



Test report No:

2680235R.702A

FCC TEST REPORT

Product Name	Cleco Connected Electronic Torque Wrench
Trademark	NA
Model and /or type reference	ETWC25IC-NA, ETWC100IC-NA, ETWC340IC-NA
FCC ID	2BGBLETW01
Applicant's name / address	Apex Tool Group 670 Industrial Drive Lexington, SC 29072, USA
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	2026-09-15
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.

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GENERAL CONDITIONS

Test Location	No. 668, Jiangling Nanxiang Road, Wujiang District, Suzhou City, Jiangsu Province, 215200 People's Republic of China
Test Facility	A2LA (Certificate No. 3235.01) CNAS (Certificate No. L5313) FCC - Designation Number: CN1199 Test Firm Registration Number: 566524 ISED - CAB identifier: CN0040 IC#: 4075B
Date (receive sample)	Aug. 08, 2026
Date (start test)	Aug. 10, 2026
Date (finish test)	Aug. 30, 2026

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.
5. 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.



DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2680235R.702A	V1.0	Initial issue of report.	2026-09-15

TEST SUMMARY

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 the band edges decreasing linearly to -27	PASS

			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	N/A
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 Note: Frequency stability is claimed by the equipment manufacturer to ensure that the transmitted signal remains within the operating frequency band under all normal operating conditions specified in the user manual.				

Requirement – Test case	Remark
Radiated Emission	Test data please refer to Appendix
Emission bandwidth and occupied bandwidth	Test data please refer to Appendix
6dB Emission Bandwidth	Test data please refer to Appendix
Duty cycle	Test data please refer to Appendix
Power Output	Test data please refer to Appendix
Peak Power Spectral Density	Test data please refer to Appendix
Radiated Emission Band Edge	Test data please refer to Appendix
AC Power Line Conducted Emissions	Test data please refer to Appendix
Dynamic Frequency Selection (DFS)	Test data please refer to Appendix
Antenna Requirement	---

USED EQUIPMENT

Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielded room	Maorui	5m*4m*3m	SR103	2023.08.23	2028.08.22
Wideband Radio Communication	R&S	CMW 500	163864	2026.05.08	2027.05.07
Signal Generator	R&S	SMR 20	100654	2026.05.08	2027.05.07
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2026.08.04	2027.08.03
RF Control Unit	Tonscend	JS0806-2	806JS2X021710251017	2026.06.23	2027.06.22
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2026.06.17	2027.06.16
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2026.06.17	2027.06.16
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A

Radiated Emission (9KHz-1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
semi-anechoic chamber	Maorui	9m*6m*6m	AC102	2023.08.23	2028.08.22
Bilog Antenna	TESEQ	CBL6112D	57867	2026.05.11	2027.05.10
EMI test receiver	R&S	ESR7	102753	2026.05.08	2027.05.07
Temperature/Humidity Meter	RITERS	RTS-8S	13	2026.08.29	2027.08.28
Temperature/Humidity Meter	RITERS	RTS-8S	15	2026.08.25	2027.08.24
Dekra test software	Dekra	N/A	N/A	N/A	N/A

AC Power Line Conducted Emission

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielded room	Maorui	9m*4m*4m	SR104	2023.08.23	2028.08.22
V-network	R&S	ENV216	101516	2026.05.10	2027.05.09
EMI test receiver	R&S	ESR3	103140	2026.05.07	2027.05.06
V-LISN	R&S	ENV4200	100748	2026.05.10	2027.05.09
Temperature/Humidity Meter	RITERS	RTS-8S	026	2026.08.29	2027.08.28
Dekra test software	Dekra	N/A	N/A	N/A	N/A

Radiated Emission Band Edge (1GHz-40GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Fully-anechoic chamber	Maorui	9m*6m*6m	AC103	2023.08.23	2028.08.22
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2026.08.04	2027.08.03
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2025.10.19	2026.10.18
Low Noise Amplifier	Tonscend	TAP01018048S	AP23J8060307	2025.10.16	2026.10.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2025.10.24	2026.10.23
Low Noise Amplifier	ESE	LNA1840	LNA23070301	2025.10.16	2026.10.15
Temperature/Humidity Meter	RITERS	RTS-8S	010	2026.08.25	2027.08.24
Test Software	Tonscend	J536	JS36-RSE	N/A	N/A

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	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.5 dB 300MHz~1GHz: 3.6 dB Vertical: 30MHz~200MHz: 3.6 dB 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.0 dB Vertical: 1GHz~18GHz: 4.8 dB Horizontal: 18GHz~26.5GHz: 5.3 dB Vertical: 18GHz~26.5GHz: 4.9 dB
RF antenna conducted test	± 1.3 dB
Carrier Frequency Separation	± 1.0 kHz
Number of Hopping Frequencies	± 1.0 kHz
Time of Occupancy (Dwell Time)	± 0.10 us
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

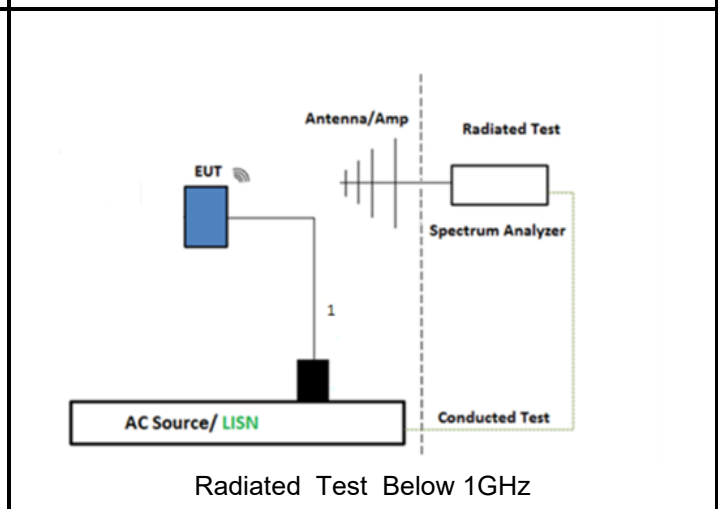
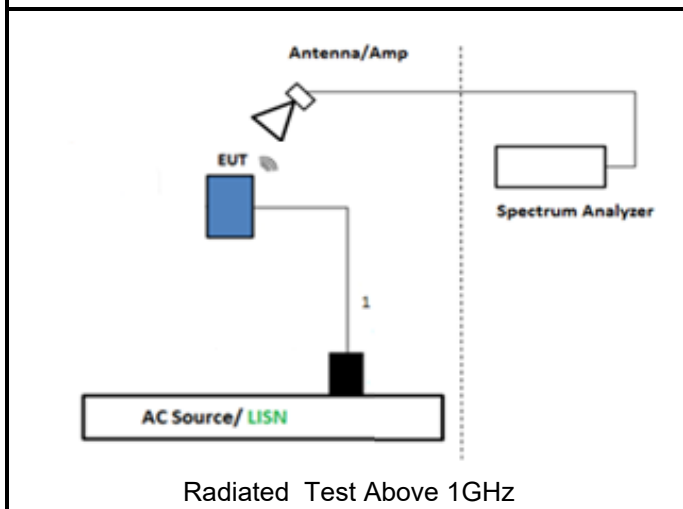
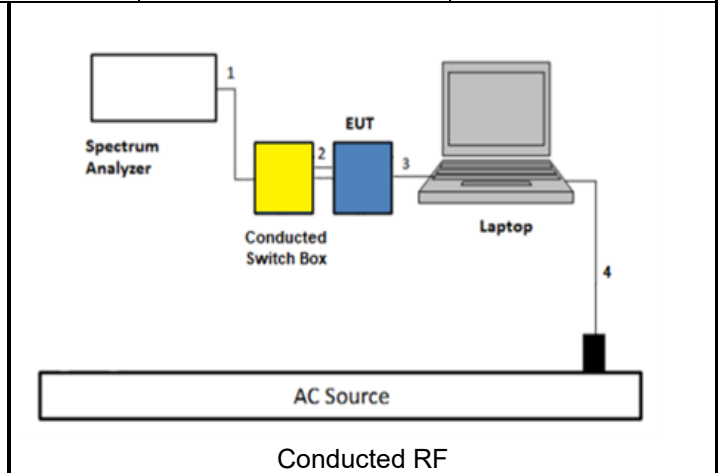
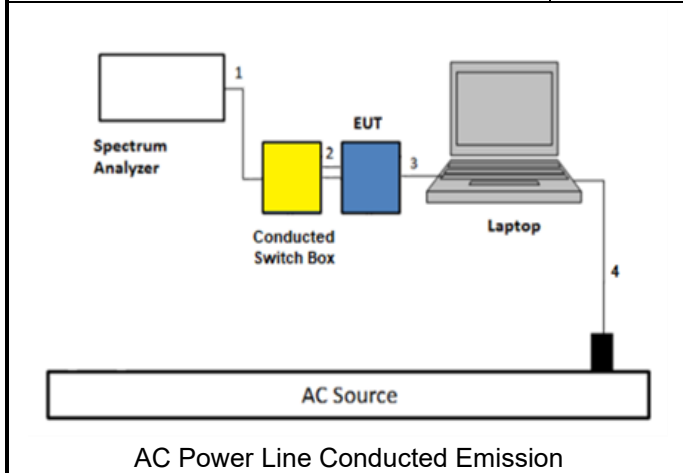
Product Name	Cleco Connected Electronic Torque Wrench		
Model No.	ETWC25IC-NA, ETWC100IC-NA, ETWC340IC-NA		
Trademark.	NA		
FCC ID.....	2BGBLETW01		
Hardware Version.....	NA		
Software Version	NA		
Model Differences	Differences of the three models are the torque head dimensions and the length of mechanical part.		
Manufacturer	Apex Tool Group		
Manufacturer Address	670 Industrial Drive Lexington, SC 29072, USA		
Factory.....	Jacobs Chuck Manufacturing (Suzhou) Co., Ltd.		
Factory Address	No. 26, Baiyu Road, S.I.P. Suzhou, China		
Power Supply	3.6 Vdc, EUT is equipped with an adapter to power it via AC/DC.		
SN.....	RF Conducted	#1	
	RSE	#2	
Wireless specification	Wi-Fi		
Frequency Range	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		
Channel Spacing	802.11a 20 MHz		
	802.11n 20 MHz, 40 MHz		
Modulation technology	OFDM		
Smart System	☒	SISO	
	☐	MIMO-CDD	
DFS Function.....	☐	Master device	
	☐	Slave with radar detection	
	☒	Slave without radar detection	
TPC Function:	☒	Support	☐ Not Support
Antenna type	PCB		
Antenna Gain	5.0 dBi		
Remark: 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.			

Power setting in test

5GHz WLAN	Mode	Channel	Frequency (MHz)	Power Setting
	802.11a 6Mbps	36	5180	115.0
		40	5200	115.0
		48	5240	115.0
		52	5260	115.0
		56	5280	115.0
		64	5320	115.0
		100	5500	118.0
		116	5580	118.0
		140	5700	118.0
		149	5745	127.0
		157	5785	127.0
		165	5825	127.0
	802.11n-HT20 MCS0	36	5180	115.0
		40	5200	115.0
		48	5240	115.0
		52	5260	115.0
		56	5280	115.0
		64	5320	115.0
		100	5500	118.0
		116	5580	118.0
		140	5700	118.0
		149	5745	127.0
		157	5785	127.0
		165	5825	127.0
	802.11n-HT40 MCS0	38	5190	118.0
		46	5230	118.0
		54	5270	105.0
		62	5310	105.0
		102	5510	127.0
		118	5590	127.0
		134	5670	127.0
		151	5755	127.0
		159	5795	127.0

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) Ethernet cable	N/A	N/A	N/A
(3) Ethernet cable	N/A	N/A	N/A
Software	Type / Version	Manufacturer	Supplied by
ADB	N/A	N/A	N/A



Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2) Ethernet cable	1	☒	☒
(3) Ethernet cable	8	☒	☒

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 D02V02r01	2017	This document provides guidance for determining emissions compliance of U-NII devices under Part 15, Subpart E of the FCC rules.
KDB 662911 D01V02r01	2020	Provision to Allow Measurement of Directional Gain of Multi-Antenna Systems for Compliance Verification
KDB 905462 D02V02	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)

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

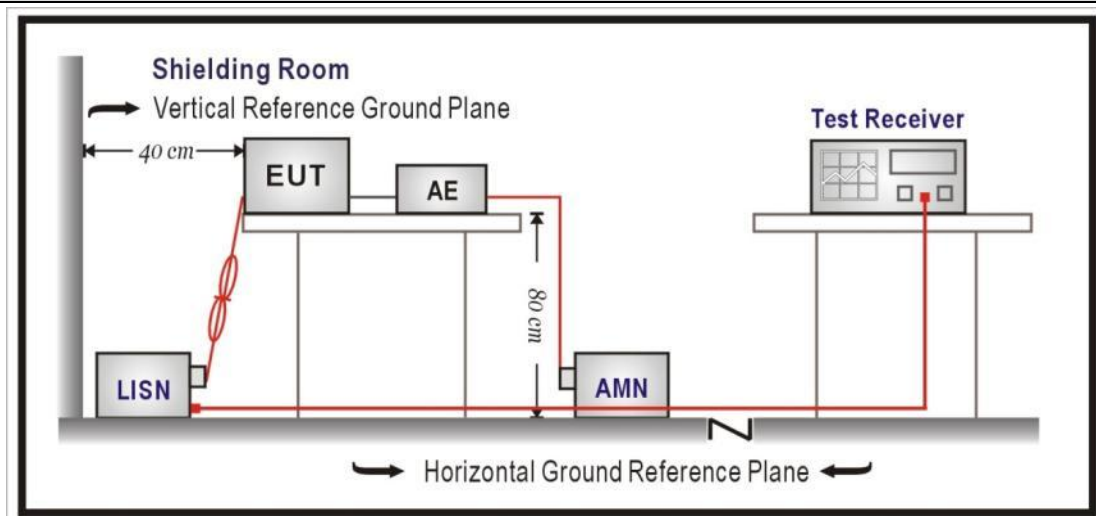
¹⁾ At the transition frequency, the lower limit applies.

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)

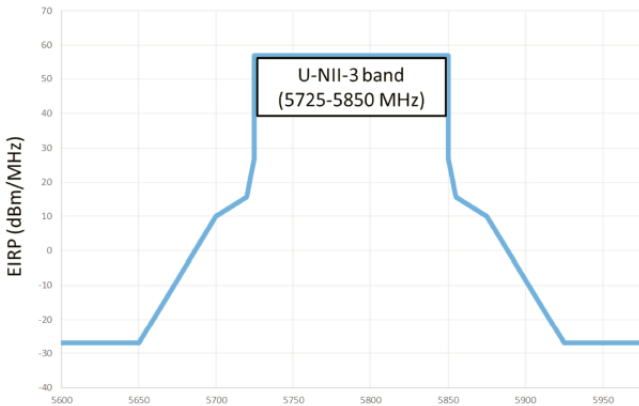
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 - 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note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

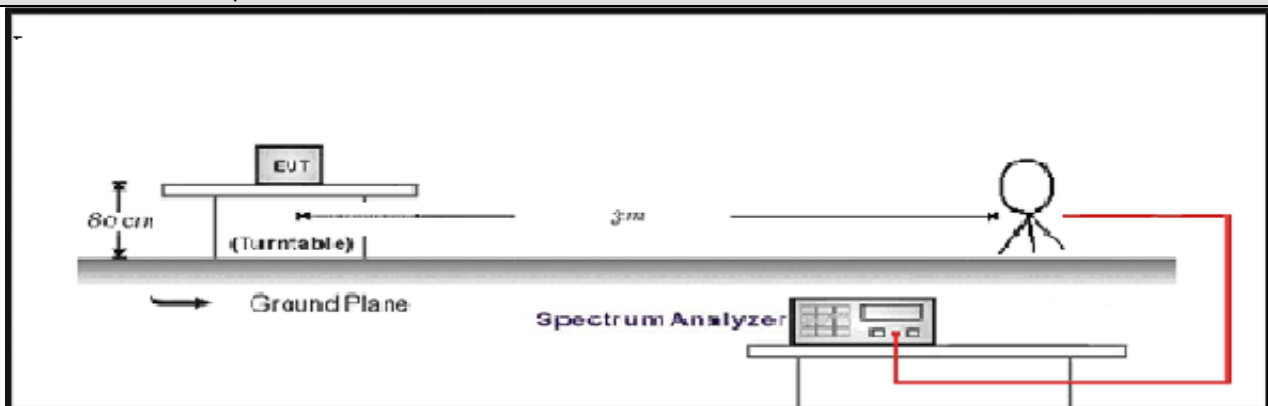
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified 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)

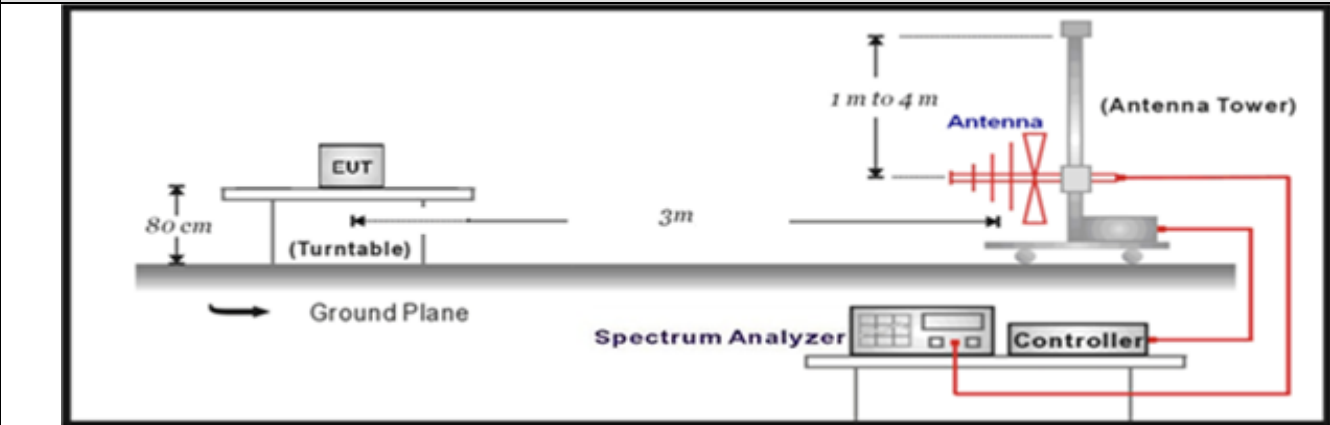
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850		

4.2.2 Test Setup

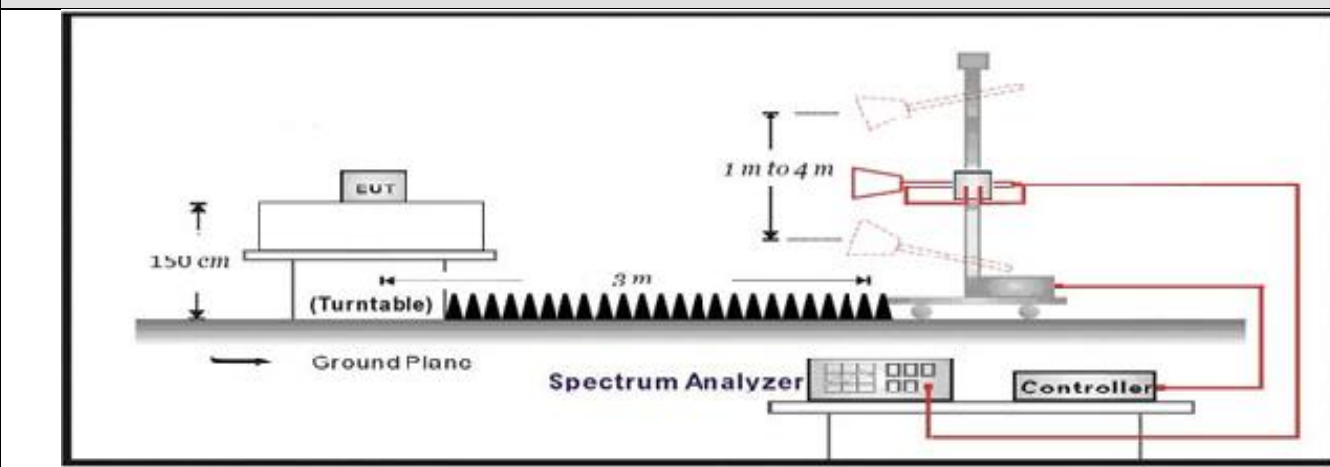
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

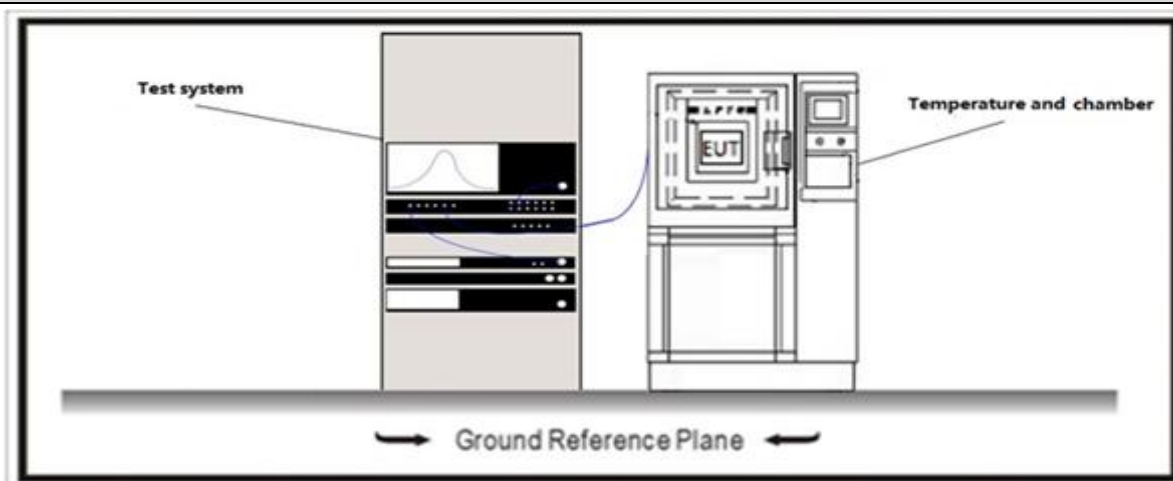
Test Method			
References Rule	Chapter	Description	
☐ ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands	
☒ ANSI C63.10	12.7.2	Emissions in restricted frequency bands	
☒ ANSI C63.10	12.7.5	Radiated emission measurements	
☒ ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements 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
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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
☒	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

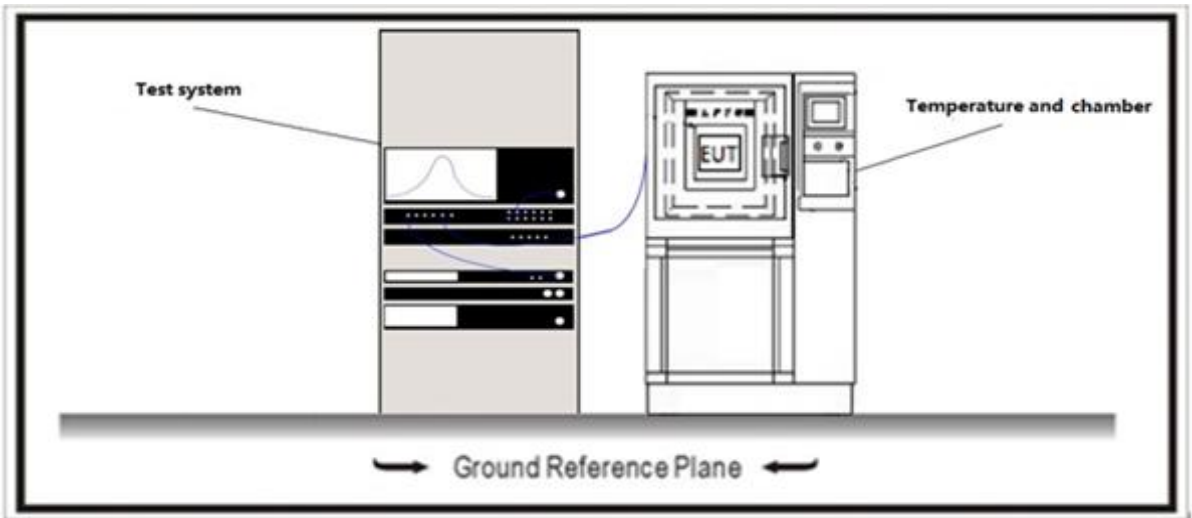
4.4 6dB bandwidth

VERDICT: PASS

4.4.1 Limit

Standard	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)
6dB Bandwith $\geq 500\text{kHz}$	

4.4.2 Test Setup



4.4.3 Test Procedure

Test Method				
	References Rule		Chapter	Description
☒	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

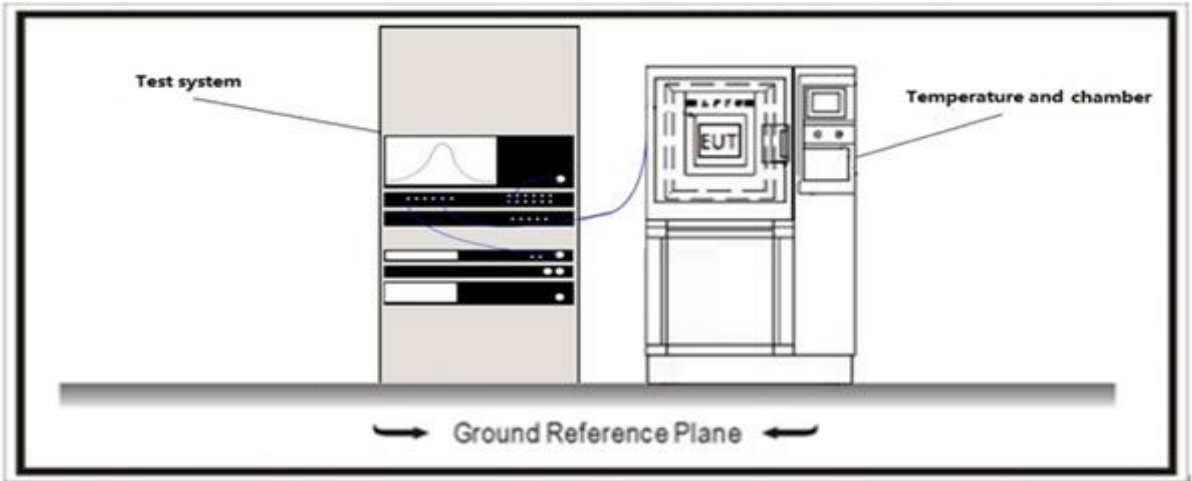
4.5 Duty cycle

VERDICT: PASS

4.5.1 Limit

N/A

4.5.2 Test Setup

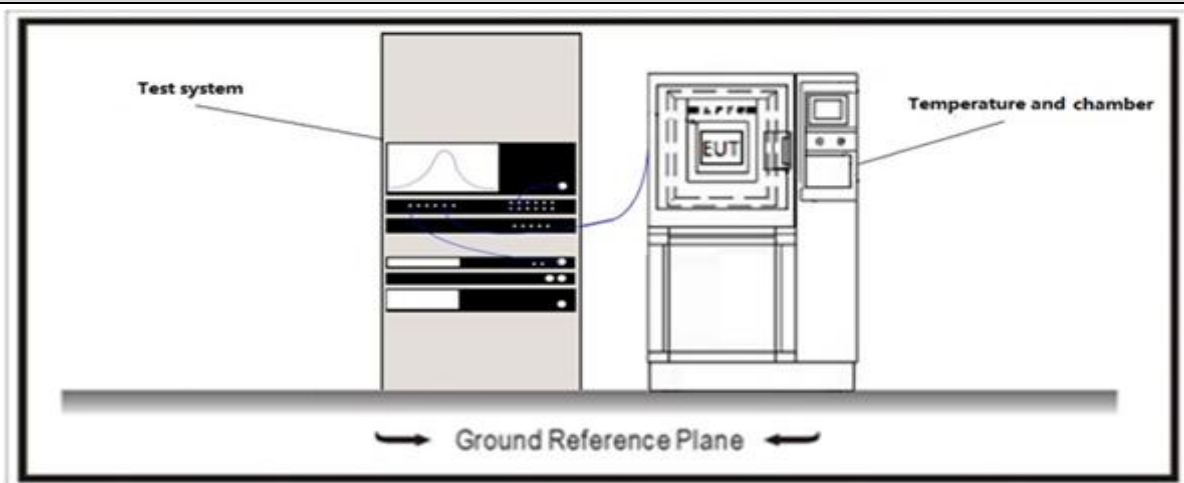


4.5.3 Test Procedure

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	
☒	Client Devices:	the maximum conducted output power shall not exceed 250 mW. If $G_{TX} > 6\text{dBi}$
☒	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 : G_{TX} directional gain of transmitting antennas.Note 2 : P_{out} 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)

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)e)	Spatial stream
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

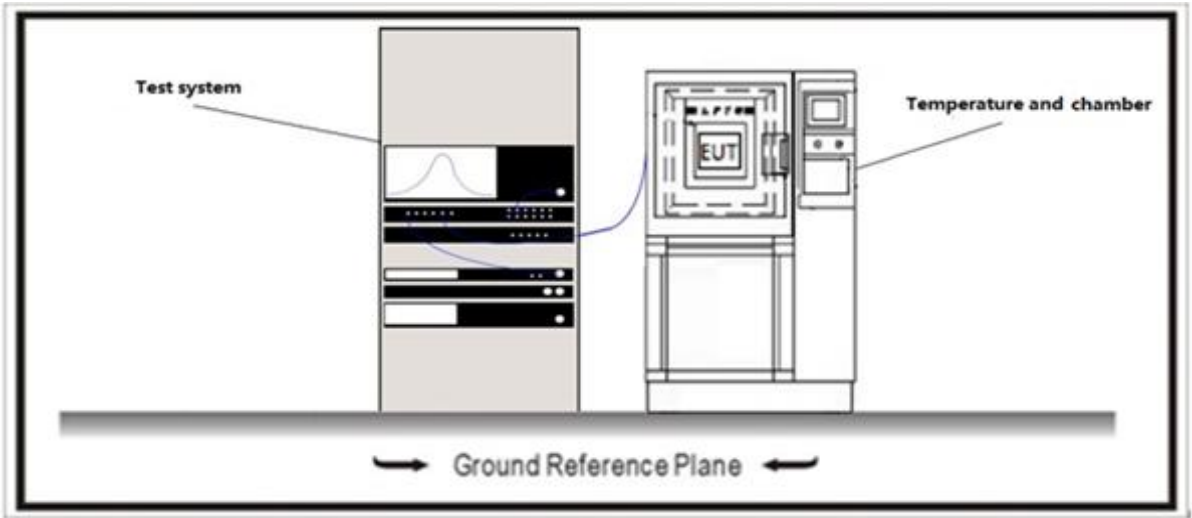
4.7 Maximum Power Spectral Density**VERDICT: PASS****4.7.1 Limit**

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 $P_{out} \leq 17 - (G_{TX} - 6)$	
☒	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 .		

Directional Gain Calculations for In-Band test method

	References Rule		Chapter	Description
☒	KDB 662911		E2)c)	In-Band Power Spectral Density (PSD) Measurements
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☒	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.7.2 Test Setup



4.7.3 Test Procedure

	References Rule	Chapter	Description
☒	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)

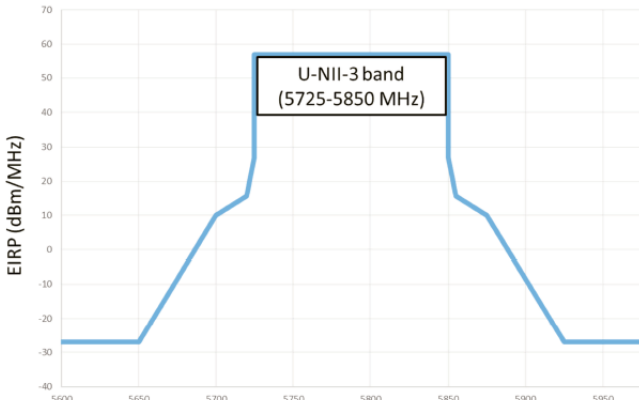
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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.

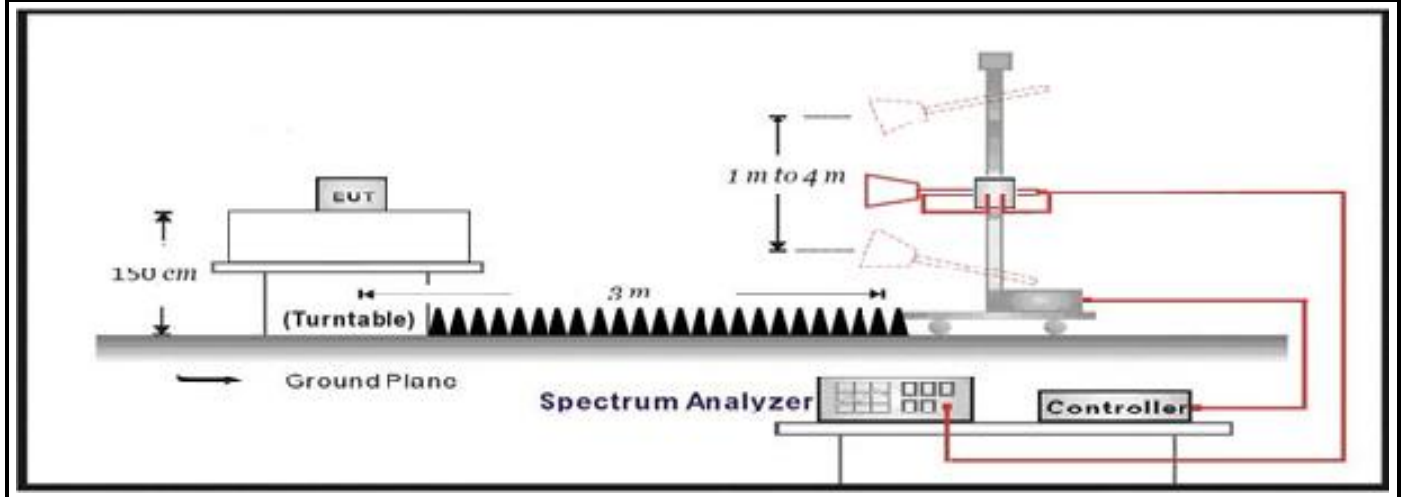
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified 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.

4.9 Frequency Stability

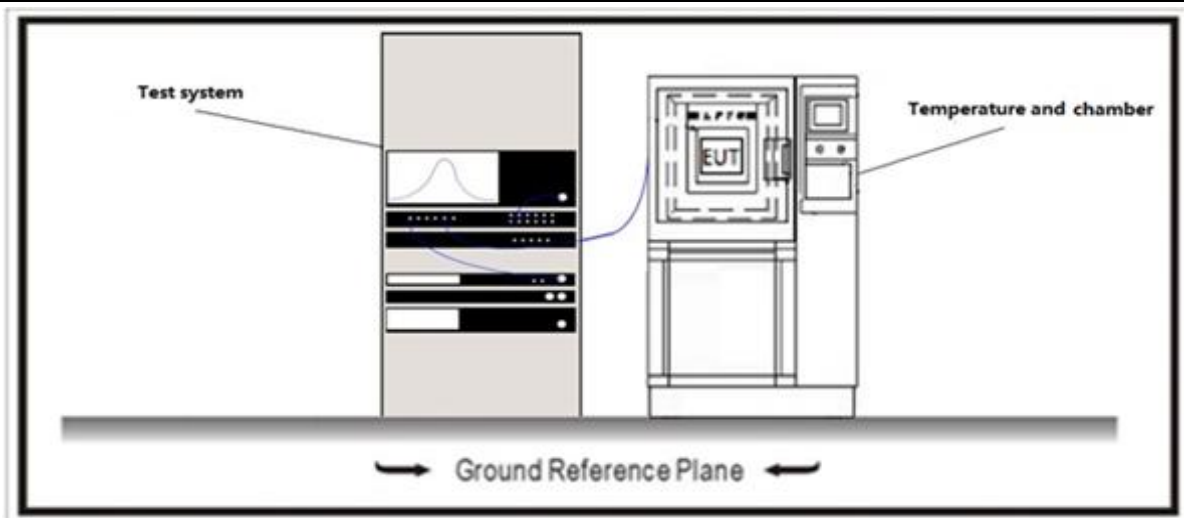
VERDICT: N/A

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

UNII Device Description

The UUT operates in the following band:

1. 5250-5350 MHz
2. 5470-5725 MHz.

The UUT is a Client Device that does not have radar detection capability and ad-hoc function. The highest gain antenna assembly utilized with the EUT has a maximum gain refer to clause 1.1. The 50-ohm Tx/Rx antenna port is connected to the test system to perform conducted tests. TPC is not required since the maximum EIRP is less than 500mW (27dBm).

The UUT utilizes 802.11a/n/ac/ax IP based architecture. Three nominal channel bandwidths, 20 MHz, 40MHz and 80MHz are implemented.

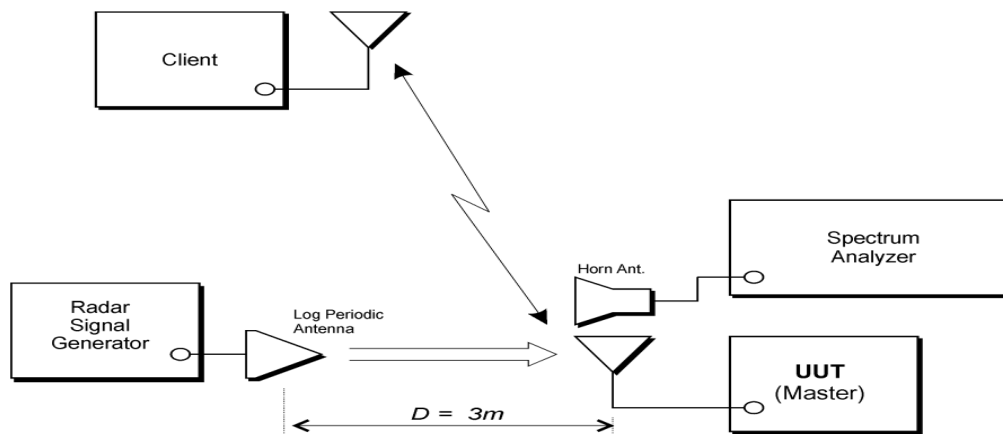
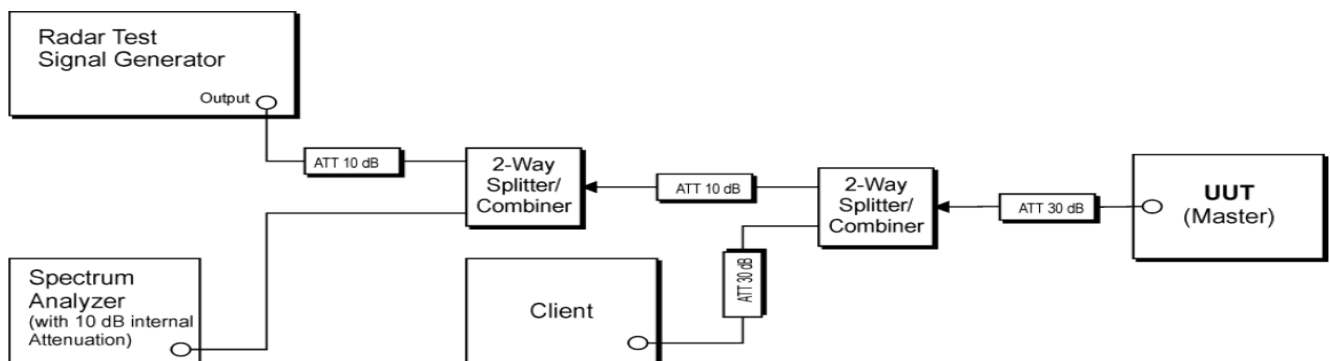
The master device is an ASUS 802.11a/b/g/n/ac/ax/be Access Point. The ASUS Access Point FCC ID: MSQ-RTBE6X00.

The time required for the master and slave devices to fully start is 120 seconds.

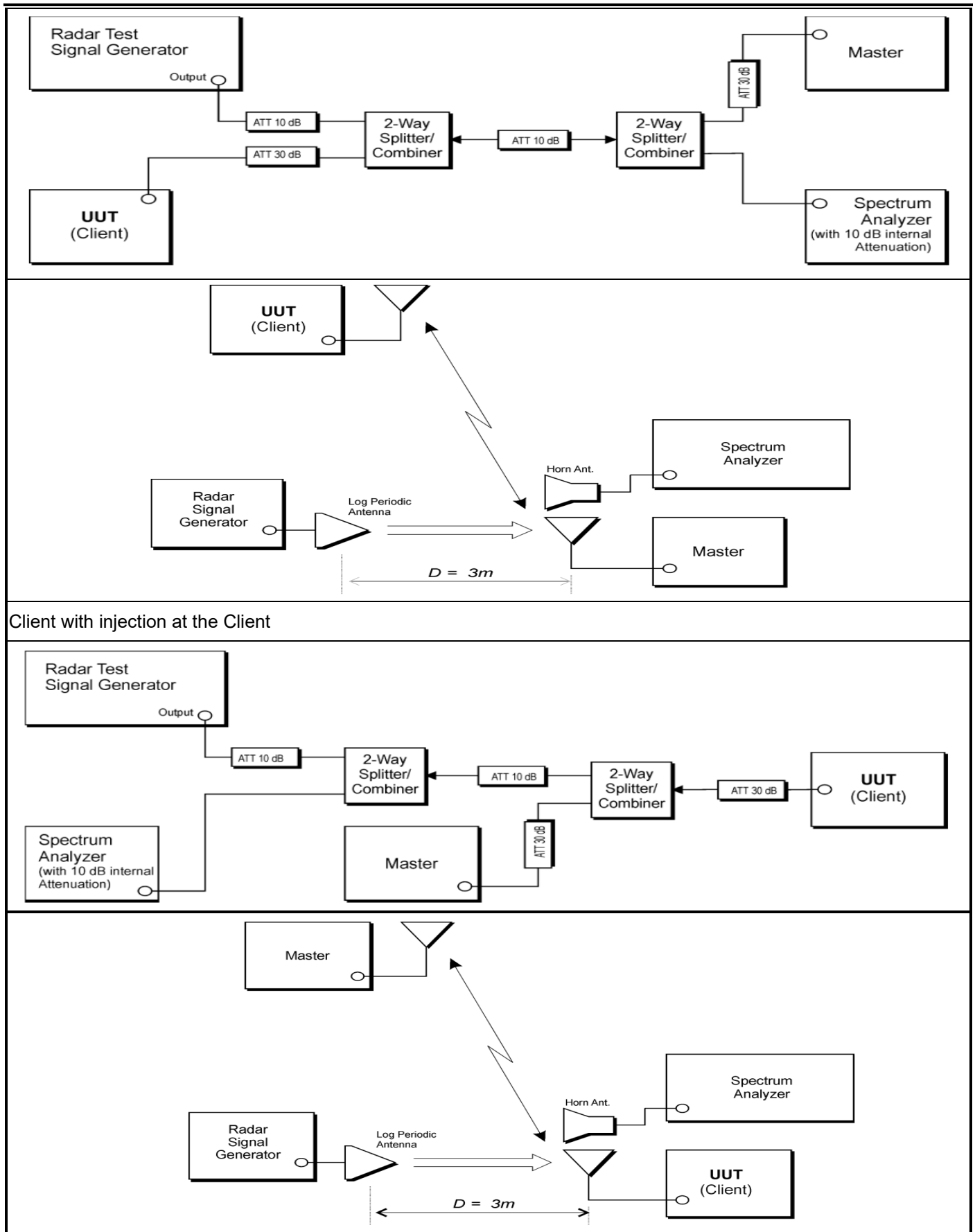
The UUT is a client device without radar detection therefore the interference threshold level is not required.

Statement: Information regarding the parameters of the detected Radar Waveforms is not available to the end user.

Master with injection at the Master



Client with injection at the Master



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.

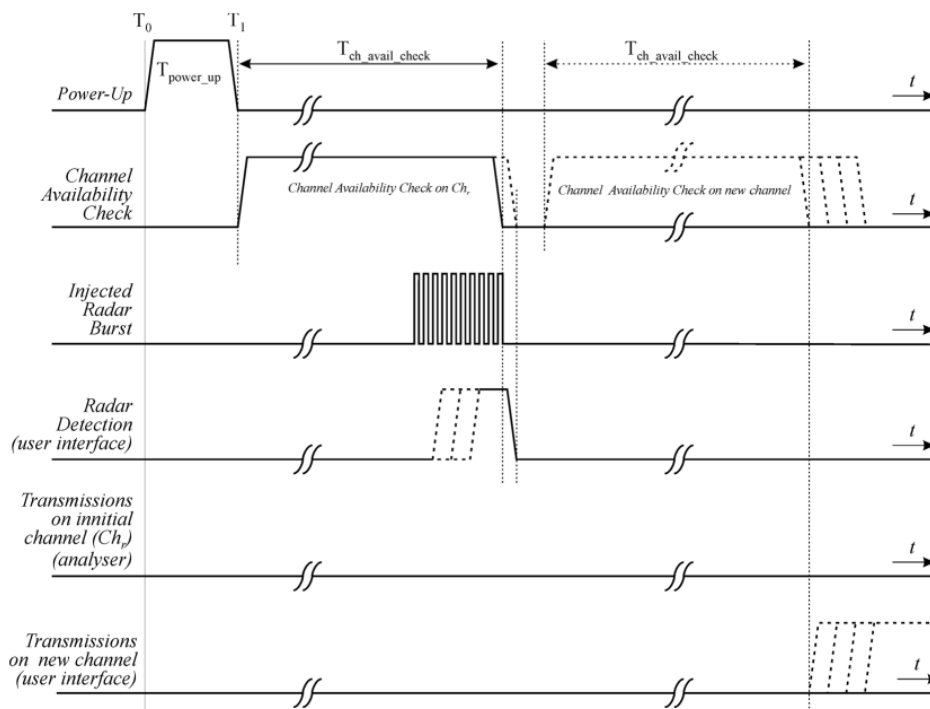


Figure 9: Example of timing for radar testing towards the end of the Channel Availability Check Time

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).

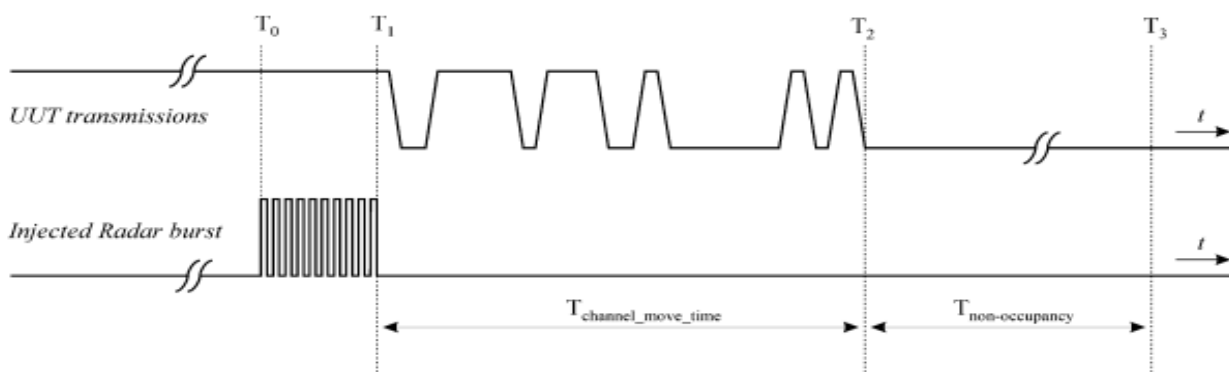


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

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.

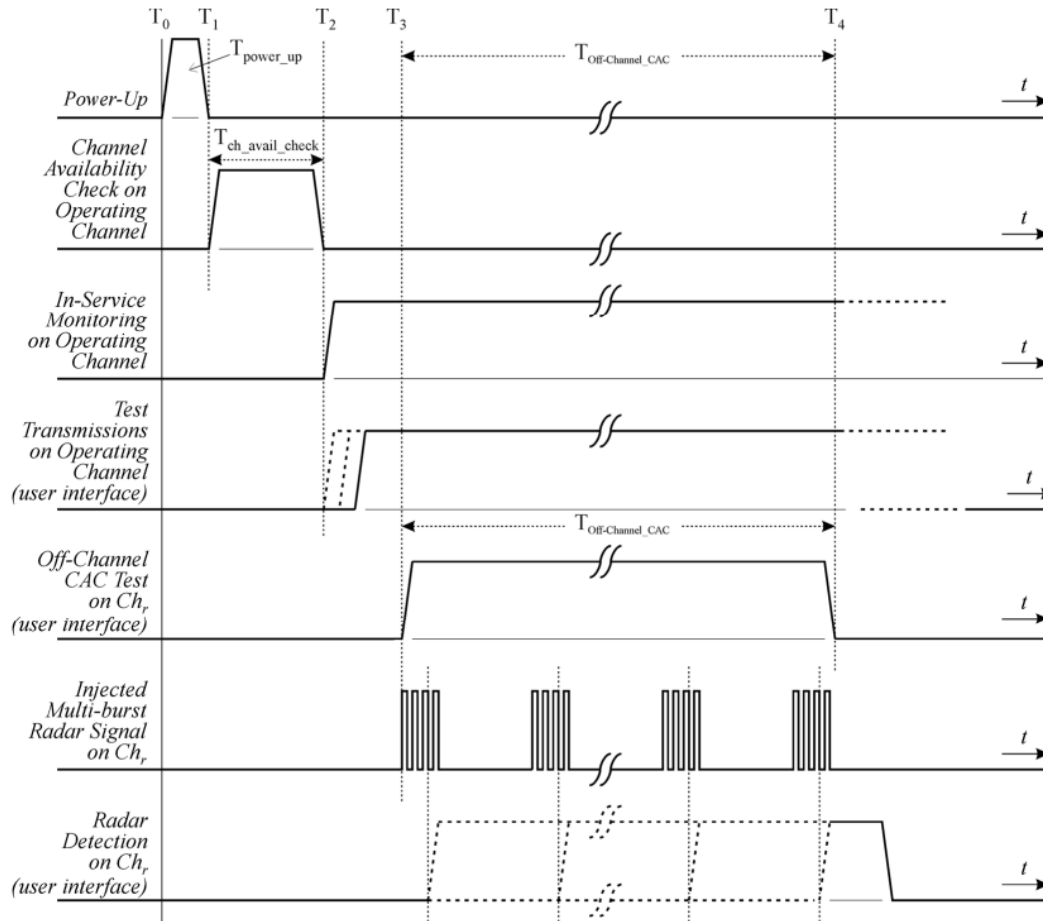


Figure 11: Example of timing for radar testing during the Off-Channel CAC

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 Ch_r , 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 Ch_r . While the testing is performed on Ch_r , 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 Ch_r 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.

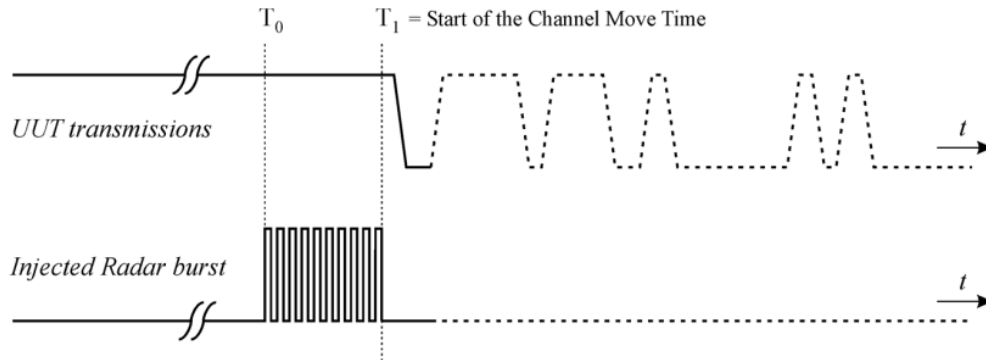


Figure 12: Example of timing for radar testing during In-Service Monitoring

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.

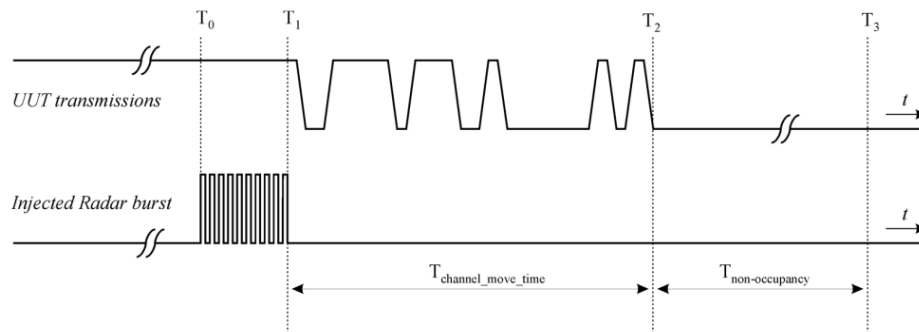


Figure 13: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

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.	

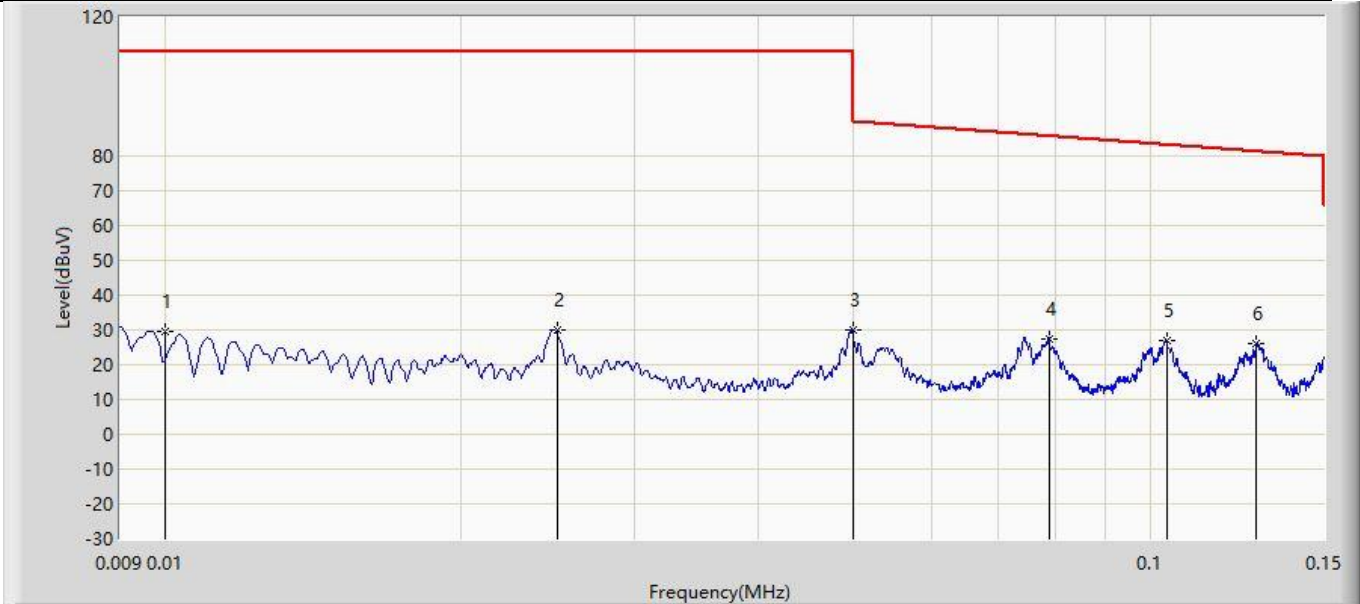
5 TEST SETUP PHOTO AND EUT PHOTO

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

Appendix

AC Power Line Conducted Emission

Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
Note: Transmit at 5180MHz by 802.11a	Power: AC 120V/60Hz



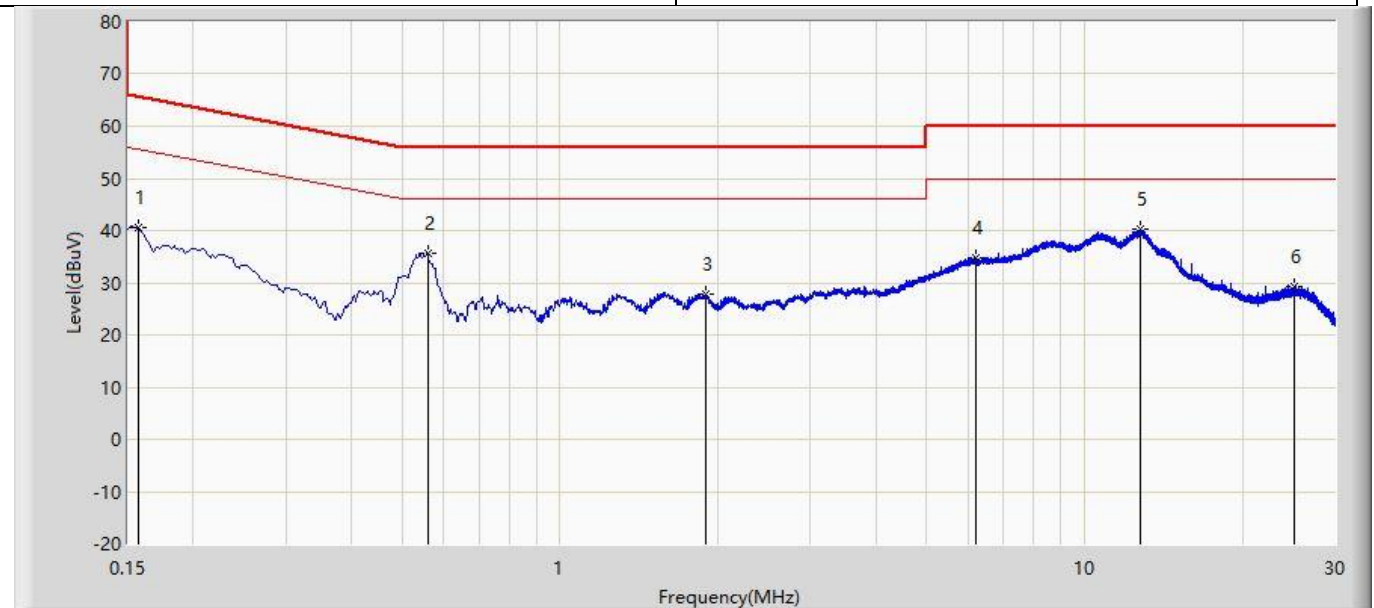
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.010	29.526	19.177	-80.474	110.000	10.349	QP
2		0.025	29.986	19.951	-80.014	110.000	10.035	QP
3		0.050	29.884	20.153	-60.116	90.000	9.731	QP
4		0.079	27.544	17.840	-58.293	85.836	9.704	QP
5		0.104	27.168	17.479	-56.166	83.334	9.689	QP
6	*	0.128	26.189	16.510	-55.254	81.444	9.679	QP

Probe: ENV216_101189(0.009-30MHz)

Polarity: Line

Note: Transmit at 5180MHz by 802.11a

Power: AC 120V/60Hz



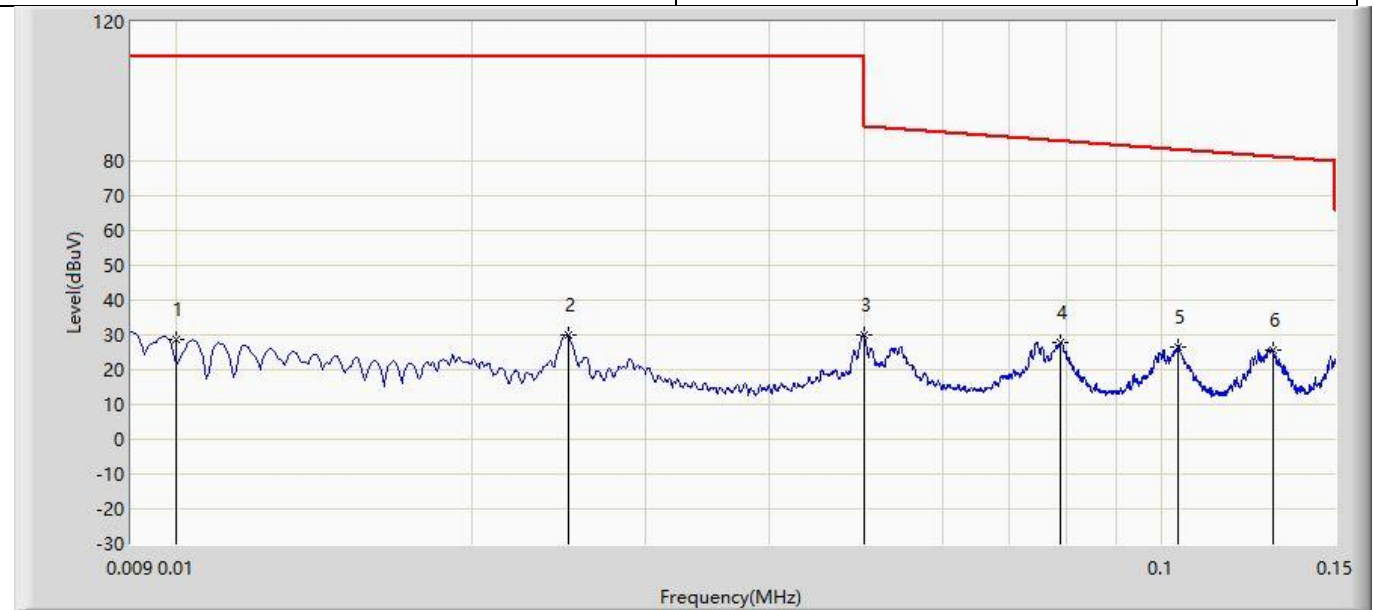
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.157	40.525	30.856	-25.096	65.621	9.669	QP
2		0.559	35.677	25.986	-20.323	56.000	9.690	QP
3		1.898	27.824	18.066	-28.176	56.000	9.758	QP
4		6.185	34.830	24.986	-25.170	60.000	9.844	QP
5	*	12.795	40.215	30.242	-19.785	60.000	9.973	QP
6		25.139	29.355	18.598	-30.645	60.000	10.757	QP

Probe: ENV216_101189(0.009-30MHz)

Polarity: Neutral

Note: Transmit at 5180MHz by 802.11a

Power: AC 120V/60Hz



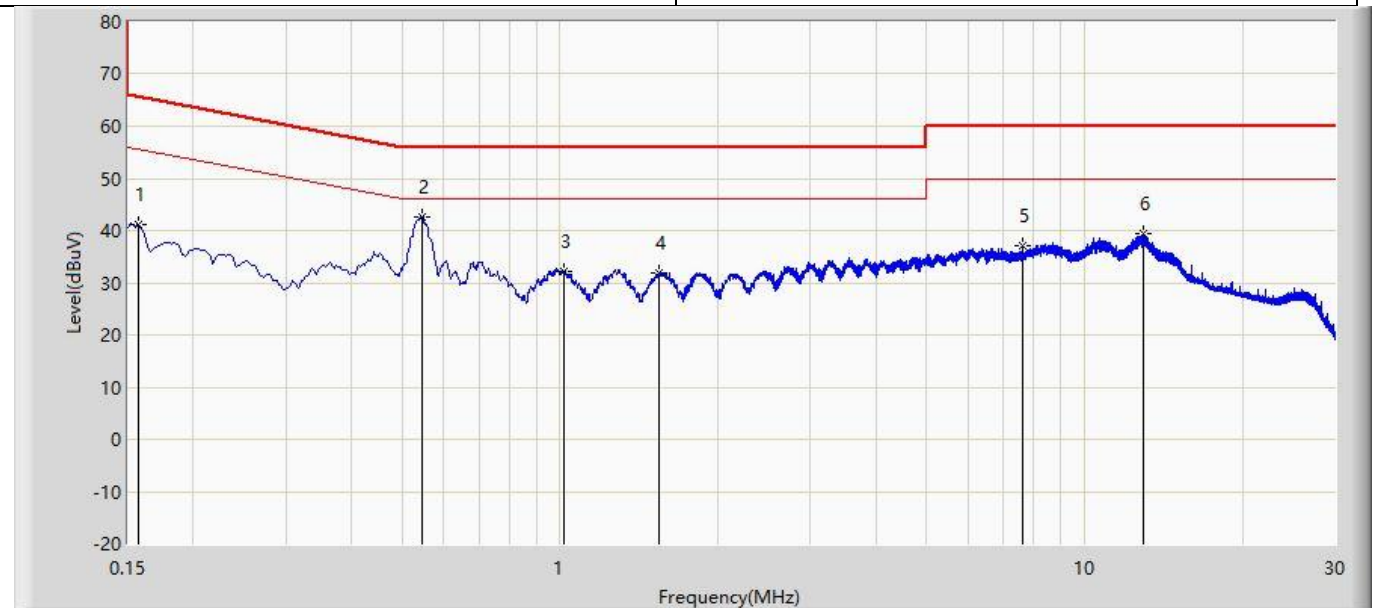
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.010	28.563	18.175	-81.437	110.000	10.388	QP
2		0.025	30.115	20.058	-79.885	110.000	10.057	QP
3		0.050	29.972	20.241	-60.028	90.000	9.731	QP
4		0.079	27.690	18.005	-58.147	85.836	9.685	QP
5		0.104	26.694	17.037	-56.640	83.334	9.657	QP
6	*	0.130	25.738	16.058	-55.564	81.303	9.680	QP

Probe: ENV216_101189(0.009-30MHz)

Polarity: Neutral

Note: Transmit at 5180MHz by 802.11a

Power: AC 120V/60Hz



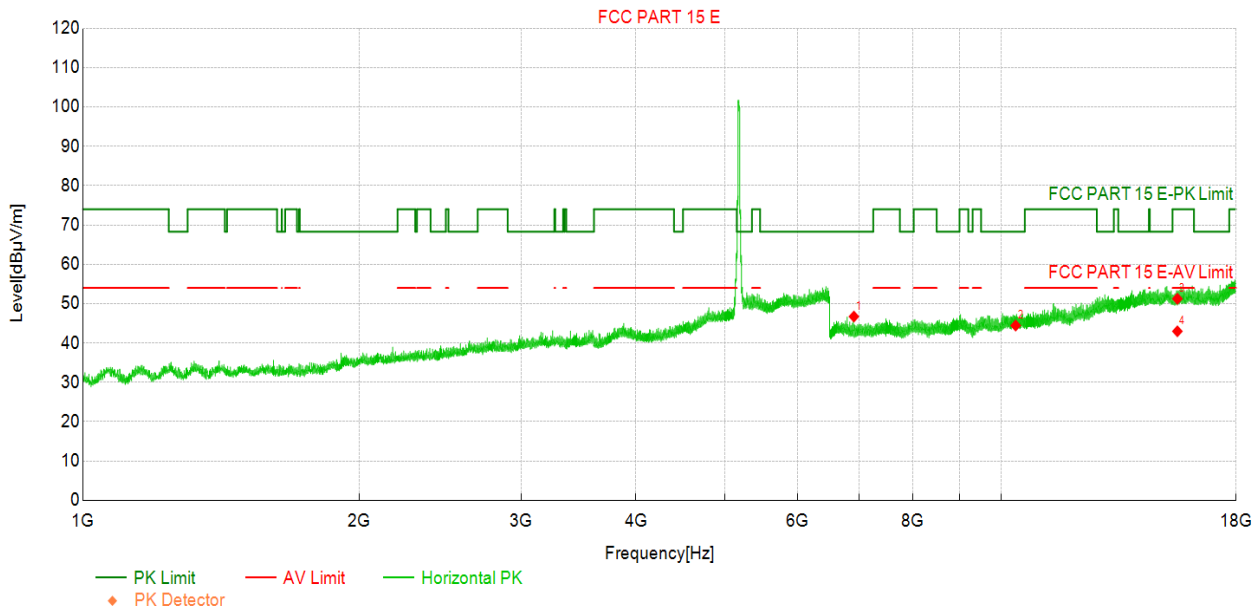
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.157	41.029	31.339	-24.592	65.621	9.690	QP
2	*	0.546	42.551	32.945	-13.449	56.000	9.606	QP
3		1.016	32.315	22.635	-23.685	56.000	9.680	QP
4		1.545	31.877	22.189	-24.123	56.000	9.688	QP
5		7.624	37.019	27.094	-22.981	60.000	9.925	QP
6		12.962	39.337	29.327	-20.663	60.000	10.010	QP

Note: Level = Reading + Factor (Antenna factor + Amplifier factor + Cable loss)

Radiated Emission

Transmit at 5180MHz by 802.11a

Test Graph

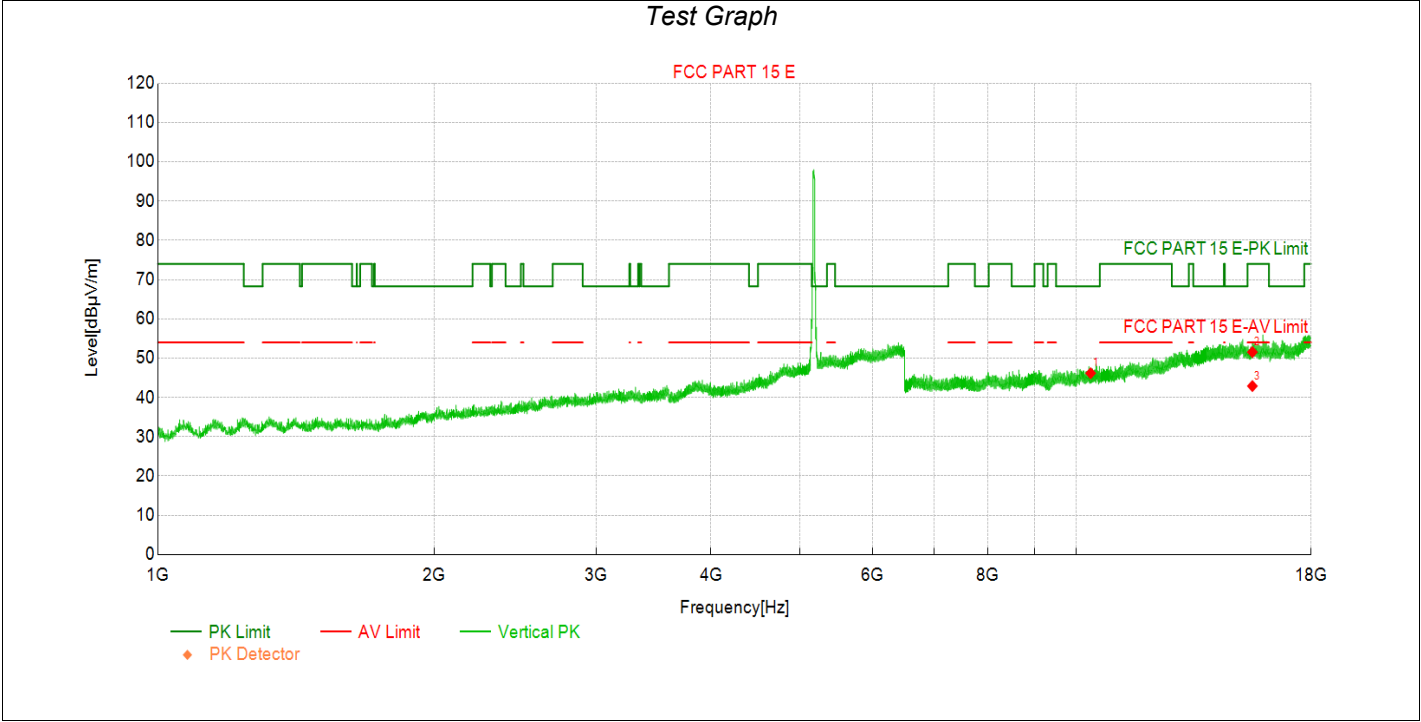


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	6906.81	47.67	46.72	-0.950	68.30	21.58	PK	Horizo	PASS
2	10360.00	41.23	44.44	3.210	68.30	23.86	PK	Horizo	PASS
3	15540.00	38.38	51.24	12.860	74.00	22.76	PK	Horizo	PASS
4	15540.00	30.12	42.98	12.860	54.00	11.02	AV	Horizo	PASS



Transmit at 5180MHz by 802.11a

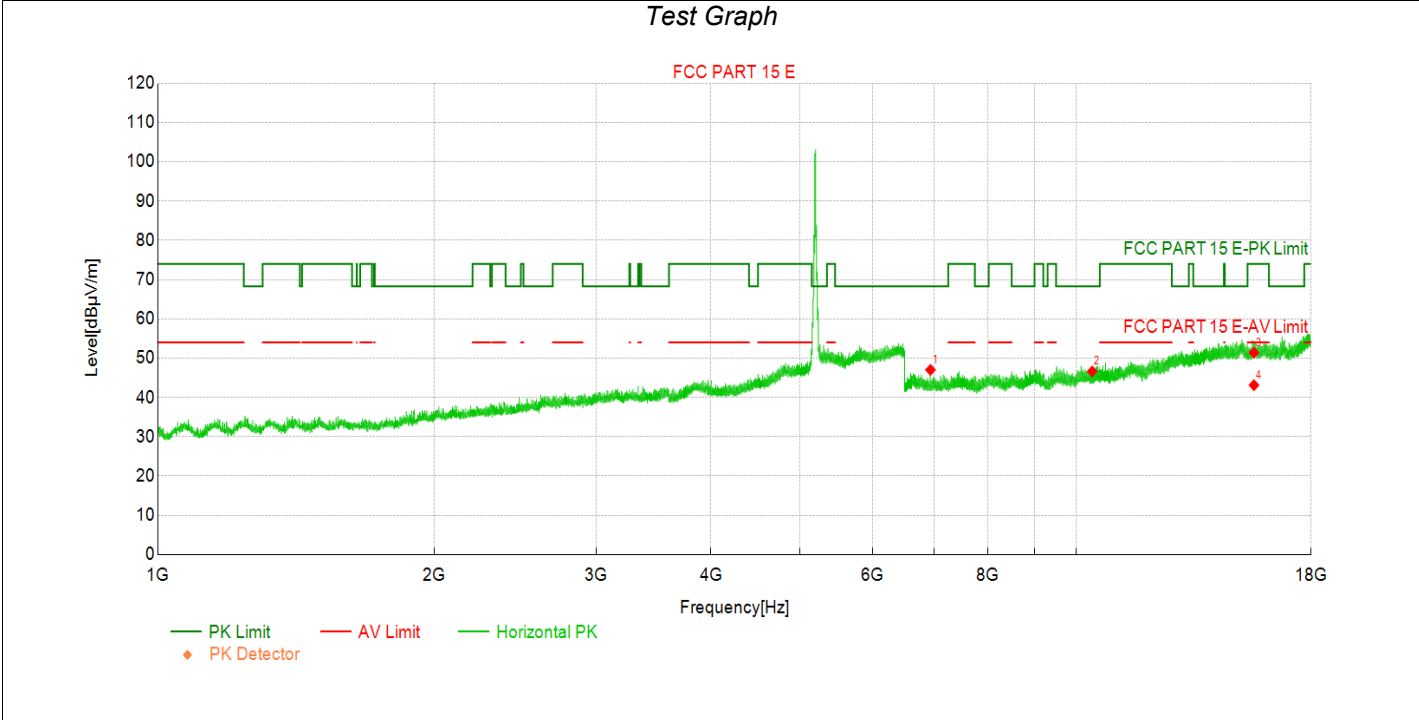


Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	42.96	46.17	3.210	68.30	22.13	PK	Vertic	PASS
2	15540.00	38.69	51.55	12.860	74.00	22.45	PK	Vertic	PASS
3	15540.00	30.04	42.90	12.860	54.00	11.10	AV	Vertic	PASS

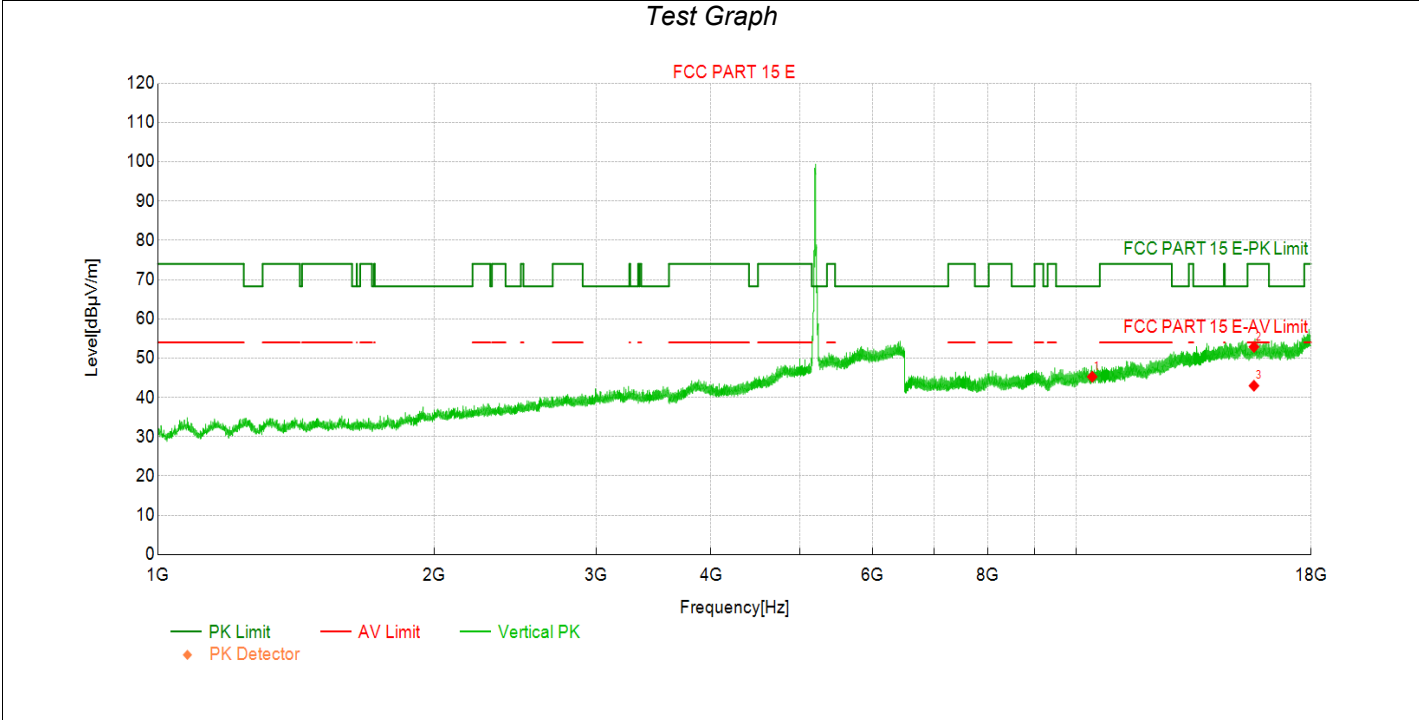


Transmit at 5200MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	6933.65	47.91	47.03	-0.880	68.30	21.27	PK	Horizo	PASS
2	10400.00	43.47	46.64	3.170	68.30	21.66	PK	Horizo	PASS
3	15600.00	38.40	51.38	12.980	74.00	22.62	PK	Horizo	PASS
4	15600.00	30.14	43.12	12.980	54.00	10.88	AV	Horizo	PASS

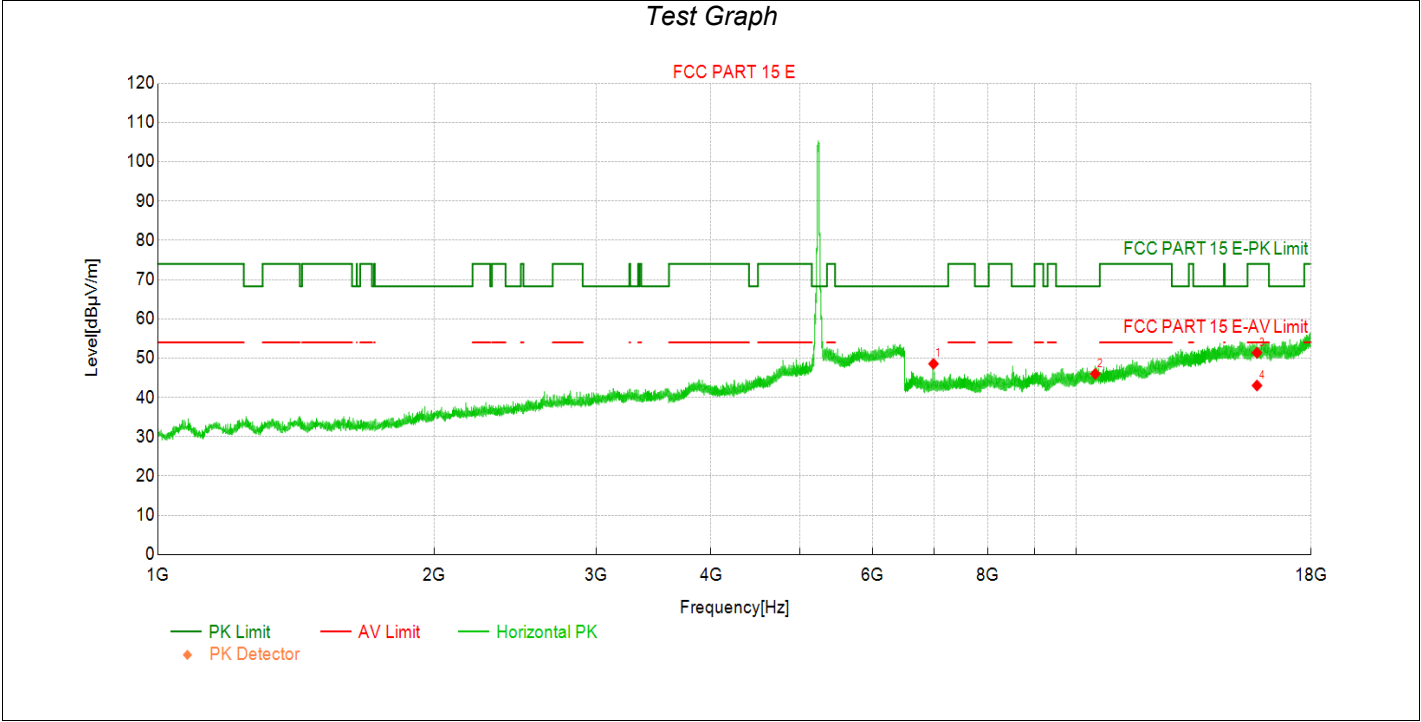
Transmit at 5200MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	42.10	45.27	3.170	68.30	23.03	PK	Vertic	PASS
2	15600.00	39.89	52.87	12.980	74.00	21.13	PK	Vertic	PASS
3	15600.00	30.00	42.98	12.980	54.00	11.02	AV	Vertic	PASS



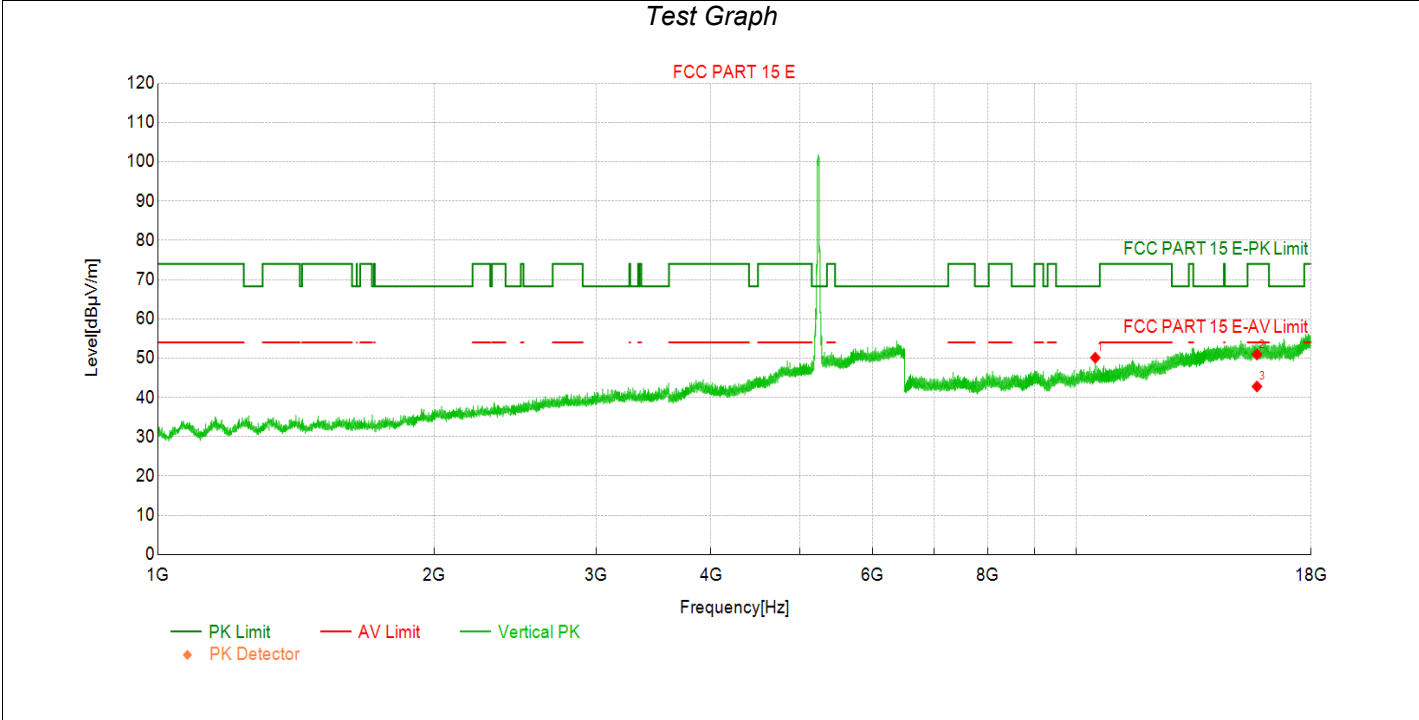
Transmit at 5240MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	6986.83	49.34	48.56	-0.780	68.30	19.74	PK	Horizo	PASS
2	10480.00	42.41	46.00	3.590	68.30	22.30	PK	Horizo	PASS
3	15720.00	38.50	51.38	12.880	74.00	22.62	PK	Horizo	PASS
4	15720.00	30.15	43.03	12.880	54.00	10.97	AV	Horizo	PASS

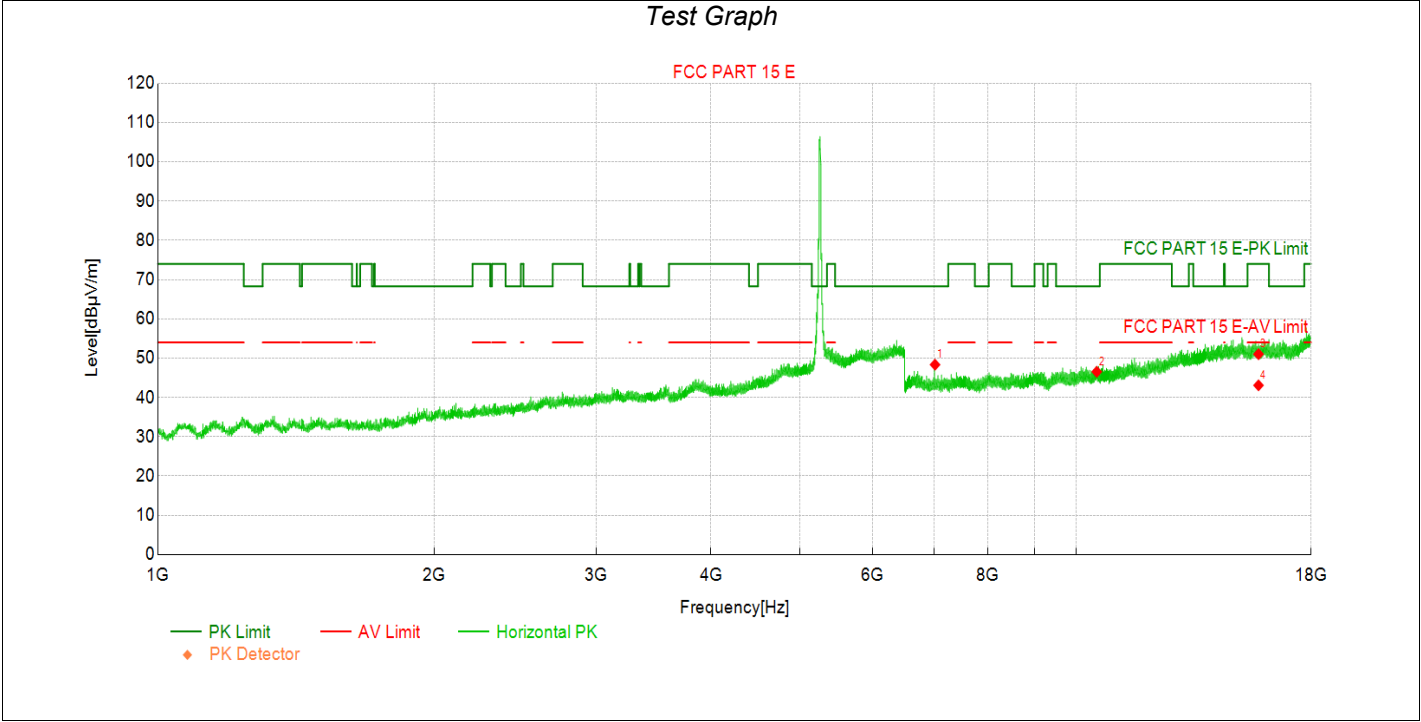


Transmit at 5240MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	46.52	50.11	3.590	68.30	18.19	PK	Vertic	PASS
2	15720.00	38.04	50.92	12.880	74.00	23.08	PK	Vertic	PASS
3	15720.00	29.92	42.80	12.880	54.00	11.20	AV	Vertic	PASS

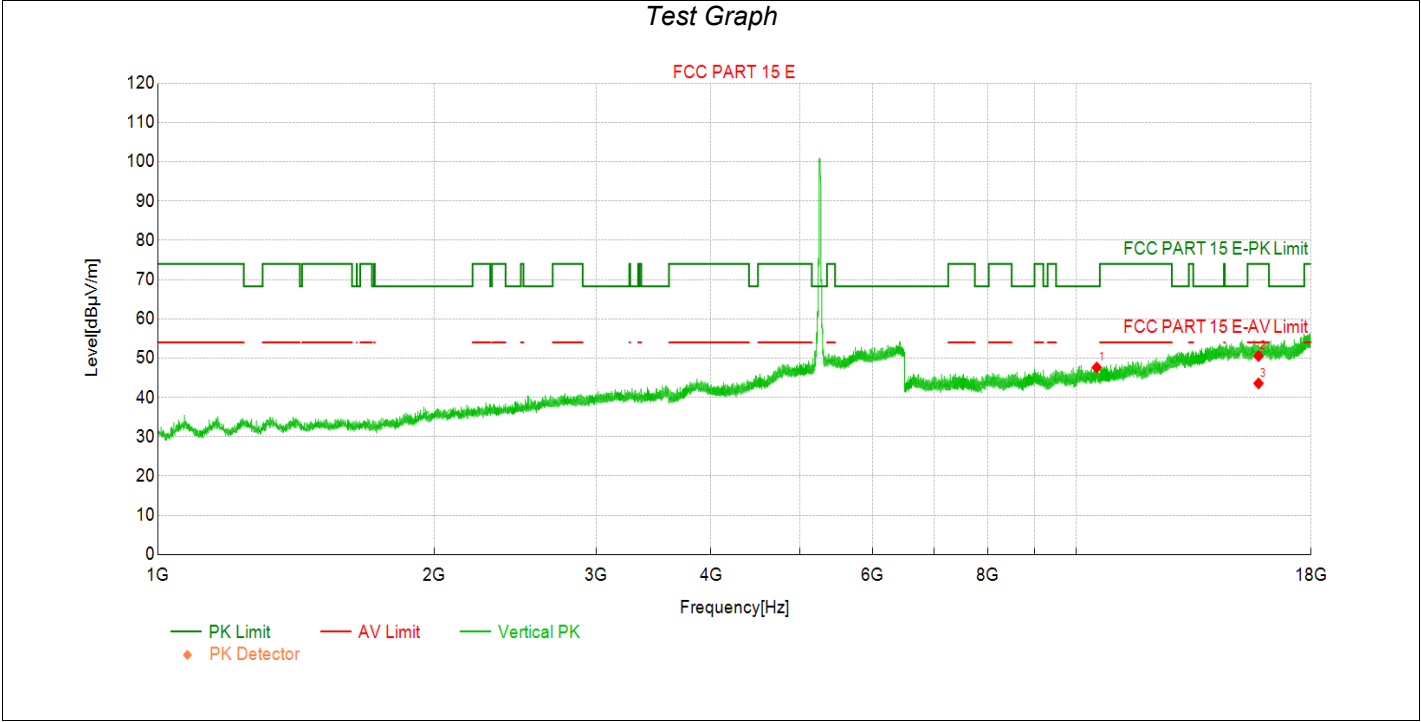
Transmit at 5260MHz by 802.11a



Data List

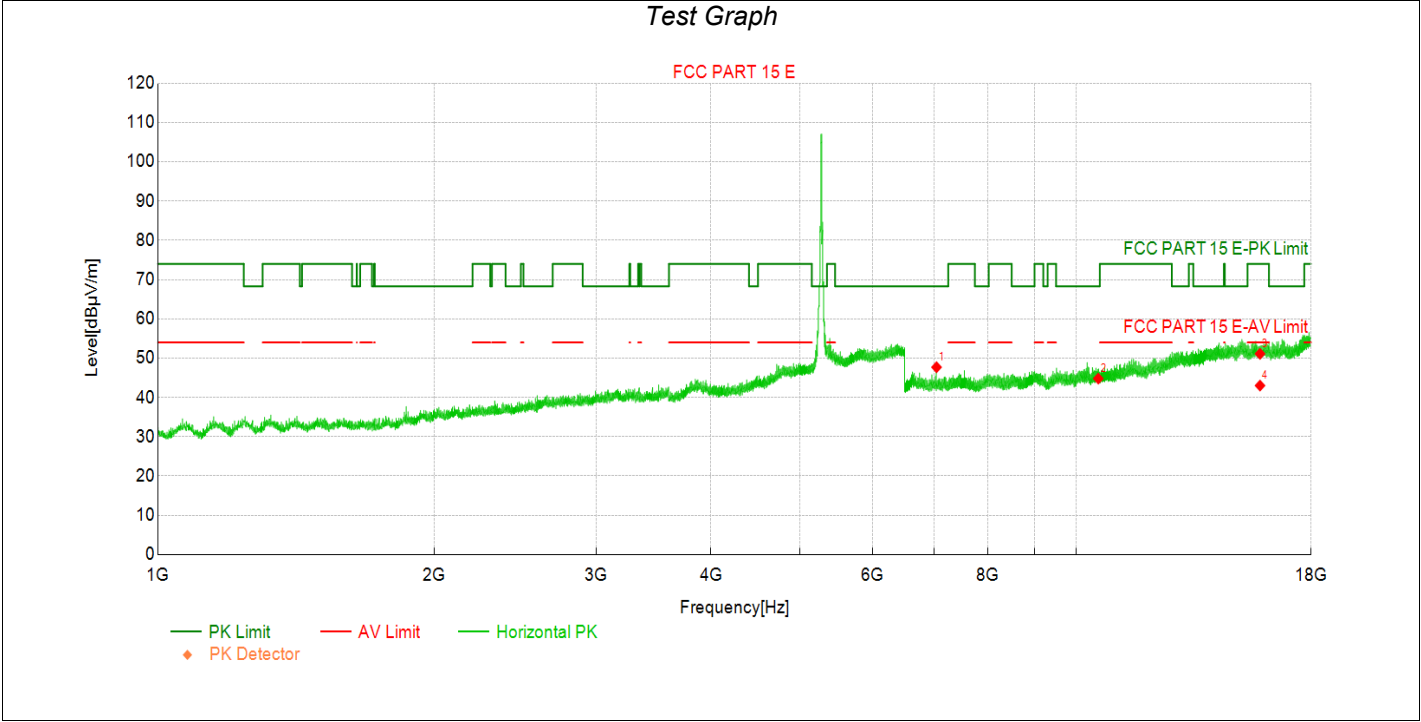
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7013.67	49.05	48.34	-0.710	68.30	19.96	PK	Horizo	PASS
2	10520.00	42.85	46.54	3.690	68.30	21.76	PK	Horizo	PASS
3	15780.00	38.36	51.02	12.660	74.00	22.98	PK	Horizo	PASS
4	15780.00	30.42	43.08	12.660	54.00	10.92	AV	Horizo	PASS

Transmit at 5260MHz 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	10520.00	43.95	47.64	3.690	68.30	20.66	PK	Vertic	PASS
2	15780.00	37.87	50.53	12.660	74.00	23.47	PK	Vertic	PASS
3	15780.00	30.92	43.58	12.660	54.00	10.42	AV	Vertic	PASS

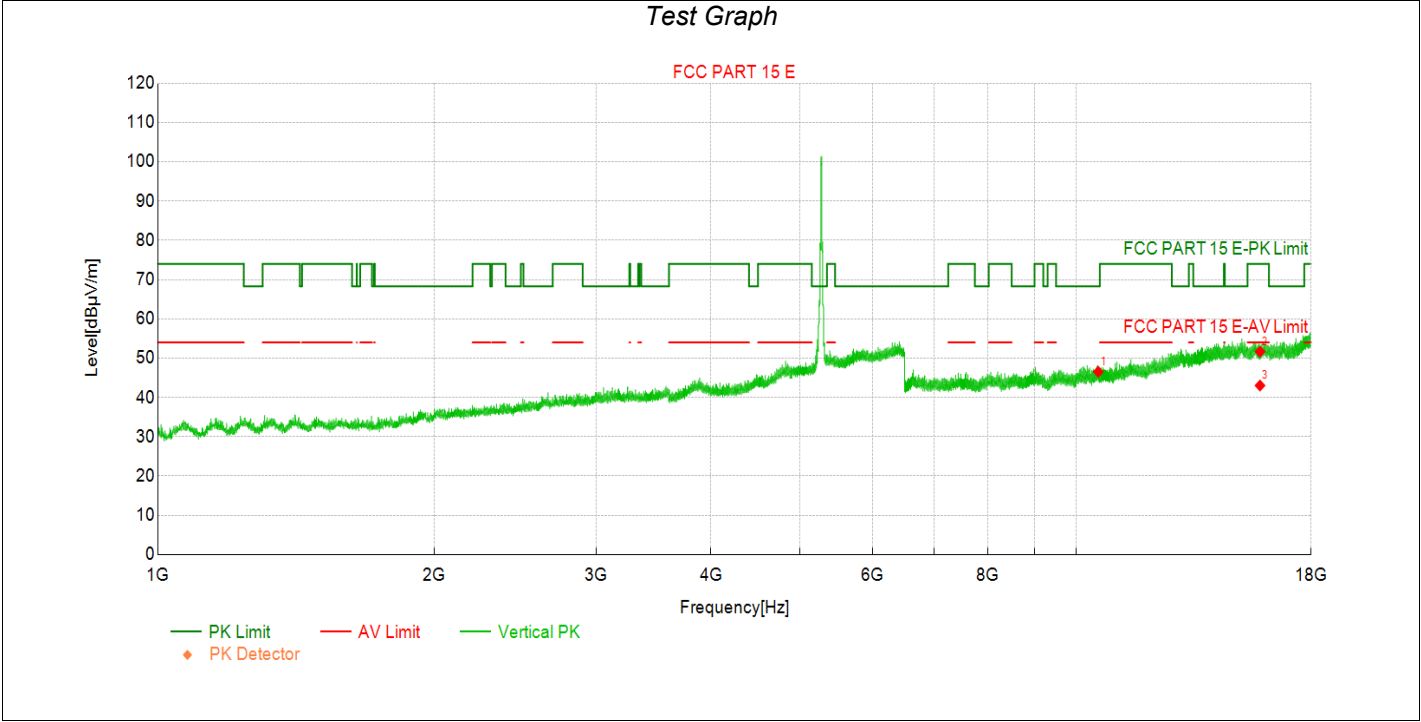
Transmit at 5280MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7040.02	48.34	47.69	-0.650	68.30	20.61	PK	Horizo	PASS
2	10560.00	41.10	44.80	3.700	68.30	23.50	PK	Horizo	PASS
3	15840.00	38.32	51.11	12.790	74.00	22.89	PK	Horizo	PASS
4	15840.00	30.23	43.02	12.790	54.00	10.98	AV	Horizo	PASS

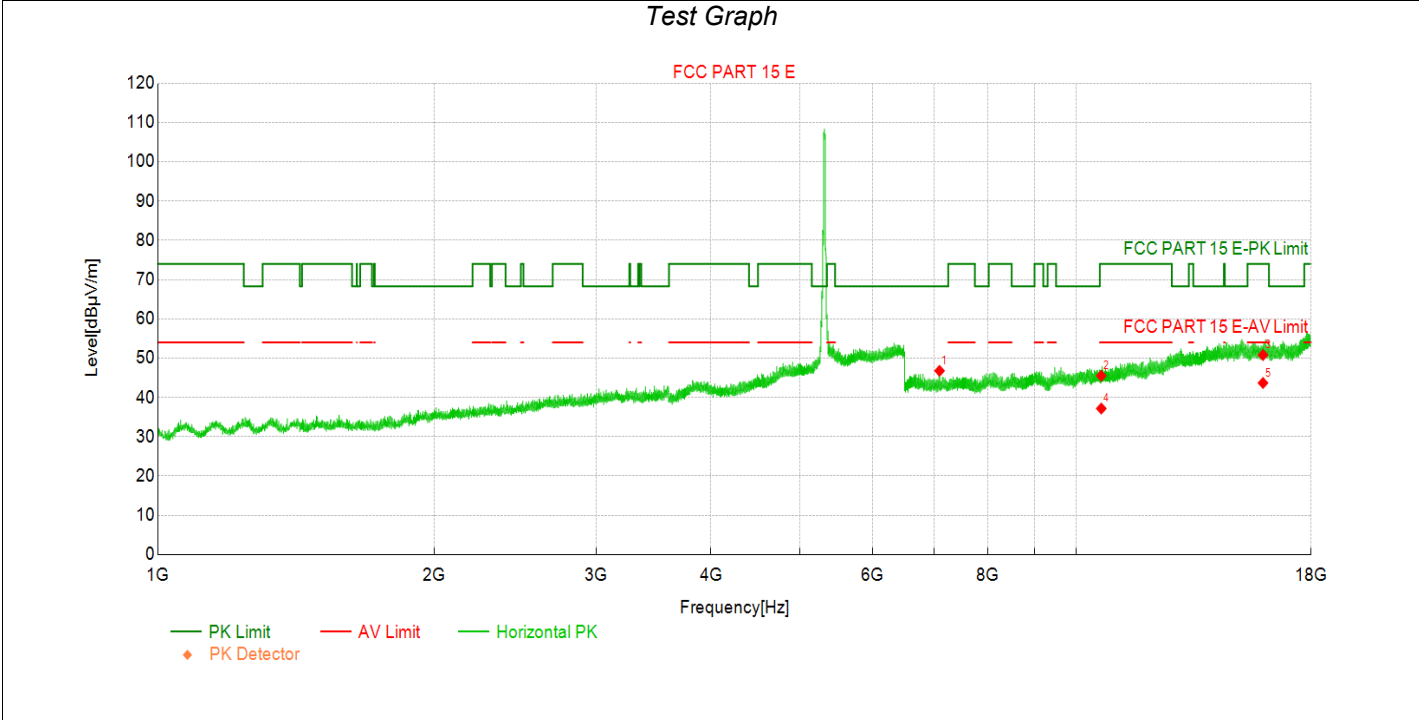


Transmit at 5280MHz by 802.11a

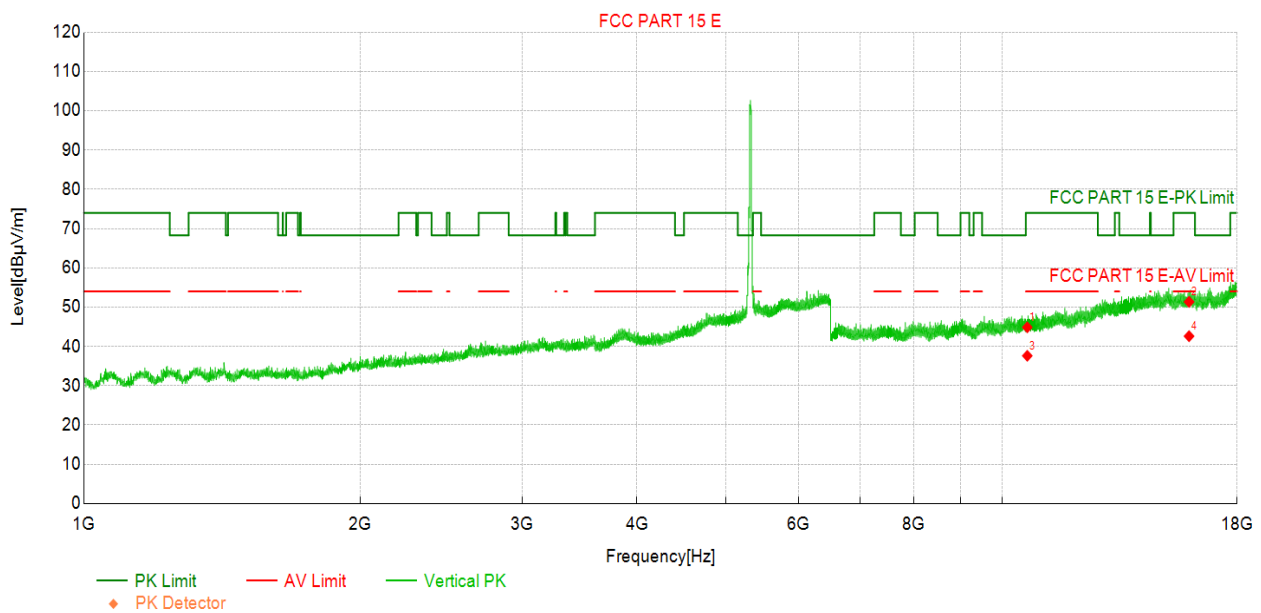


Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	42.83	46.53	3.700	68.30	21.77	PK	Vertic	PASS
2	15840.00	38.86	51.65	12.790	74.00	22.35	PK	Vertic	PASS
3	15840.00	30.24	43.03	12.790	54.00	10.97	AV	Vertic	PASS

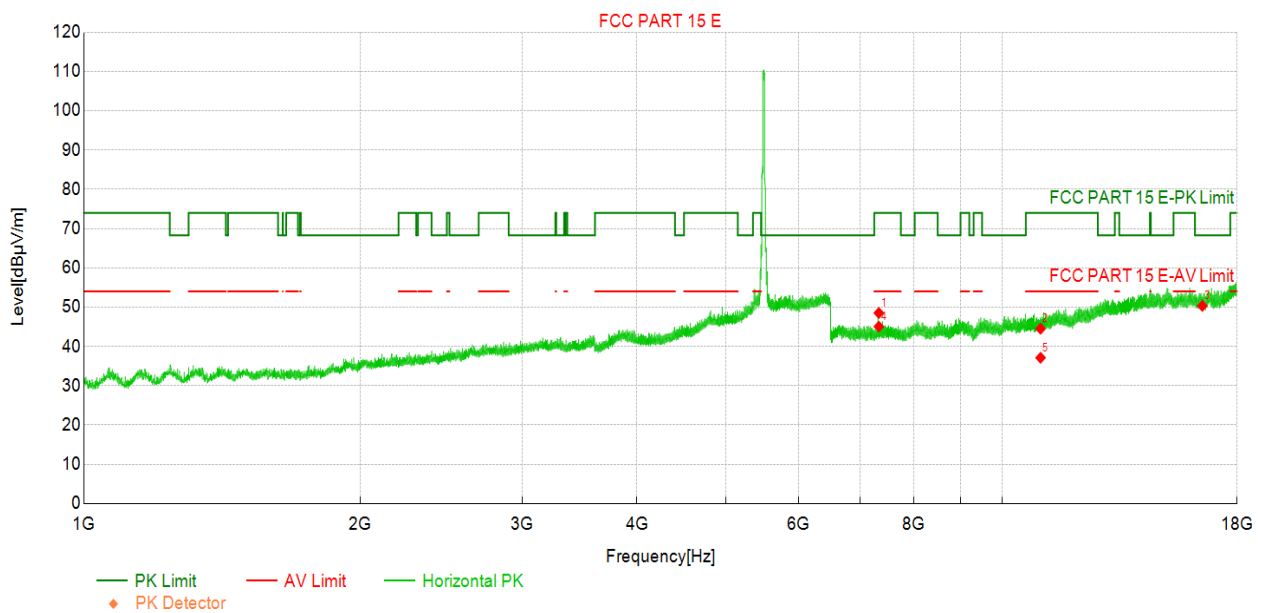
Transmit at 5320MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7093.21	47.26	46.78	-0.480	68.30	21.52	PK	Horizo	PASS
2	10640.00	41.70	45.52	3.820	74.00	28.48	PK	Horizo	PASS
3	15960.00	37.47	50.80	13.330	74.00	23.20	PK	Horizo	PASS
4	10640.00	33.36	37.18	3.820	54.00	16.82	AV	Horizo	PASS
5	15960.00	30.36	43.69	13.330	54.00	10.31	AV	Horizo	PASS

Transmit at 5320MHz by 802.11a**Test Graph****Data List**

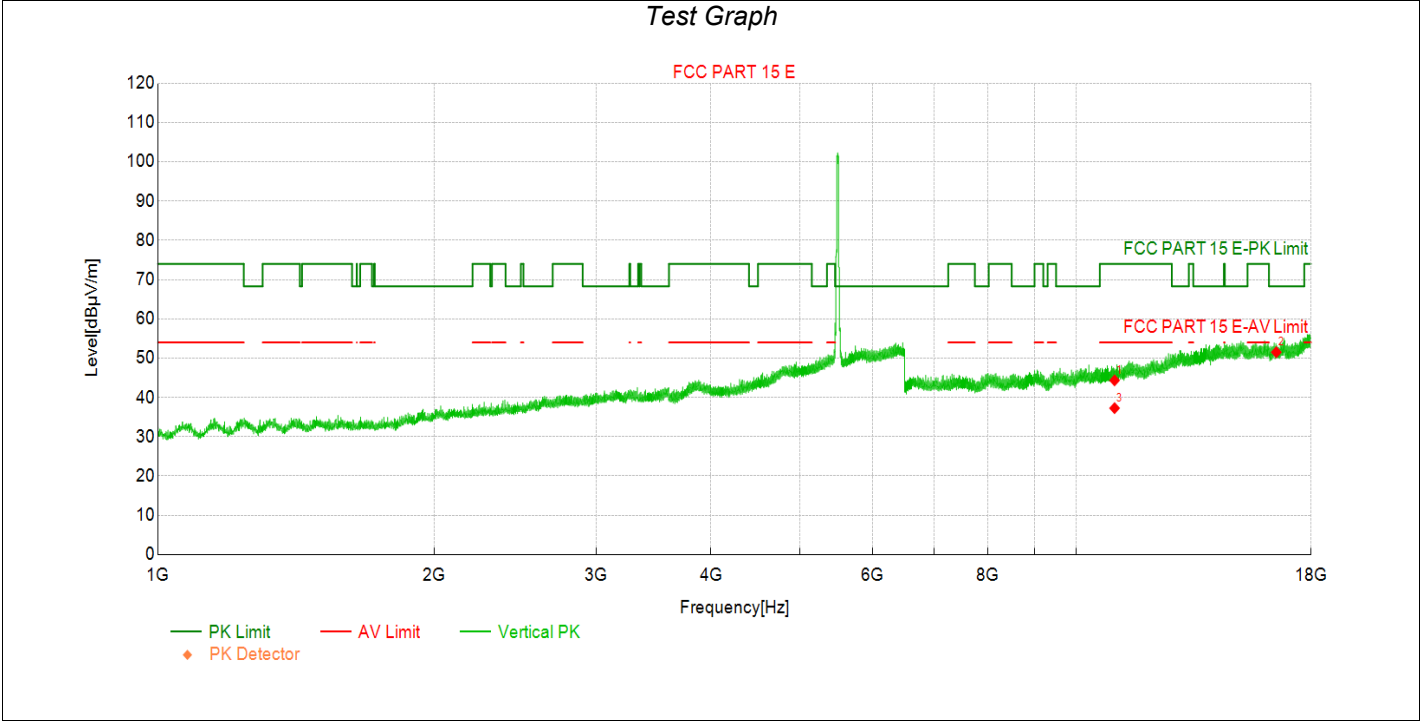
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	41.05	44.87	3.820	74.00	29.13	PK	Vertic	PASS
2	15960.00	38.02	51.35	13.330	74.00	22.65	PK	Vertic	PASS
3	10640.00	33.80	37.62	3.820	54.00	16.38	AV	Vertic	PASS
4	15960.00	29.28	42.61	13.330	54.00	11.39	AV	Vertic	PASS

Transmit at 5500MHz 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	7333.27	48.66	48.53	-0.130	74.00	25.47	PK	Horizo	PASS
2	11000.00	40.01	44.51	4.500	74.00	29.49	PK	Horizo	PASS
3	16500.00	37.31	50.34	13.030	68.30	17.96	PK	Horizo	PASS
4	7333.75	45.18	45.05	-0.130	54.00	8.95	AV	Horizo	PASS
5	11000.00	32.62	37.12	4.500	54.00	16.88	AV	Horizo	PASS



Transmit at 5500MHz by 802.11a

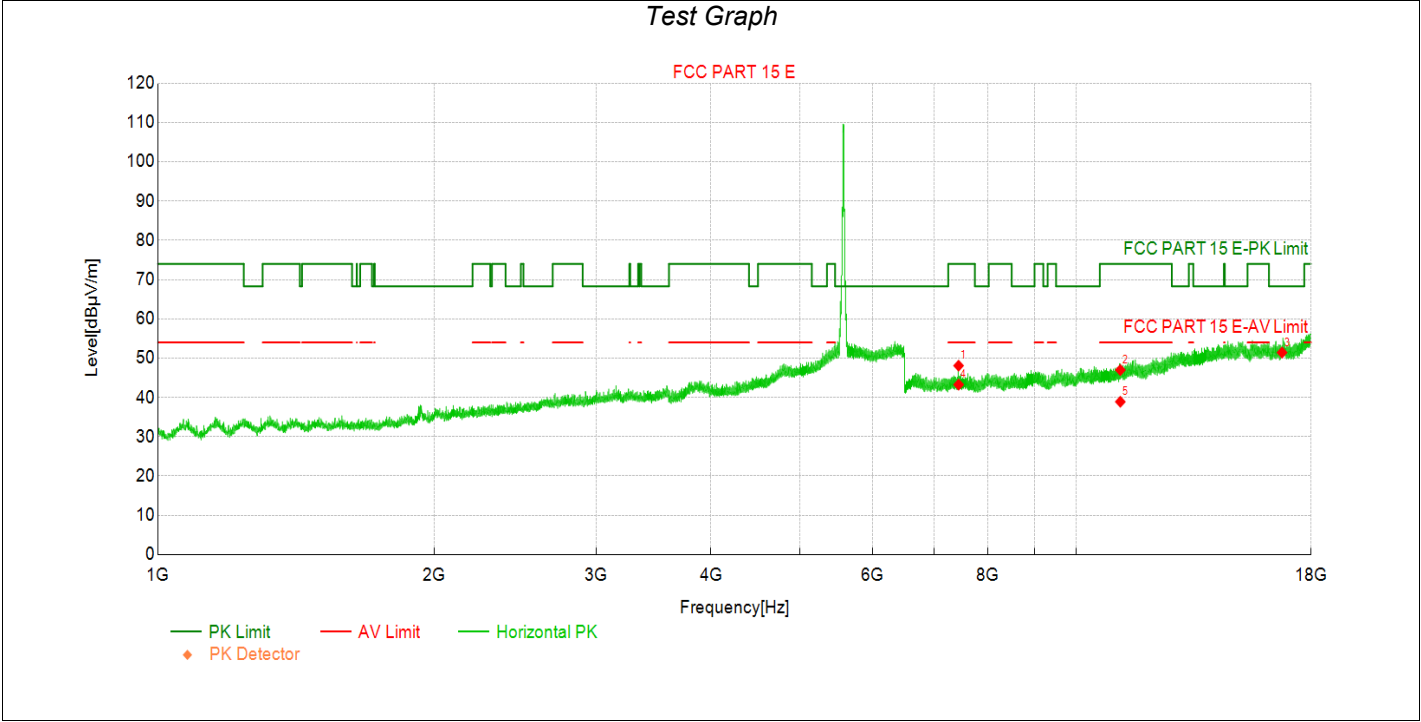


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	39.85	44.35	4.500	74.00	29.65	PK	Vertic	PASS
2	16500.00	38.49	51.52	13.030	68.30	16.78	PK	Vertic	PASS
3	11000.00	32.78	37.28	4.500	54.00	16.72	AV	Vertic	PASS

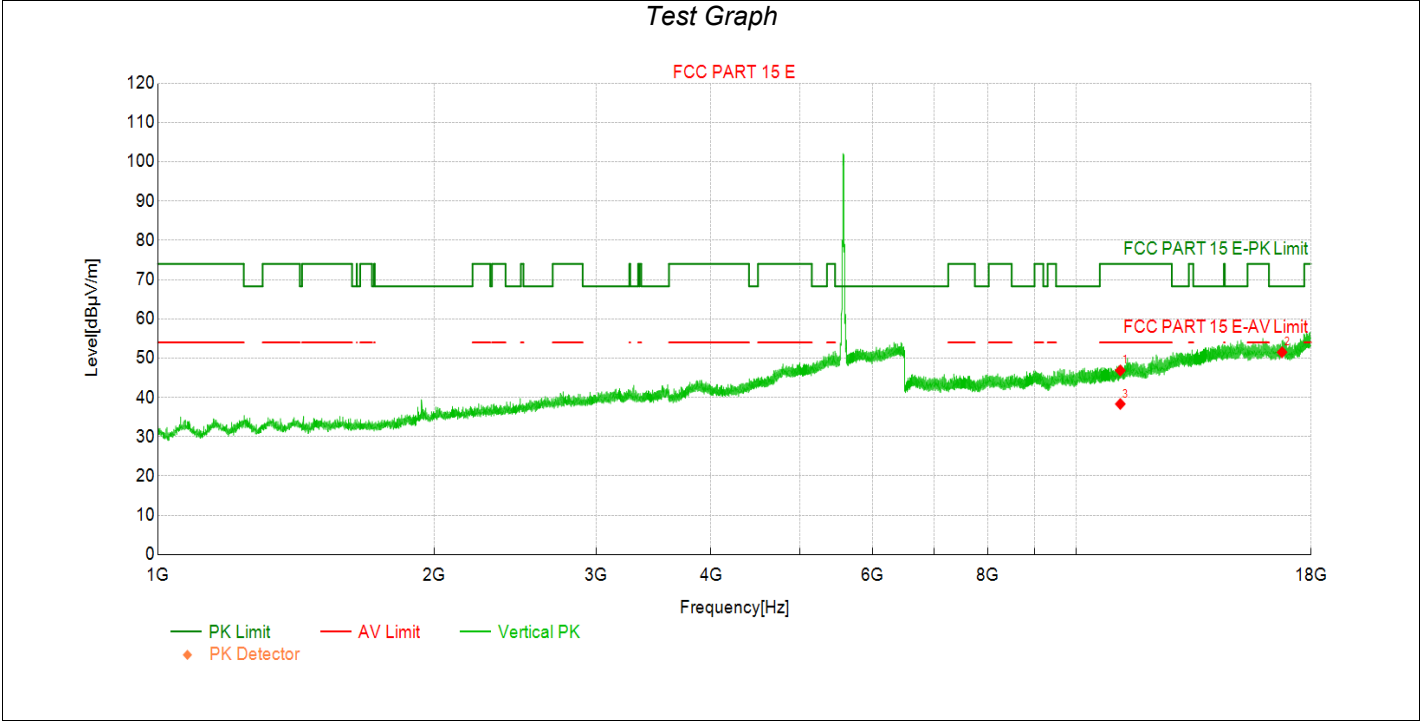


Transmit at 5580MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7440.13	48.04	48.09	0.050	74.00	25.91	PK	Horizo	PASS
2	11160.00	41.86	46.98	5.120	74.00	27.02	PK	Horizo	PASS
3	16740.00	38.08	51.43	13.350	68.30	16.87	PK	Horizo	PASS
4	7440.60	43.22	43.27	0.050	54.00	10.73	AV	Horizo	PASS
5	11160.00	33.78	38.90	5.120	54.00	15.10	AV	Horizo	PASS

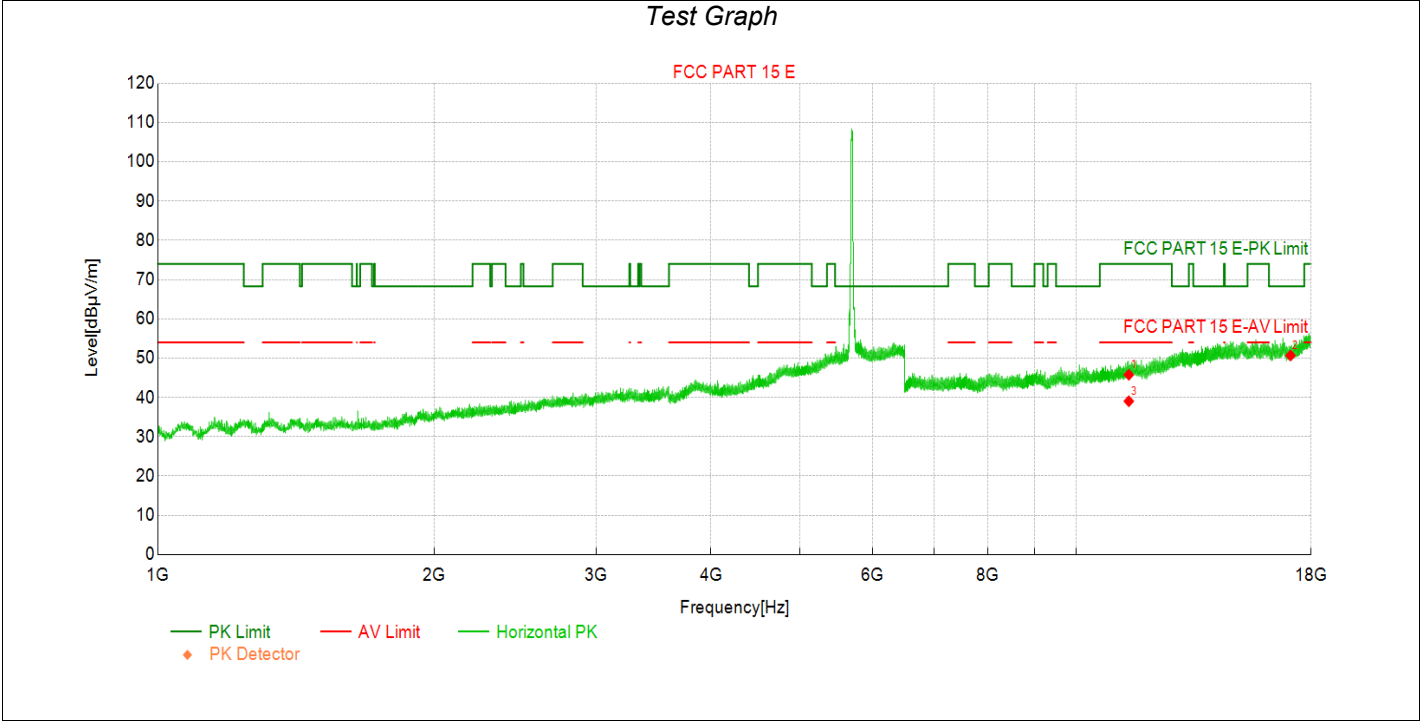
Transmit at 5580MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	41.74	46.86	5.120	74.00	27.14	PK	Vertic	PASS
2	16740.00	38.16	51.51	13.350	68.30	16.79	PK	Vertic	PASS
3	11160.00	33.22	38.34	5.120	54.00	15.66	AV	Vertic	PASS

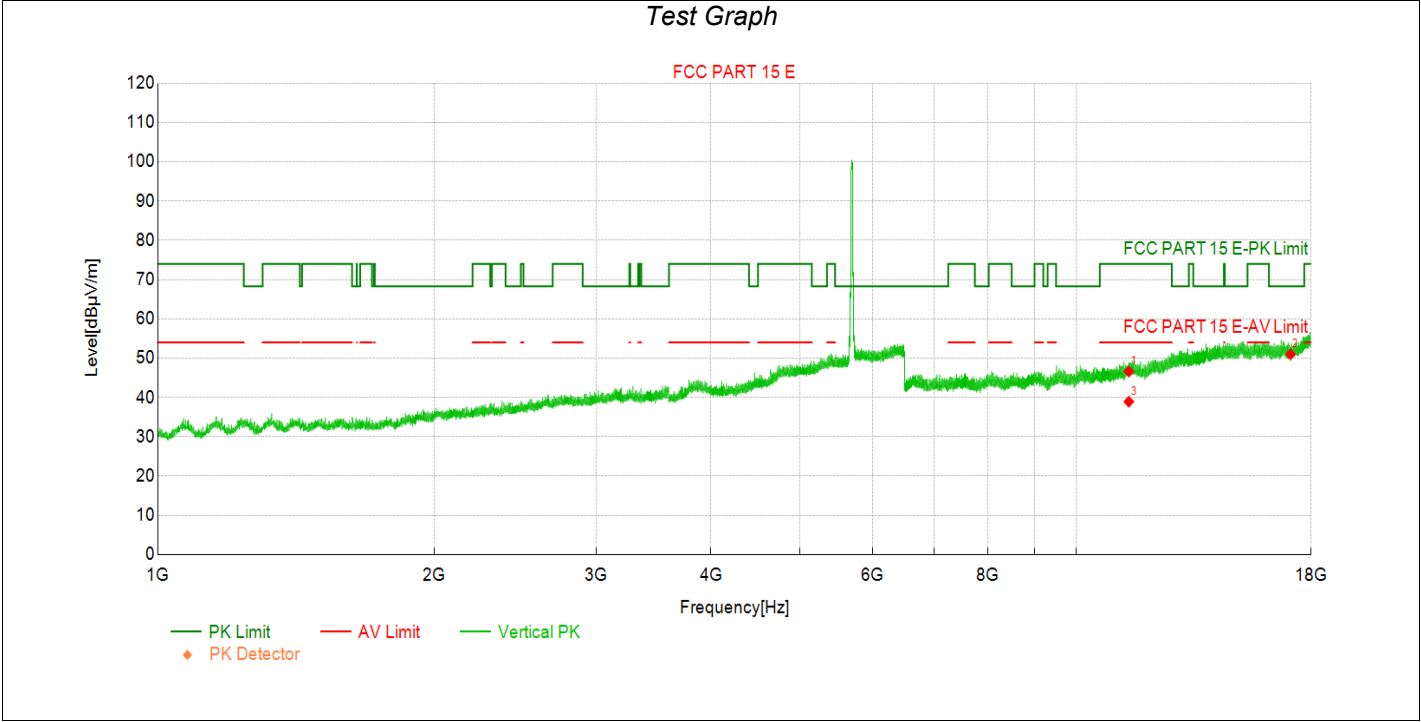


Transmit at 5700MHz by 802.11a



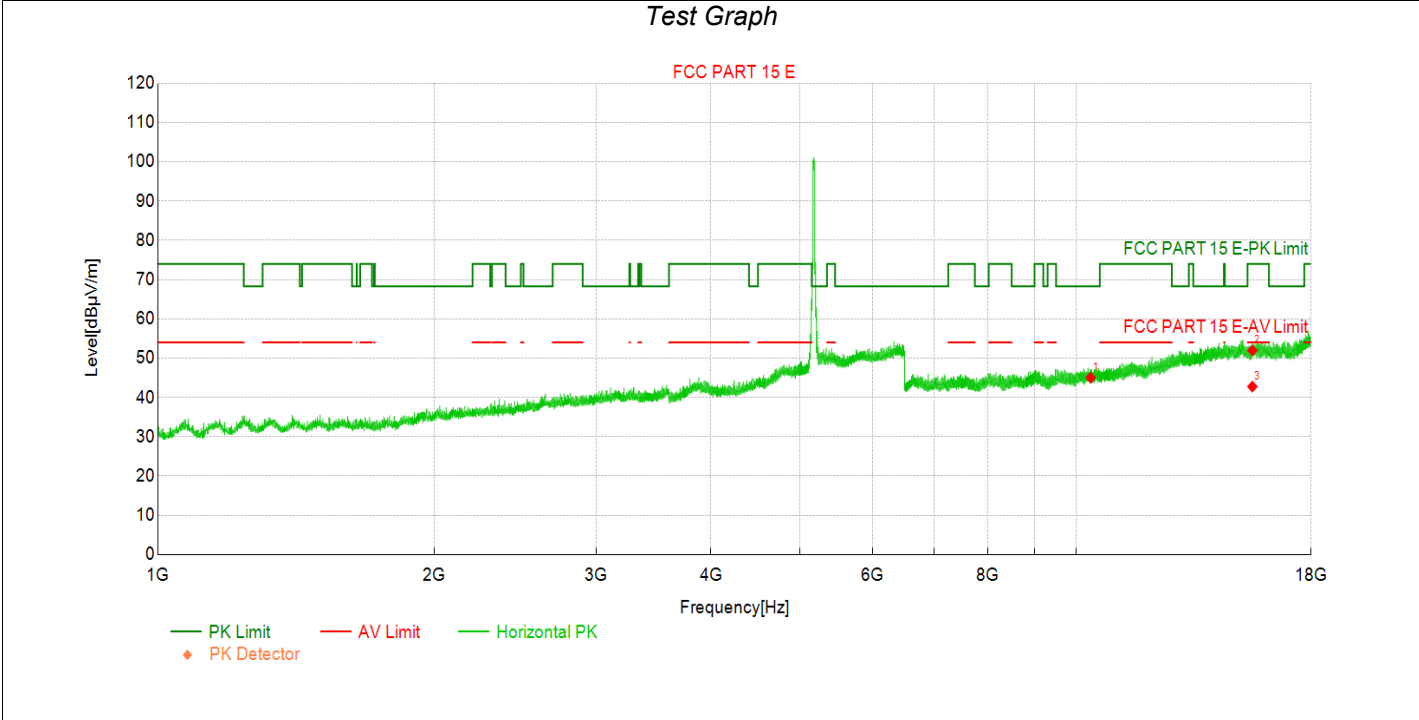
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	39.77	45.78	6.010	74.00	28.22	PK	Horizo	PASS
2	17100.00	37.43	50.67	13.240	68.30	17.63	PK	Horizo	PASS
3	11400.00	33.03	39.04	6.010	54.00	14.96	AV	Horizo	PASS

Transmit at 5700MHz 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	11400.00	40.61	46.62	6.010	74.00	27.38	PK	Vertic	PASS
2	17100.00	37.76	51.00	13.240	68.30	17.30	PK	Vertic	PASS
3	11400.00	32.92	38.93	6.010	54.00	15.07	AV	Vertic	PASS

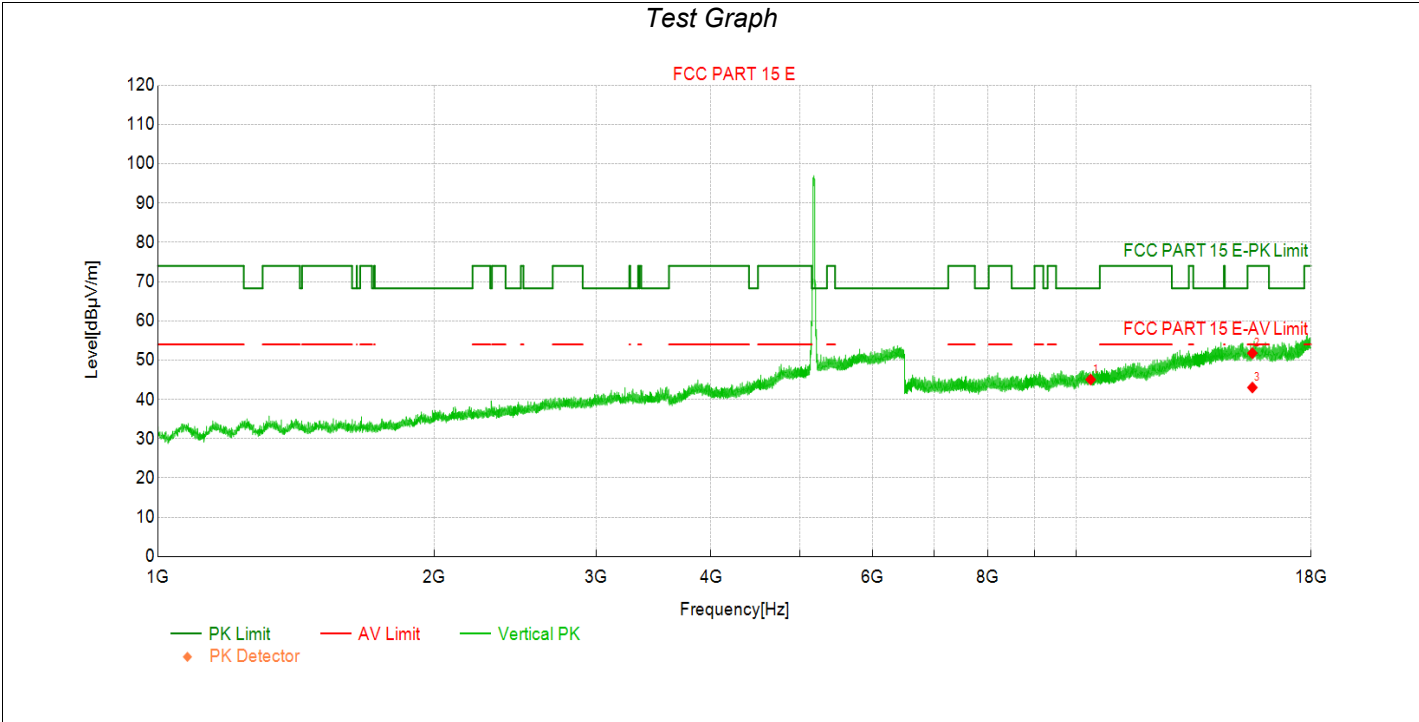
Transmit at 5180MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	41.82	45.03	3.210	68.30	23.27	PK	Horizo	PASS
2	15540.00	39.10	51.96	12.860	74.00	22.04	PK	Horizo	PASS
3	15540.00	29.90	42.76	12.860	54.00	11.24	AV	Horizo	PASS



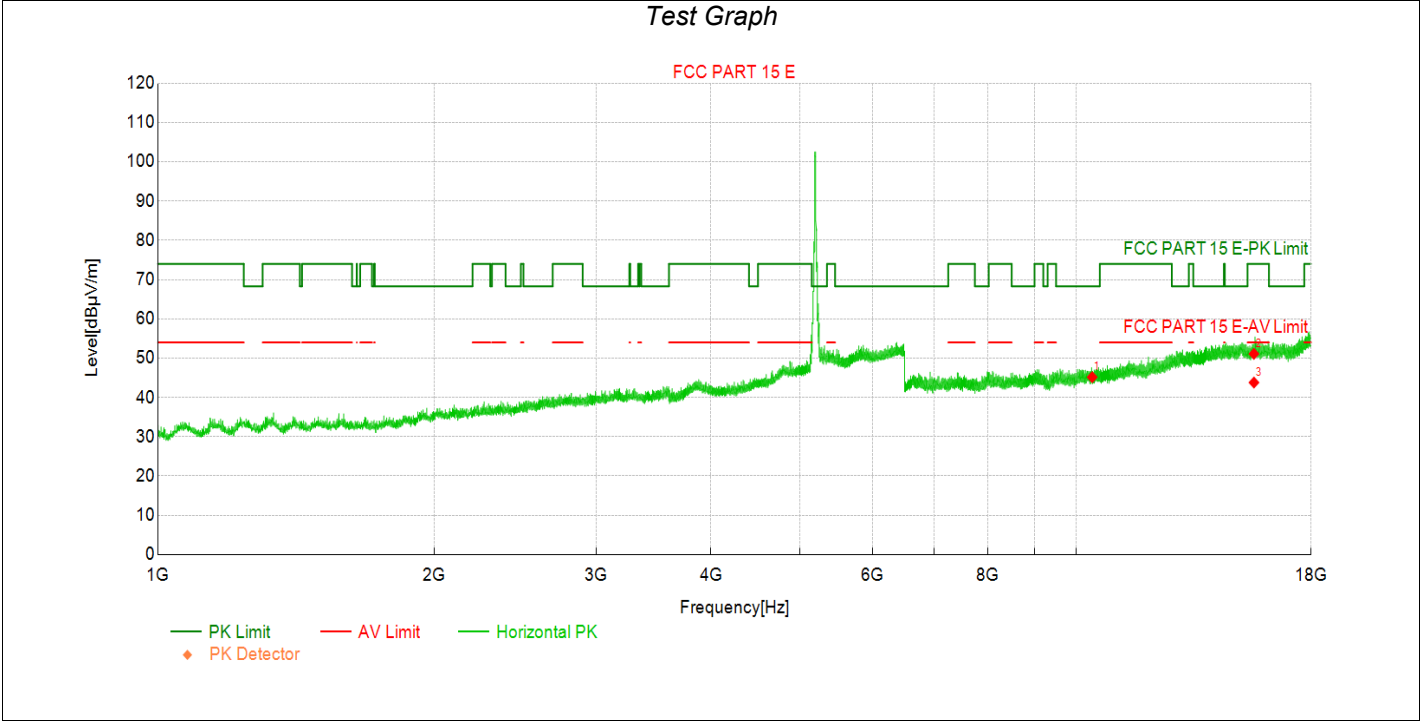
Transmit at 5180MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10360.00	41.85	45.06	3.210	68.30	23.24	PK	Vertic	PASS
2	15540.00	38.91	51.77	12.860	74.00	22.23	PK	Vertic	PASS
3	15540.00	30.18	43.04	12.860	54.00	10.96	AV	Vertic	PASS

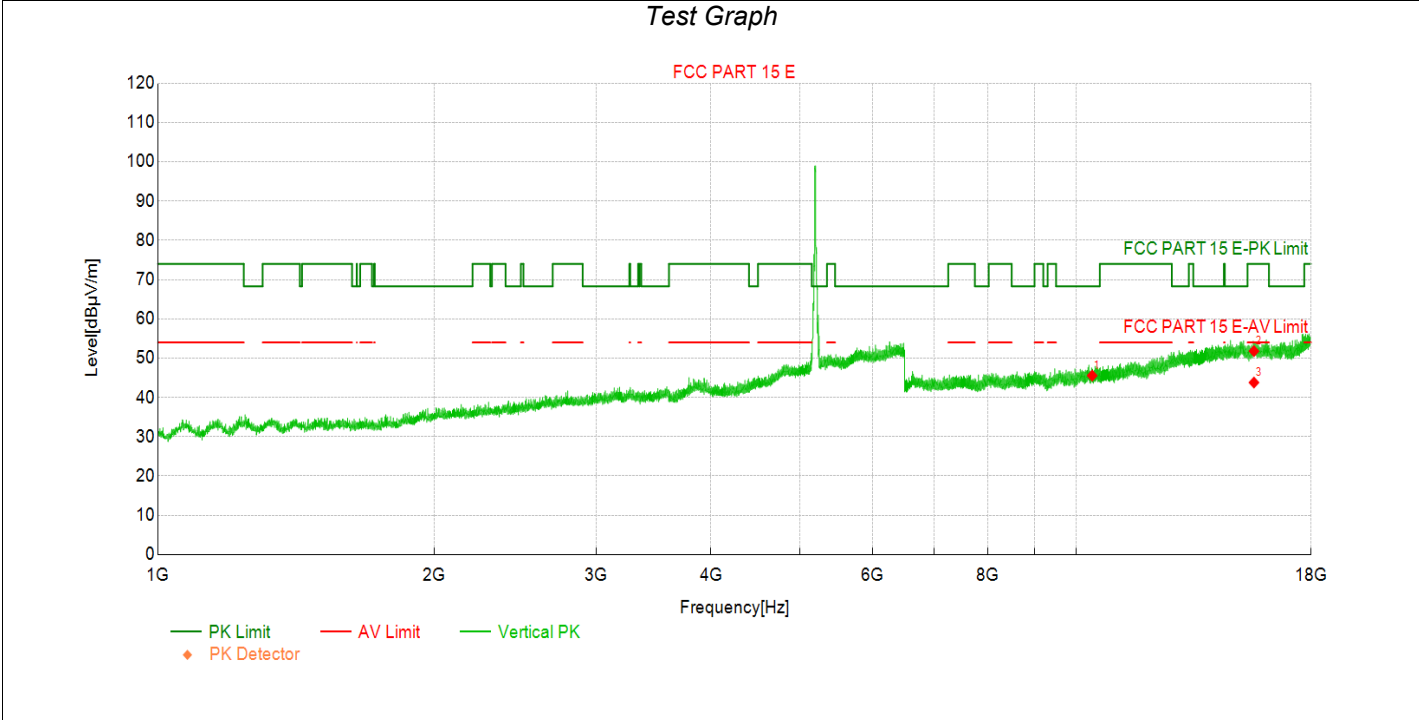


Transmit at 5200MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	41.99	45.16	3.170	68.30	23.14	PK	Horizo	PASS
2	15600.00	38.11	51.09	12.980	74.00	22.91	PK	Horizo	PASS
3	15600.00	30.82	43.80	12.980	54.00	10.20	AV	Horizo	PASS

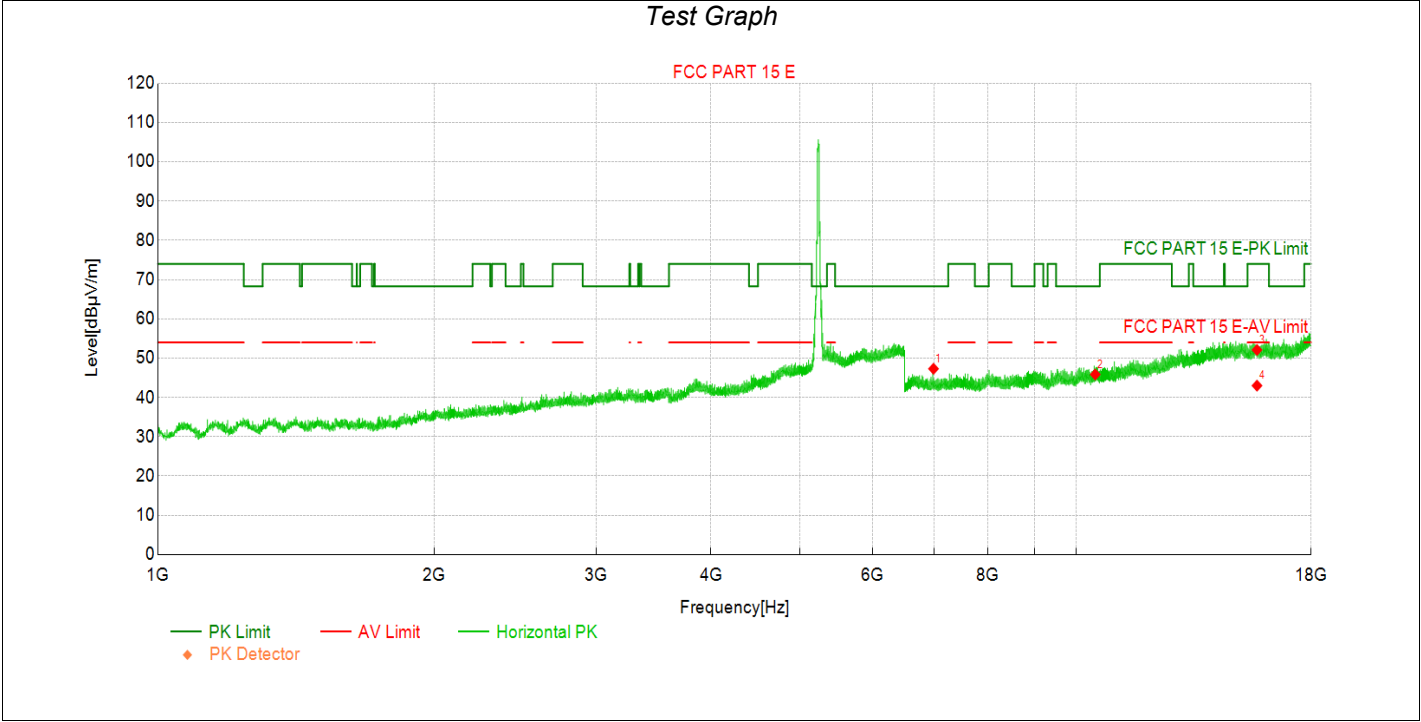
Transmit at 5200MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10400.00	42.39	45.56	3.170	68.30	22.74	PK	Vertic	PASS
2	15600.00	38.82	51.80	12.980	74.00	22.20	PK	Vertic	PASS
3	15600.00	30.81	43.79	12.980	54.00	10.21	AV	Vertic	PASS



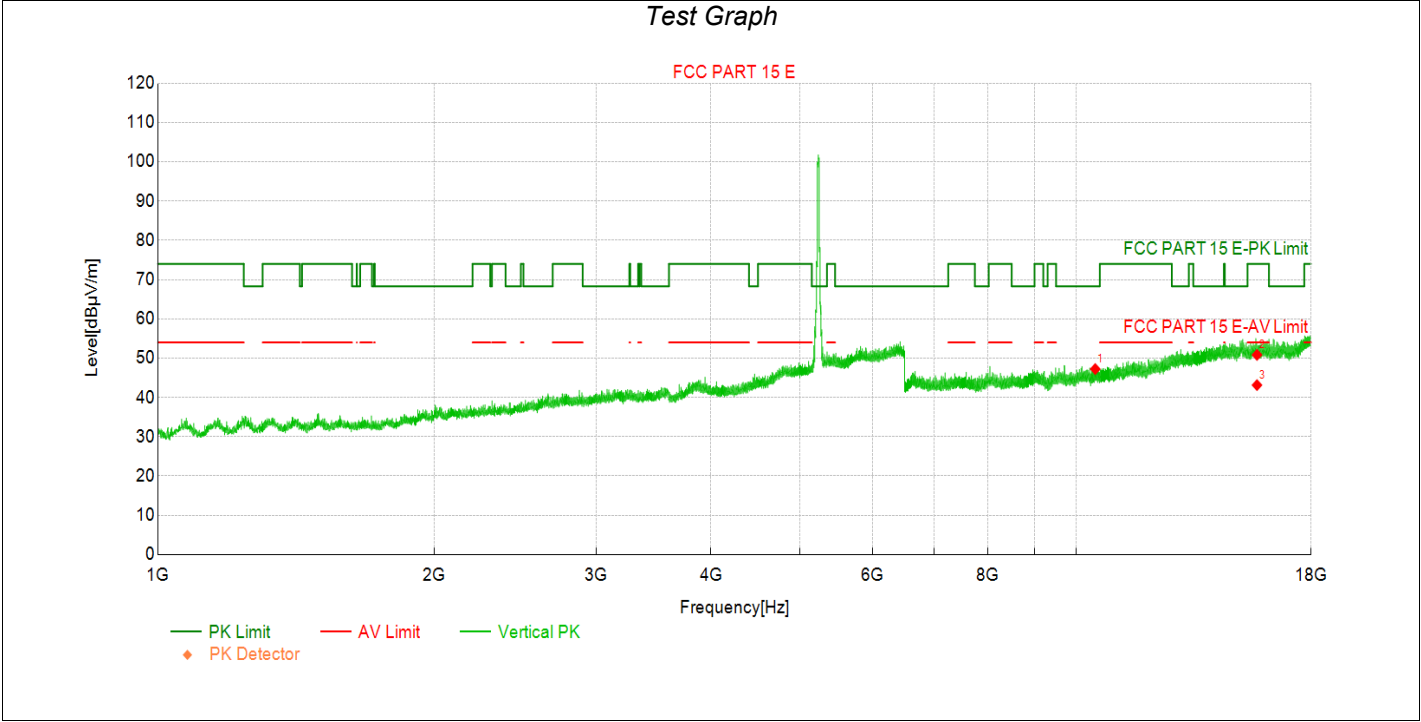
Transmit at 5240MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	6986.35	48.08	47.30	-0.780	68.30	21.00	PK	Horizo	PASS
2	10480.00	42.26	45.85	3.590	68.30	22.45	PK	Horizo	PASS
3	15720.00	39.22	52.10	12.880	74.00	21.90	PK	Horizo	PASS
4	15720.00	30.12	43.00	12.880	54.00	11.00	AV	Horizo	PASS

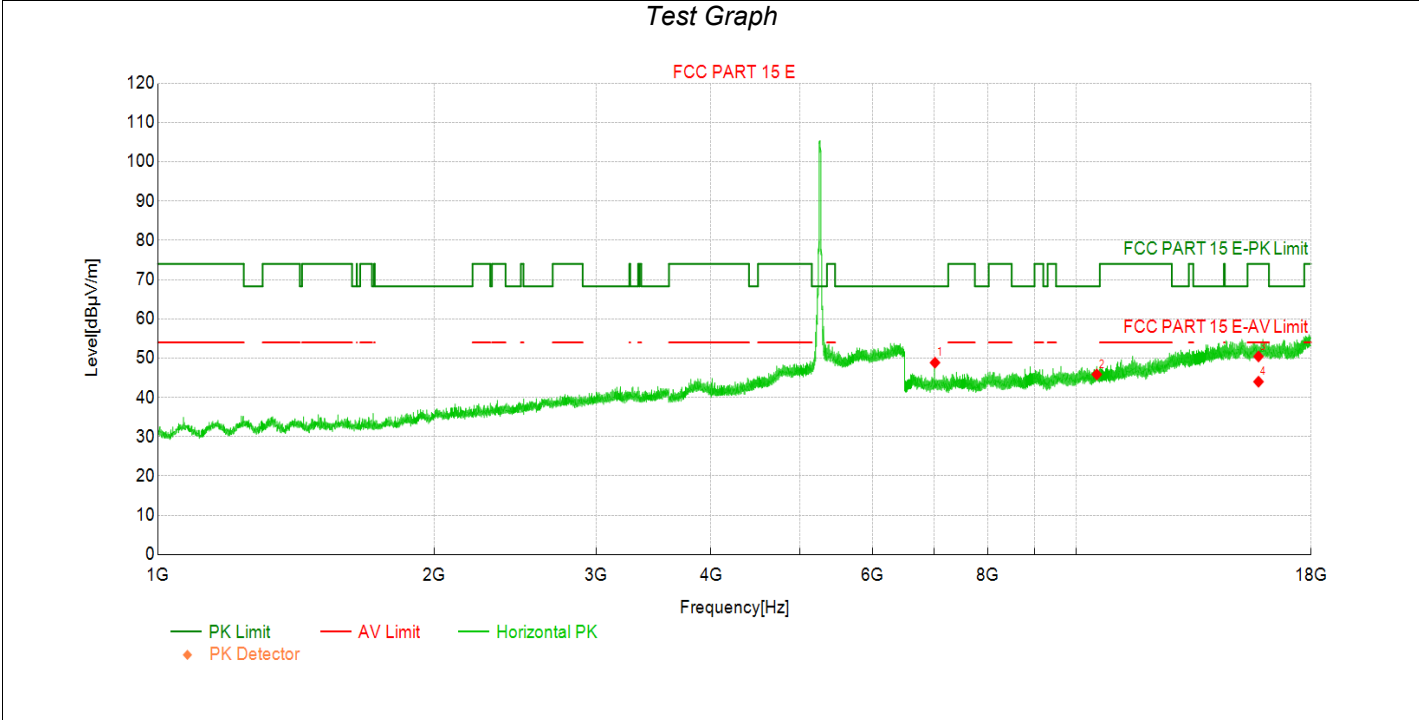


Transmit at 5240MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10480.00	43.64	47.23	3.590	68.30	21.07	PK	Vertic	PASS
2	15720.00	37.95	50.83	12.880	74.00	23.17	PK	Vertic	PASS
3	15720.00	30.26	43.14	12.880	54.00	10.86	AV	Vertic	PASS

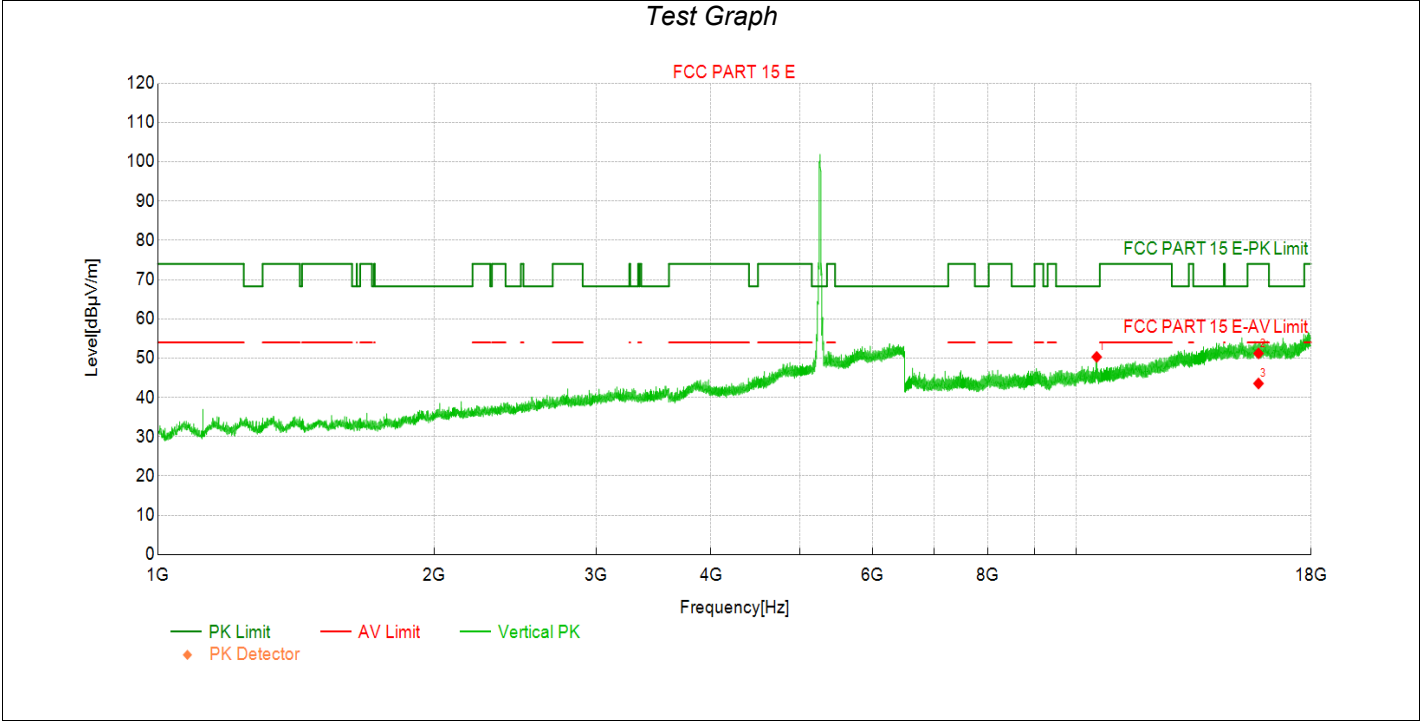
Transmit at 5260MHz by 802.11n(20MHz)



Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7013.19	49.57	48.86	-0.710	68.30	19.44	PK	Horizo	PASS
2	10520.00	42.18	45.87	3.690	68.30	22.43	PK	Horizo	PASS
3	15780.00	37.77	50.43	12.660	74.00	23.57	PK	Horizo	PASS
4	15780.00	31.35	44.01	12.660	54.00	9.99	AV	Horizo	PASS

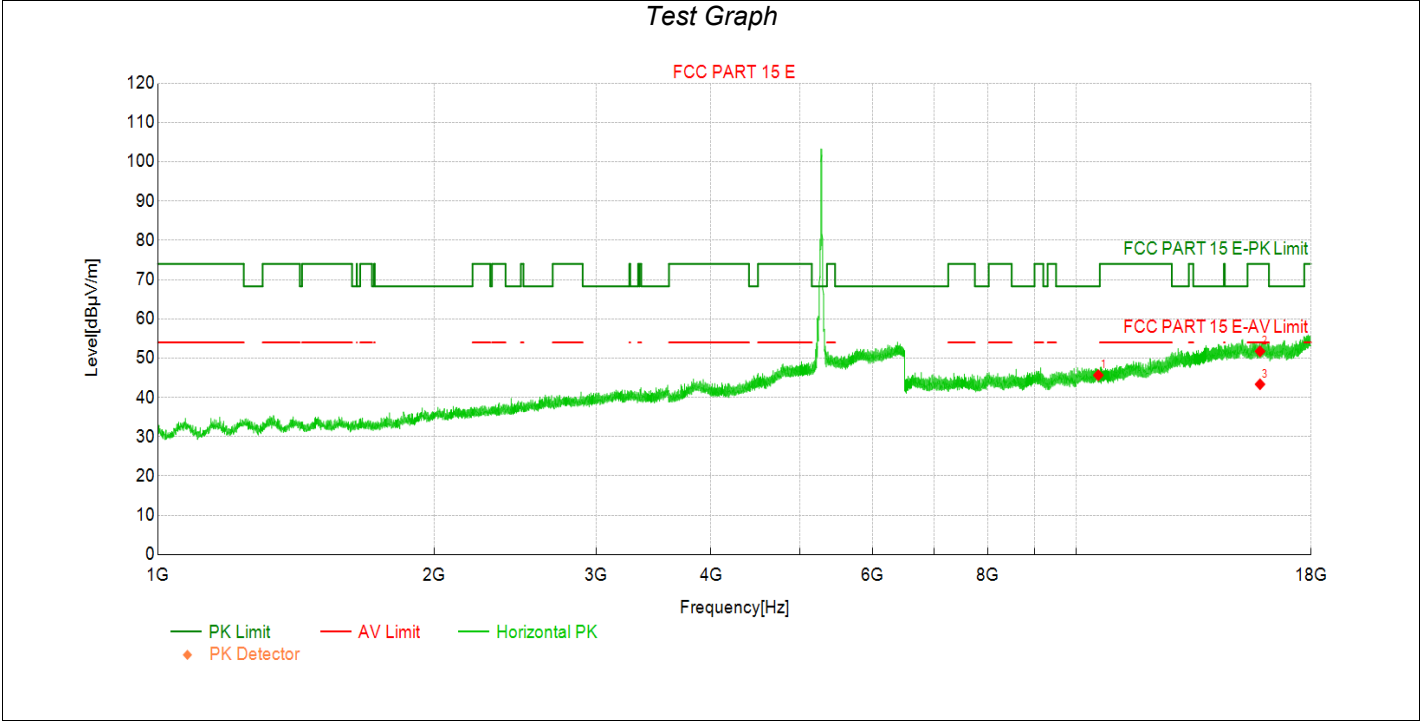
Transmit at 5260MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10518.29	46.62	50.31	3.690	68.30	17.99	PK	Vertic	PASS
2	15780.00	38.56	51.22	12.660	74.00	22.78	PK	Vertic	PASS
3	15780.00	30.89	43.55	12.660	54.00	10.45	AV	Vertic	PASS

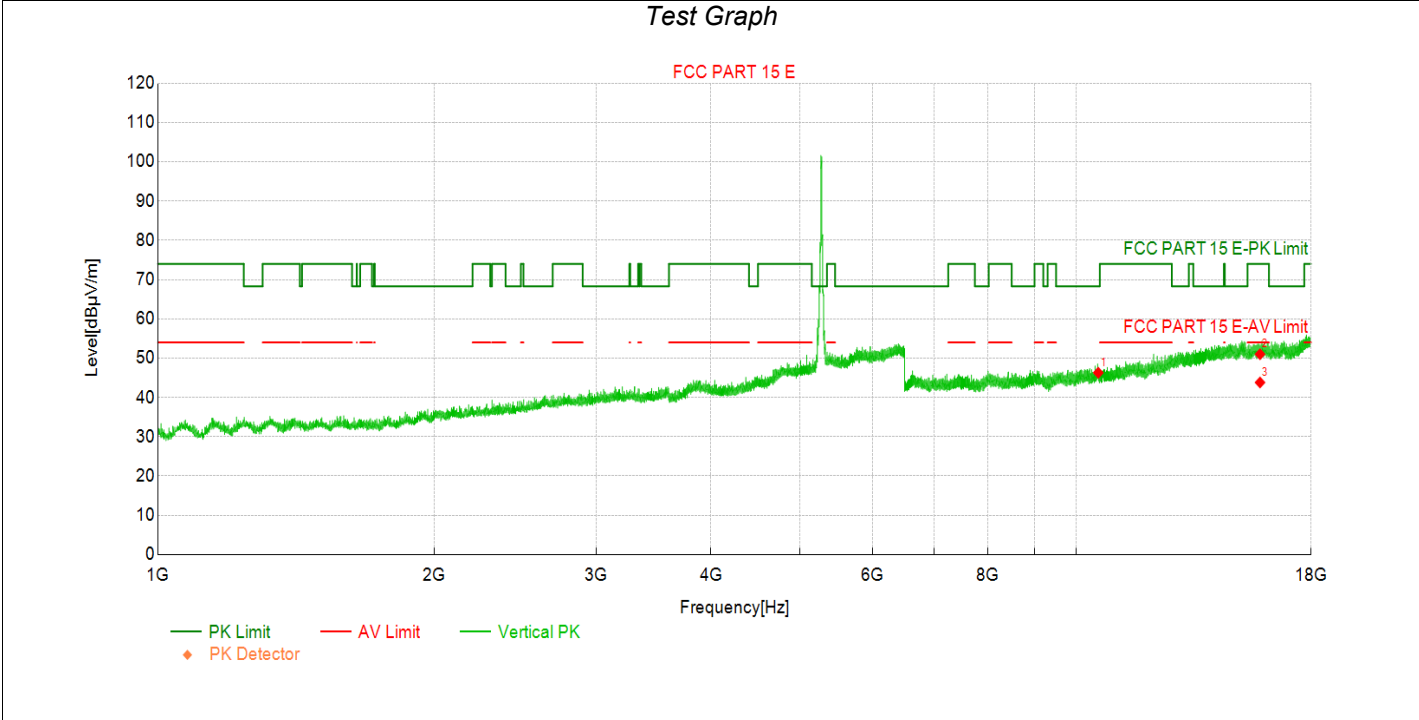


Transmit at 5280MHz by 802.11n(20MHz)

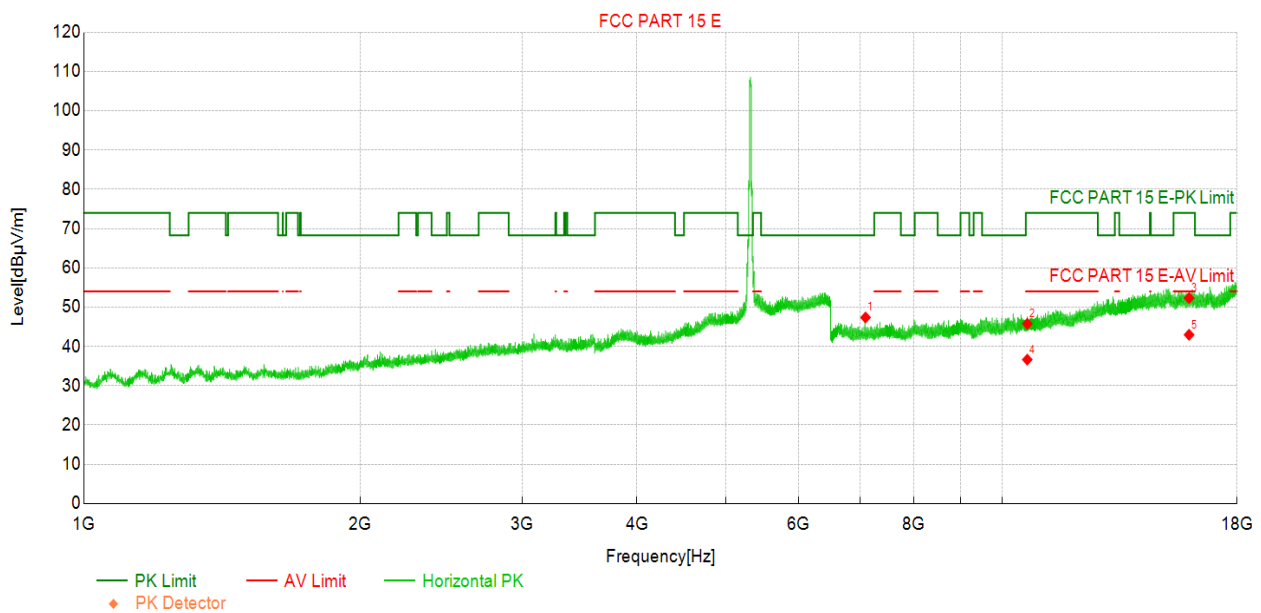


Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	41.96	45.66	3.700	68.30	22.64	PK	Horizo	PASS
2	15840.00	38.96	51.75	12.790	74.00	22.25	PK	Horizo	PASS
3	15840.00	30.57	43.36	12.790	54.00	10.64	AV	Horizo	PASS

Transmit at 5280MHz by 802.11n(20MHz)

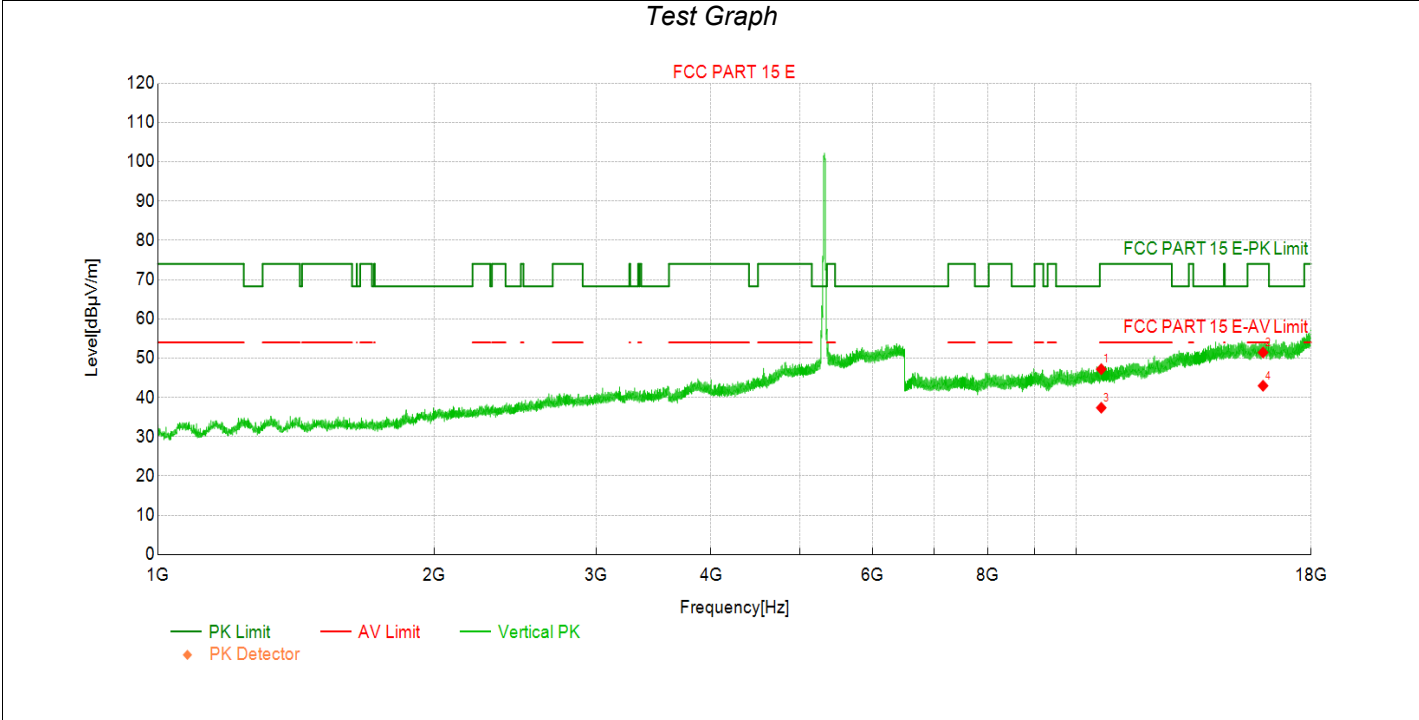


Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10560.00	42.59	46.29	3.700	68.30	22.01	PK	Vertic	PASS
2	15840.00	38.22	51.01	12.790	74.00	22.99	PK	Vertic	PASS
3	15840.00	31.02	43.81	12.790	54.00	10.19	AV	Vertic	PASS

Transmit at 5320MHz by 802.11n(20MHz)*Test Graph***Data List**

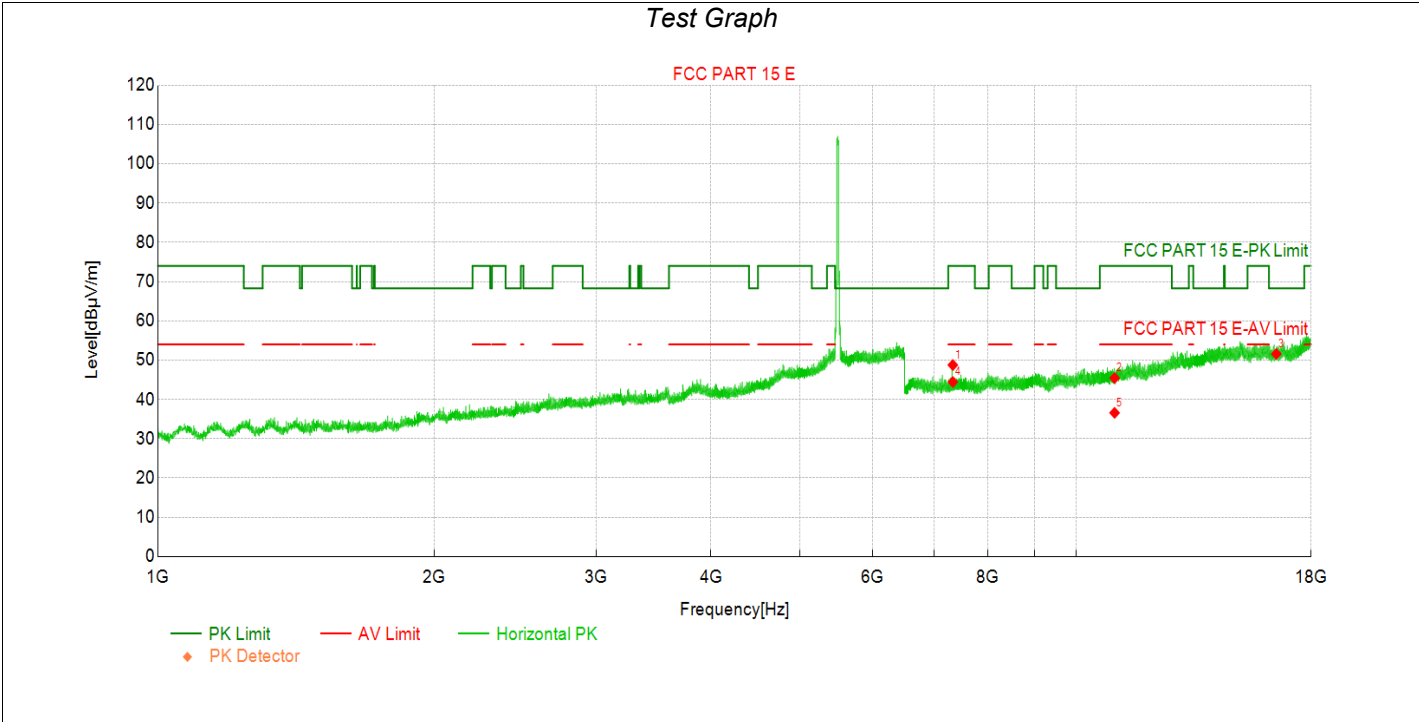
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7093.21	47.85	47.37	-0.480	68.30	20.93	PK	Horizo	PASS
2	10640.00	41.95	45.77	3.820	74.00	28.23	PK	Horizo	PASS
3	15960.00	39.00	52.33	13.330	74.00	21.67	PK	Horizo	PASS
4	10640.00	32.82	36.64	3.820	54.00	17.36	AV	Horizo	PASS
5	15960.00	29.64	42.97	13.330	54.00	11.03	AV	Horizo	PASS

Transmit at 5320MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10640.00	43.37	47.19	3.820	74.00	26.81	PK	Vertic	PASS
2	15960.00	38.12	51.45	13.330	74.00	22.55	PK	Vertic	PASS
3	10640.00	33.55	37.37	3.820	54.00	16.63	AV	Vertic	PASS
4	15960.00	29.64	42.97	13.330	54.00	11.03	AV	Vertic	PASS

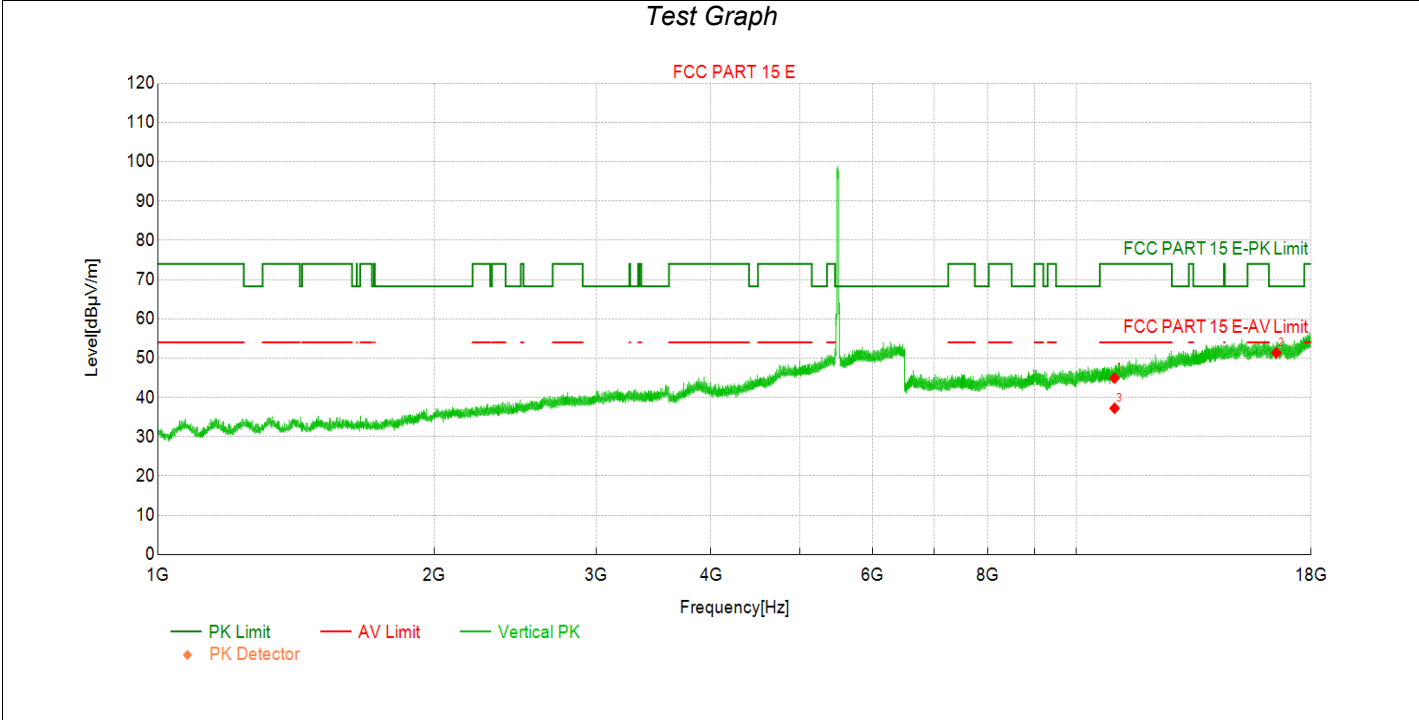
Transmit at 5500MHz by 802.11n(20MHz)



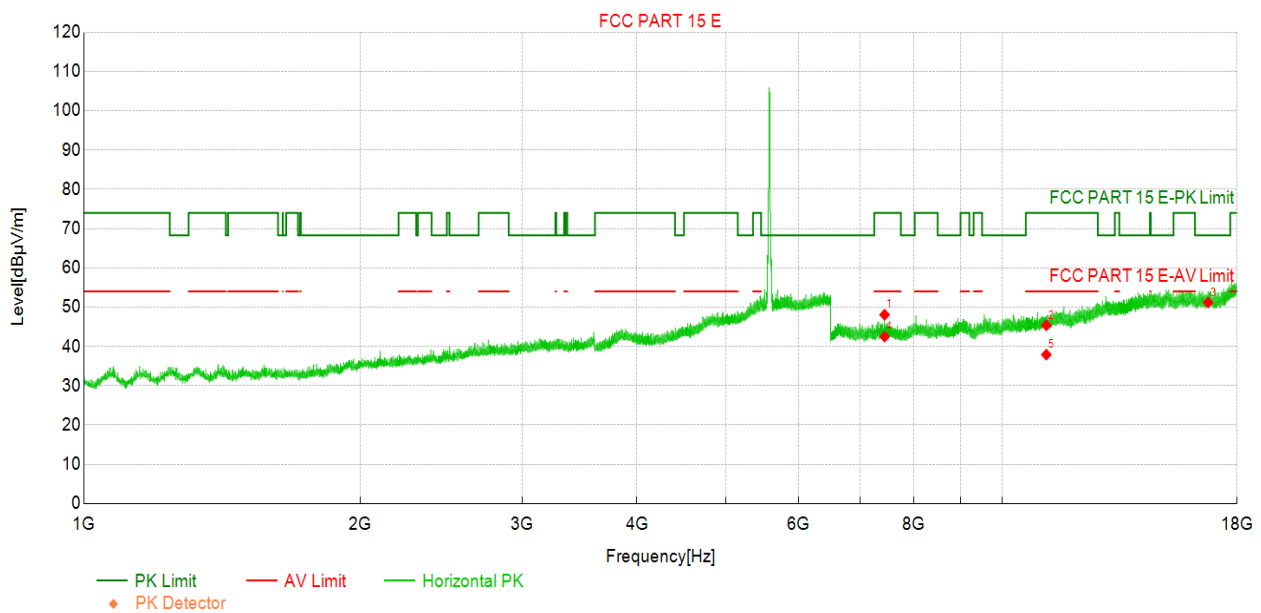
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7333.27	48.89	48.76	-0.130	74.00	25.24	PK	Horizo	PASS
2	11000.00	40.95	45.45	4.500	74.00	28.55	PK	Horizo	PASS
3	16500.00	38.56	51.59	13.030	68.30	16.71	PK	Horizo	PASS
4	7333.75	44.58	44.45	-0.130	54.00	9.55	AV	Horizo	PASS
5	11000.00	32.09	36.59	4.500	54.00	17.41	AV	Horizo	PASS



Transmit at 5500MHz by 802.11n(20MHz)

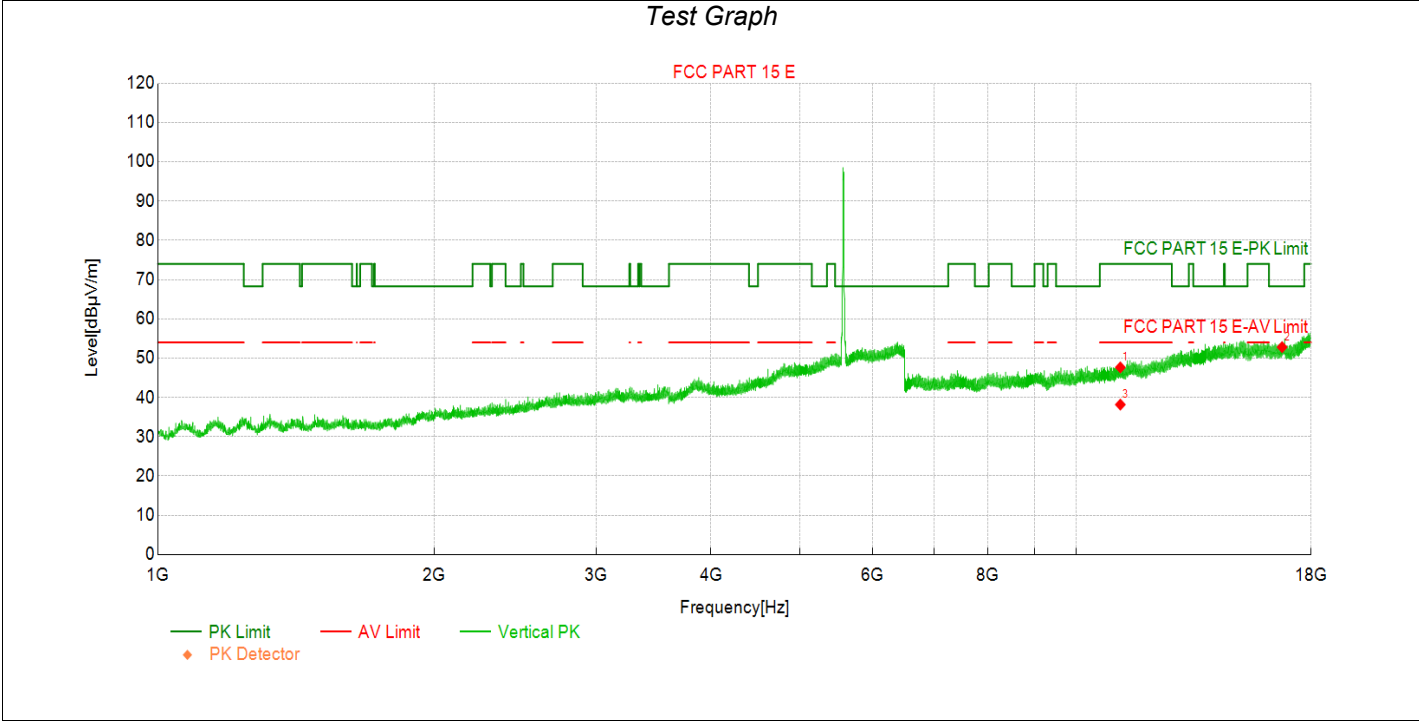


Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11000.00	40.43	44.93	4.500	74.00	29.07	PK	Vertic	PASS
2	16500.00	38.34	51.37	13.030	68.30	16.93	PK	Vertic	PASS
3	11000.00	32.75	37.25	4.500	54.00	16.75	AV	Vertic	PASS

Transmit at 5580MHz by 802.11n(20MHz)*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7440.13	48.03	48.08	0.050	74.00	25.92	PK	Horizo	PASS
2	11160.00	40.25	45.37	5.120	74.00	28.63	PK	Horizo	PASS
3	16740.00	37.84	51.19	13.350	68.30	17.11	PK	Horizo	PASS
4	7440.60	42.45	42.50	0.050	54.00	11.50	AV	Horizo	PASS
5	11160.00	32.80	37.92	5.120	54.00	16.08	AV	Horizo	PASS

Transmit at 5580MHz by 802.11n(20MHz)

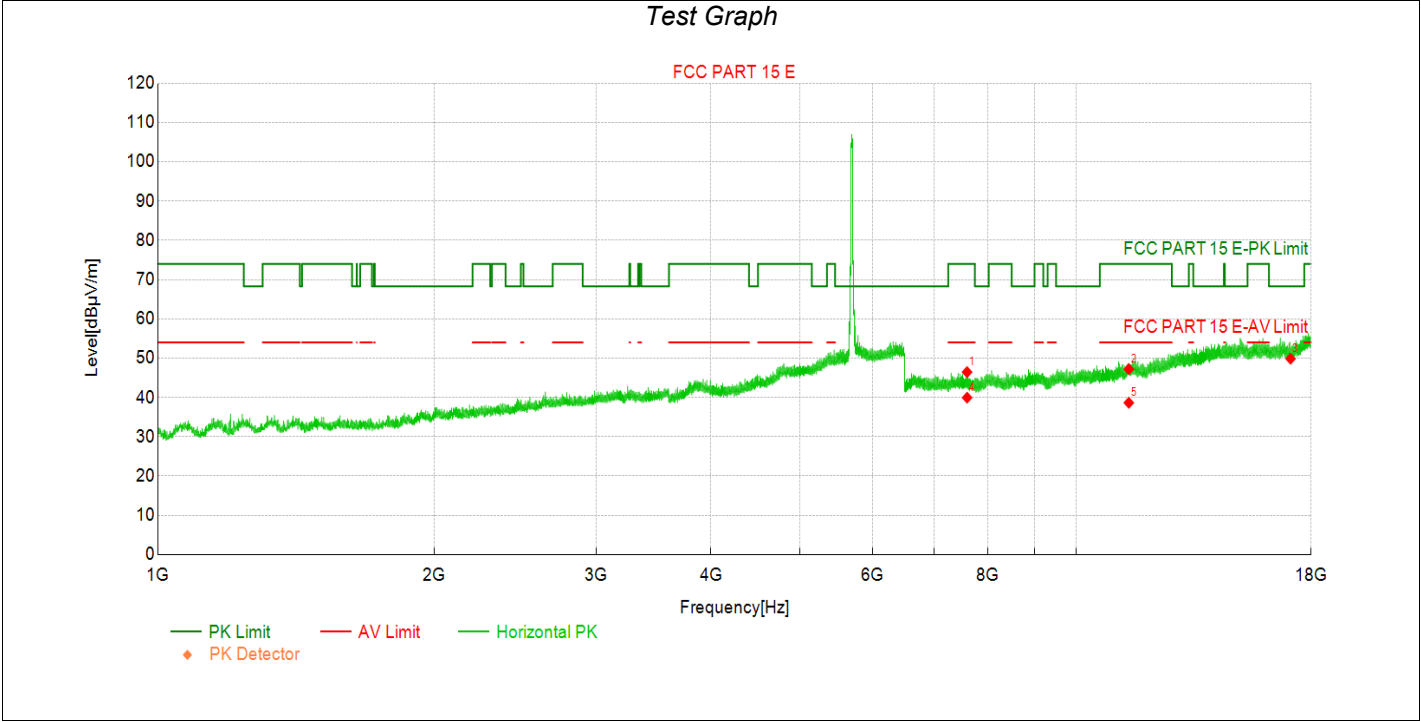


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11160.00	42.53	47.65	5.120	74.00	26.35	PK	Vertic	PASS
2	16740.00	39.46	52.81	13.350	68.30	15.49	PK	Vertic	PASS
3	11160.00	33.06	38.18	5.120	54.00	15.82	AV	Vertic	PASS



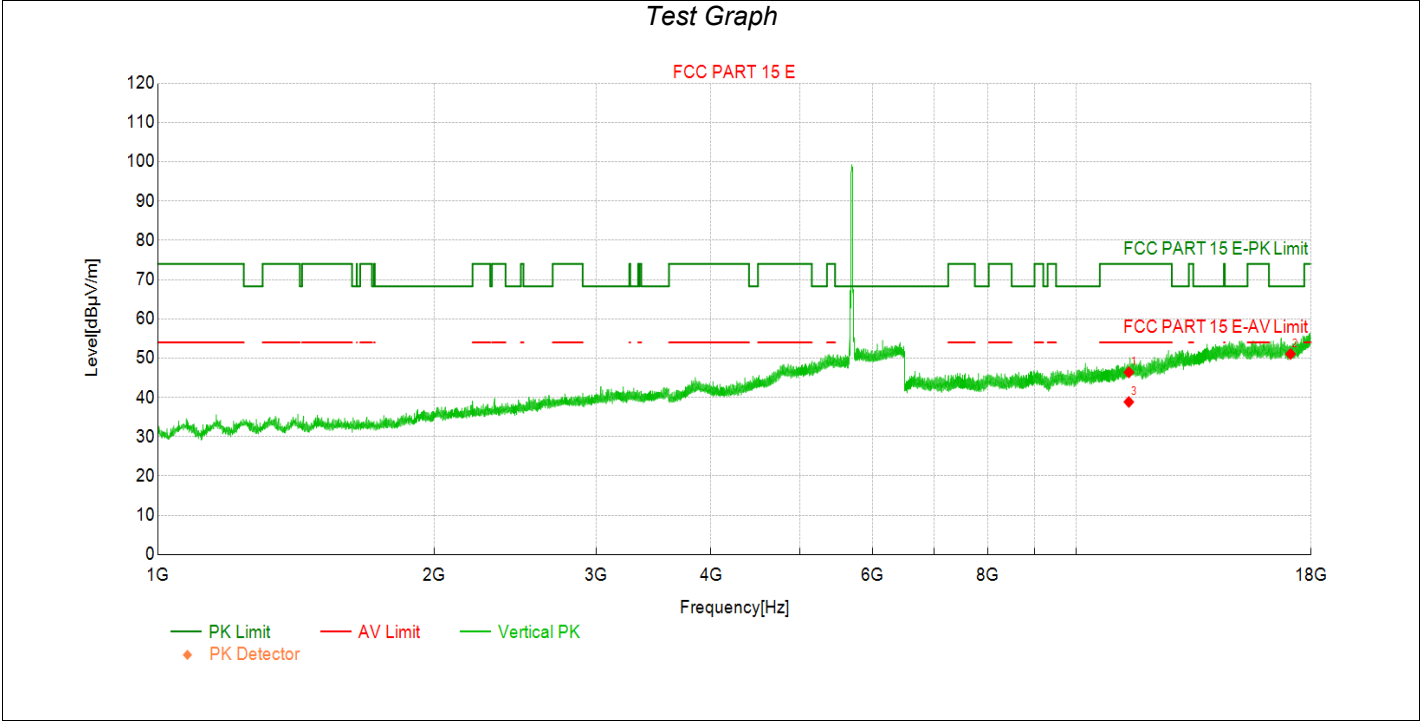
Transmit at 5700MHz by 802.11n(20MHz)



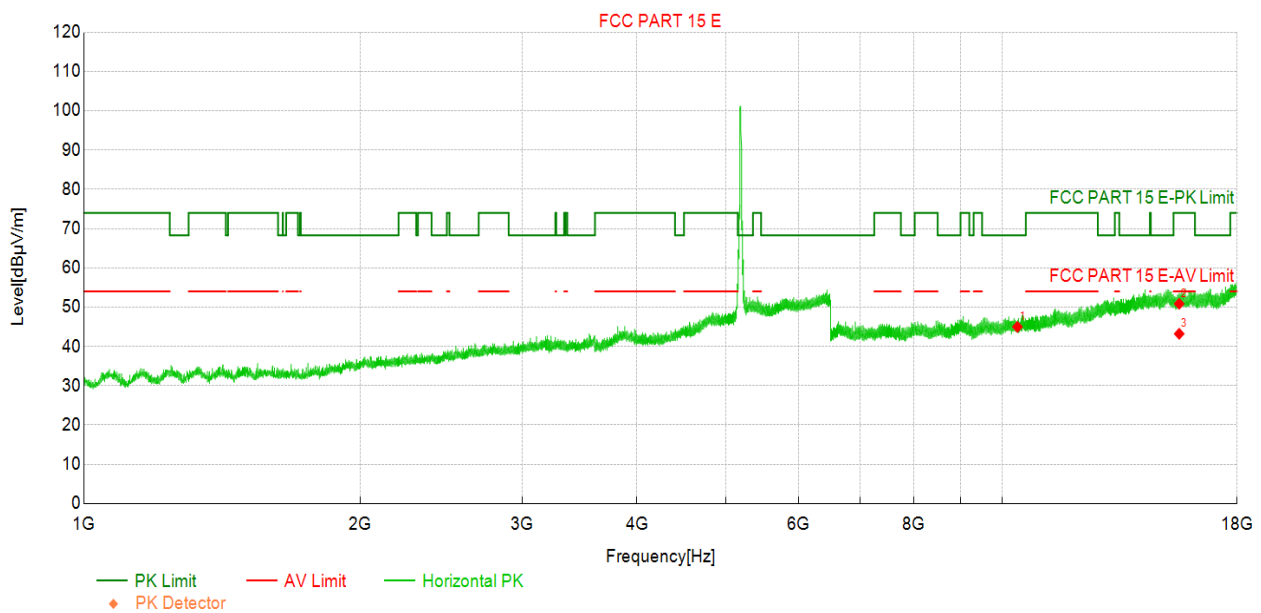
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7599.69	46.55	46.45	-0.100	74.00	27.55	PK	Horizo	PASS
2	11400.00	41.20	47.21	6.010	74.00	26.79	PK	Horizo	PASS
3	17100.00	36.61	49.85	13.240	68.30	18.45	PK	Horizo	PASS
4	7600.65	40.05	39.95	-0.100	54.00	14.05	AV	Horizo	PASS
5	11400.00	32.63	38.64	6.010	54.00	15.36	AV	Horizo	PASS



Transmit at 5700MHz by 802.11n(20MHz)

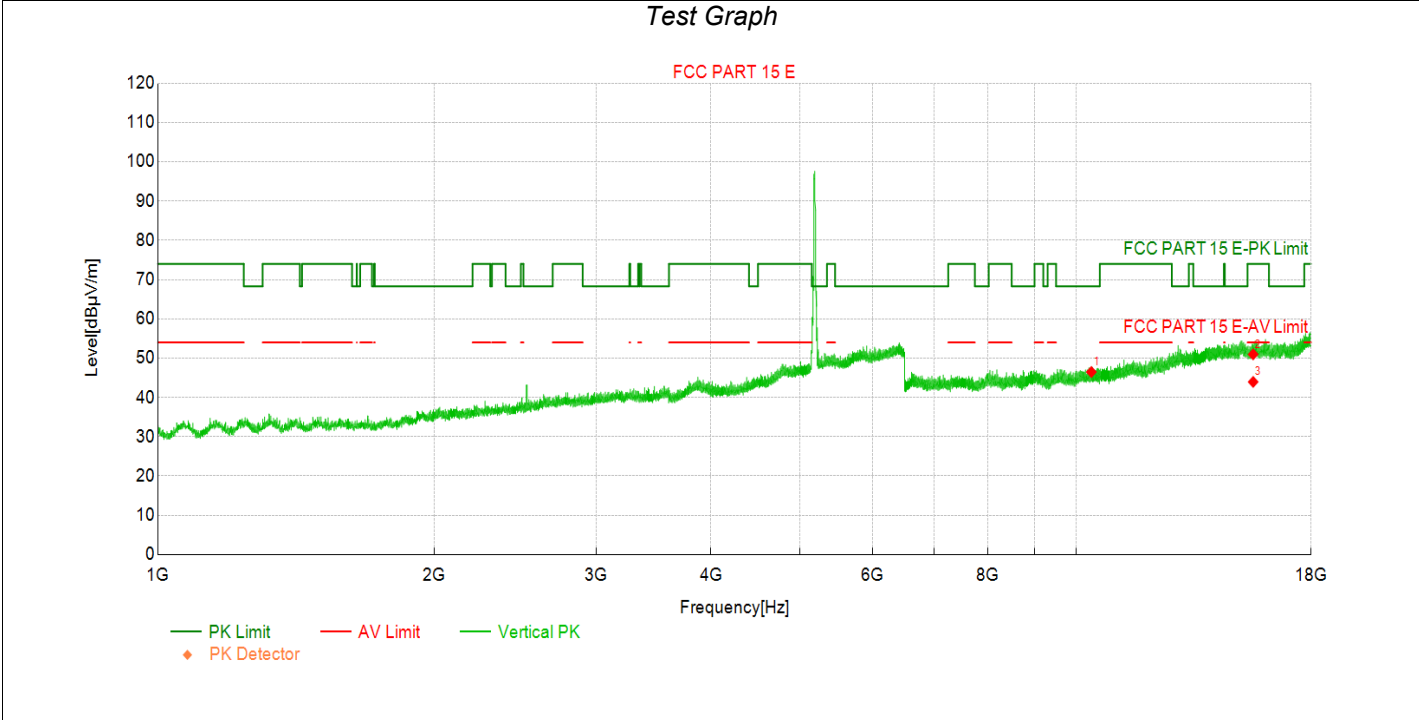


Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11400.00	40.38	46.39	6.010	74.00	27.61	PK	Vertic	PASS
2	17100.00	37.83	51.07	13.240	68.30	17.23	PK	Vertic	PASS
3	11400.00	32.85	38.86	6.010	54.00	15.14	AV	Vertic	PASS

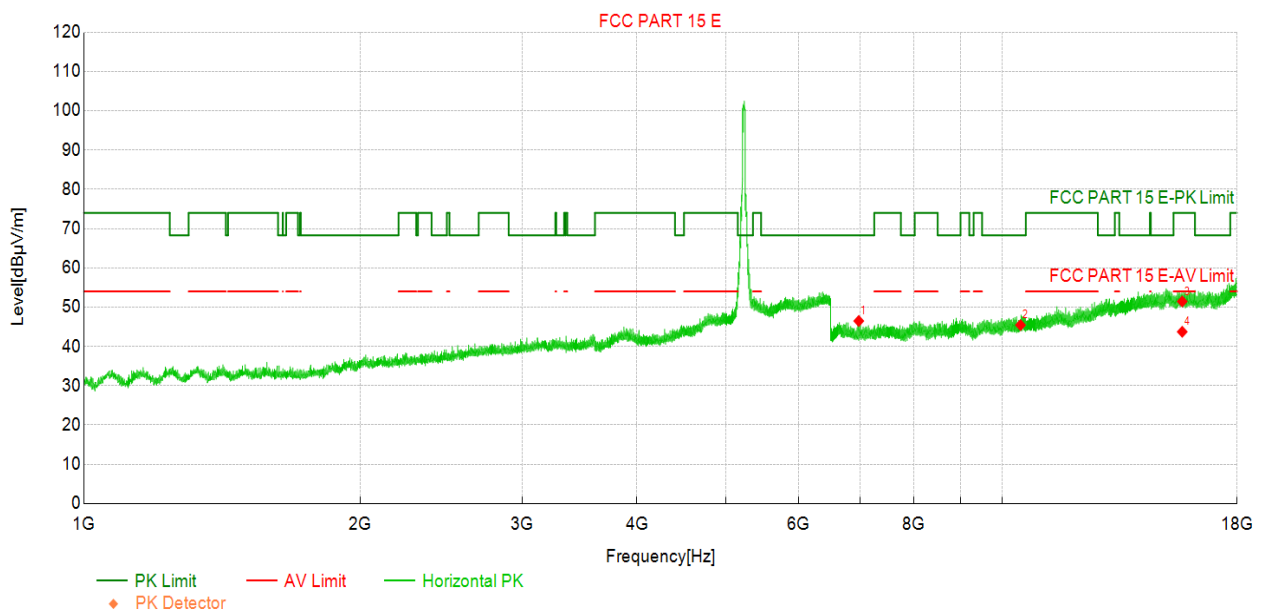
Transmit at 5190MHz by 802.11n(40MHz)*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10380.00	41.80	44.98	3.180	68.30	23.32	PK	Horizo	PASS
2	15570.00	37.94	50.86	12.920	74.00	23.14	PK	Horizo	PASS
3	15570.00	30.30	43.22	12.920	54.00	10.78	AV	Horizo	PASS

Transmit at 5190MHz by 802.11n(40MHz)



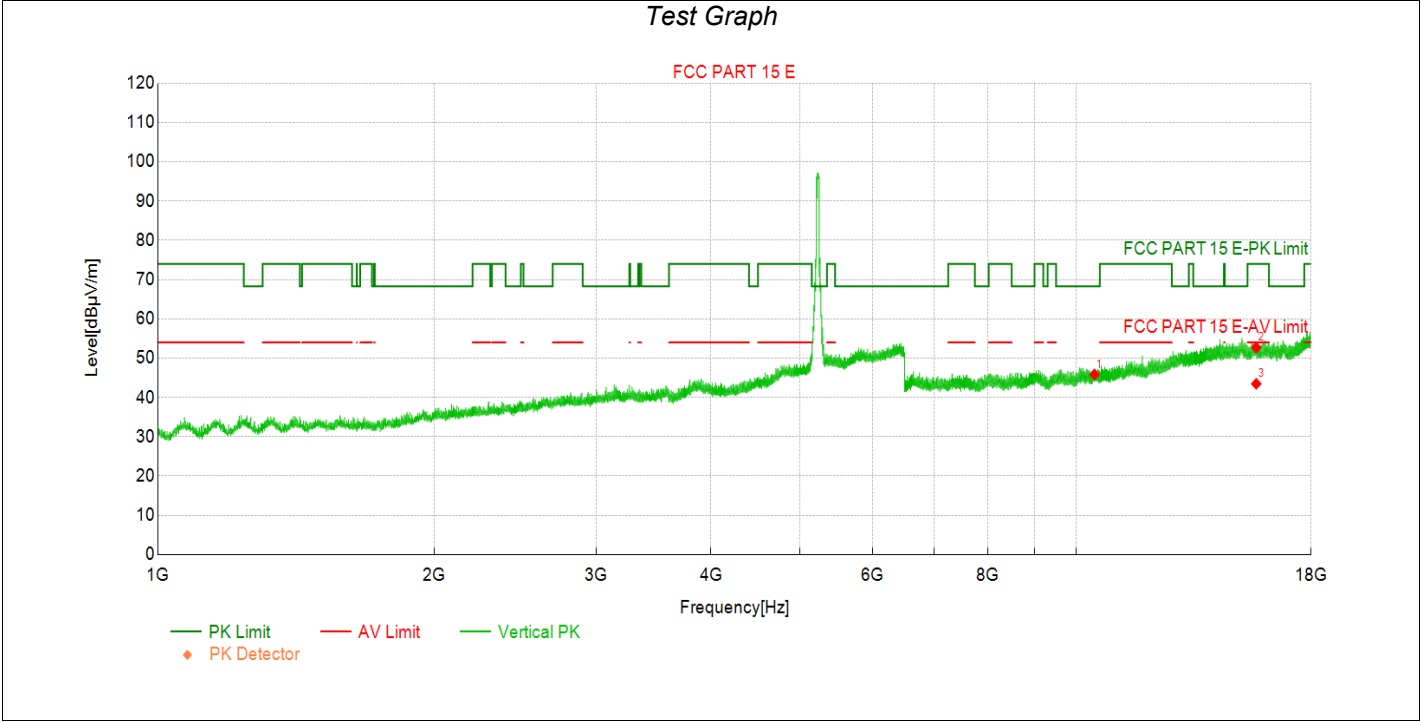
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10380.00	43.30	46.48	3.180	68.30	21.82	PK	Vertic	PASS
2	15570.00	38.04	50.96	12.920	74.00	23.04	PK	Vertic	PASS
3	15570.00	31.03	43.95	12.920	54.00	10.05	AV	Vertic	PASS

Transmit at 5230MHz by 802.11n(40MHz)*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	6973.42	47.27	46.48	-0.790	68.30	21.82	PK	Horizo	PASS
2	10460.00	41.96	45.44	3.480	68.30	22.86	PK	Horizo	PASS
3	15690.00	38.50	51.46	12.960	74.00	22.54	PK	Horizo	PASS
4	15690.00	30.77	43.73	12.960	54.00	10.27	AV	Horizo	PASS



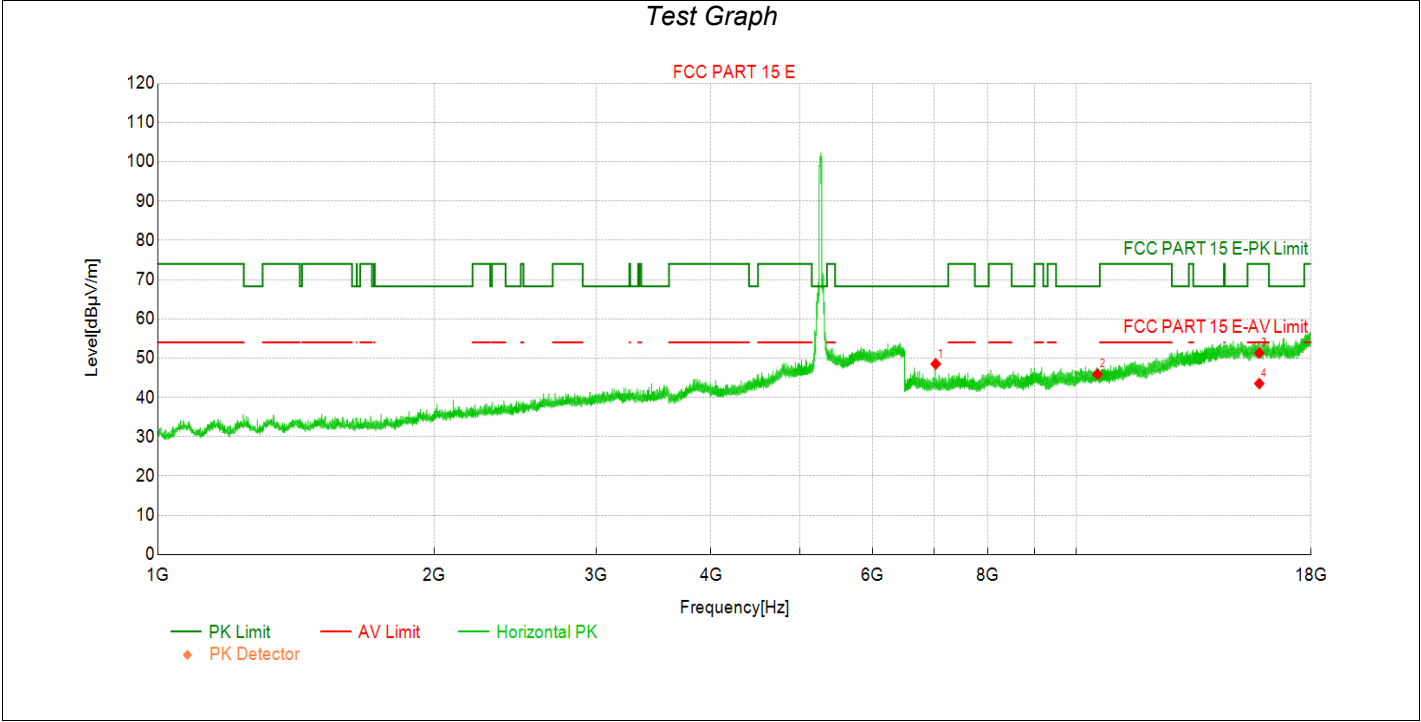
Transmit at 5230MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10460.00	42.39	45.87	3.480	68.30	22.43	PK	Vertic	PASS
2	15690.00	39.75	52.71	12.960	74.00	21.29	PK	Vertic	PASS
3	15690.00	30.51	43.47	12.960	54.00	10.53	AV	Vertic	PASS



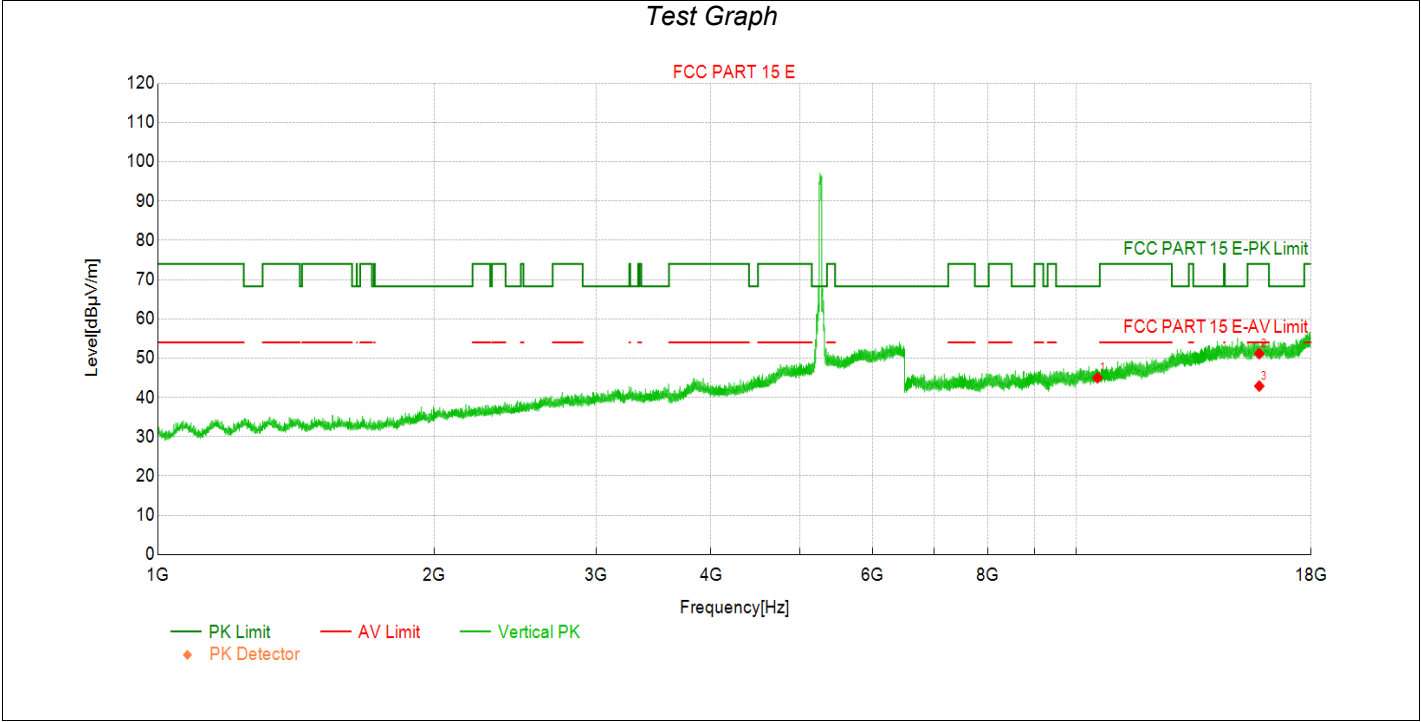
Transmit at 5270MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7026.60	49.22	48.53	-0.690	68.30	19.77	PK	Horizo	PASS
2	10540.00	42.21	45.90	3.690	68.30	22.40	PK	Horizo	PASS
3	15810.00	38.66	51.30	12.640	74.00	22.70	PK	Horizo	PASS
4	15810.00	30.90	43.54	12.640	54.00	10.46	AV	Horizo	PASS

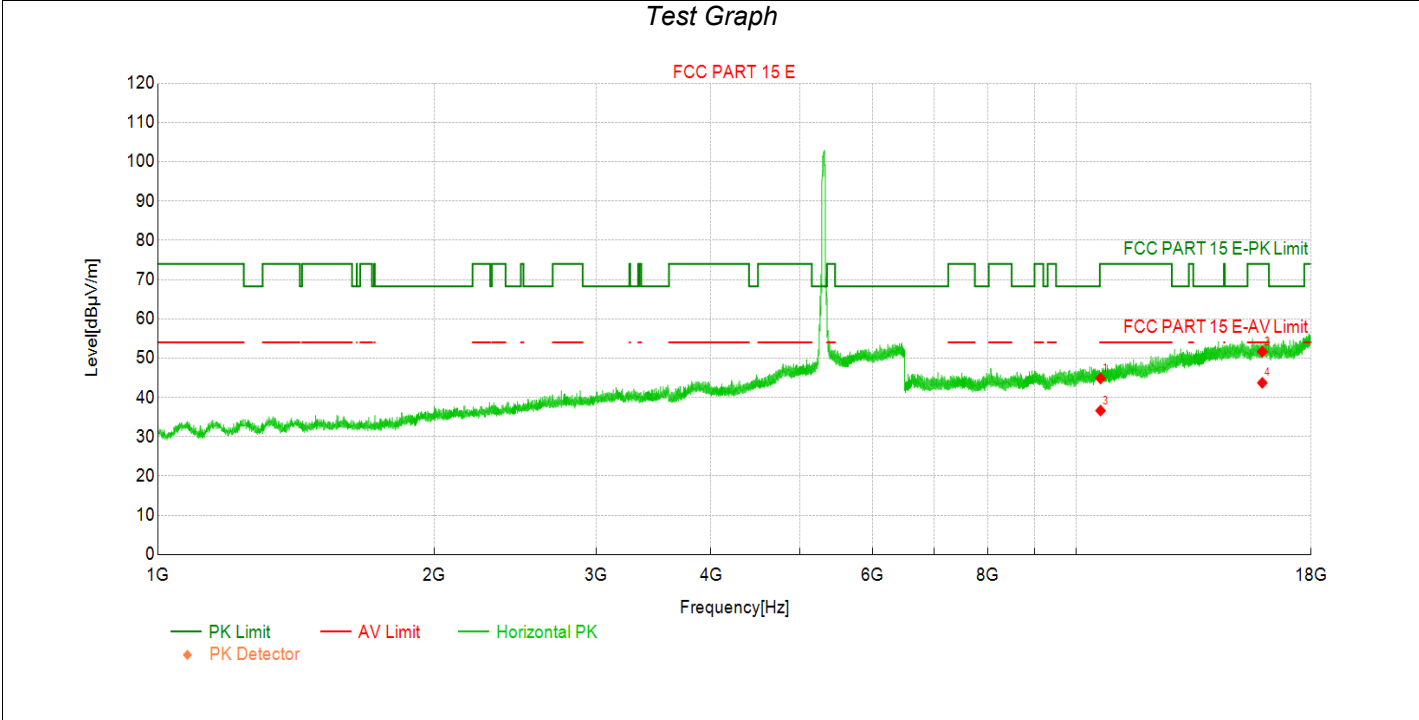


Transmit at 5270MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10540.00	41.31	45.00	3.690	68.30	23.30	PK	Vertic	PASS
2	15810.00	38.51	51.15	12.640	74.00	22.85	PK	Vertic	PASS
3	15810.00	30.26	42.90	12.640	54.00	11.10	AV	Vertic	PASS

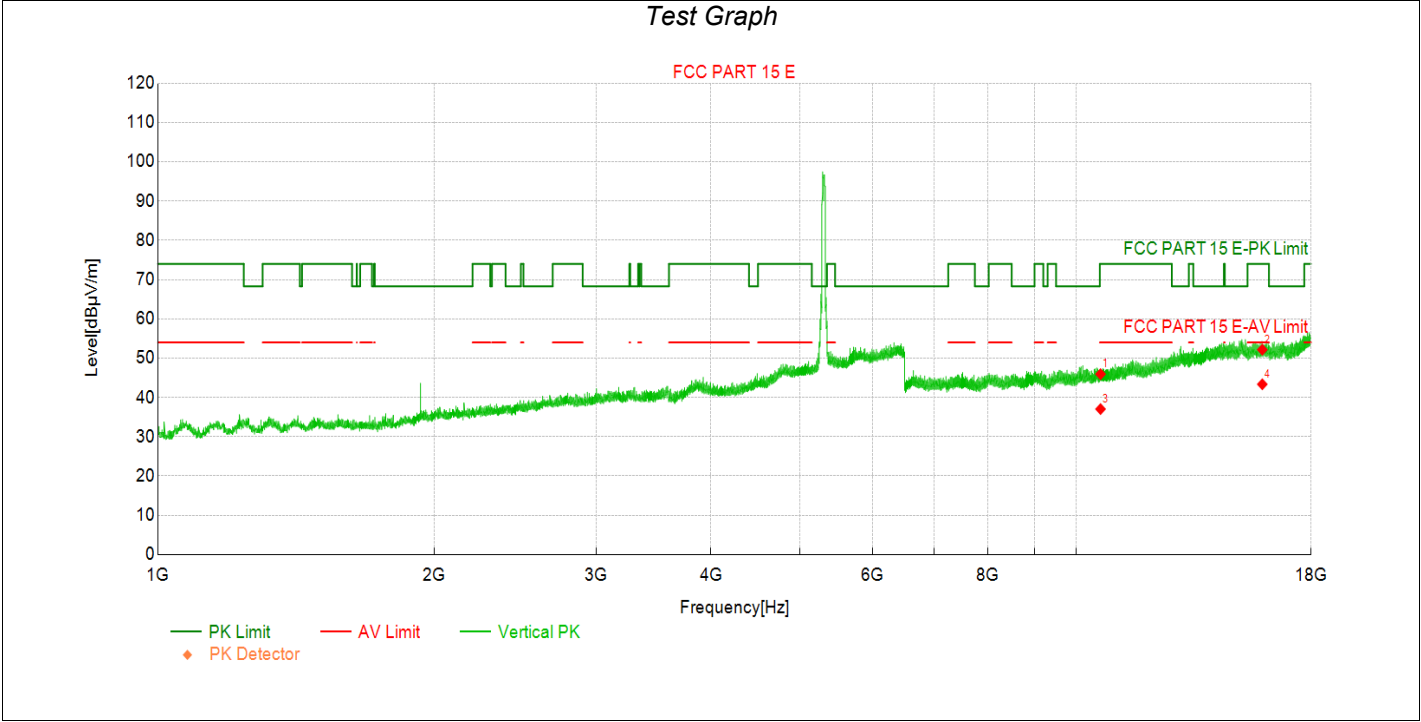
Transmit at 5310MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	10620.00	41.07	44.83	3.760	74.00	29.17	PK	Horizo	PASS
2	15930.00	38.44	51.65	13.210	74.00	22.35	PK	Horizo	PASS
3	10620.00	32.88	36.64	3.760	54.00	17.36	AV	Horizo	PASS
4	15930.00	30.51	43.72	13.210	54.00	10.28	AV	Horizo	PASS



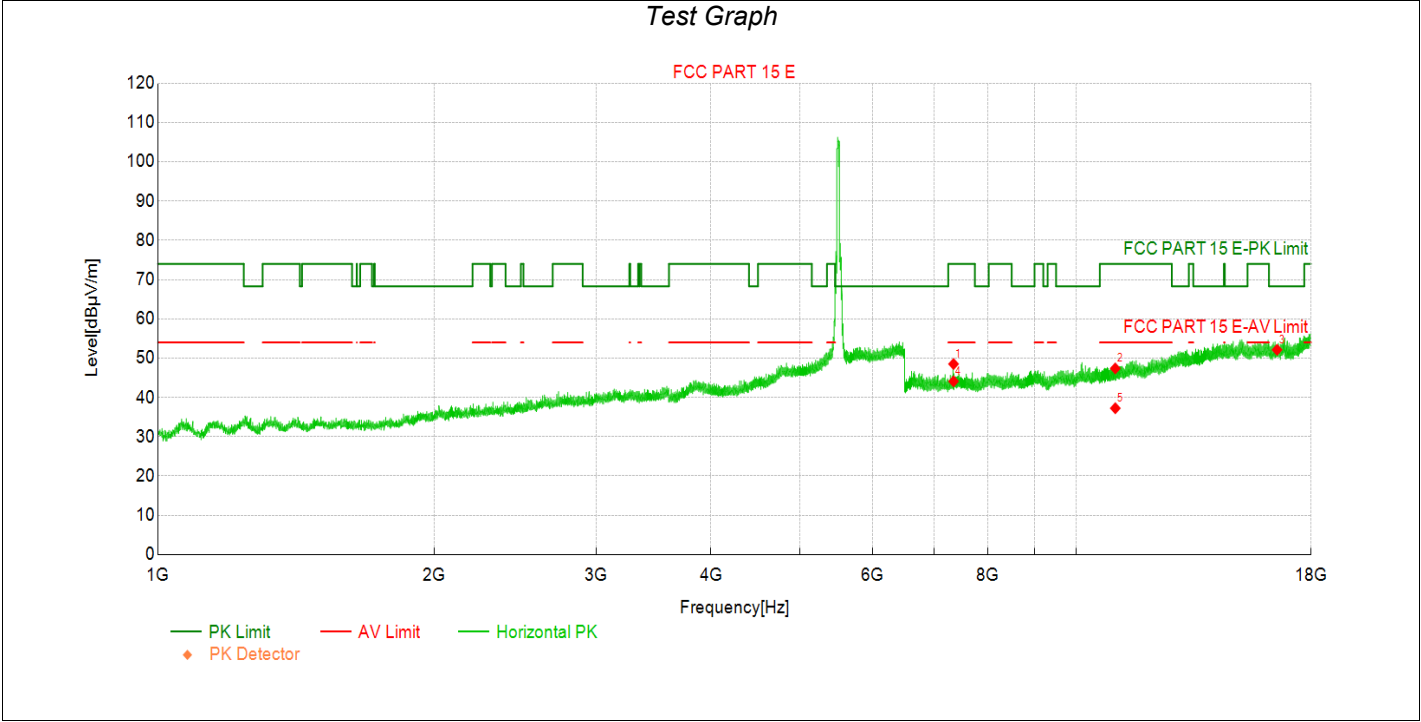
Transmit at 5310MHz by 802.11n(40MHz)



Data List

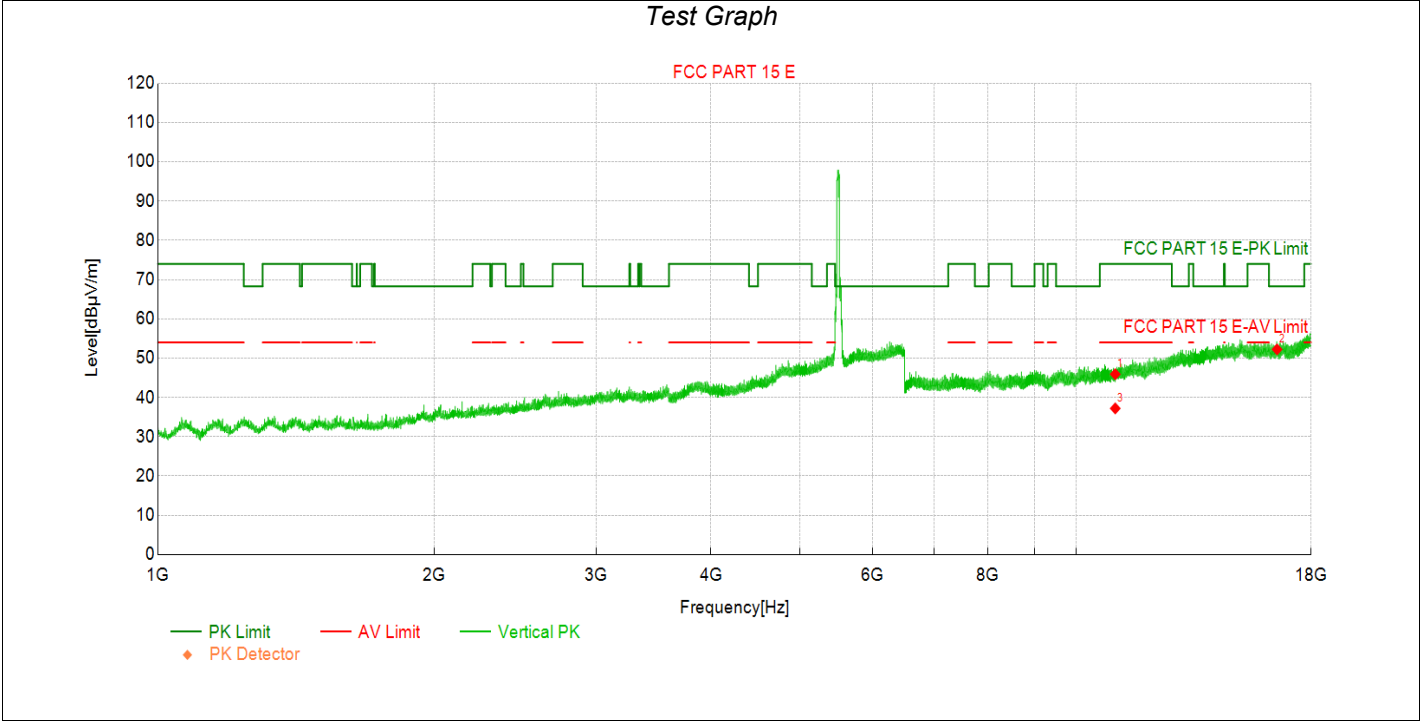
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	10620.00	42.17	45.93	3.760	74.00	28.07	PK	Vertic	PASS
2	15930.00	38.95	52.16	13.210	74.00	21.84	PK	Vertic	PASS
3	10620.00	33.28	37.04	3.760	54.00	16.96	AV	Vertic	PASS
4	15930.00	30.15	43.36	13.210	54.00	10.64	AV	Vertic	PASS

Transmit at 5510MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7346.69	48.62	48.52	-0.100	74.00	25.48	PK	Horizo	PASS
2	11020.00	42.78	47.38	4.600	74.00	26.62	PK	Horizo	PASS
3	16530.00	39.03	52.13	13.100	68.30	16.17	PK	Horizo	PASS
4	7347.17	44.21	44.11	-0.100	54.00	9.89	AV	Horizo	PASS
5	11020.00	32.66	37.26	4.600	54.00	16.74	AV	Horizo	PASS

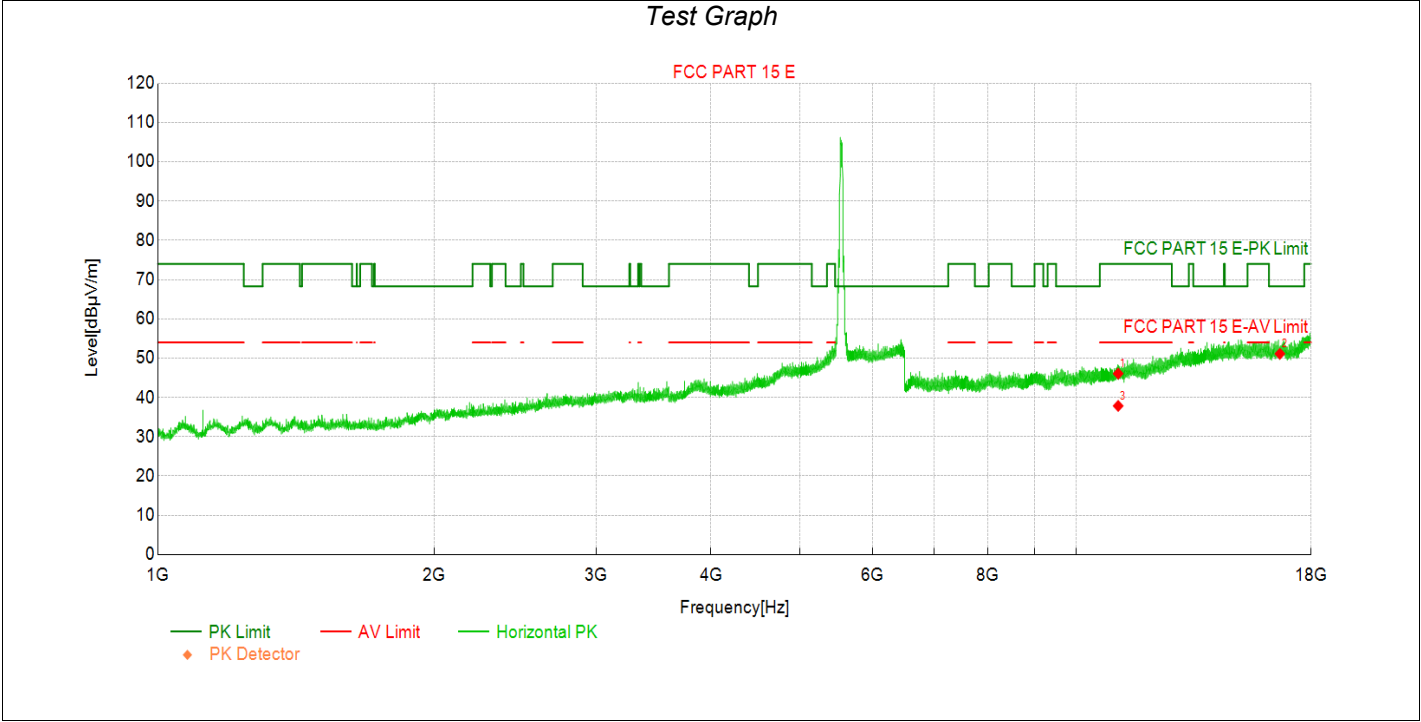
Transmit at 5510MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11020.00	41.32	45.92	4.600	74.00	28.08	PK	Vertic	PASS
2	16530.00	39.14	52.24	13.100	68.30	16.06	PK	Vertic	PASS
3	11020.00	32.61	37.21	4.600	54.00	16.79	AV	Vertic	PASS



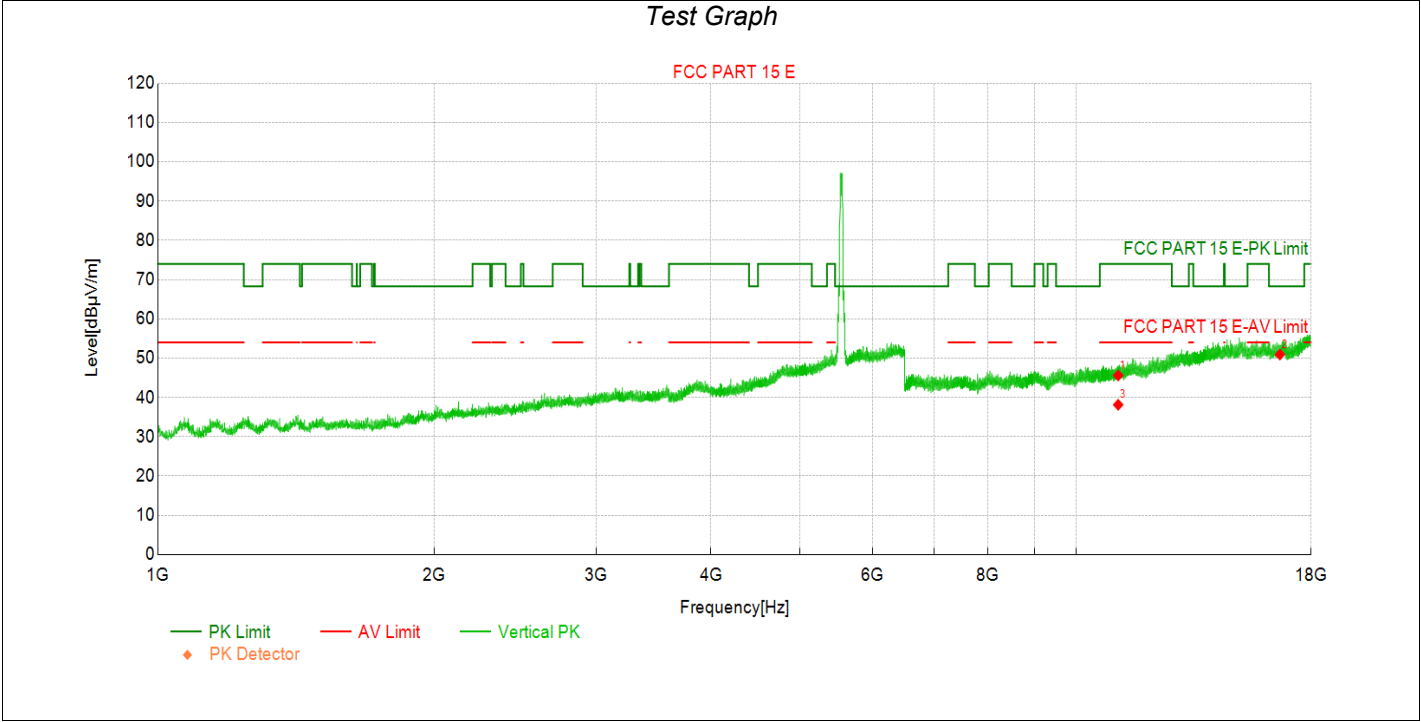
Transmit at 5550MHz by 802.11n(40MHz)



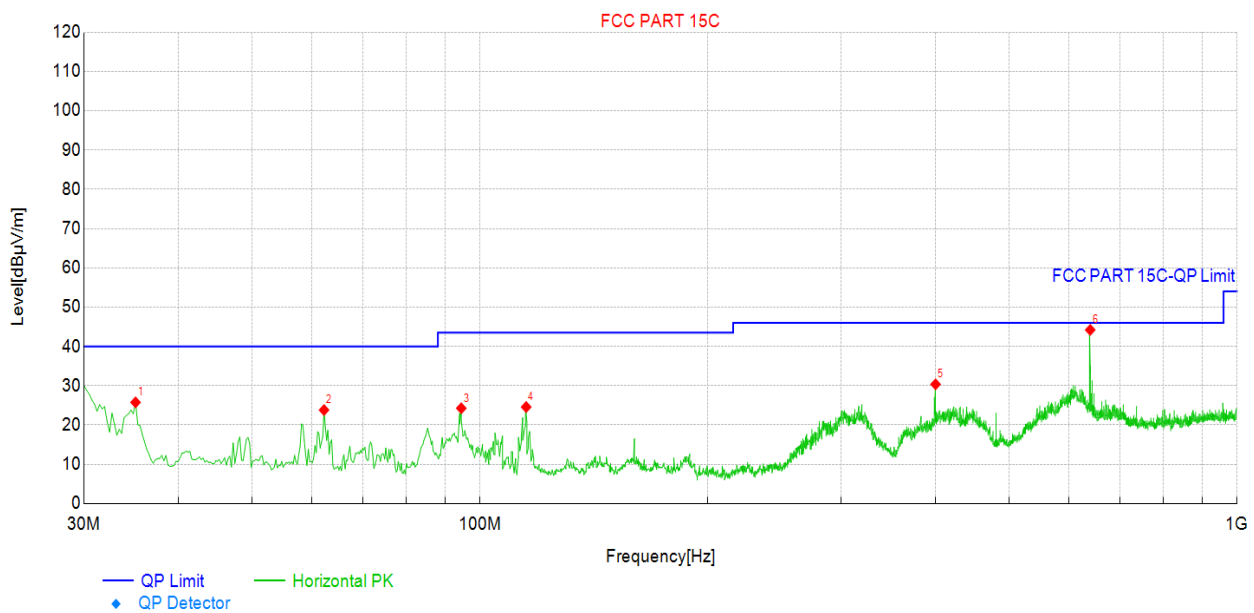
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11100.00	41.09	46.07	4.980	74.00	27.93	PK	Horizo	PASS
2	16650.00	37.98	51.12	13.140	68.30	17.18	PK	Horizo	PASS
3	11100.00	32.86	37.84	4.980	54.00	16.16	AV	Horizo	PASS



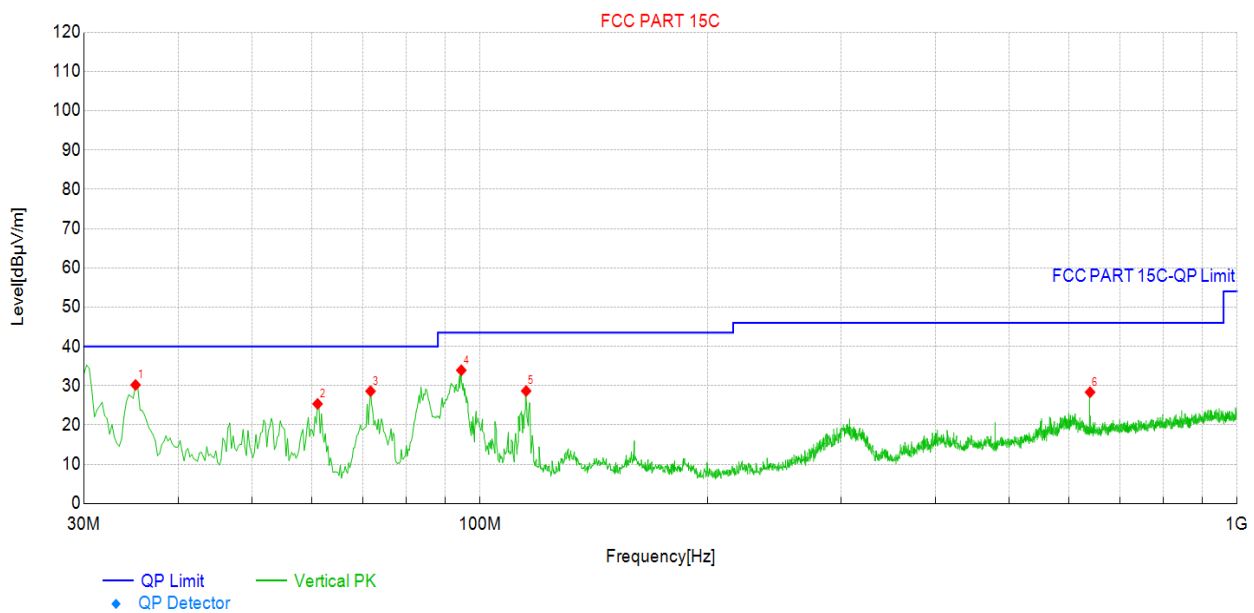
Transmit at 5550MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11100.00	40.62	45.60	4.980	74.00	28.40	PK	Vertic	PASS
2	16650.00	37.79	50.93	13.140	68.30	17.37	PK	Vertic	PASS
3	11100.00	33.15	38.13	4.980	54.00	15.87	AV	Vertic	PASS

Transmit at 5180MHz by 802.11a*Test Graph***Data List**

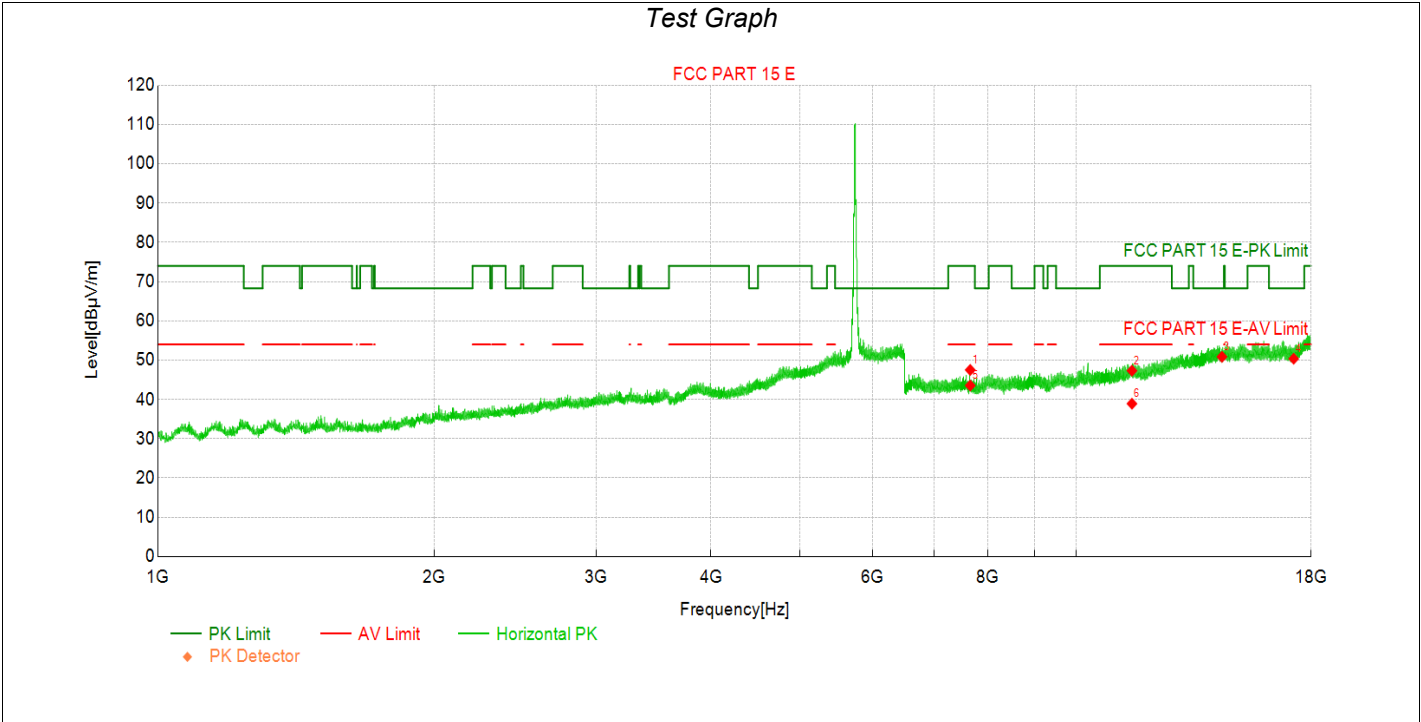
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	35.09	45.69	25.77	-19.920	40.00	14.23	PK	Horizo	PASS
2	62.25	43.84	23.82	-20.020	40.00	16.18	PK	Horizo	PASS
3	94.51	48.42	24.27	-24.150	43.50	19.23	PK	Horizo	PASS
4	115.12	46.26	24.58	-21.680	43.50	18.92	PK	Horizo	PASS
5	399.81	46.34	30.36	-15.980	46.00	15.64	PK	Horizo	PASS
6	639.89	55.19	44.21	-10.980	46.00	1.79	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	35.09	50.12	30.20	-19.920	40.00	9.80	PK	Vertic	PASS
2	61.04	45.19	25.37	-19.820	40.00	14.63	PK	Vertic	PASS
3	71.71	50.19	28.61	-21.580	40.00	11.39	PK	Vertic	PASS
4	94.51	58.08	33.93	-24.150	43.50	9.57	PK	Vertic	PASS
5	115.12	50.35	28.67	-21.680	43.50	14.83	PK	Vertic	PASS
6	639.65	39.33	28.35	-10.980	46.00	17.65	PK	Vertic	PASS



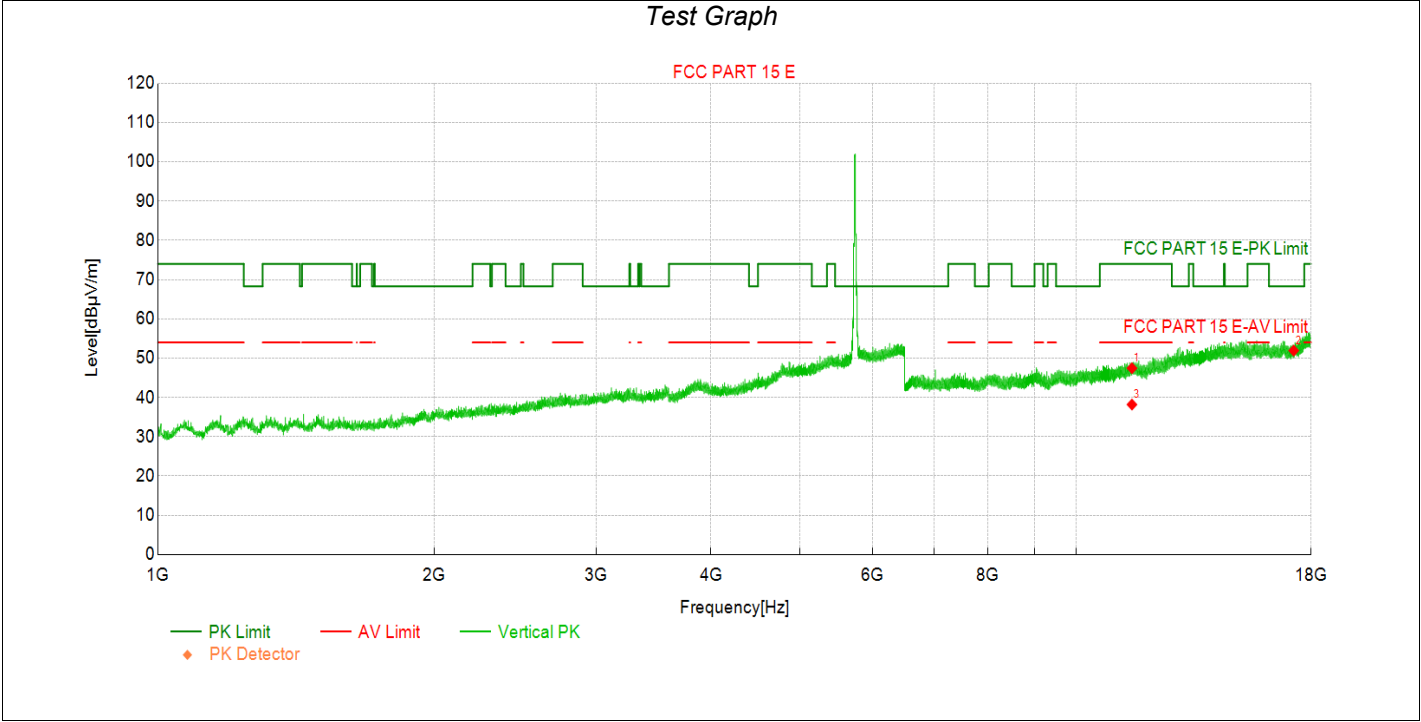
Transmit at 5745MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7660.06	47.49	47.51	0.020	74.00	26.49	PK	Horizo	PASS
2	11490.00	41.41	47.32	5.910	74.00	26.68	PK	Horizo	PASS
3	14399.54	39.40	50.85	11.450	68.30	17.45	PK	Horizo	PASS
4	17235.00	36.59	50.36	13.770	68.30	17.94	PK	Horizo	PASS
5	7660.54	43.52	43.54	0.020	54.00	10.46	AV	Horizo	PASS
6	11490.00	33.01	38.92	5.910	54.00	15.08	AV	Horizo	PASS



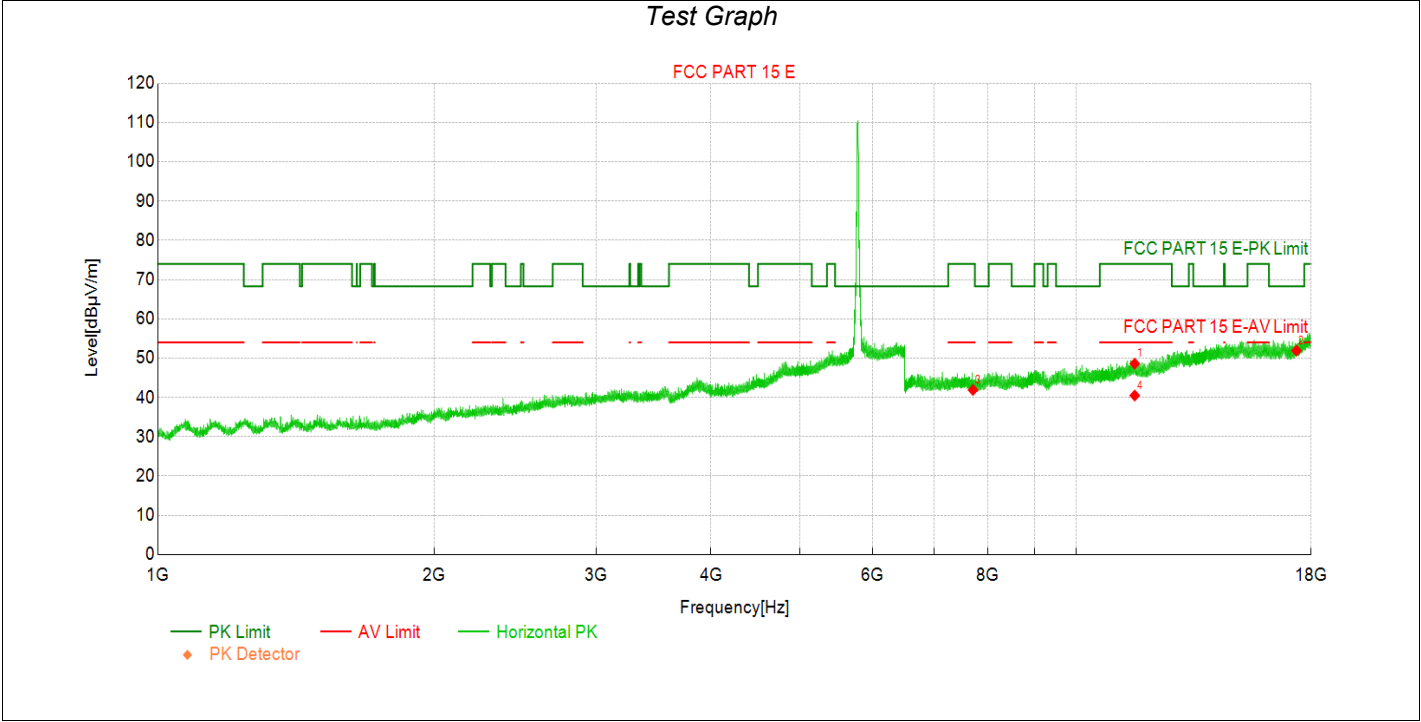
Transmit at 5745MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	41.53	47.44	5.910	74.00	26.56	PK	Vertic	PASS
2	17235.00	38.16	51.93	13.770	68.30	16.37	PK	Vertic	PASS
3	11490.00	32.28	38.19	5.910	54.00	15.81	AV	Vertic	PASS



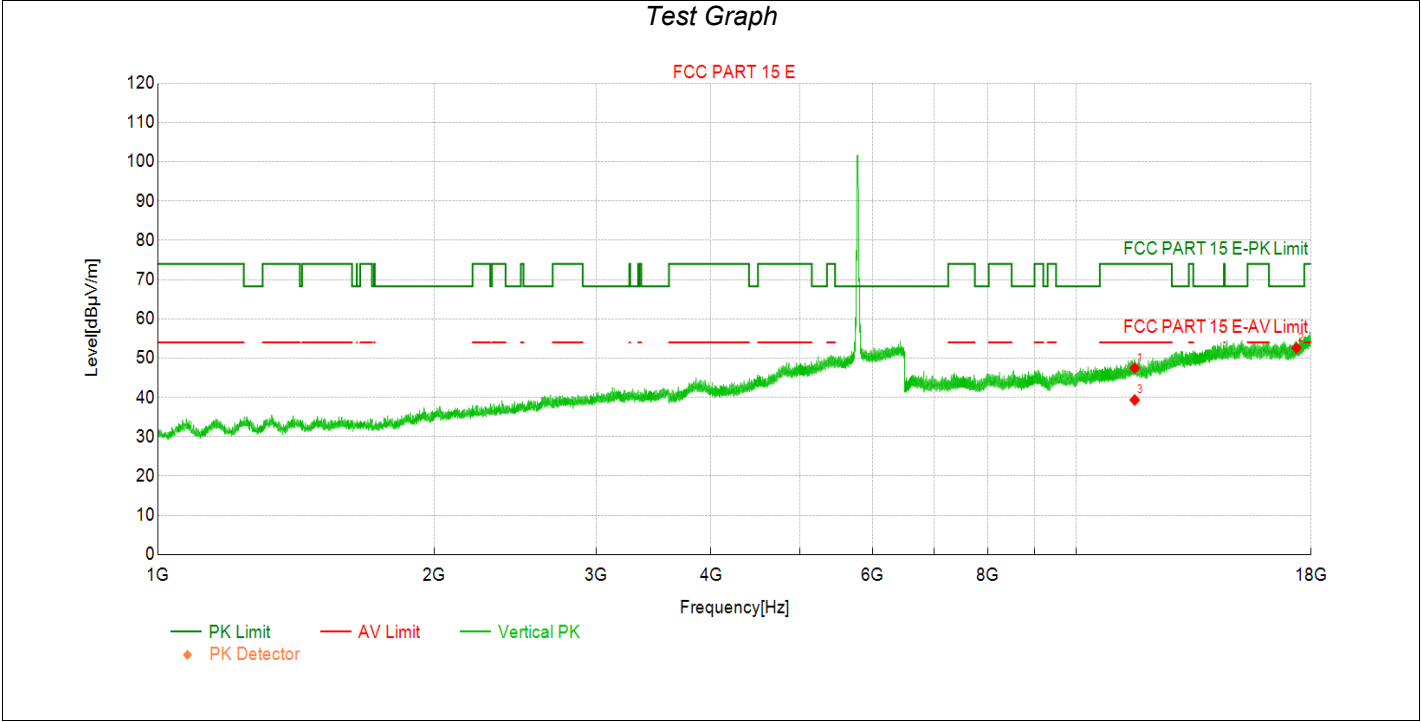
Transmit at 5785MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	42.57	48.60	6.030	74.00	25.40	PK	Horizo	PASS
2	17355.00	37.77	51.91	14.140	68.30	16.39	PK	Horizo	PASS
3	7713.73	41.83	41.91	0.080	54.00	12.09	AV	Horizo	PASS
4	11570.00	34.46	40.49	6.030	54.00	13.51	AV	Horizo	PASS



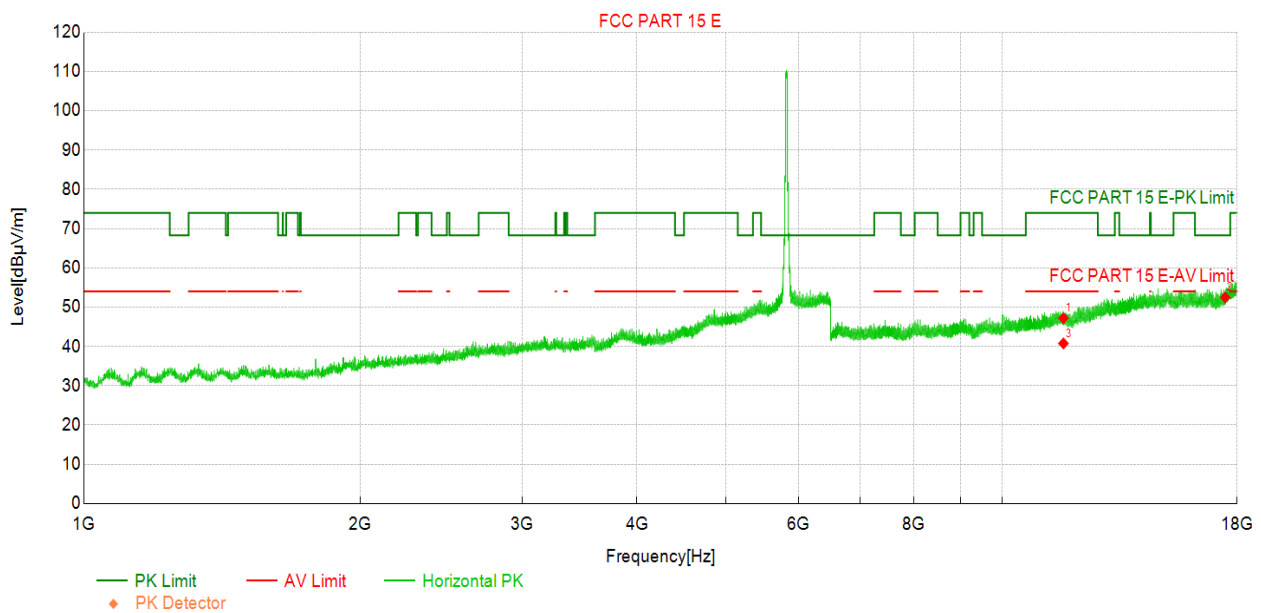
Transmit at 5785MHz by 802.11a



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	41.47	47.50	6.030	74.00	26.50	PK	Vertic	PASS
2	17355.00	38.46	52.60	14.140	68.30	15.70	PK	Vertic	PASS
3	11570.00	33.33	39.36	6.030	54.00	14.64	AV	Vertic	PASS

Transmit at 5825MHz by 802.11a

Test Graph

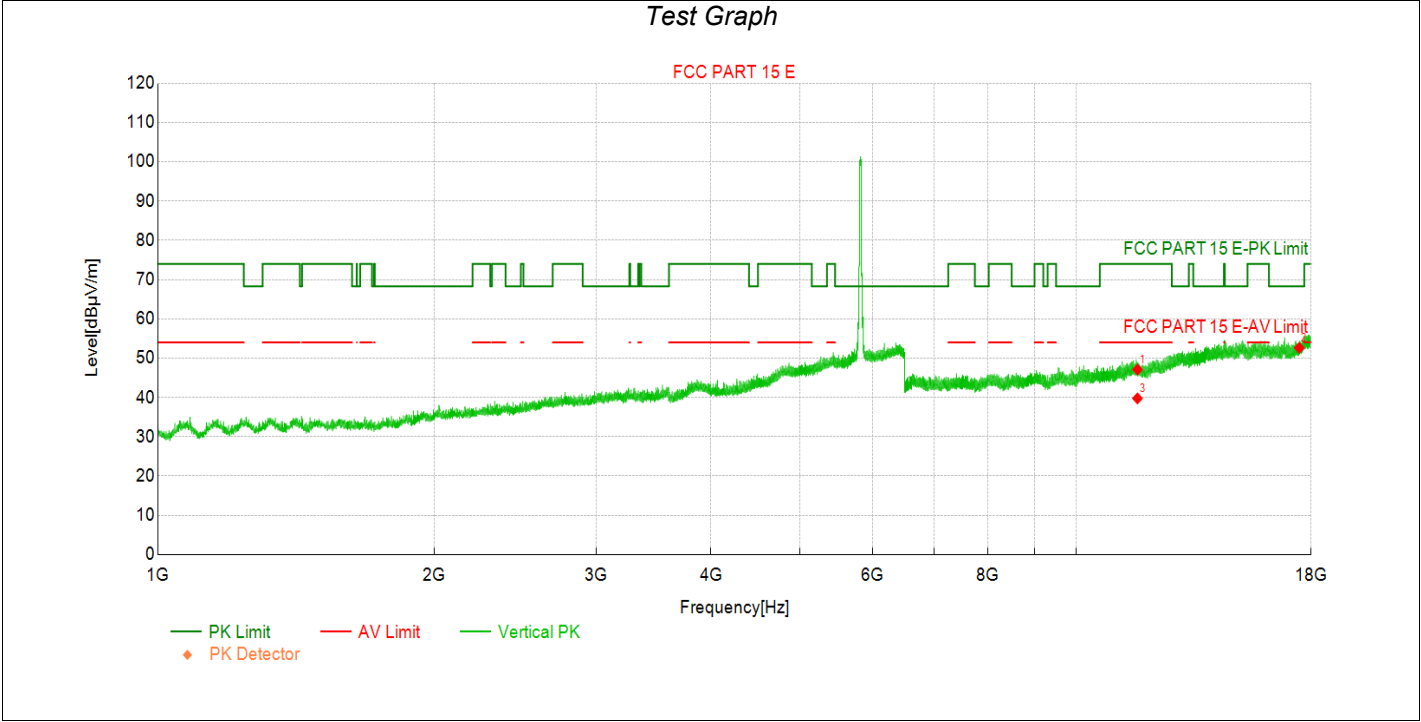


Data List

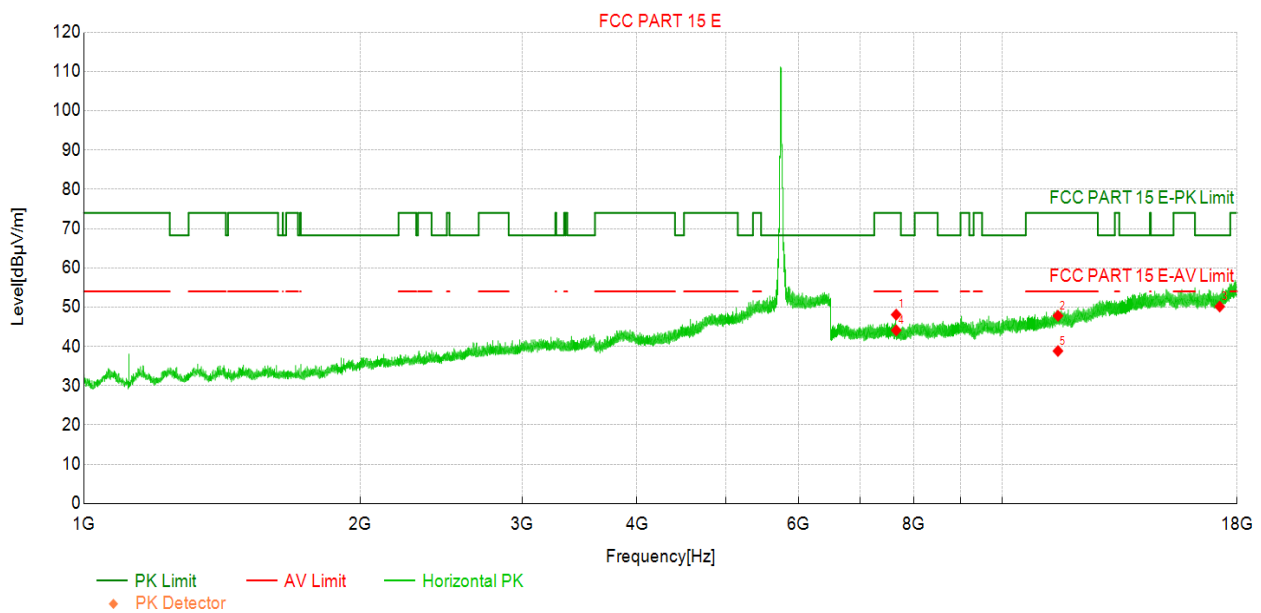
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	41.04	47.19	6.150	74.00	26.81	PK	Horizo	PASS
2	17475.00	37.64	52.49	14.850	68.30	15.81	PK	Horizo	PASS
3	11650.00	34.61	40.76	6.150	54.00	13.24	AV	Horizo	PASS



Transmit at 5825MHz by 802.11a



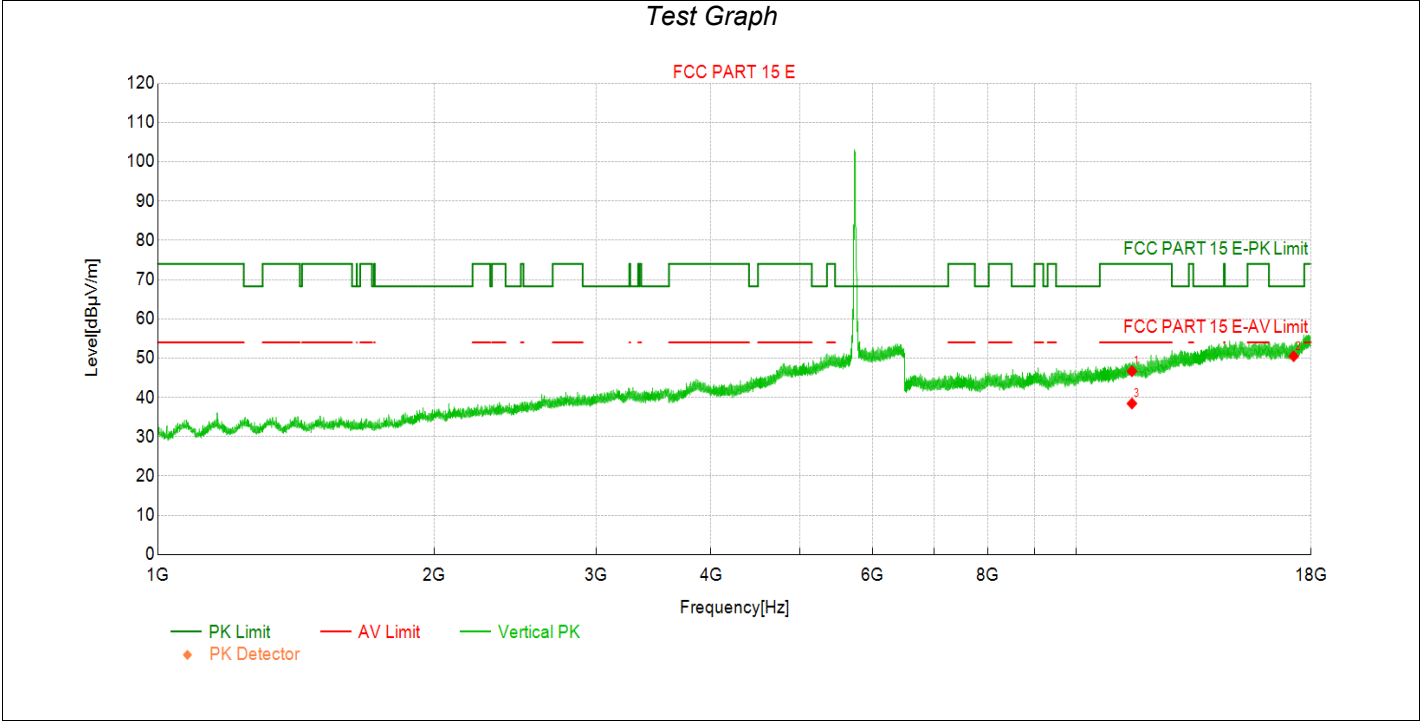
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	40.95	47.10	6.150	74.00	26.90	PK	Vertic	PASS
2	17475.00	37.77	52.62	14.850	68.30	15.68	PK	Vertic	PASS
3	11650.00	33.61	39.76	6.150	54.00	14.24	AV	Vertic	PASS

Transmit at 5745MHz by 802.11n(20MHz)*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7660.06	48.08	48.10	0.020	74.00	25.90	PK	Horizo	PASS
2	11490.00	41.90	47.81	5.910	74.00	26.19	PK	Horizo	PASS
3	17235.00	36.39	50.16	13.770	68.30	18.14	PK	Horizo	PASS
4	7660.54	44.09	44.11	0.020	54.00	9.89	AV	Horizo	PASS
5	11490.00	32.93	38.84	5.910	54.00	15.16	AV	Horizo	PASS

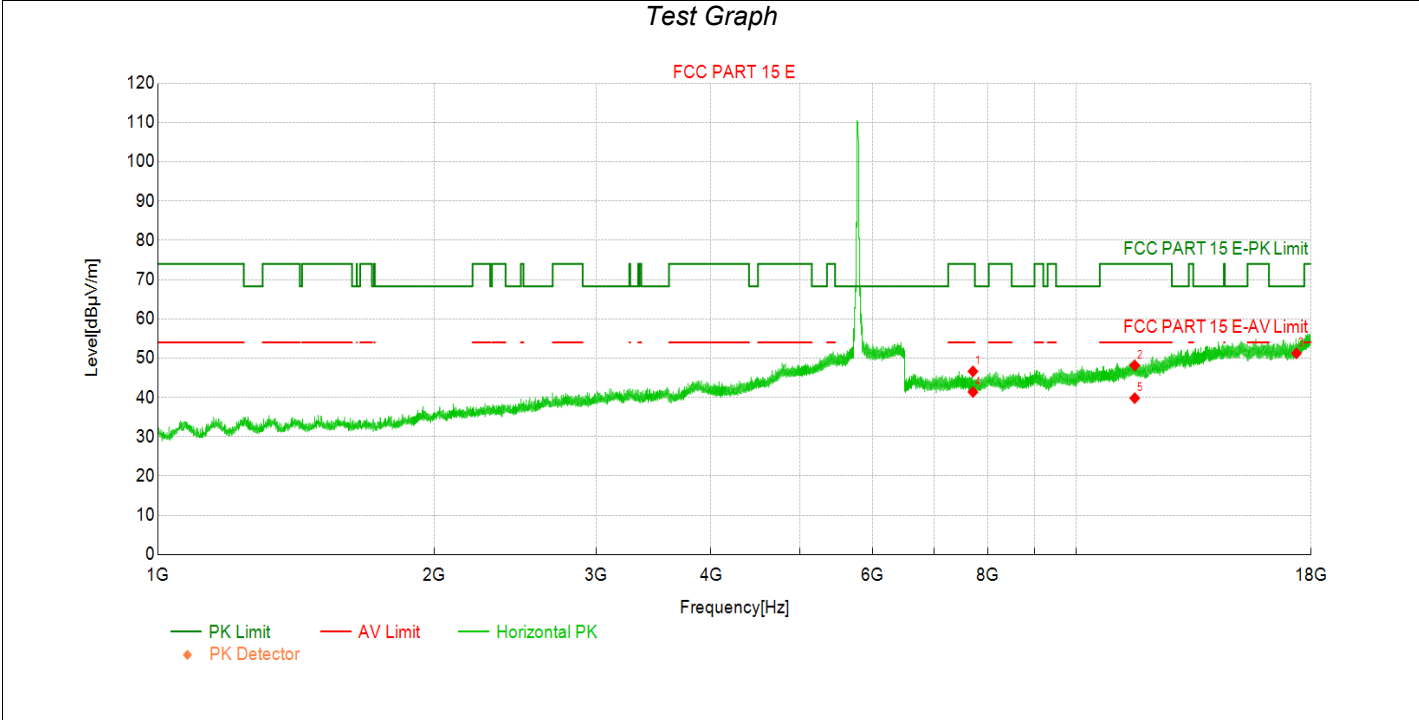


Transmit at 5745MHz by 802.11n(20MHz)



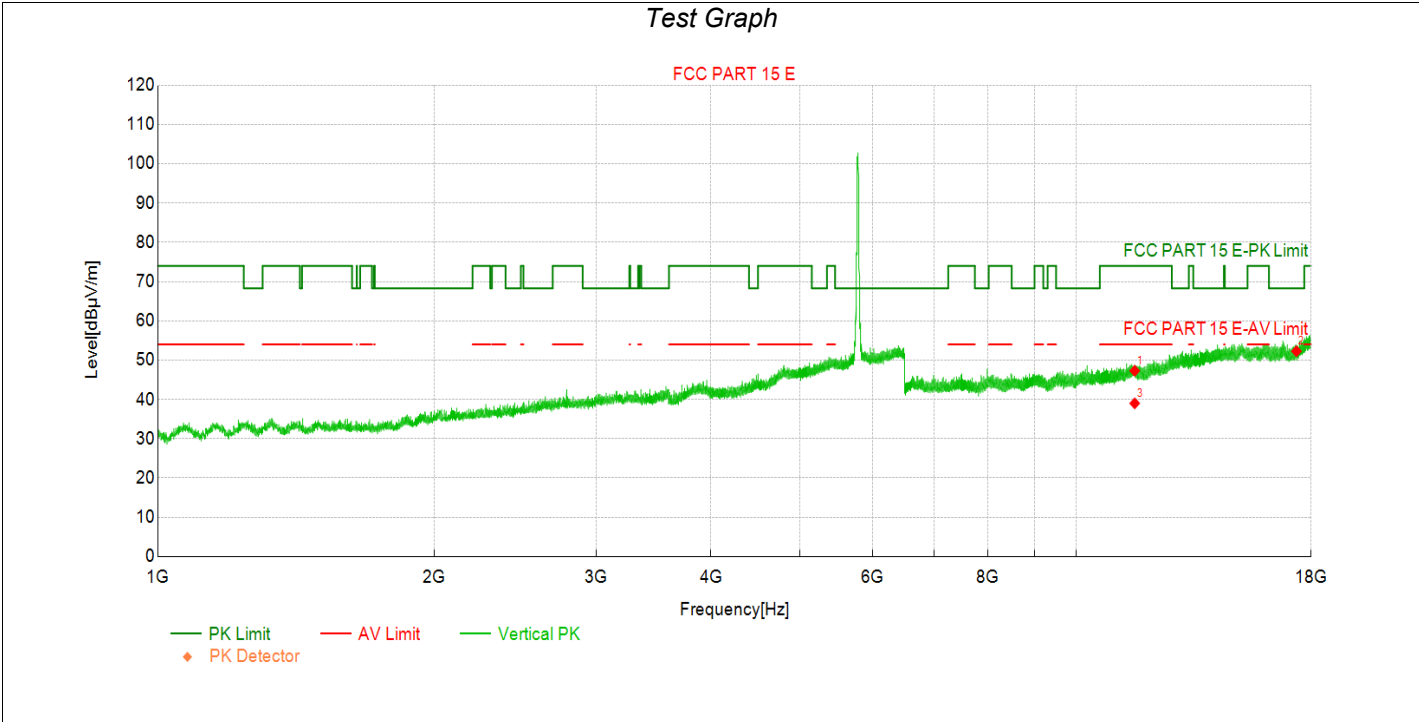
Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11490.00	40.77	46.68	5.910	74.00	27.32	PK	Vertic	PASS
2	17235.00	36.71	50.48	13.770	68.30	17.82	PK	Vertic	PASS
3	11490.00	32.54	38.45	5.910	54.00	15.55	AV	Vertic	PASS

Transmit at 5785MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7713.25	46.56	46.64	0.080	74.00	27.36	PK	Horizo	PASS
2	11570.00	42.12	48.15	6.030	74.00	25.85	PK	Horizo	PASS
3	17355.00	37.09	51.23	14.140	68.30	17.07	PK	Horizo	PASS
4	7713.73	41.29	41.37	0.080	54.00	12.63	AV	Horizo	PASS
5	11570.00	33.80	39.83	6.030	54.00	14.17	AV	Horizo	PASS

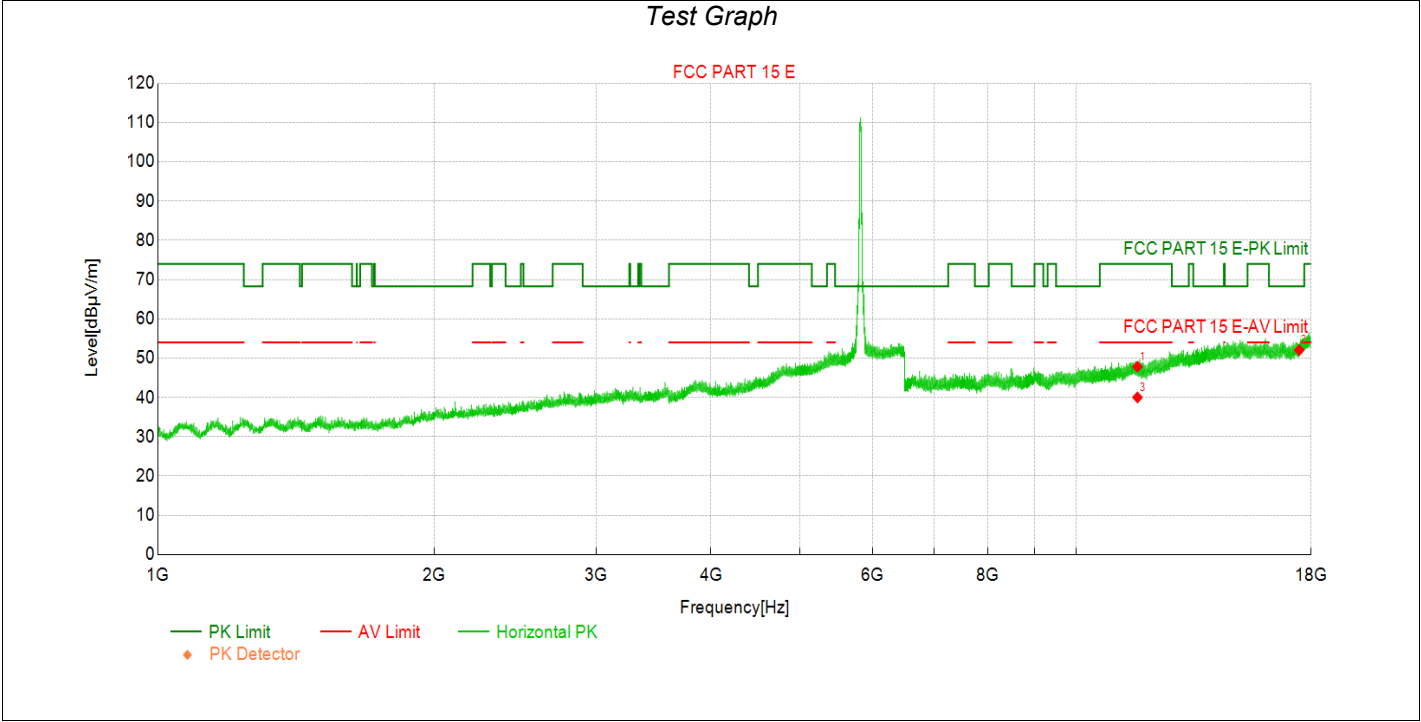
Transmit at 5785MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11570.00	41.27	47.30	6.030	74.00	26.70	PK	Vertic	PASS
2	17355.00	38.14	52.28	14.140	68.30	16.02	PK	Vertic	PASS
3	11570.00	32.98	39.01	6.030	54.00	14.99	AV	Vertic	PASS



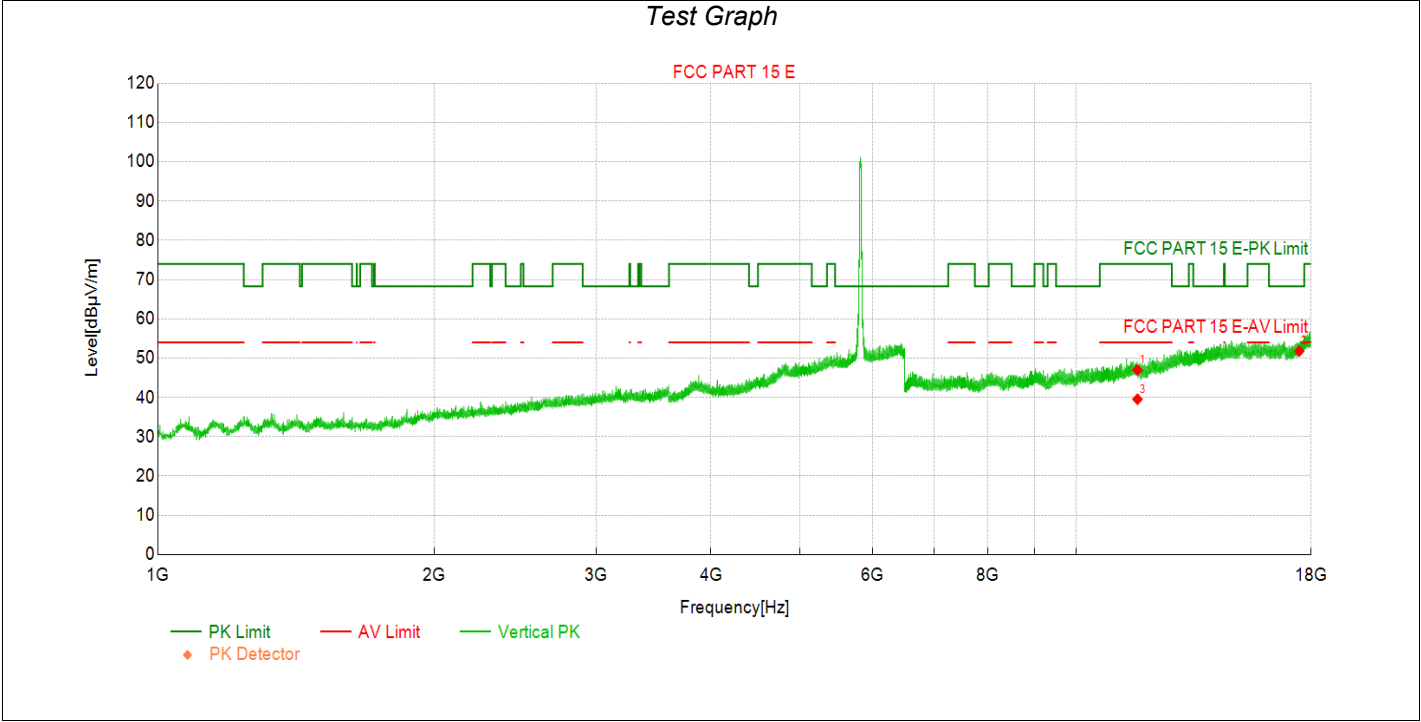
Transmit at 5825MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	41.67	47.82	6.150	74.00	26.18	PK	Horizo	PASS
2	17475.00	37.20	52.05	14.850	68.30	16.25	PK	Horizo	PASS
3	11650.00	33.86	40.01	6.150	54.00	13.99	AV	Horizo	PASS

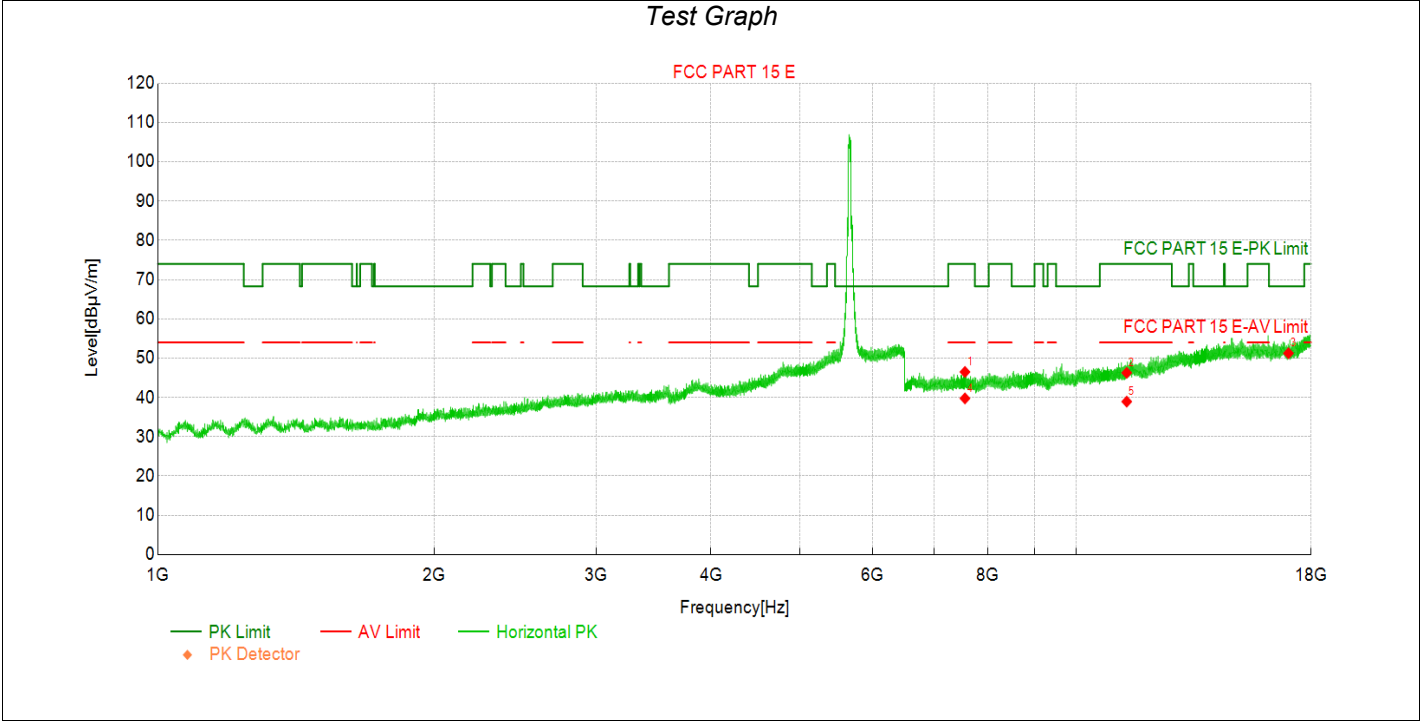


Transmit at 5825MHz by 802.11n(20MHz)



Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	11650.00	40.82	46.97	6.150	74.00	27.03	PK	Vertic	PASS
2	17475.00	36.95	51.80	14.850	68.30	16.50	PK	Vertic	PASS
3	11650.00	33.40	39.55	6.150	54.00	14.45	AV	Vertic	PASS

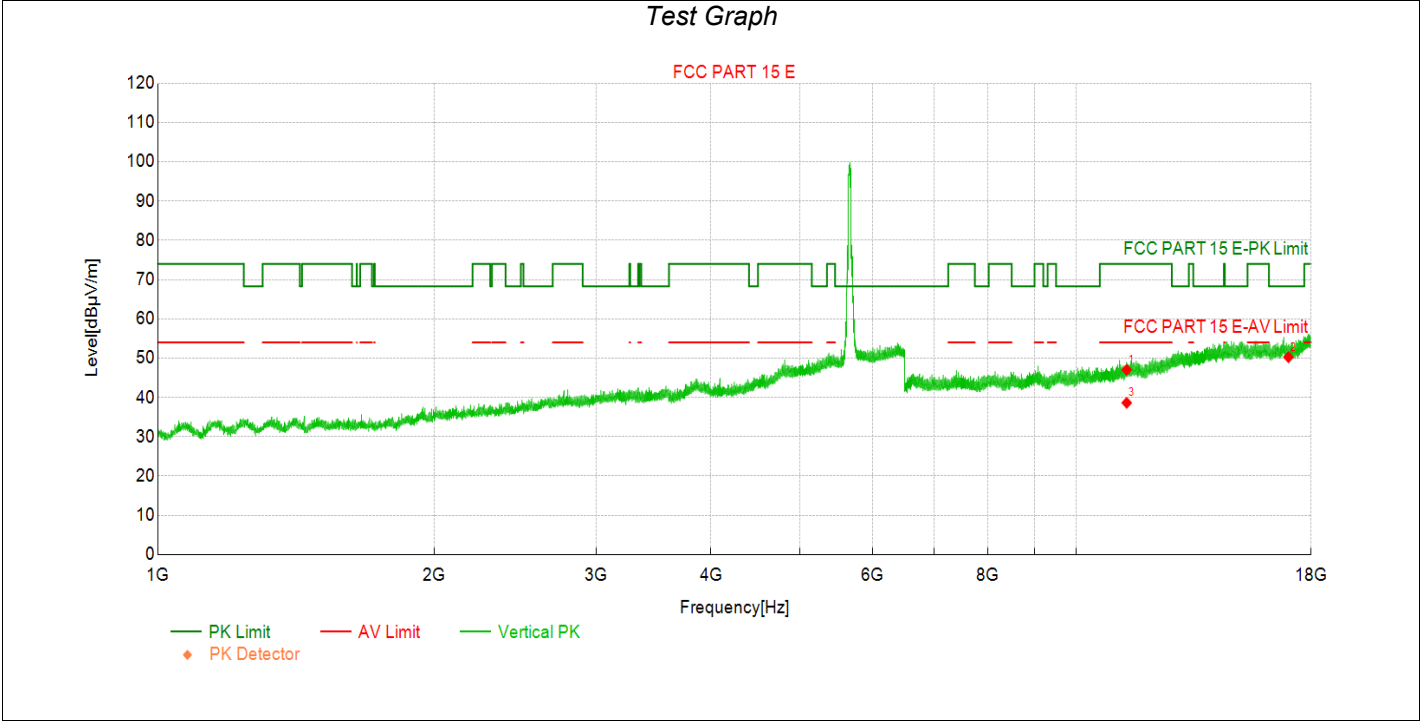
Transmit at 5670MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	7559.92	46.51	46.49	-0.020	74.00	27.51	PK	Horizo	PASS
2	11340.00	40.62	46.26	5.640	74.00	27.74	PK	Horizo	PASS
3	17010.00	38.06	51.24	13.180	68.30	17.06	PK	Horizo	PASS
4	7560.40	39.78	39.76	-0.020	54.00	14.24	AV	Horizo	PASS
5	11340.00	33.30	38.94	5.640	54.00	15.06	AV	Horizo	PASS



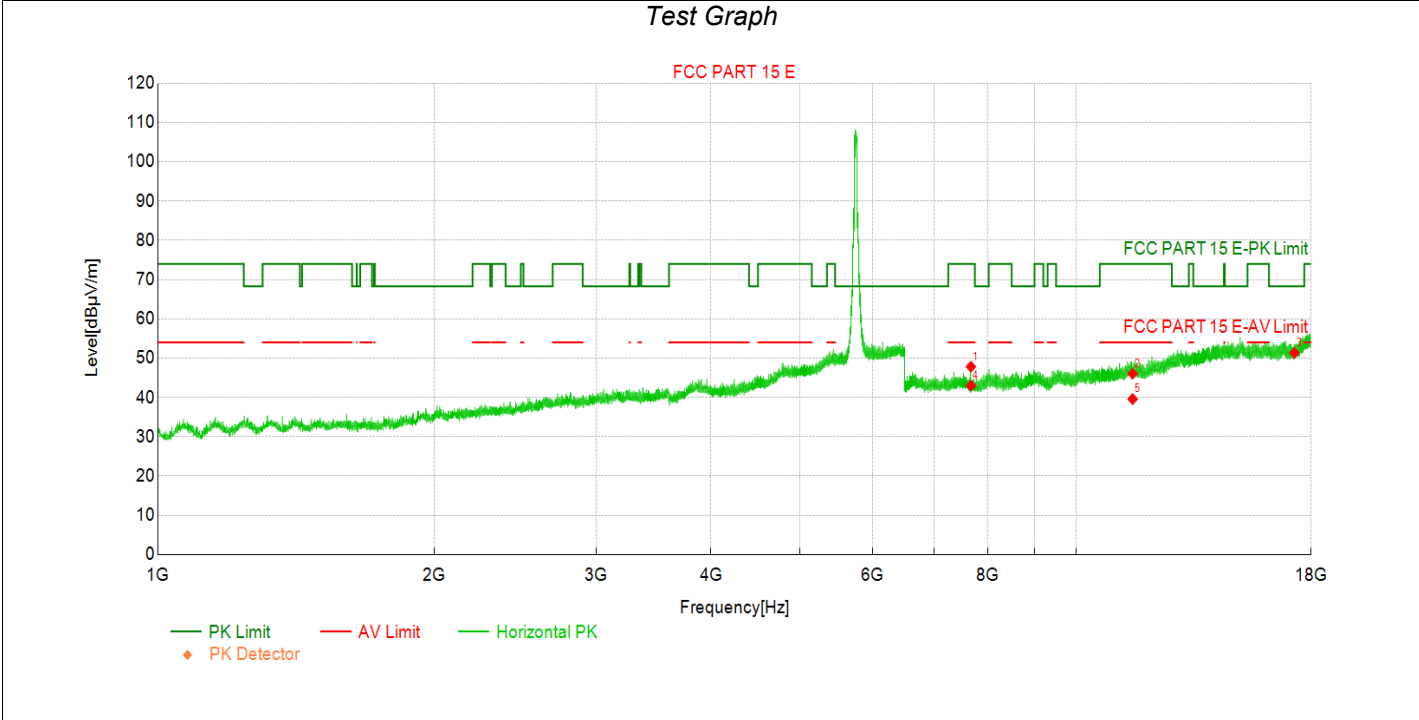
Transmit at 5670MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11340.00	41.38	47.02	5.640	74.00	26.98	PK	Vertic	PASS
2	17010.00	37.07	50.25	13.180	68.30	18.05	PK	Vertic	PASS
3	11340.00	32.99	38.63	5.640	54.00	15.37	AV	Vertic	PASS

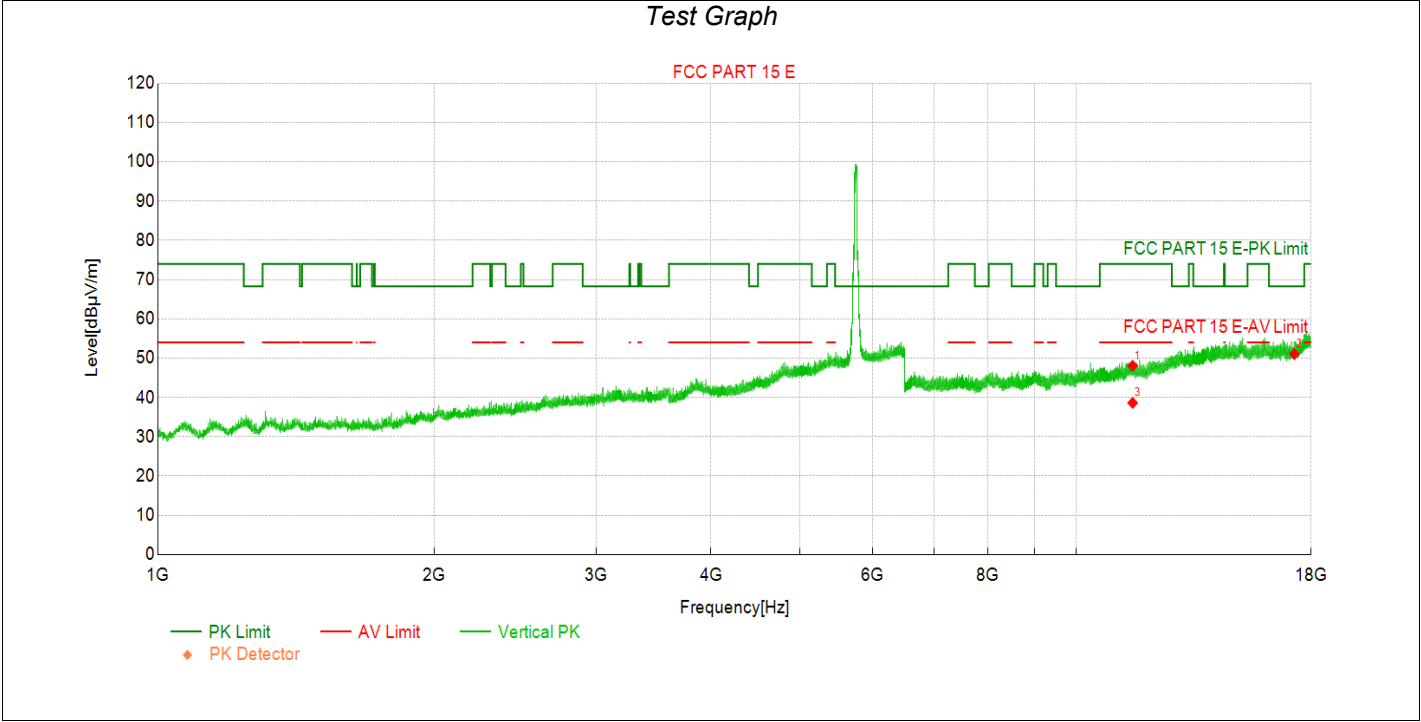


Transmit at 5755MHz by 802.11n(40MHz)



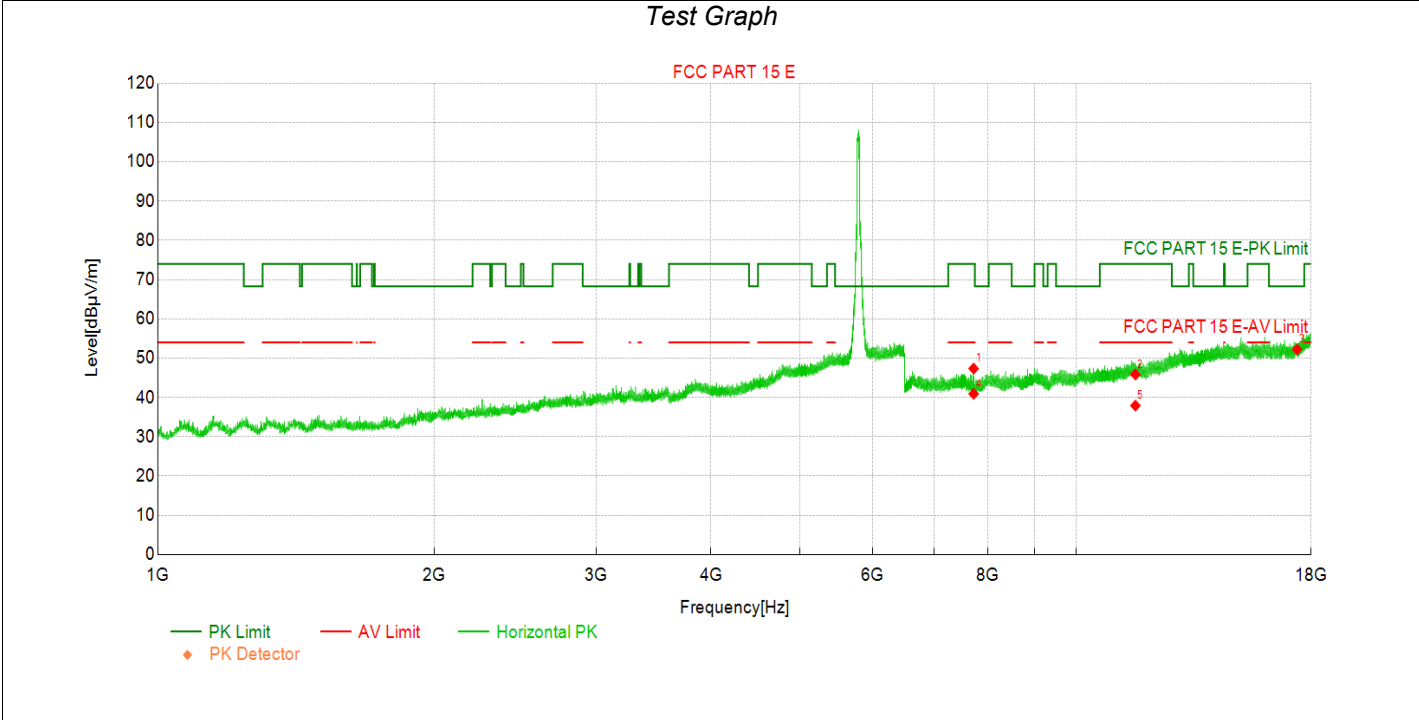
Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7673.00	47.75	47.82	0.070	74.00	26.18	PK	Horizo	PASS
2	11510.00	40.14	46.06	5.920	74.00	27.94	PK	Horizo	PASS
3	17265.00	37.38	51.33	13.950	68.30	16.97	PK	Horizo	PASS
4	7673.96	42.93	43.00	0.070	54.00	11.00	AV	Horizo	PASS
5	11510.00	33.67	39.59	5.920	54.00	14.41	AV	Horizo	PASS

Transmit at 5755MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11510.00	42.15	48.07	5.920	74.00	25.93	PK	Vertic	PASS
2	17265.00	37.08	51.03	13.950	68.30	17.27	PK	Vertic	PASS
3	11510.00	32.70	38.62	5.920	54.00	15.38	AV	Vertic	PASS

Transmit at 5795MHz by 802.11n(40MHz)

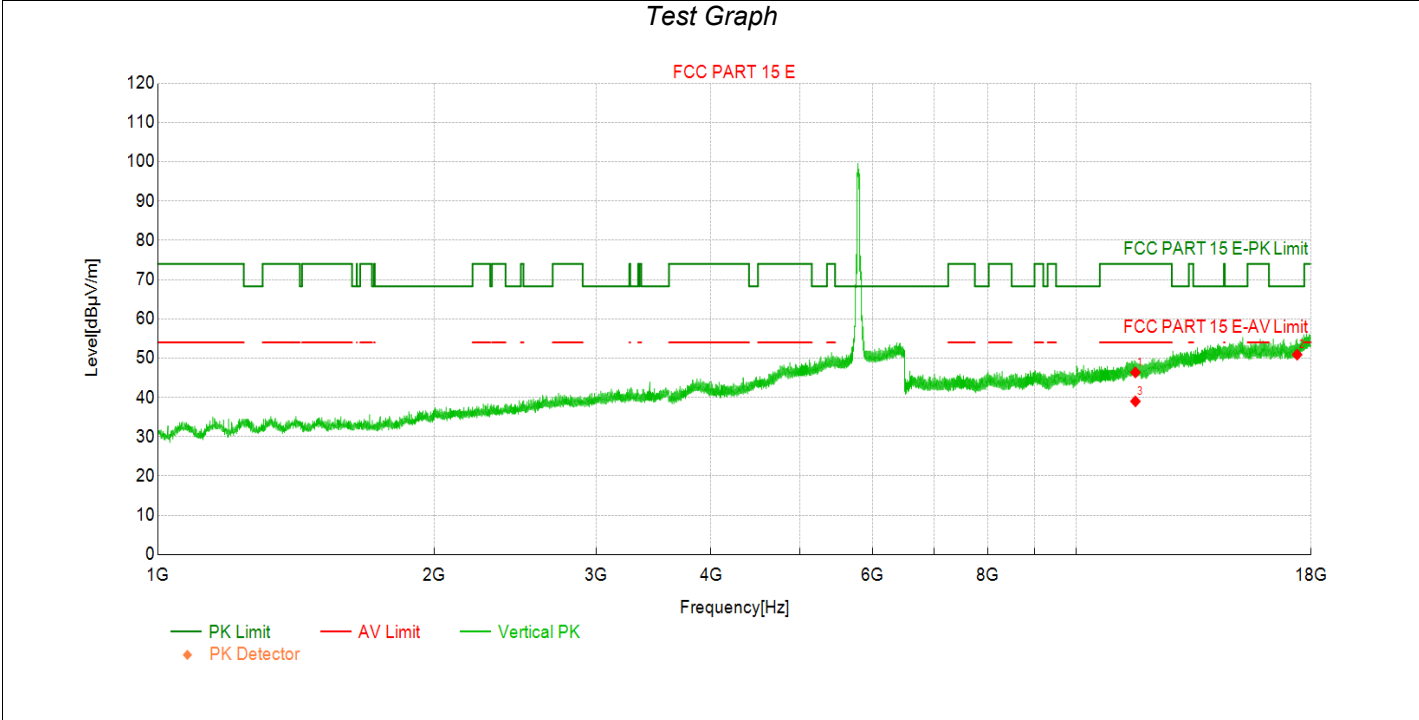


Data List

NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	7726.67	47.33	47.35	0.020	74.00	26.65	PK	Horizo	PASS
2	11590.00	39.78	45.84	6.060	74.00	28.16	PK	Horizo	PASS
3	17385.00	38.05	52.21	14.160	68.30	16.09	PK	Horizo	PASS
4	7727.15	40.90	40.92	0.020	54.00	13.08	AV	Horizo	PASS
5	11590.00	31.86	37.92	6.060	54.00	16.08	AV	Horizo	PASS



Transmit at 5795MHz by 802.11n(40MHz)



Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	11590.00	40.31	46.37	6.060	74.00	27.63	PK	Vertic	PASS
2	17385.00	36.74	50.90	14.160	68.30	17.40	PK	Vertic	PASS
3	11590.00	32.95	39.01	6.060	54.00	14.99	AV	Vertic	PASS

- Note:
- Level = Reading + Factor (Antenna factor + Amplifier factor + Cable loss)
 - The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
 - In the report, for the sections below 1G and 18~40G, verification tests were only performed on the worst channel in the worst mode of the 1~18G range.
 - All test data above 18GHz are noise base, so no data shown in this report.