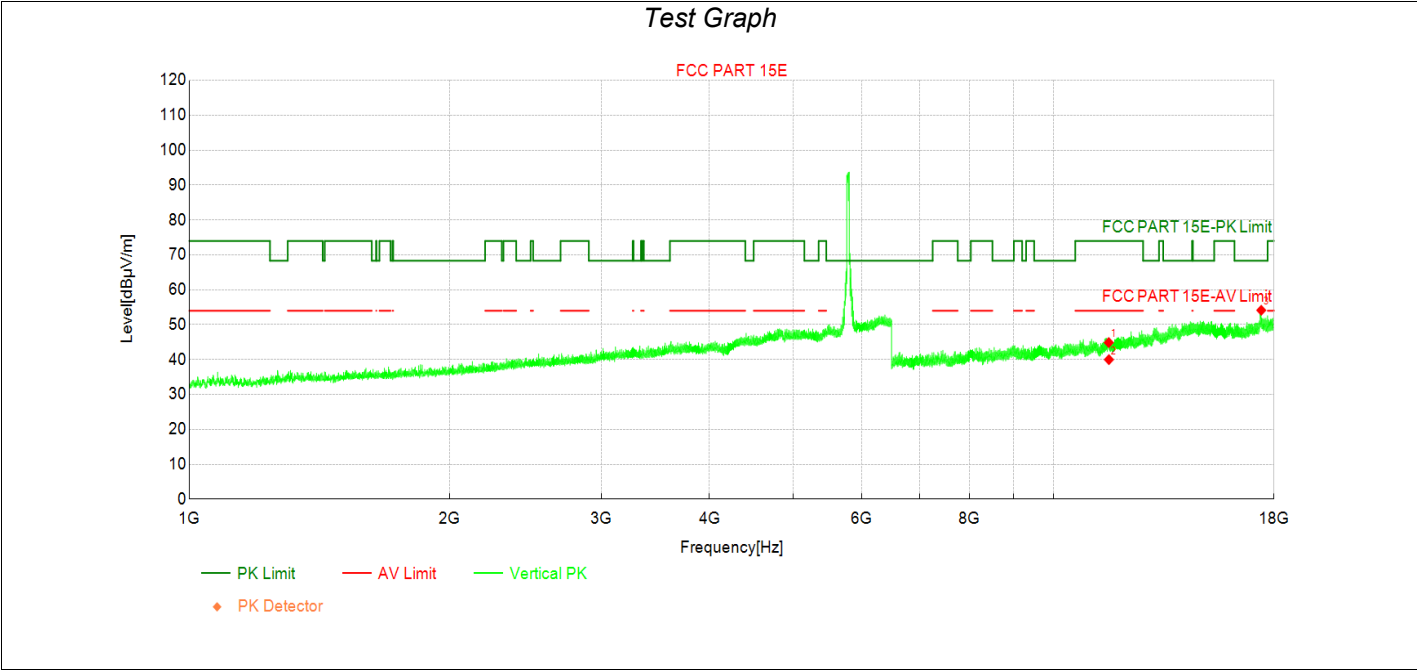
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11493.88	36.82	47.10	10.28	74.00	26.90	PK	Vertic	PASS
2	11526.94	27.58	38.07	10.49	54.00	15.93	AV	Vertic	PASS
3	17265.00	31.45	50.22	18.77	68.30	18.08	PK	Vertic	PASS

Transmit at 5795MHz by 802.11ac(40MHz) with Ant1



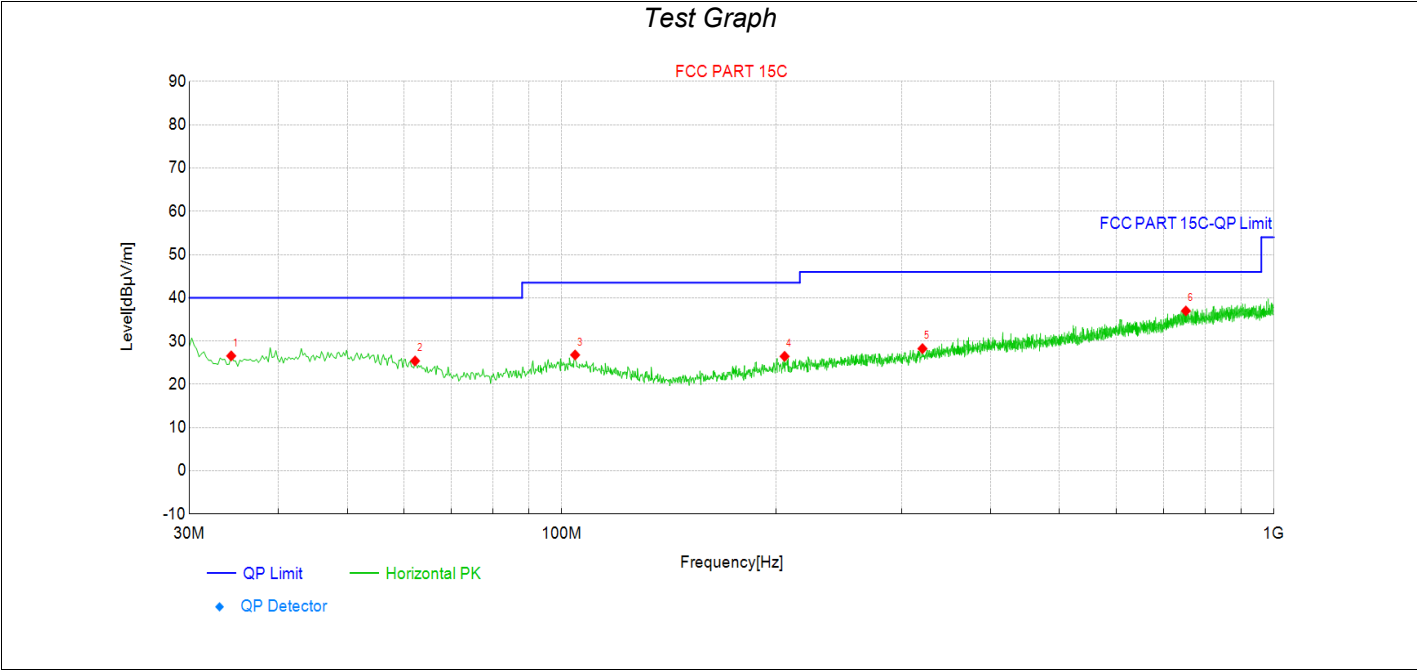
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11594.98	39.55	50.53	10.98	74.00	23.47	PK	Horizo	PASS
2	11595.46	33.66	44.64	10.98	54.00	9.36	AV	Horizo	PASS
3	17399.60	33.69	53.99	20.30	68.30	14.31	PK	Horizo	PASS

Transmit at 5795MHz by 802.11ac(40MHz) with Ant1



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11590.00	33.93	44.87	10.94	74.00	29.13	PK	Vertic	PASS
2	11594.50	29.01	39.98	10.97	54.00	14.02	AV	Vertic	PASS
3	17399.60	33.82	54.12	20.30	68.30	14.18	PK	Vertic	PASS

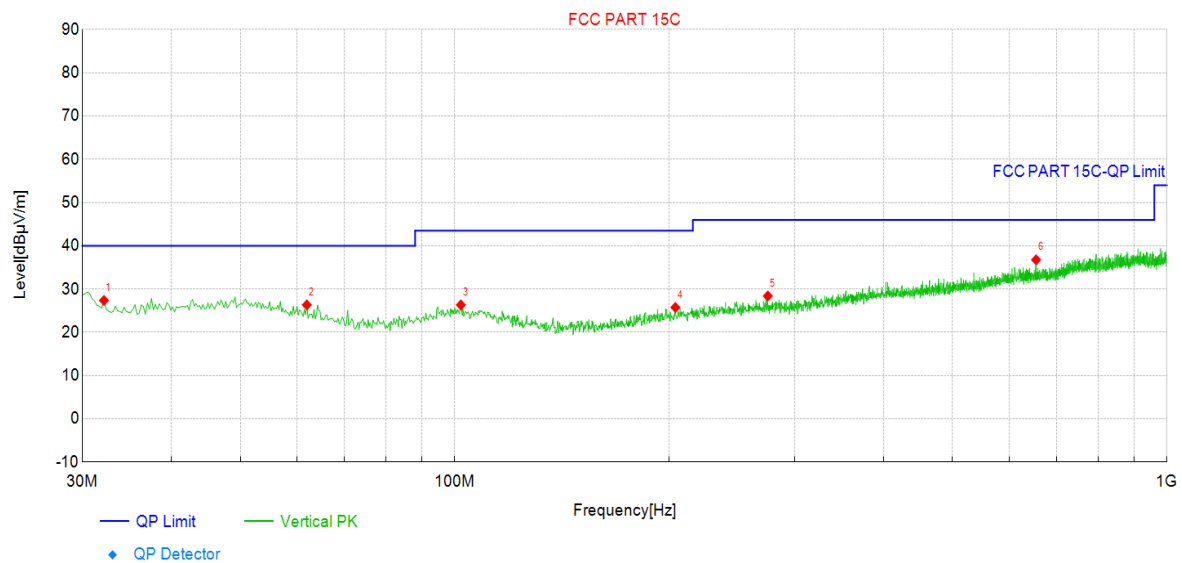
Transmit at 5180MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	34.37	13.4	26.57	13.140	40.00	13.43	PK	Horizo	PASS
2	62.25	13.2	25.40	12.230	40.00	14.60	PK	Horizo	PASS
3	104.45	14.3	26.79	12.470	43.50	16.71	PK	Horizo	PASS
4	205.57	14.4	26.46	12.100	43.50	17.04	PK	Horizo	PASS
5	321.00	13.6	28.24	14.610	46.00	17.76	PK	Horizo	PASS
6	752.17	15.4	36.97	21.580	46.00	9.03	PK	Horizo	PASS

Transmit at 5180MHz by 802.11a

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	32.18	14.3	27.38	13.040	40.00	12.62	PK	Vertic	PASS
2	62.01	14.1	26.34	12.290	40.00	13.66	PK	Vertic	PASS
3	102.02	13.8	26.33	12.550	43.50	17.17	PK	Vertic	PASS
4	204.12	13.7	25.75	12.060	43.50	17.75	PK	Vertic	PASS
5	275.17	14.6	28.40	13.770	46.00	17.60	PK	Vertic	PASS
6	654.92	16.6	36.77	20.160	46.00	9.23	PK	Vertic	PASS

Note:

1. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. If the test result on peak is lower than average limit, then average measurement needn't be performed.
4. All test data above 18GHz are noise base, so no data shown in this report.
5. In the report, below 1G, only the verification test is carried out for the worst channel of 1~18G worst mode.
6. The below 1G test data was measured on the worst-case configuration selected from each transmission mode on the low and high channel.

Appendix B: Emission bandwidth and occupied bandwidth

Emission Bandwidth

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.000	5171.480	5188.480	---	---
		5200	17.000	5191.480	5208.480	---	---
		5240	17.000	5231.480	5248.480	---	---
		5260	17.000	5251.480	5268.480	---	---
		5280	17.000	5271.480	5288.480	---	---
		5320	17.040	5311.480	5328.520	---	---
		5500	17.000	5491.480	5508.480	---	---
		5580	17.000	5571.480	5588.480	---	---
		5700	17.040	5691.440	5708.480	---	---
		5745	21.800	5734.560	5756.360	---	---
		5785	25.200	5771.120	5796.320	---	---
		5825	21.760	5814.560	5836.320	---	---
11N20SISO	Ant1	5180	18.280	5170.840	5189.120	---	---
		5200	18.280	5190.840	5209.120	---	---
		5240	18.280	5230.840	5249.120	---	---
		5260	18.280	5250.840	5269.120	---	---
		5280	18.280	5270.840	5289.120	---	---
		5320	18.320	5310.840	5329.160	---	---
		5500	18.280	5490.840	5509.120	---	---
		5580	18.280	5570.840	5589.120	---	---
		5700	18.280	5690.840	5709.120	---	---
		5745	38.320	5725.840	5764.160	---	---
		5785	39.000	5765.160	5804.160	---	---
		5825	29.240	5814.920	5844.160	---	---
11N40SISO	Ant1	5190	37.600	5171.200	5208.800	---	---
		5230	37.600	5211.200	5248.800	---	---
		5270	37.600	5251.200	5288.800	---	---
		5310	37.600	5291.200	5328.800	---	---
		5510	37.520	5491.200	5528.720	---	---
		5550	37.600	5531.200	5568.800	---	---
		5670	37.600	5651.200	5688.800	---	---
		5755	57.840	5727.000	5784.840	---	---
		5795	66.960	5758.040	5825.000	---	---
11AC20SISO	Ant1	5180	18.280	5170.840	5189.120	---	---
		5200	18.280	5190.840	5209.120	---	---
		5240	18.280	5230.840	5249.120	---	---
		5260	18.280	5250.840	5269.120	---	---
		5280	18.280	5270.840	5289.120	---	---
		5320	18.280	5310.840	5329.120	---	---
		5500	18.280	5490.840	5509.120	---	---
		5580	18.280	5570.840	5589.120	---	---
		5700	18.280	5690.840	5709.120	---	---
		5745	29.240	5734.920	5764.160	---	---
		5785	38.920	5765.200	5804.120	---	---
		5825	18.360	5815.800	5834.160	---	---
11AC40SISO	Ant1	5190	37.600	5171.200	5208.800	---	---

		5230	37.600	5211.200	5248.800	---	---
		5270	37.600	5251.200	5288.800	---	---
		5310	37.520	5291.200	5328.720	---	---
		5510	37.520	5491.200	5528.720	---	---
		5550	37.520	5531.200	5568.720	---	---
		5670	37.600	5651.200	5688.800	---	---
		5755	57.760	5727.000	5784.760	---	---
		5795	66.960	5758.040	5825.000	---	---
11AX20SISO	Ant1	5180	19.680	5170.160	5189.840	---	---
		5200	19.720	5190.120	5209.840	---	---
		5240	19.720	5230.120	5249.840	---	---
		5260	19.720	5250.120	5269.840	---	---
		5280	19.720	5270.120	5289.840	---	---
		5320	19.760	5310.080	5329.840	---	---
		5500	19.680	5490.120	5509.800	---	---
		5580	19.680	5570.160	5589.840	---	---
		5700	19.720	5690.120	5709.840	---	---
		5745	24.320	5732.880	5757.200	---	---
		5785	24.280	5772.880	5797.160	---	---
		5825	24.240	5812.920	5837.160	---	---
11AX40SISO	Ant1	5190	39.360	5170.320	5209.680	---	---
		5230	39.360	5210.320	5249.680	---	---
		5270	39.360	5250.320	5289.680	---	---
		5310	39.440	5290.320	5329.760	---	---
		5510	39.280	5490.320	5529.600	---	---
		5550	39.360	5530.320	5569.680	---	---
		5670	39.360	5650.320	5689.680	---	---
		5755	51.680	5727.800	5779.480	---	---
		5795	52.640	5767.000	5819.640	---	---