

Test Report

Applicant : Shenzhen KaiDa technology digital co, LTD
Address : 4/F, building C, Yunli Zhigu, No. 9, Xincun Avenue Xuexiang,
Bantian Street, Longgang District, Shenzhen
Product Name : Tablet PC
Brand Mark : N/A
Model : D136
Series model : F101, F102, F103, F105, F106, F107, F108, F109, F110, F111
FCC ID : 2AX8U-D136
Report Number : BLA-EMC-202601-A1004
Date of Receipt : Jan. 08, 2026
Date of Test : Jan. 08, 2026 to Feb. 10, 2026
Test Standard : 47 CFR Part 15, Subpart E 15.407
Test Result : Pass

Compiled by: Mark Chen

Review by: Xavier

Approved by:

Issued Date: Mar. 25, 2026



BlueAsia Technical Services(Shenzhen) Co.,Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan
Subdistrict, Bao'an District, Shenzhen, Guangdong, China



The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.

Table of Contents

1 General information	5
1.1 General information	5
1.2 General description of EUT	5
2 Test summary	7
3 Test Configuration	9
3.1 Test mode	9
3.2 Operation frequency and test channel	9
3.3 Auxiliary equipment	10
3.4 Test environment	10
4 Laboratory information	11
4.1 Laboratory and accreditations	11
4.2 Measurement uncertainty	11
5 Test equipment	12
6 Test result	15
6.1 Antenna requirement	15
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)	16
6.3 Frequency Stability	20
6.4 Maximum conducted output Power	21
6.5 Peak power spectrum density	22
6.6 Minimum 6dB bandwidth (5.725-5.85 GHz band)	23
6.7 26dB Emission bandwidth	24
6.8 99% Bandwidth	25
6.9 Duty Cycle	26
6.10 Radiated emissions	27
6.11 Radiated emissions which fall in the restricted bands	56
6.12 DFS: Channel Closing Transmission Time	105
6.13 DFS: Non-occupancy period	107
7 Appendix A	109
7.1 Frequency Stability	109
7.2 Maximum Conducted Output Power	130

7.3 Maximum Power Spectral Density Level	132
7.4 -26dB Bandwidth	164
7.5 99% Occupied Channel Bandwidth	189
7.6 -6dB Bandwidth	221
Appendix B: photographs of test setup	229
Appendix C: photographs of EUT	231

BlueAsia

Revise Record

Version No.	Date	Description
01	Mar. 25, 2026	Original

1 General information

1.1 General information

Applicant	Shenzhen KaiDa technology digital co, LTD
Address	4/F, building C, Yunli Zhigu, No. 9, Xincun Avenue Xuexiang, Bantian Street, Longgang District, Shenzhen
Manufacturer	Shenzhen KaiDa technology digital co, LTD
Address	4/F, building C, Yunli Zhigu, No. 9, Xincun Avenue Xuexiang, Bantian Street, Longgang District, Shenzhen
Factory	Shenzhen KaiDa technology digital co, LTD
Address	4/F, building C, Yunli Zhigu, No. 9, Xincun Avenue Xuexiang, Bantian Street, Longgang District, Shenzhen

1.2 General description of EUT

Product Name	Tablet PC
Model No.	D136
Serial Model	F101, F102, F103, F105, F106, F107, F108, F109, F110, F111
Differences of Series model	they have the same circuit the only difference is appearance and size.
Operation Frequency	U-NII-1: 5150MHz-5250MHz U-NII-2A: 5250MHz-5350MHz U-NII-2C: 5470MHz-5725MHz U-NII-3: 5745MHz-5850MHz
Channel numbers	U-NII-1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1 U-NII-2A: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1 V-NII-2C: 802.11a/802.11n(HT20)/802.11ac(HT20): 8, 802.11n(HT40)/802.11ac(HT40): 3, 802.11ac(HT80): 1 U-NII-3: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1

Modulation Type	IEEE 802.11a:OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40):OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11ac :OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)	
Transmit Data Rate	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: up to 216.7 Mbps, HT40: up to 450 Mbps IEEE 802.11ac VHT20: up to 346.7 Mbps, VHT40: up to 800 Mbps, VHT80: up to 1733.3 Mbps	
Device type	Slaver device	
Antenna Type	FPC antenna	
Antenna Gain	0.6dBi	
Power supply	Adapter	MODEL: K-T100502000U INPUT: 100-240VAC, 50-60Hz 0.35A Max OUTPUT: 5.0V, 2000mA
	Battery DC 3.8V	
Test Voltage	DC 3.8V	
Hardware Version	N/A	
Software Version	N/A	
Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.		

2 Test summary

No.	Test item	FCC standard	Test Method (Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2020+Cor.1-2023 Clause 6.2	Pass
3	Frequency Stability	§15.407 (g)	ANSI C63.10-2020+Cor.1-2023 Clause 6.8	Pass
4	Maximum Conducted output power	§15.407 (a)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.4.2.2	Pass
5	Transmitter Power Control	§15.407 (h)(1)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.2	N/A
6	Peak Power spectrum density	§15.407 (a)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.6	Pass
7	Minimum 6 dB bandwidth (5.725-5.85 GHz band)	§15.407 (e)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.5.1	Pass
8	26dB Emission bandwidth	§15.407 (a)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.5.2	Pass
9	99% Bandwidth	N/A	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 6.9.3	Pass
10	Duty Cycle	KDB 789033 D02 II B 1	KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Pass

			ANSI C63.10-2020+Cor.1-2023 Clause 12.2	
11	Radiated Emissions which fall in the restricted bands	§15.209 §15.407(b)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.7.2	Pass
12	Radiated Emissions	§15.209 §15.407(b)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause 12.7.4	Pass
13	DFS: Channel Closing Transmission Time	§15.407((h)(2)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause Annex K	Pass
14	DFS: Non-occupancy period	§15.407((h)(2)	KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2020+Cor.1-2023 Clause Annex K	Pass

3 Test Configuration

3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%)

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software			
Test Software Name	Default	Software Set	TX level : Default

3.2 Operation frequency and test channel

802.11a/n/ac/ax

Bandwidth Band	20(MHz)		40(MHz)		80(MHz)	
	Channel number	frequency (MHz)	Channel number	frequency (MHz)	Channel number	frequency(M Hz)
U-NII-1	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII-2A	52	5260	54	5270	58	5290
	56	5280				
	60	5300	62	5310		
	64	5320				
U-NII-2C	100	5500	102	5510	106	5530
	104	5520				
	108	5540	118	5590		
	116	5580				
	120	5600				
	132	5660	134	5670	--	--

	136	5680			--	--
	140	5700	--	--	--	--
U-NII-3	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825	--	--	--	--

3.3 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
/	/	/	/	/
Note: “--” mean no any auxiliary device during testing.				

3.4 Test environment

Environment	Temperature	
	NT(Normal Temperature)	25 °C
	LT(Low Temperature)	0 °C
	HT(High Temperature)	55 °C
	Working Voltage of the EUT	
	NV(Normal Voltage)	DC 3.80V
	LV(Low Voltage)	DC 3.42V
	HV(High Voltage)	DC 4.18V

4 Laboratory information

4.1 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict,Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
Test Firm Registration No.:	923526
ISED CAB identifier No.:	CN0028
Registration No.:	24243
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{dB}$
Power Spectral Density, conducted	$\pm 3.0\text{dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2025/11/12	2026/11/11
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2025/08/05	2026/08/04
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2025/08/05	2026/08/04
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2025/06/09	2026/06/08
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2025/06/09	2026/06/08
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK2021060801	2025/06/09	2026/06/08
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK2022071301	2025/06/09	2026/06/08
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Conducted Emissions

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2025/11/12	2026/11/11
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-011	LISN	ENV216	R&S	101372	2025/08/05	2026/08/04
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2025/06/09	2026/06/08
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK180600003	2025/08/05	2026/08/04
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2025/08/05	2026/08/04
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01045	2025/06/09	2026/06/08
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01075	2025/06/09	2026/06/08
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2025/11/12	2026/11/11
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2025/06/09	2026/06/08
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2025/08/05	2026/08/04
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2025/08/05	2026/08/04
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2025/08/05	2026/08/04
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2025/06/09	2026/06/08
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2025/08/05	2026/08/04
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2025/06/09	2026/06/08

Test software

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE(Below 1GHz)
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE(Above 1GHz)
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

6 Test result

6.1 Antenna requirement

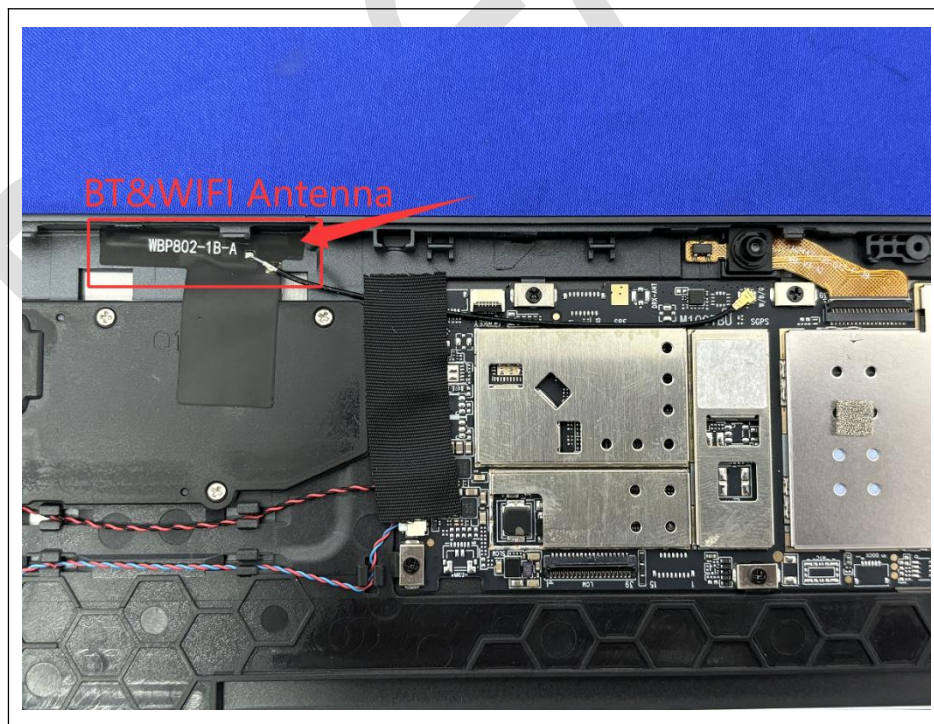
Test Standard	47 CFR Part 15, Subpart C 15.203
Test Method	N/A

6.1.1 Requirement

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

EUT antenna:

The antenna is FPC antenna. The best case gain of the antenna is 0.6dBi.



6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

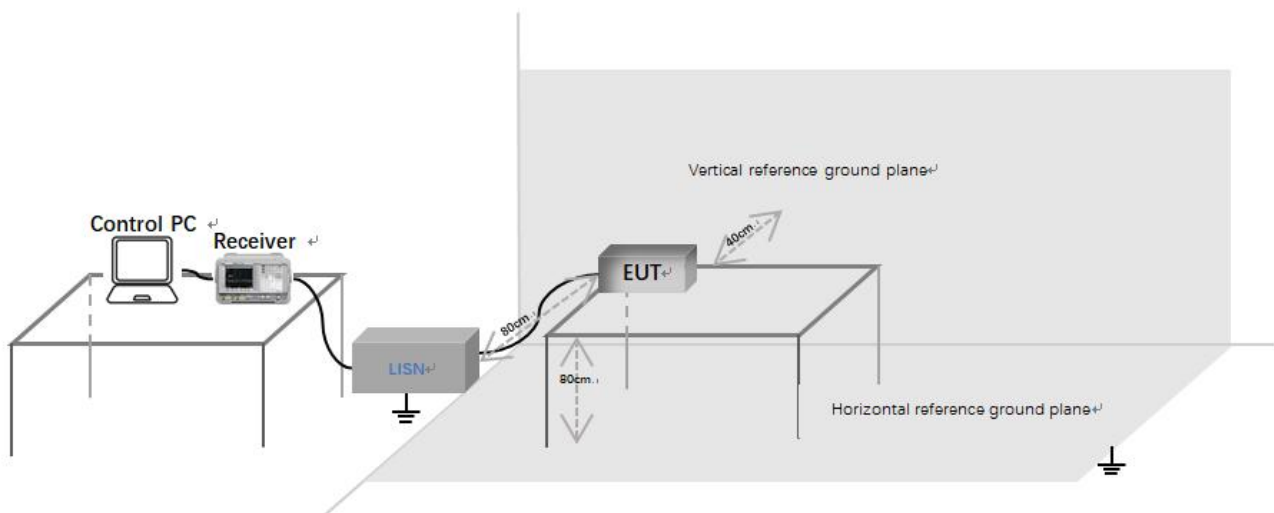
Test Standard	47 CFR Part 15, Subpart C 15.207
Test Method	ANSI C63.10-2020+Cor.1-2023 Cluase6.2
Test Mode (Pre-Scan)	Charging+TX
Test Mode (Final Test)	Charging+TX

6.2.1 Limit

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

*Decreases with the logarithm of the frequency.

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

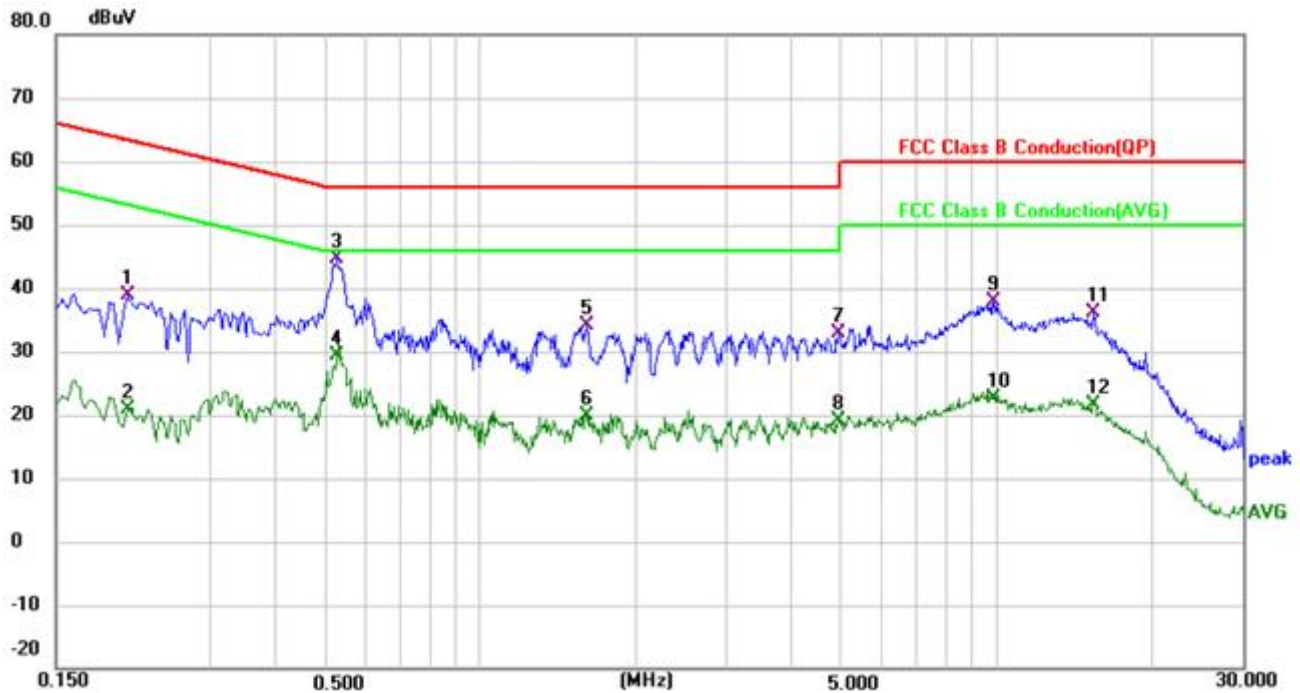
6.2.3 Procedure

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

LISN=Read Level+ Cable Loss+ LISN Factor

6.2.4 Test data

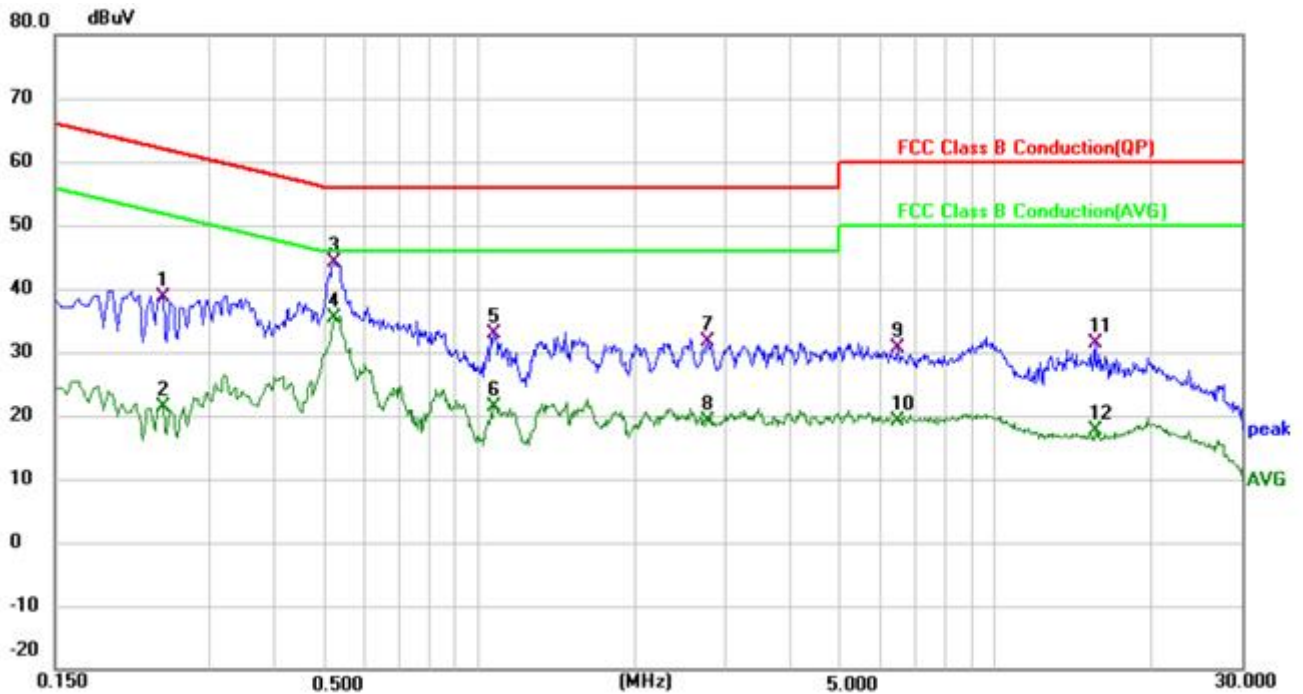
[Test Mode: 802.11a Charging+TX-5180MHz]; [Line: Line];[Voltage:AC 120V/60Hz]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2060	28.81	10.06	38.87	63.37	-24.50	QP
2		0.2060	10.77	10.06	20.83	53.37	-32.54	AVG
3	*	0.5260	34.88	9.71	44.59	56.00	-11.41	QP
4		0.5260	19.67	9.71	29.38	46.00	-16.62	AVG
5		1.6100	24.27	9.82	34.09	56.00	-21.91	QP
6		1.6100	10.16	9.82	19.98	46.00	-26.02	AVG
7		4.9500	22.83	10.10	32.93	56.00	-23.07	QP
8		4.9500	8.95	10.10	19.05	46.00	-26.95	AVG
9		9.8940	36.94	0.86	37.80	60.00	-22.20	QP
10		9.8940	21.89	0.86	22.75	50.00	-27.25	AVG
11		15.4620	24.49	11.71	36.20	60.00	-23.80	QP
12		15.4620	10.04	11.71	21.75	50.00	-28.25	AVG

Test Result: Pass

[Test Mode: 802.11a Charging+TX-5180MHz]; [Line: Neutral] ;[Voltage:AC 120V/60Hz]



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.2420	28.51	10.13	38.64	62.03	-23.39	QP
2	0.2420	11.23	10.13	21.36	52.03	-30.67	AVG
3	0.5220	34.36	9.71	44.07	56.00	-11.93	QP
4 *	0.5220	25.71	9.71	35.42	46.00	-10.58	AVG
5	1.0660	23.18	9.80	32.98	56.00	-23.02	QP
6	1.0660	11.64	9.80	21.44	46.00	-24.56	AVG
7	2.7780	21.65	9.89	31.54	56.00	-24.46	QP
8	2.7780	9.25	9.89	19.14	46.00	-26.86	AVG
9	6.4660	20.36	10.28	30.64	60.00	-29.36	QP
10	6.4660	8.87	10.28	19.15	50.00	-30.85	AVG
11	15.6020	19.58	11.71	31.29	60.00	-28.71	QP
12	15.6020	5.81	11.71	17.52	50.00	-32.48	AVG

Test Result: Pass

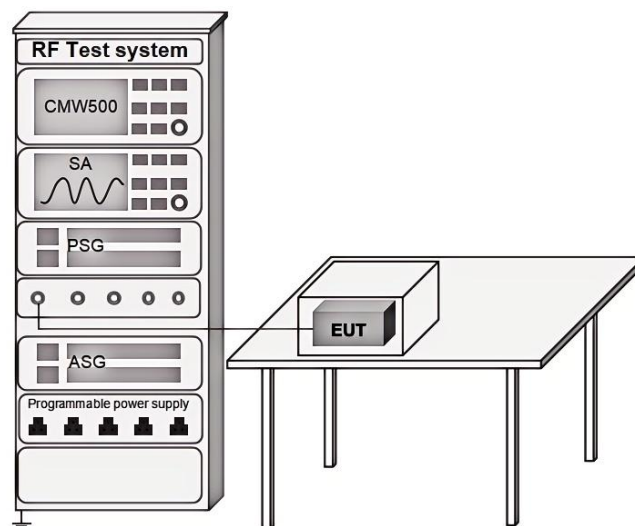
6.3 Frequency Stability

Test Standard	47 CFR Part 15, Subpart E 15.407(g)
Test Method	ANSI C63.10-2020+Cor.1-2023 Cluase6.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

6.4 Maximum conducted output Power

Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II E
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

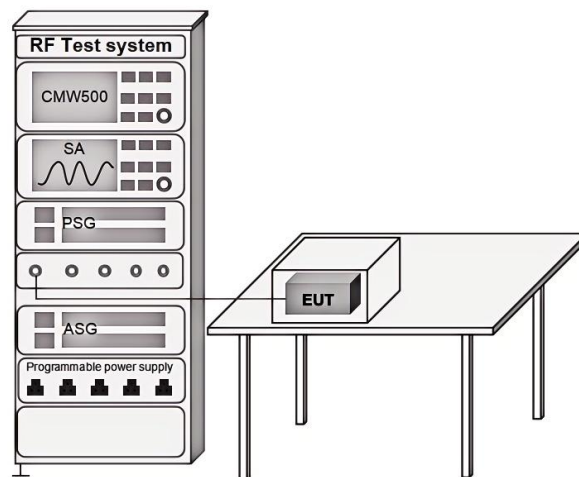
6.4.1 Limit

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)

Remark:* Where B is the 26dB emission bandwidth in MHz.

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

BlueAsia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Report version : V1.3

6.5 Peak power spectrum density

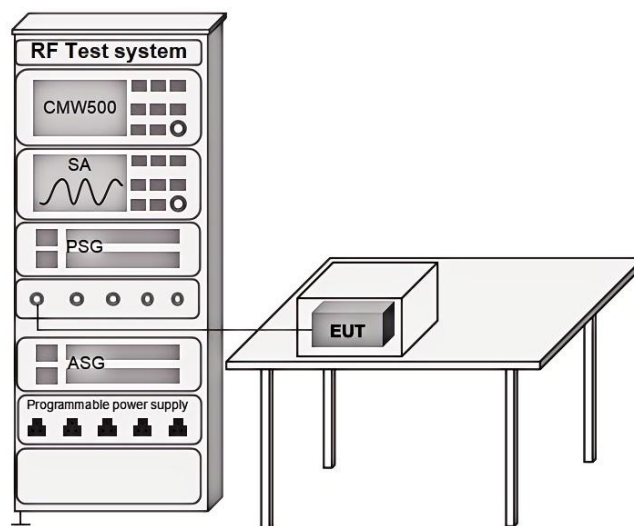
Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II F
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz

Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

BlueAsia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Report version: V1.3

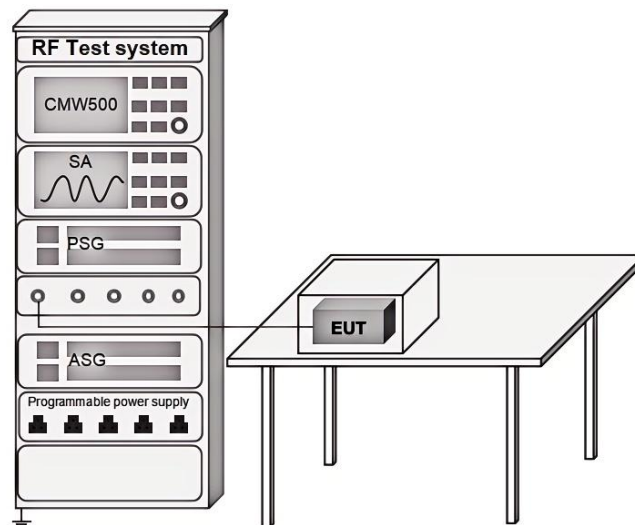
6.6 Minimum 6dB bandwidth (5.725-5.85 GHz band)

Test Standard	47 CFR Part 15, Subpart E 15.407 (e)
Test Method	KDB 789033 D02 II C 2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

≥500 kHz

6.6.2 Test setup



6.6.3 Test data

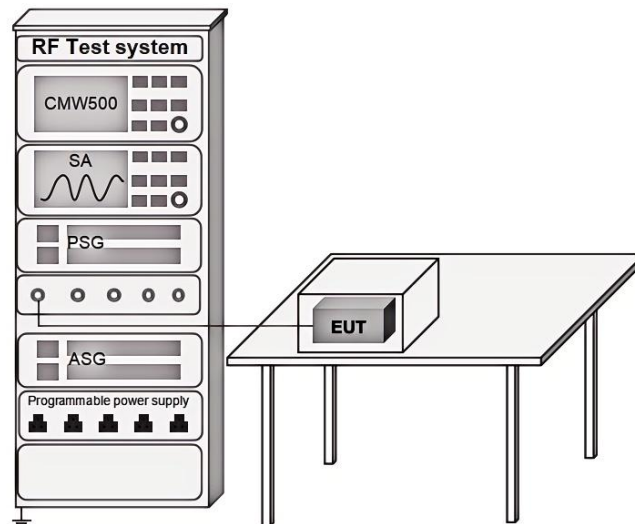
N/A: Not Applicable

6.7 26dB Emission bandwidth

Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II C 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

6.7.2 Test setup



6.7.3 Test data

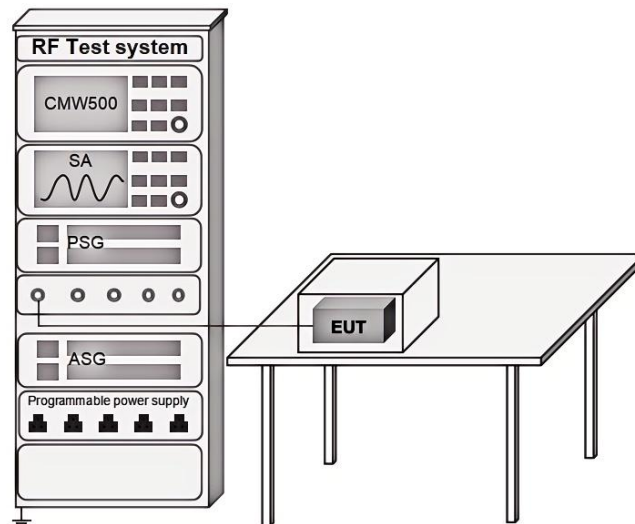
Pass: Please refer to appendix A for details

6.8 99% Bandwidth

Test Standard	N/A
Test Method	KDB 789033 II D
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

6.8.2 Test setup



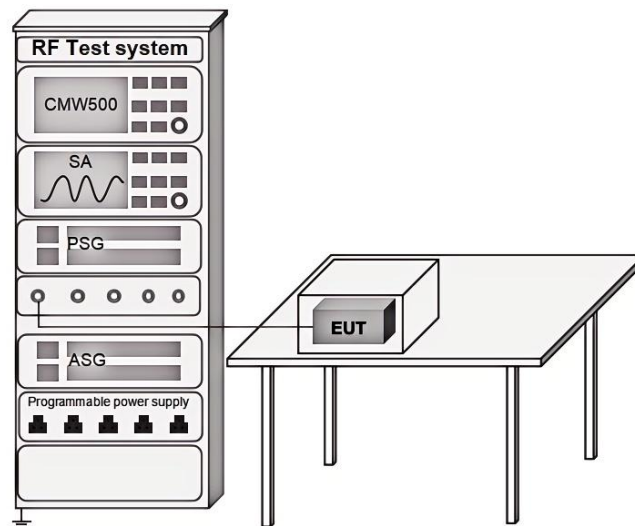
6.8.3 Test data

Pass: Please refer to appendix A for details

6.9 Duty Cycle

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 II B 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Test setup



6.9.2 Test data

Pass: Please refer to appendix A for details

6.10 Radiated emissions

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

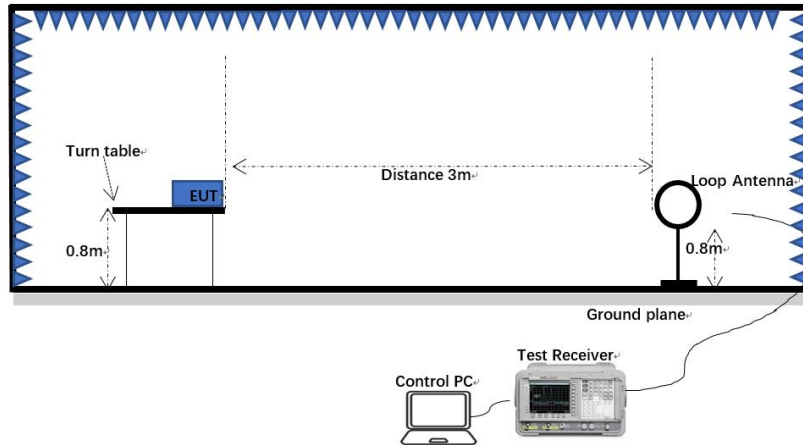
6.10.1 Limit

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

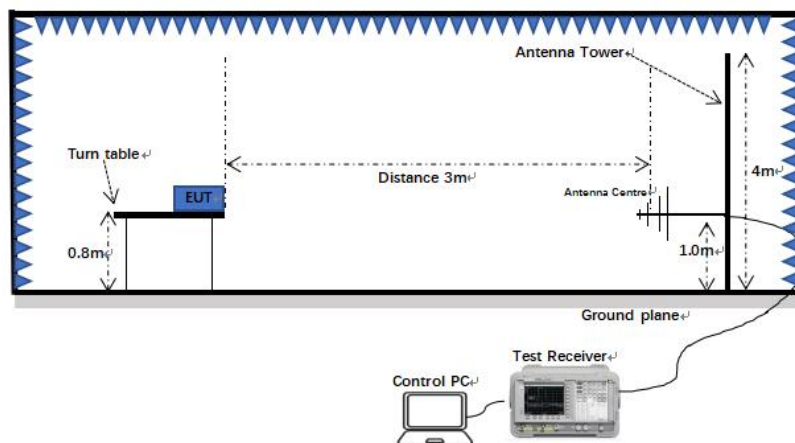
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

6.10.2 Test setup

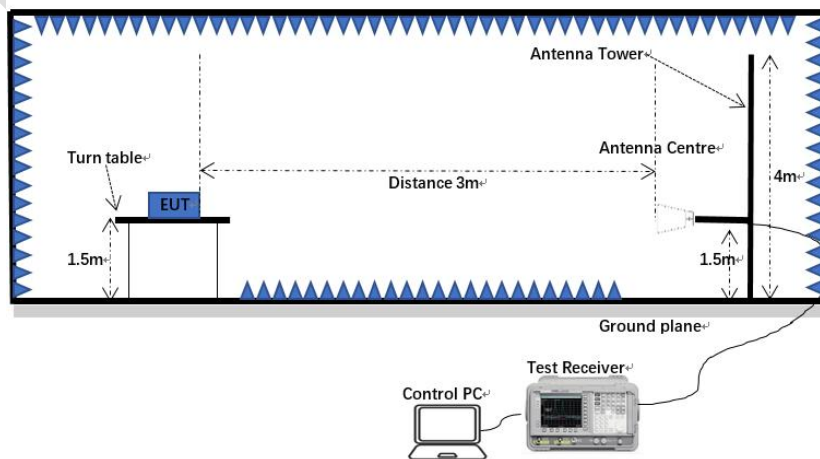
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.10.3 Procedure

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

Note 1: Scan from 9 kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.10.4 Test data

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found the 802.11a mode which it is worse case, only the worse case lowest channel of 6Mbps for 802.11a was recorded in the report.

Below 1GHz

[Test mode: Charging+TX]; [Polarity: Horizontal]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.9658	31.93	-18.71	13.22	40.00	-26.78	QP
2	66.4989	34.65	-20.76	13.89	40.00	-26.11	QP
3	167.2368	36.88	-19.03	17.85	43.50	-25.65	QP
4	271.3246	42.46	-20.07	22.39	46.00	-23.61	QP
5 *	336.0352	42.29	-17.51	24.78	46.00	-21.22	QP
6	948.7610	29.22	-5.74	23.48	46.00	-22.52	QP

Test Result: Pass

[Test mode: Charging+TX]; [Polarity: Vertical]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.8119	43.04	-18.71	24.33	40.00	-15.67	QP
2	81.4970	40.94	-23.14	17.80	40.00	-22.20	QP
3	167.2368	46.78	-19.03	27.75	43.50	-15.75	QP
4	262.8955	47.40	-20.23	27.17	46.00	-18.83	QP
5	535.7073	34.88	-13.11	21.77	46.00	-24.23	QP
6 *	948.7610	36.86	-5.74	31.12	46.00	-14.88	QP

Test Result: Pass

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found the 802.11a mode which it is worse case, only the worse case 6Mbps for 802.11a was recorded in the report.

Above 1GHz:

[Test mode: TX low channel 5180MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7086.000	36.77	10.33	47.10	68.20	-21.10	peak
2		9755.000	37.27	13.80	51.07	68.20	-17.13	peak
3		11846.00	36.65	13.52	50.17	68.20	-18.03	peak
4	*	13937.00	41.17	9.99	51.16	68.20	-17.04	peak
5		15008.00	40.74	9.35	50.09	68.20	-18.11	peak
6		16572.00	38.90	10.81	49.71	68.20	-18.49	peak

Test Result: Pass

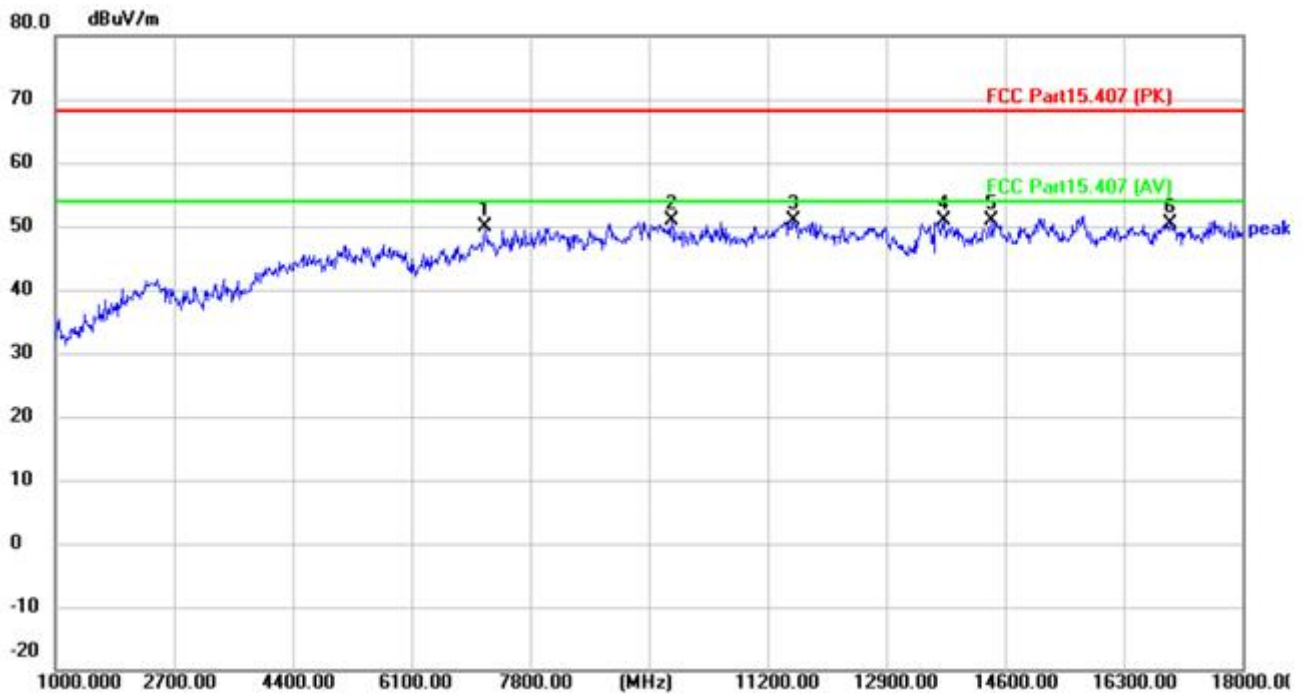
[Test mode: TX low channel 5180MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7035.000	39.11	10.01	49.12	68.20	-19.08	peak
2		9347.000	38.20	13.38	51.58	68.20	-16.62	peak
3		10469.00	36.55	13.67	50.22	68.20	-17.98	peak
4		11523.00	37.13	14.84	51.97	68.20	-16.23	peak
5	*	14464.00	41.63	10.54	52.17	68.20	-16.03	peak
6		16606.00	40.37	10.82	51.19	68.20	-17.01	peak

Test Result: Pass

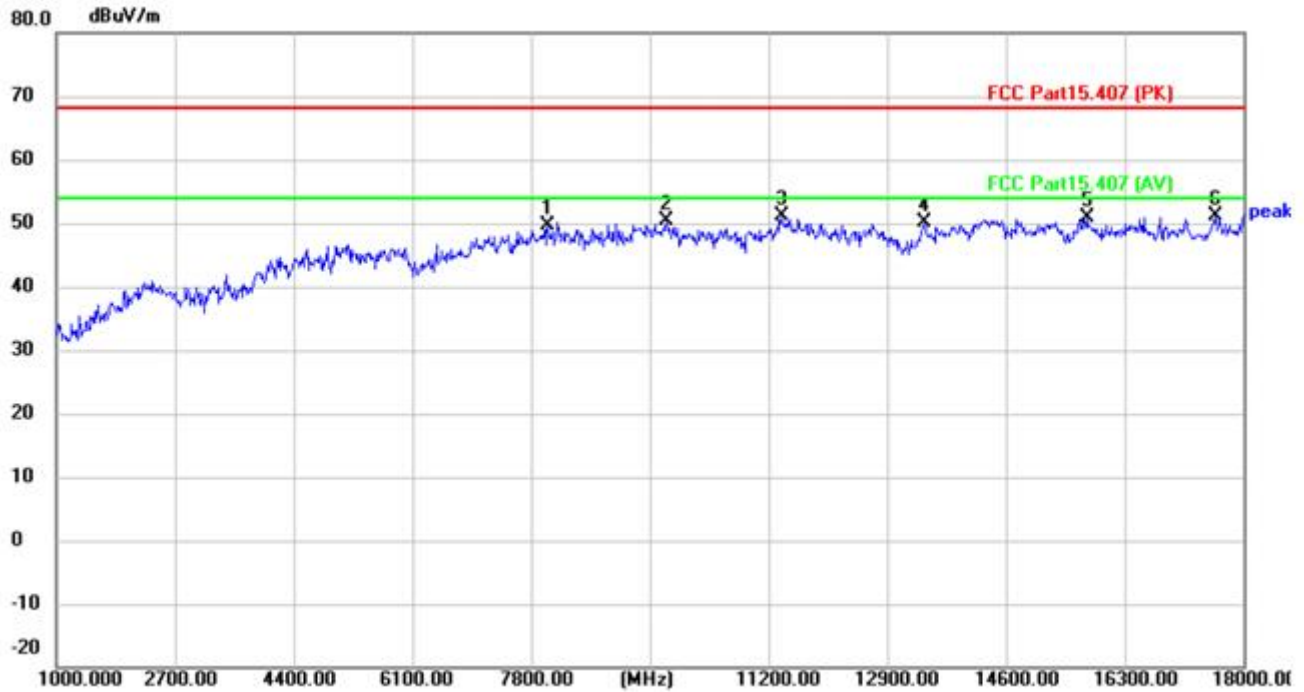
[Test mode: TX middle channel 5200MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7154.000	39.19	10.65	49.84	68.20	-18.36	peak
2	*	9823.000	37.36	13.53	50.89	68.20	-17.31	peak
3		11574.00	36.02	14.79	50.81	68.20	-17.39	peak
4		13733.00	39.69	11.14	50.83	68.20	-17.37	peak
5		14413.00	40.16	10.68	50.84	68.20	-17.36	peak
6		16963.00	40.73	9.56	50.29	68.20	-17.91	peak

Test Result: Pass

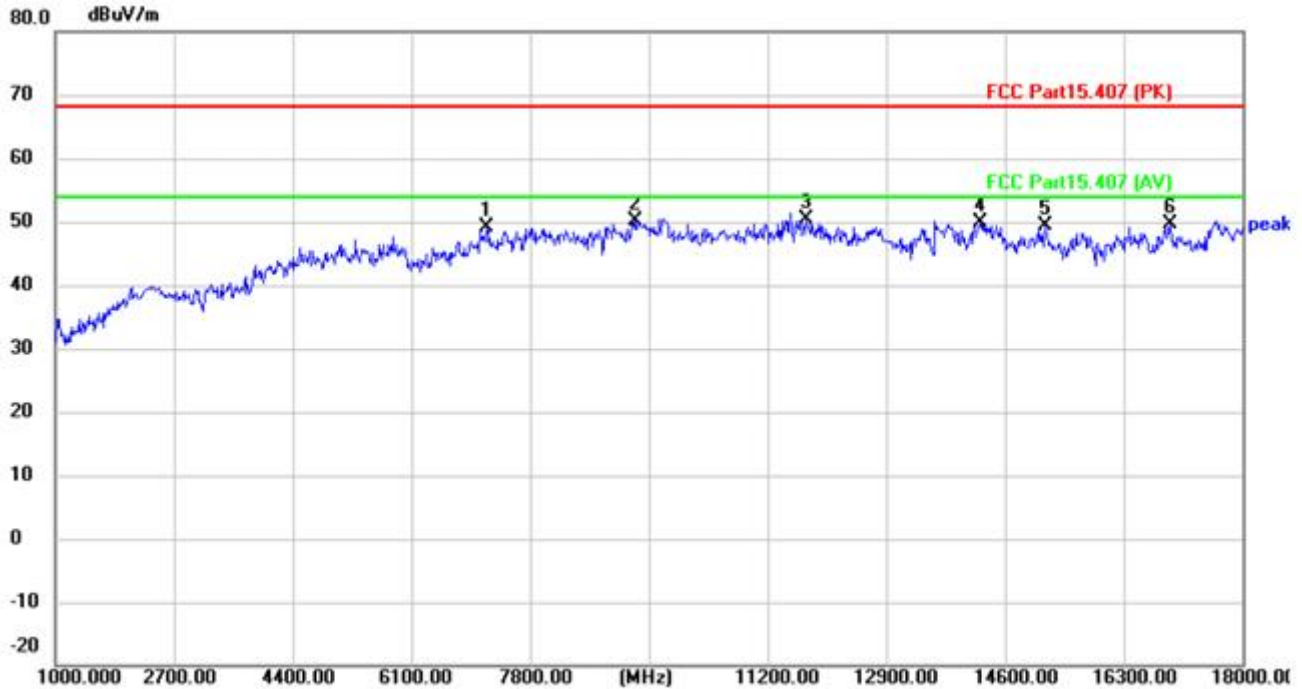
[Test mode: TX middle channel 5200MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8038.000	38.03	11.68	49.71	68.20	-18.49	peak
2		9738.000	36.55	13.75	50.30	68.20	-17.90	peak
3	*	11387.00	36.97	14.13	51.10	68.20	-17.10	peak
4		13427.00	33.39	16.64	50.03	68.20	-18.17	peak
5		15756.00	41.72	9.06	50.78	68.20	-17.42	peak
6		17592.00	40.67	10.36	51.03	68.20	-17.17	peak

Test Result: Pass

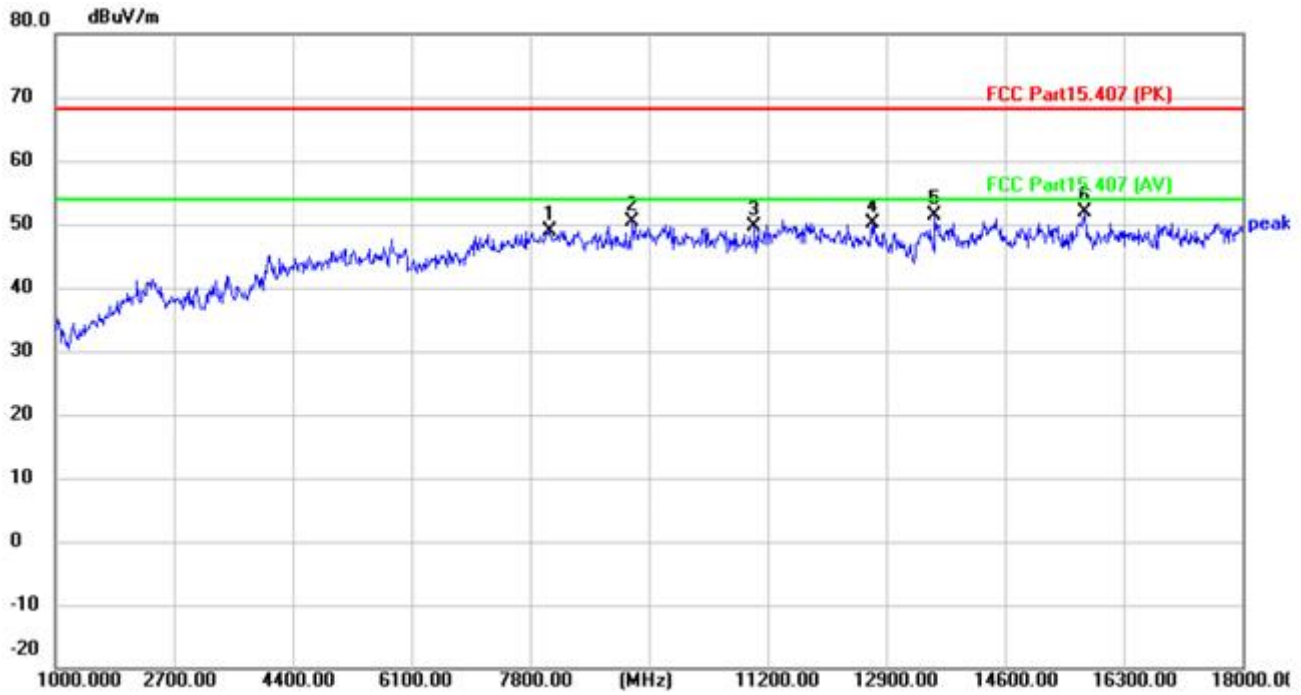
[Test mode: TX High channel 5240MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7171.000	38.70	10.55	49.25	68.20	-18.95	peak
2		9313.000	36.94	13.18	50.12	68.20	-18.08	peak
3	*	11744.00	37.01	13.47	50.48	68.20	-17.72	peak
4		14243.00	39.21	10.77	49.98	68.20	-18.22	peak
5		15178.00	40.14	9.34	49.48	68.20	-18.72	peak
6		16963.00	40.05	9.56	49.61	68.20	-18.59	peak

Test Result: Pass

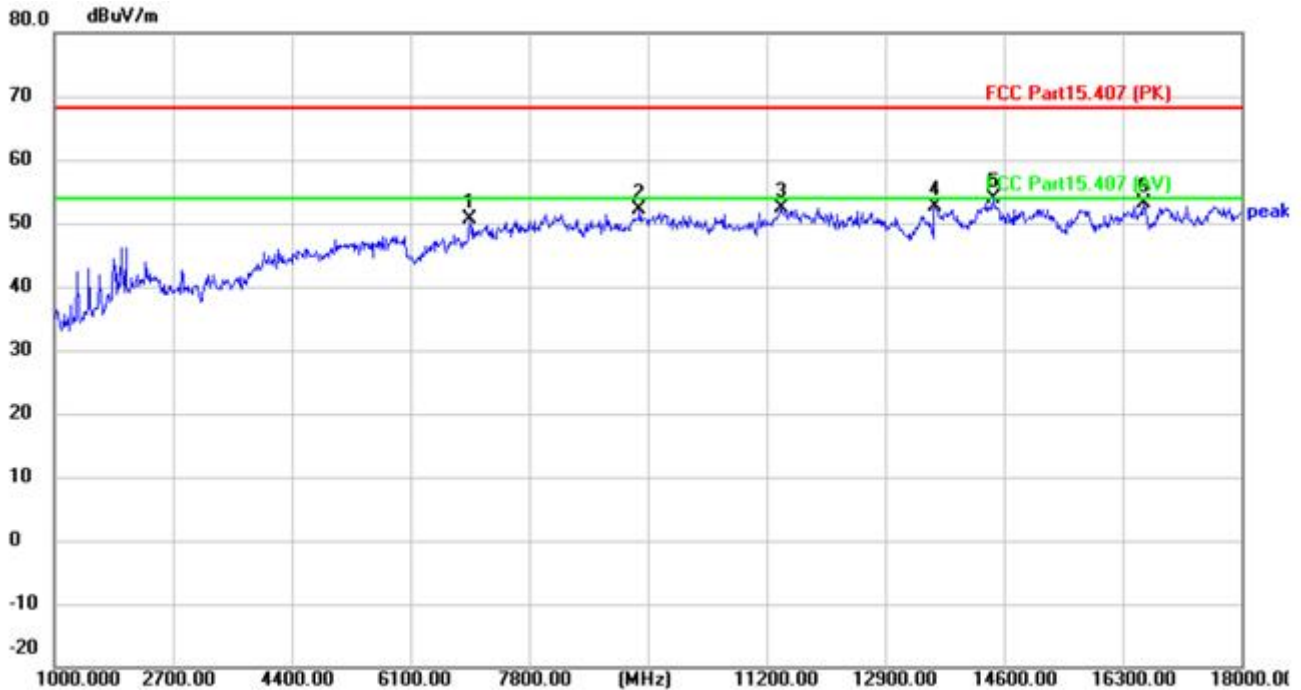
[Test mode: TX High channel 5240MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8072.000	37.10	11.74	48.84	68.20	-19.36	peak
2		9262.000	37.40	13.02	50.42	68.20	-17.78	peak
3		11013.00	36.62	13.01	49.63	68.20	-18.57	peak
4		12696.00	36.14	13.91	50.05	68.20	-18.15	peak
5		13597.00	38.38	12.90	51.28	68.20	-16.92	peak
6	*	15739.00	42.65	9.19	51.84	68.20	-16.36	peak

Test Result: Pass

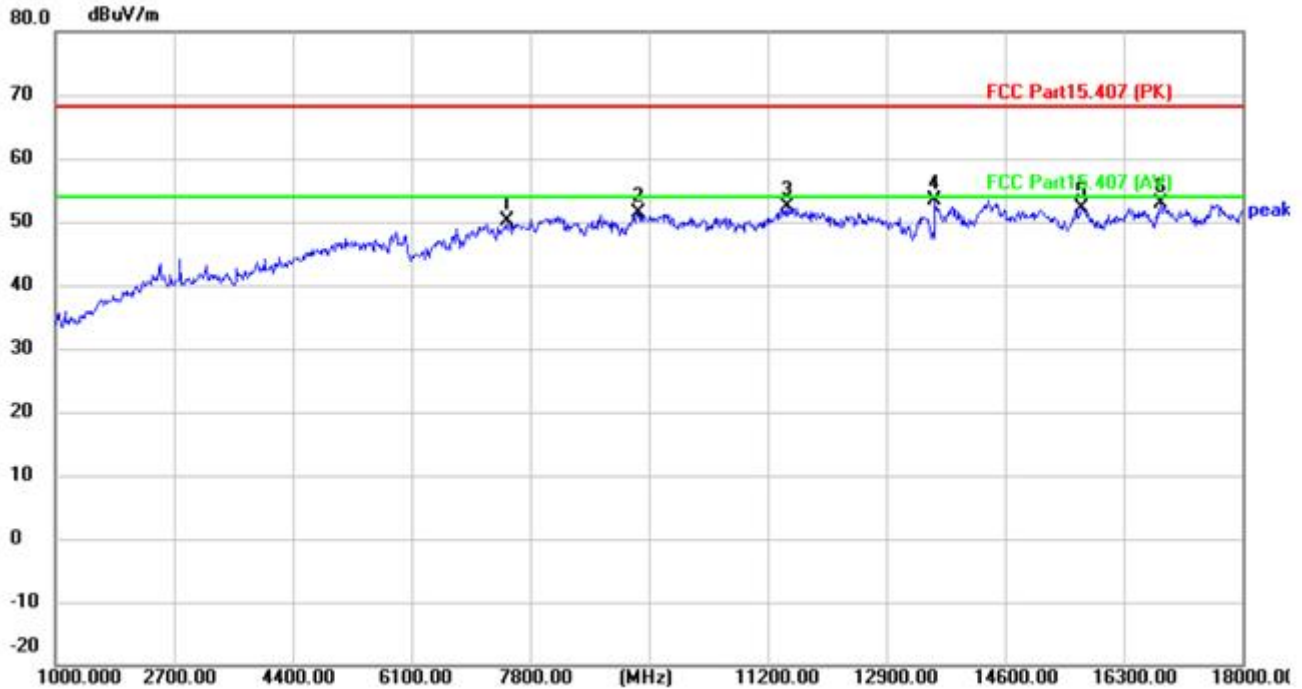
[Test mode: TX low channel 5260MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6950.000	40.75	9.80	50.55	68.20	-17.65	peak
2		9381.000	39.18	12.97	52.15	68.20	-16.05	peak
3		11404.00	38.15	14.29	52.44	68.20	-15.76	peak
4		13614.00	40.05	12.66	52.71	68.20	-15.49	peak
5	*	14447.00	43.34	10.59	53.93	68.20	-14.27	peak
6		16606.00	42.42	10.82	53.24	68.20	-14.96	peak

Test Result: Pass

[Test mode: TX low channel 5260MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7460.000	38.99	11.10	50.09	68.20	-18.11	peak
2		9347.000	38.04	13.38	51.42	68.20	-16.78	peak
3		11472.00	37.74	14.70	52.44	68.20	-15.76	peak
4	*	13597.00	40.52	12.90	53.42	68.20	-14.78	peak
5		15688.00	42.79	9.44	52.23	68.20	-15.97	peak
6		16827.00	42.47	10.30	52.77	68.20	-15.43	peak

Test Result: Pass

[Test mode: TX middle channel 5280MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6015.000	41.91	5.93	47.84	68.20	-20.36	peak
2		8157.000	39.78	11.49	51.27	68.20	-16.93	peak
3		9449.000	38.79	13.10	51.89	68.20	-16.31	peak
4		11506.00	37.93	14.87	52.80	68.20	-15.40	peak
5		14311.00	42.17	11.04	53.21	68.20	-14.99	peak
6	*	17609.00	43.03	10.38	53.41	68.20	-14.79	peak

Test Result: Pass

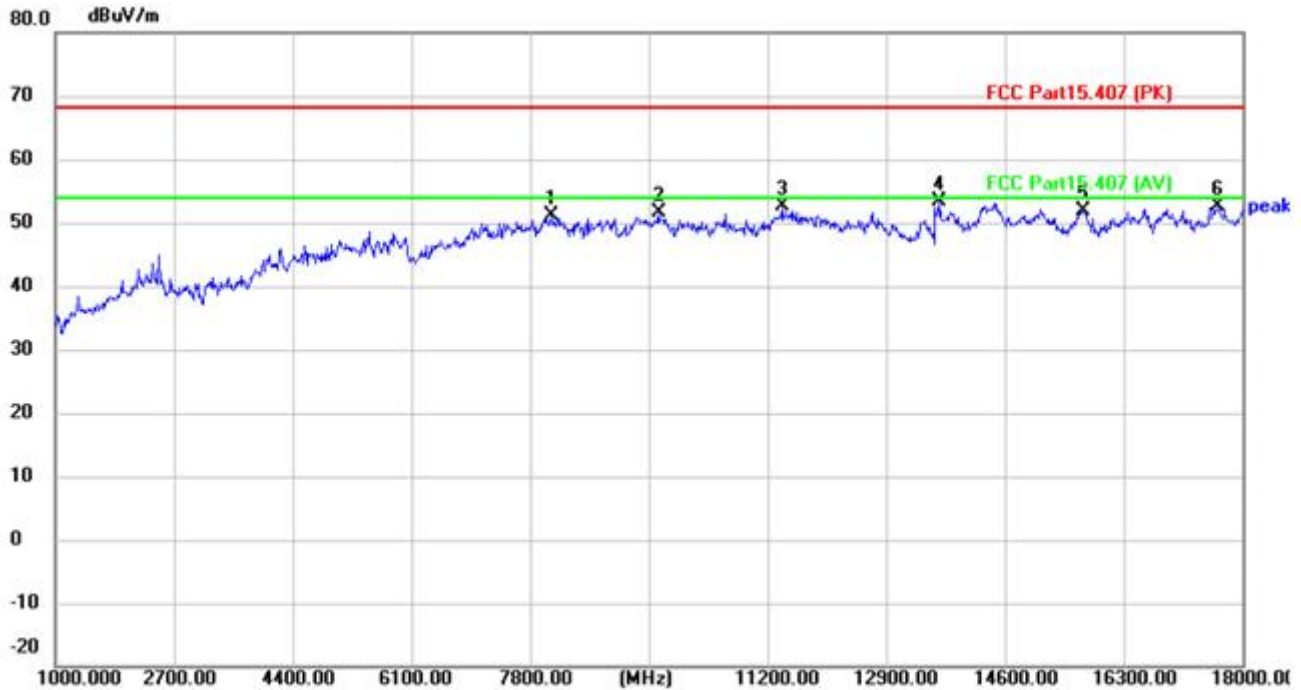
[Test mode: TX middle channel 5280MHz]; [Polarity: Vertical]



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	7205.000	39.94	10.39	50.33	68.20	-17.87	peak
2	8905.000	39.33	12.61	51.94	68.20	-16.26	peak
3	11404.00	38.32	14.29	52.61	68.20	-15.59	peak
4 *	14345.00	42.79	10.91	53.70	68.20	-14.50	peak
5	16436.00	42.62	9.89	52.51	68.20	-15.69	peak
6	17609.00	43.06	10.38	53.44	68.20	-14.76	peak

Test Result: Pass

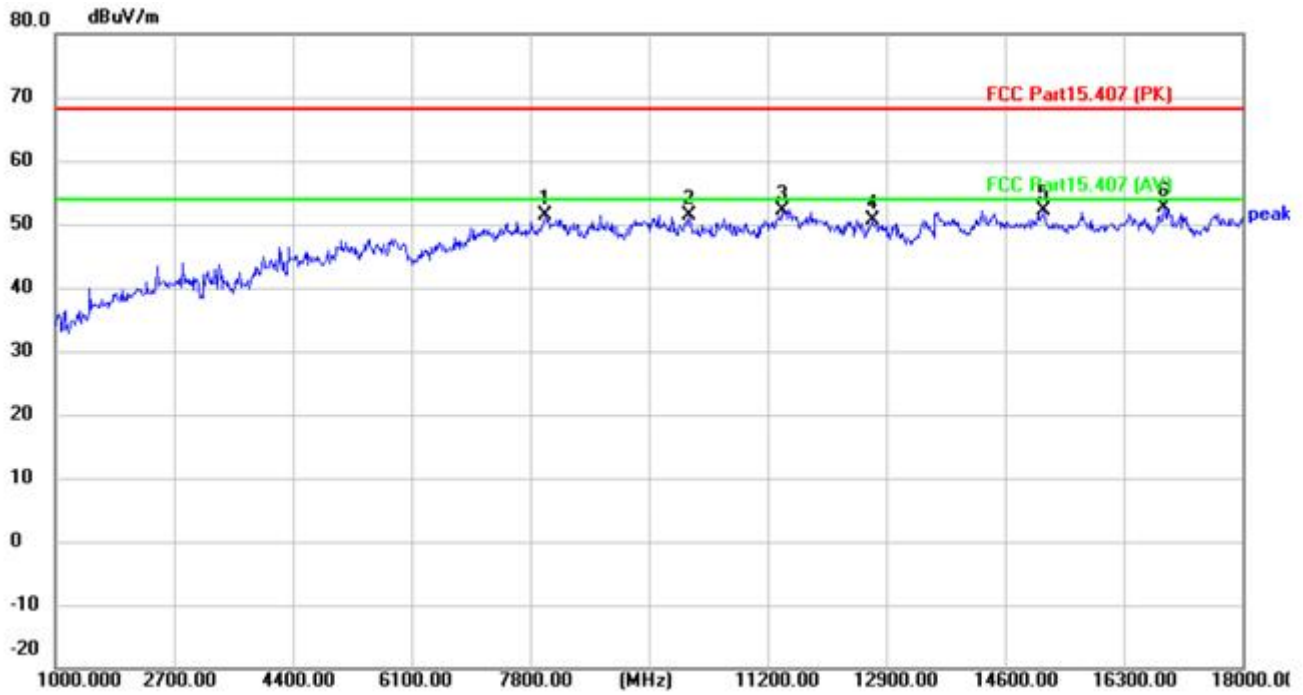
[Test mode: TX High channel 5320MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8106.000	39.48	11.76	51.24	68.20	-16.96	peak
2		9636.000	38.23	13.34	51.57	68.20	-16.63	peak
3		11404.00	38.36	14.29	52.65	68.20	-15.55	peak
4	*	13665.00	41.40	11.91	53.31	68.20	-14.89	peak
5		15722.00	42.46	9.32	51.78	68.20	-16.42	peak
6		17643.00	42.45	10.30	52.75	68.20	-15.45	peak

Test Result: Pass

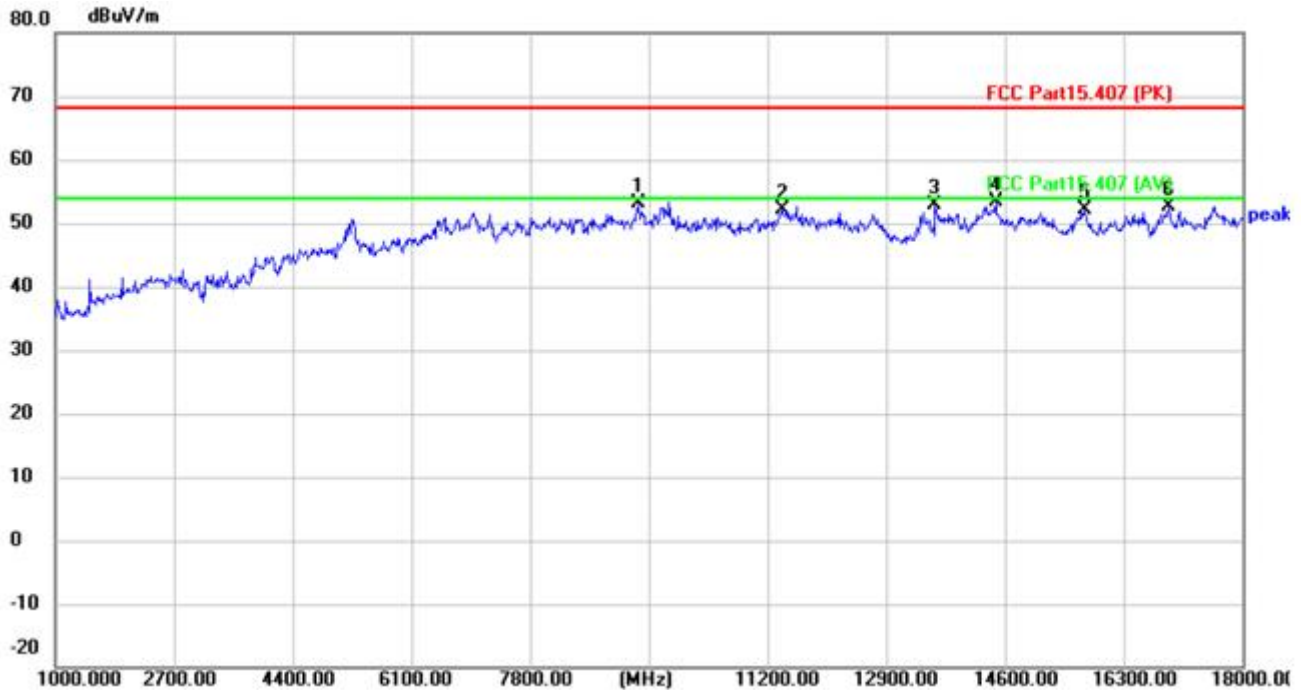
[Test mode: TX High channel 5320MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8021.000	39.76	11.64	51.40	68.20	-16.80	peak
2		10078.00	38.19	13.27	51.46	68.20	-16.74	peak
3		11404.00	37.73	14.29	52.02	68.20	-16.18	peak
4		12696.00	36.68	13.91	50.59	68.20	-17.61	peak
5		15161.00	42.65	9.39	52.04	68.20	-16.16	peak
6	*	16878.00	42.12	10.40	52.52	68.20	-15.68	peak

Test Result: Pass

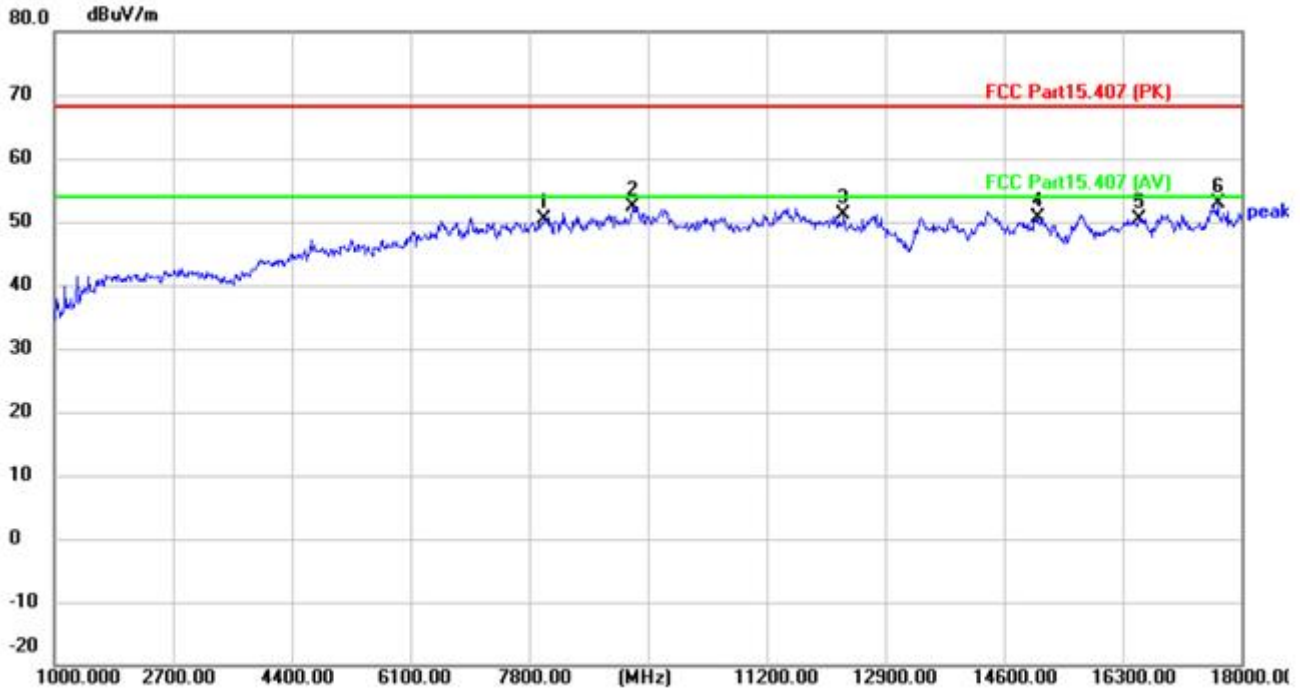
[Test mode: TX low channel 5500MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		9347.000	39.72	13.38	53.10	68.20	-15.10	peak
2		11404.00	37.80	14.29	52.09	68.20	-16.11	peak
3		13597.00	39.92	12.90	52.82	68.20	-15.38	peak
4	*	14464.00	42.76	10.54	53.30	68.20	-14.90	peak
5		15739.00	43.05	9.19	52.24	68.20	-15.96	peak
6		16946.00	42.92	9.81	52.73	68.20	-15.47	peak

Test Result: Pass

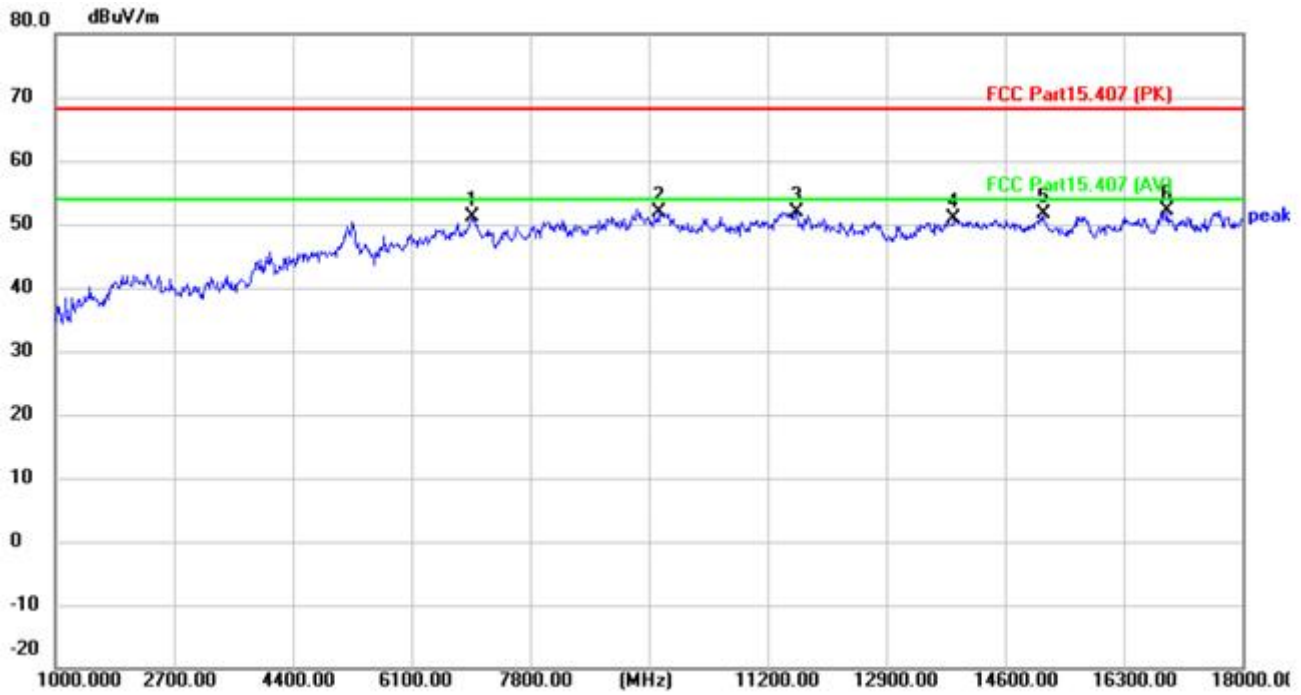
[Test mode: TX low channel 5500MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8004.000	38.66	11.61	50.27	68.20	-17.93	peak
2		9279.000	39.40	13.06	52.46	68.20	-15.74	peak
3		12305.00	38.07	12.99	51.06	68.20	-17.14	peak
4		15076.00	41.03	9.51	50.54	68.20	-17.66	peak
5		16538.00	39.75	10.68	50.43	68.20	-17.77	peak
6	*	17660.00	42.51	10.25	52.76	68.20	-15.44	peak

Test Result: Pass

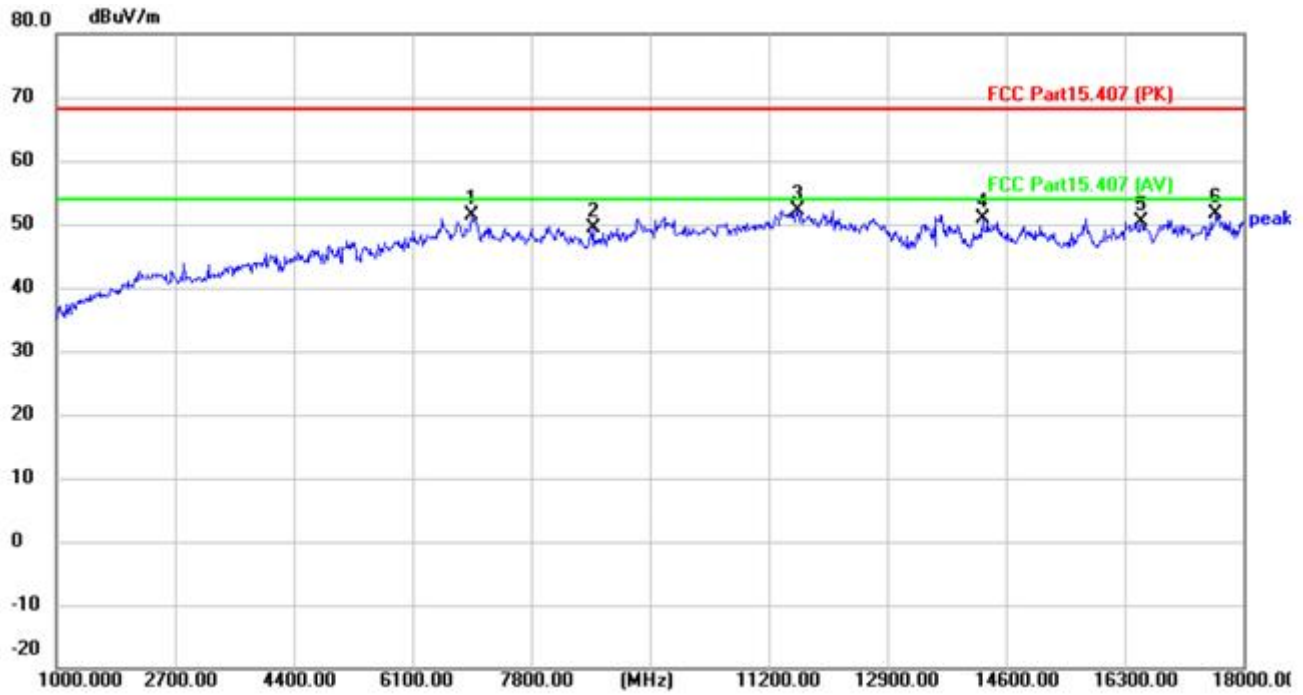
[Test mode: TX middle channel 5600MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6967.000	38.56	12.47	51.03	68.20	-17.17	peak
2		9653.000	38.40	13.52	51.92	68.20	-16.28	peak
3		11625.00	37.55	14.45	52.00	68.20	-16.20	peak
4		13869.00	40.51	10.30	50.81	68.20	-17.39	peak
5		15144.00	42.21	9.43	51.64	68.20	-16.56	peak
6	*	16929.00	42.06	10.04	52.10	68.20	-16.10	peak

Test Result: Pass

[Test mode: TX middle channel 5600MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6950.000	38.82	12.54	51.36	68.20	-16.84	peak
2		8684.000	37.61	11.79	49.40	68.20	-18.80	peak
3	*	11625.00	37.75	14.45	52.20	68.20	-16.00	peak
4		14260.00	40.09	10.86	50.95	68.20	-17.25	peak
5		16538.00	39.75	10.68	50.43	68.20	-17.77	peak
6		17609.00	41.20	10.38	51.58	68.20	-16.62	peak

Test Result: Pass

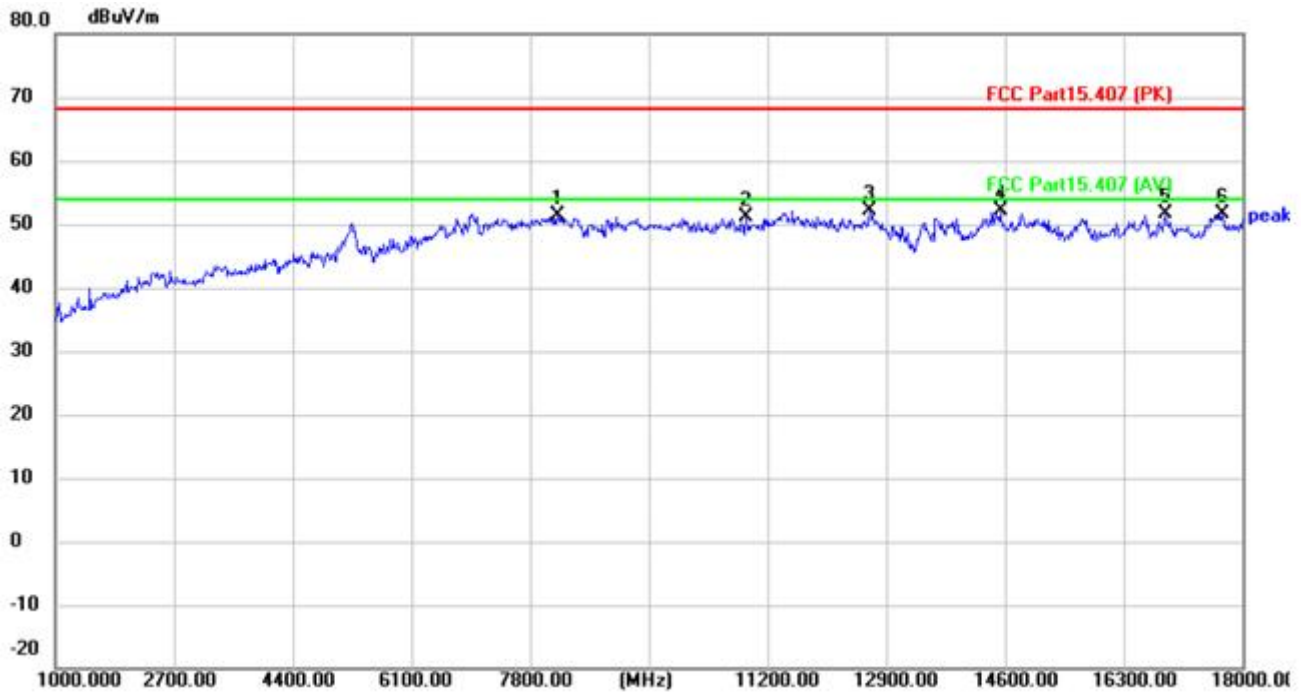
[Test mode: TX High channel 5700MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6984.000	39.19	12.40	51.59	68.20	-16.61	peak
2		8939.000	38.77	12.07	50.84	68.20	-17.36	peak
3		11370.00	37.87	13.94	51.81	68.20	-16.39	peak
4		12696.00	37.97	13.91	51.88	68.20	-16.32	peak
5		15654.00	42.70	9.30	52.00	68.20	-16.20	peak
6	*	17592.00	42.27	10.36	52.63	68.20	-15.57	peak

Test Result: Pass

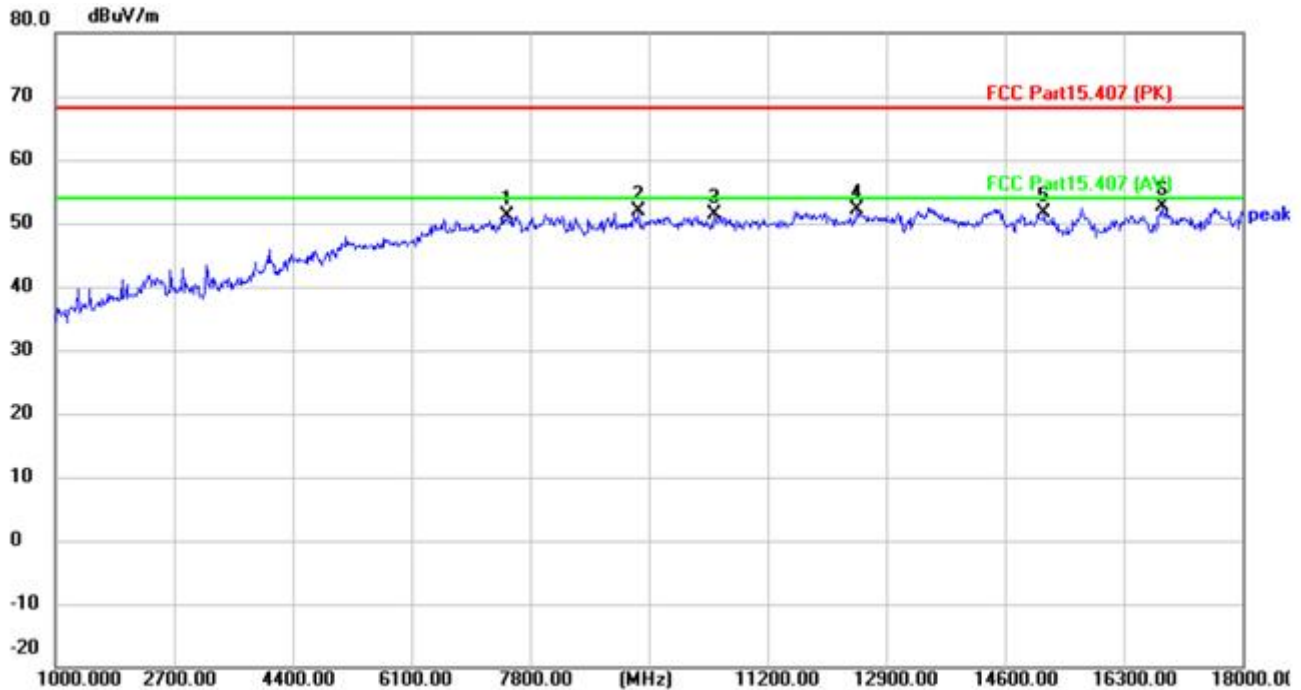
[Test mode: TX High channel 5700MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8191.000	39.80	11.50	51.30	68.20	-16.90	peak
2		10894.00	37.82	13.21	51.03	68.20	-17.17	peak
3	*	12662.00	38.57	13.61	52.18	68.20	-16.02	peak
4		14532.00	41.83	10.31	52.14	68.20	-16.06	peak
5		16895.00	41.10	10.44	51.54	68.20	-16.66	peak
6		17711.00	41.58	10.13	51.71	68.20	-16.49	peak

Test Result: Pass

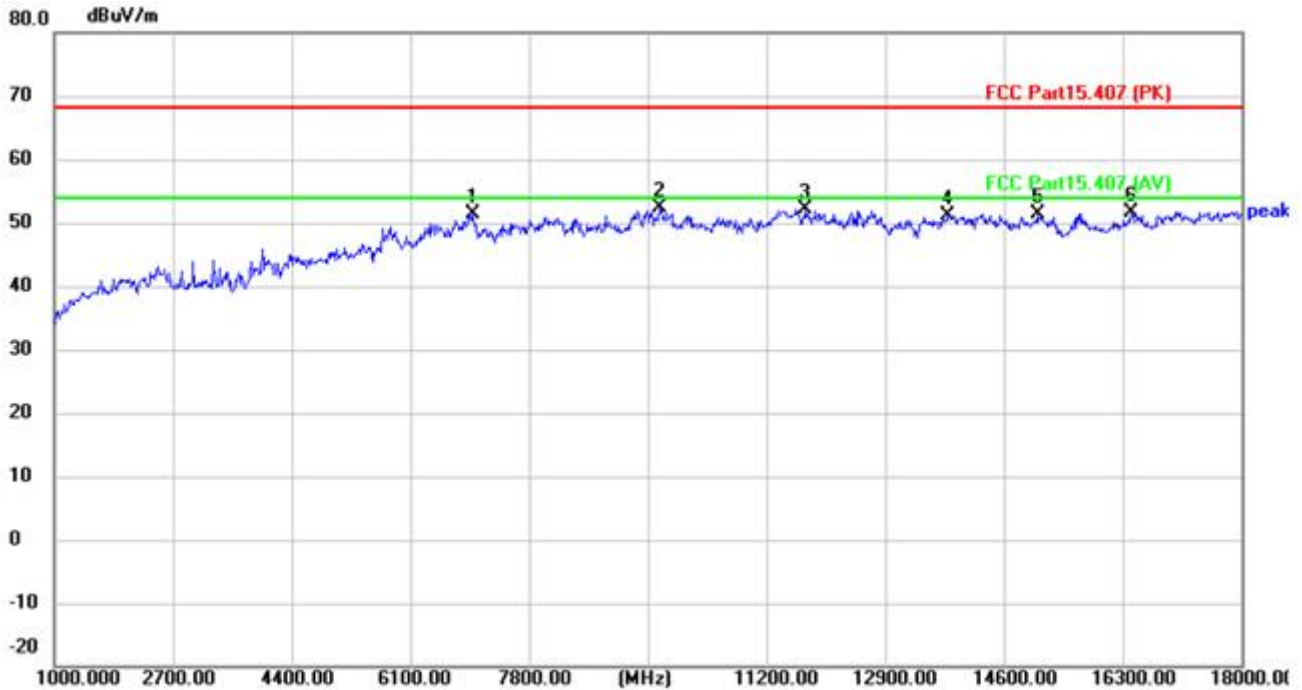
[Test mode: TX low channel 5745MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		7477.000	40.14	10.90	51.04	68.20	-17.16	peak
2		9347.000	38.43	13.38	51.81	68.20	-16.39	peak
3		10435.00	37.72	13.58	51.30	68.20	-16.90	peak
4		12475.00	39.14	12.88	52.02	68.20	-16.18	peak
5		15161.00	42.25	9.39	51.64	68.20	-16.56	peak
6	*	16844.00	42.21	10.34	52.55	68.20	-15.65	peak

Test Result: Pass

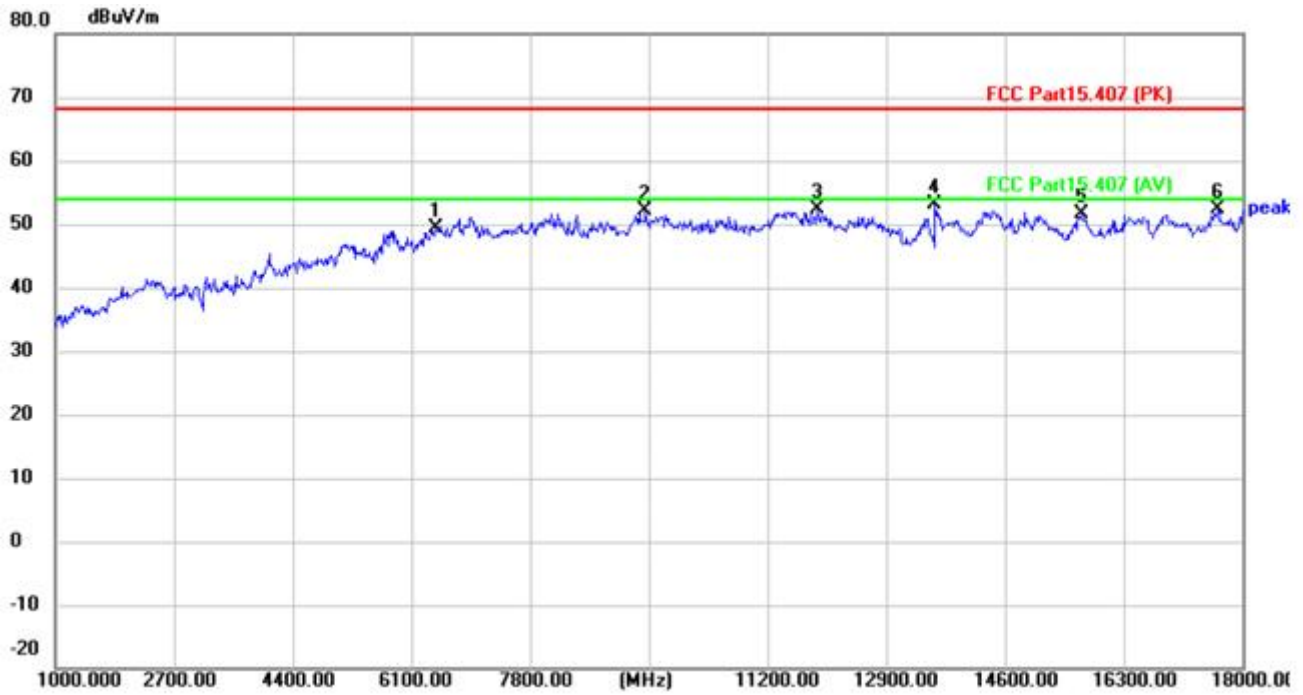
[Test mode: TX low channel 5745MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6984.000	38.98	12.47	51.45	68.20	-16.75	peak
2	*	9670.000	38.90	13.51	52.41	68.20	-15.79	peak
3		11761.00	38.63	13.47	52.10	68.20	-16.10	peak
4		13801.00	40.62	10.63	51.25	68.20	-16.95	peak
5		15076.00	41.84	9.51	51.35	68.20	-16.85	peak
6		16419.00	41.84	9.72	51.56	68.20	-16.64	peak

Test Result: Pass

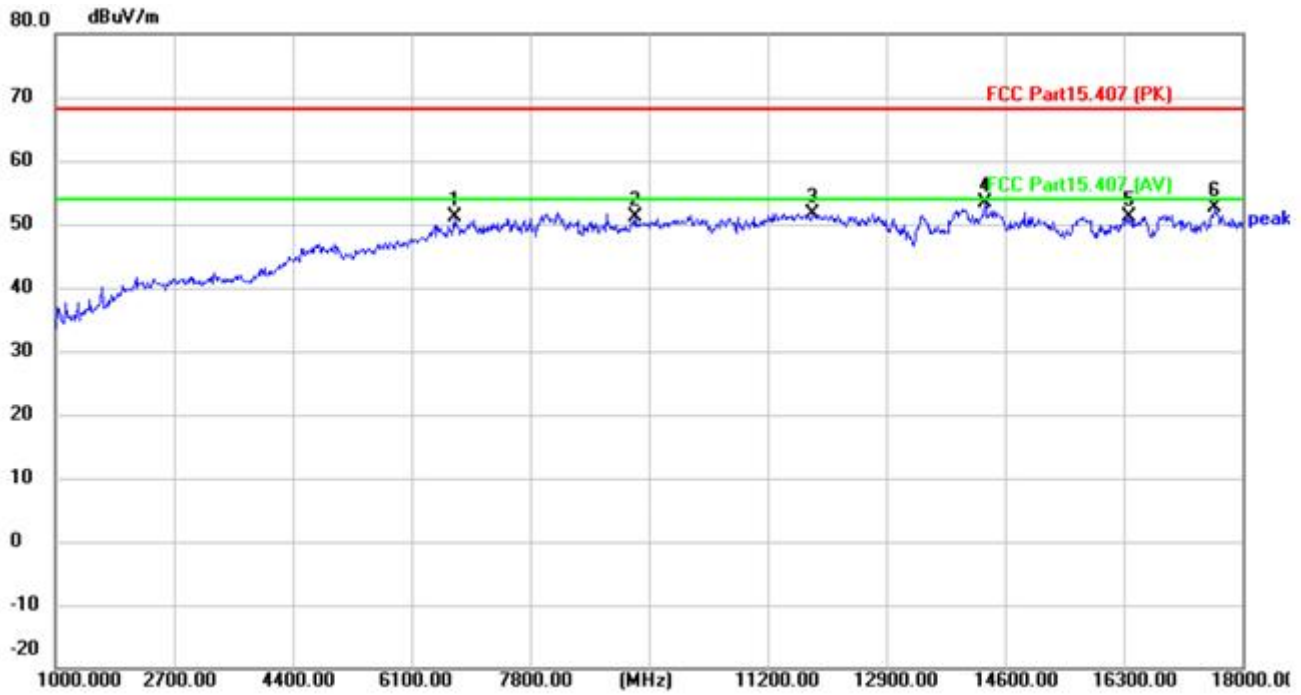
[Test mode: TX middle channel 5785MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6440.000	38.61	10.80	49.41	68.20	-18.79	peak
2		9449.000	39.13	13.10	52.23	68.20	-15.97	peak
3		11914.00	38.84	13.66	52.50	68.20	-15.70	peak
4	*	13597.00	40.15	12.90	53.05	68.20	-15.15	peak
5		15688.00	42.31	9.44	51.75	68.20	-16.45	peak
6		17643.00	41.97	10.30	52.27	68.20	-15.93	peak

Test Result: Pass

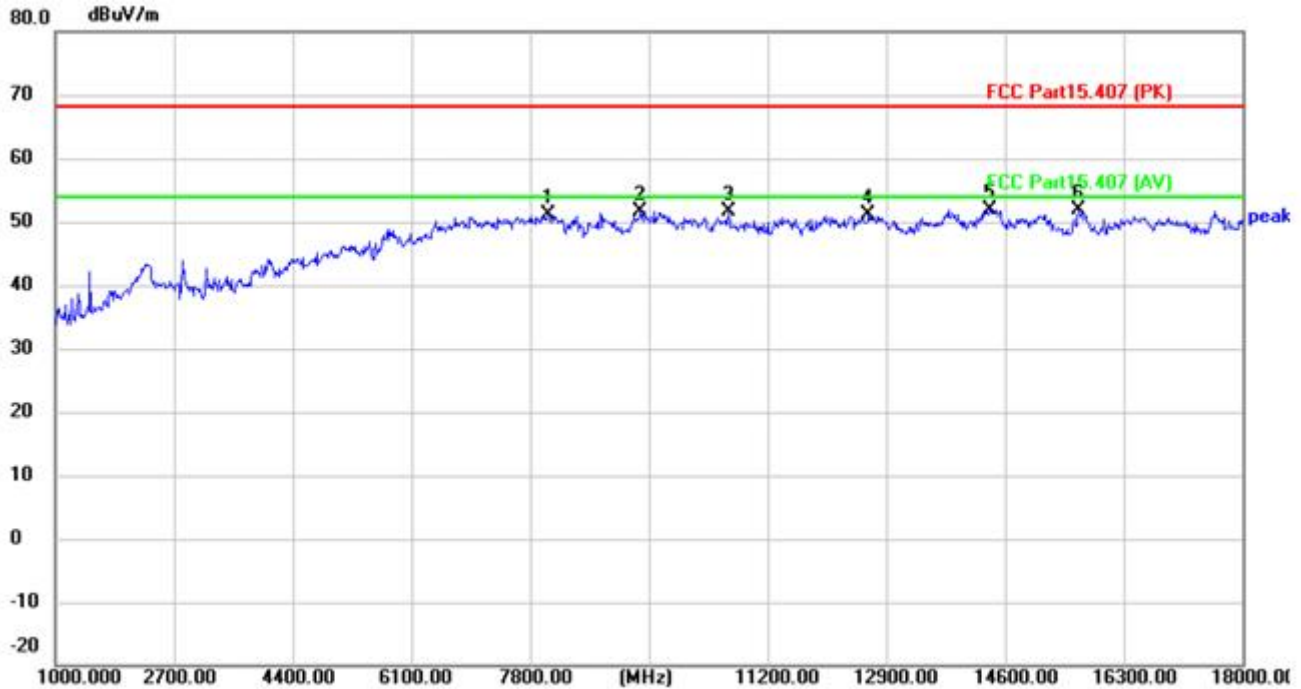
[Test mode: TX middle channel 5785MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		6712.000	39.74	11.38	51.12	68.20	-17.08	peak
2		9296.000	38.14	13.09	51.23	68.20	-16.97	peak
3		11846.00	38.03	13.52	51.55	68.20	-16.65	peak
4	*	14311.00	42.23	11.04	53.27	68.20	-14.93	peak
5		16368.00	41.76	9.40	51.16	68.20	-17.04	peak
6		17609.00	42.30	10.38	52.68	68.20	-15.52	peak

Test Result: Pass

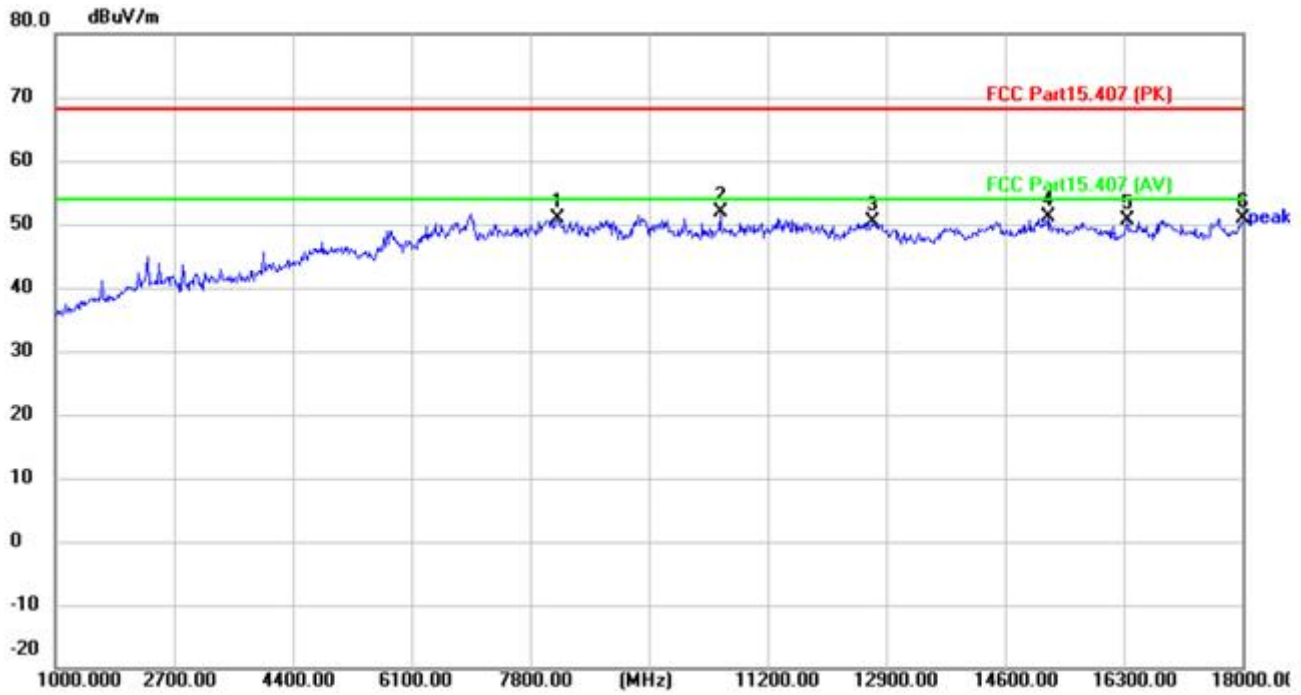
[Test mode: TX High channel 5825MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8055.000	39.49	11.71	51.20	68.20	-17.00	peak
2		9381.000	38.55	12.97	51.52	68.20	-16.68	peak
3		10639.00	38.24	13.30	51.54	68.20	-16.66	peak
4		12645.00	37.57	13.46	51.03	68.20	-17.17	peak
5		14379.00	41.10	10.78	51.88	68.20	-16.32	peak
6	*	15654.00	42.70	9.30	52.00	68.20	-16.20	peak

Test Result: Pass

[Test mode: TX High channel 5825MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		8191.000	39.39	11.50	50.89	68.20	-17.31	peak
2	*	10520.00	38.05	13.72	51.77	68.20	-16.43	peak
3		12713.00	36.41	13.93	50.34	68.20	-17.86	peak
4		15212.00	41.68	9.33	51.01	68.20	-17.19	peak
5		16351.00	41.41	9.33	50.74	68.20	-17.46	peak
6		18000.00	39.63	11.34	50.97	68.20	-17.23	peak

Test Result: Pass

6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

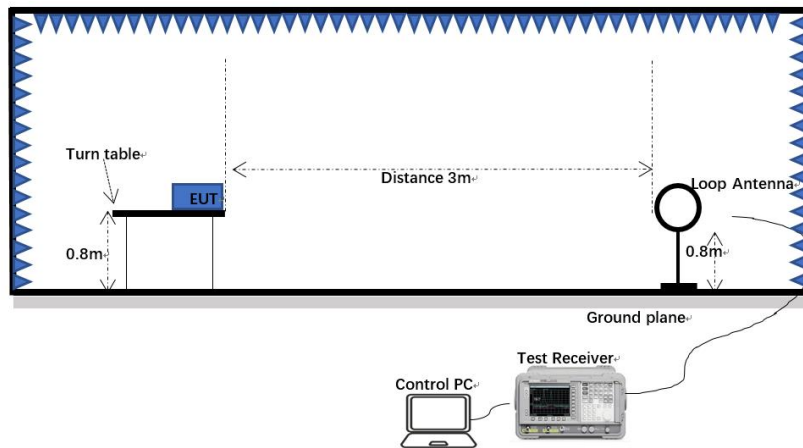
6.11.1 Limit

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

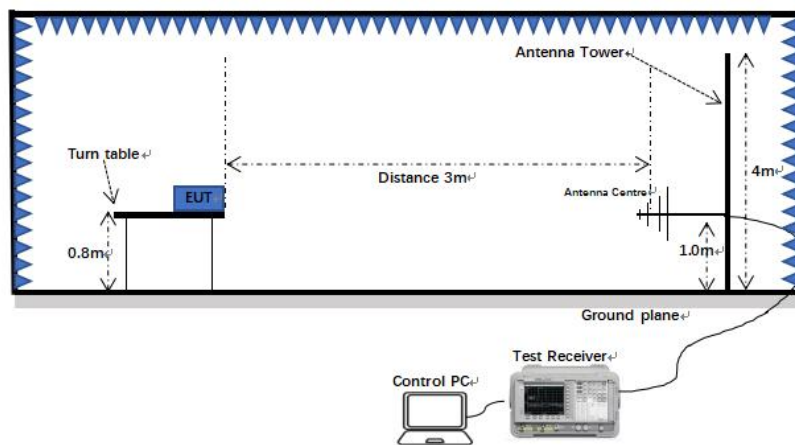
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

6.11.2 Test setup

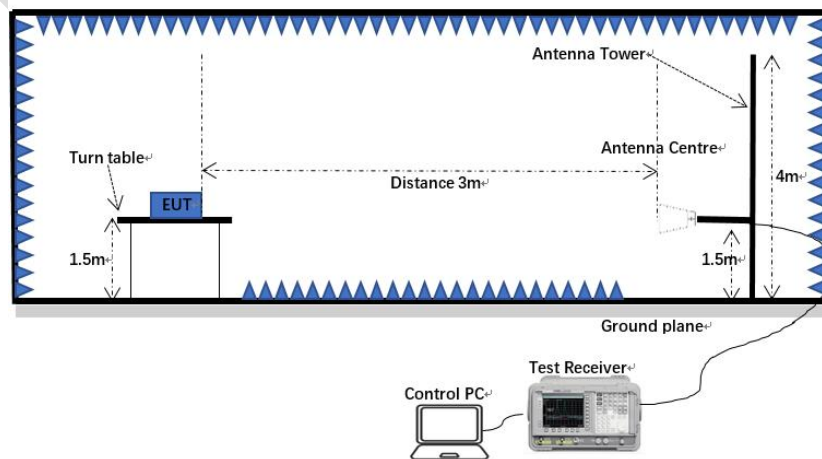
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.11.3 Procedure

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

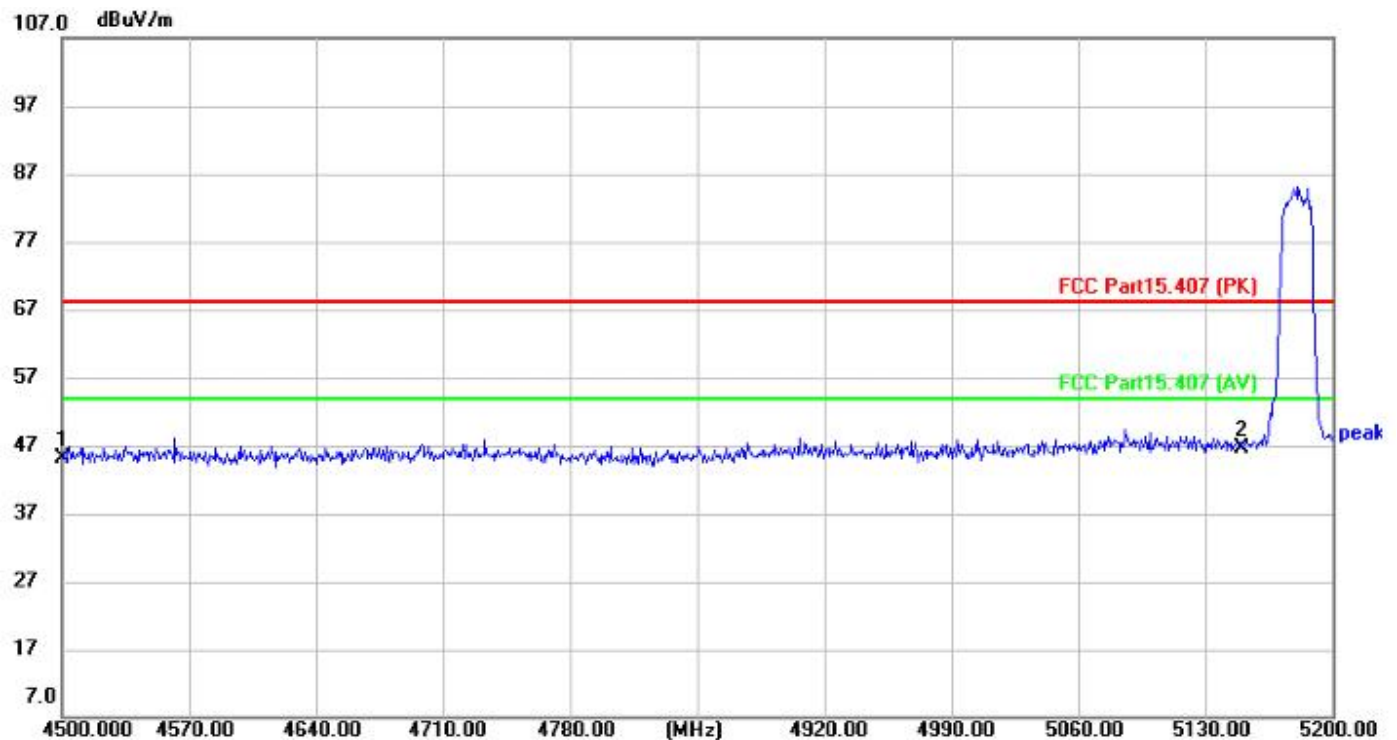
Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.11.4 Test data

Remark: During the test, pre-scan the 802.11a/n/ac mode, and found 20MHz for the 802.11a mode which it is worse case, and found 40MHz for the 802.11n40 mode and found 80MHz for the 802.11ac80 mode which it is worse case, only the worse case was recorded in the report.

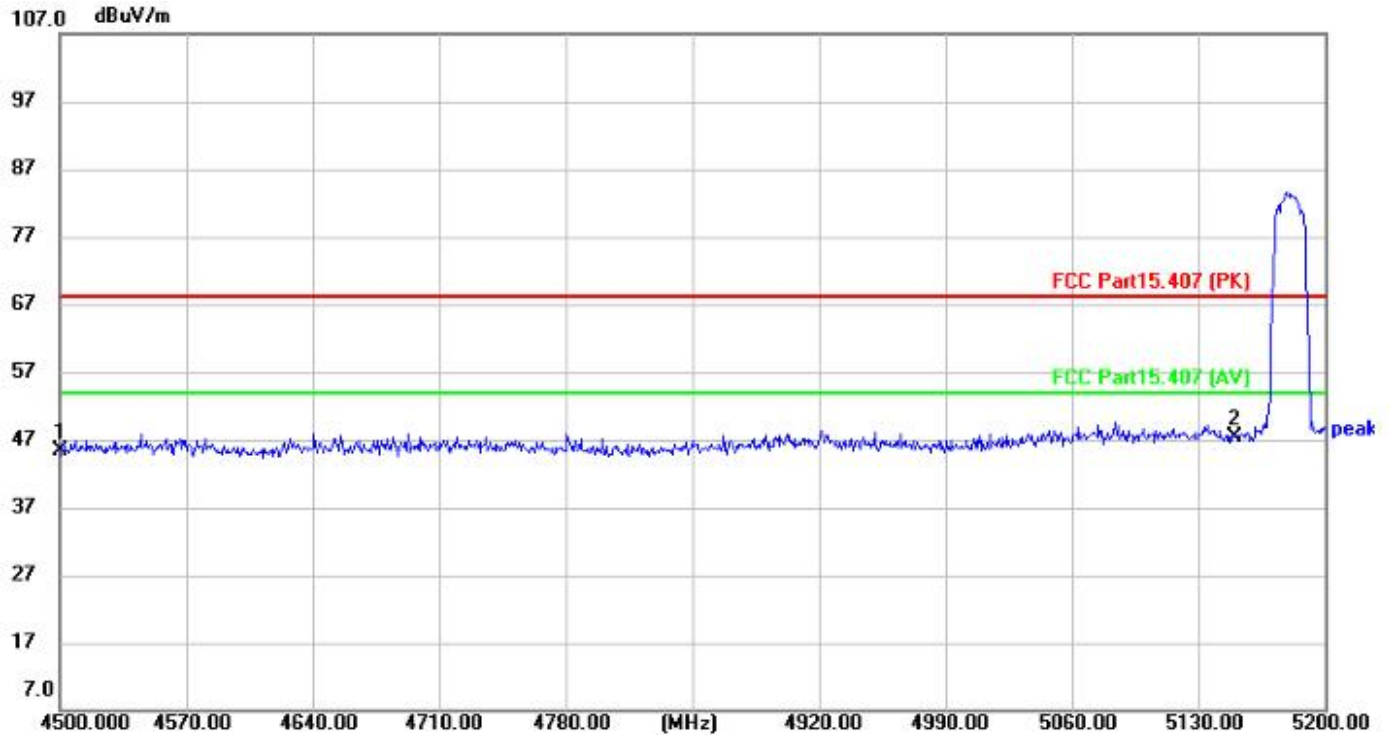
[Test mode: TX low channel 802.11a 5180MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.06	3.02	45.08	68.20	-23.12	peak
2	*	5150.000	40.60	5.93	46.53	68.20	-21.67	peak

Test Result: Pass

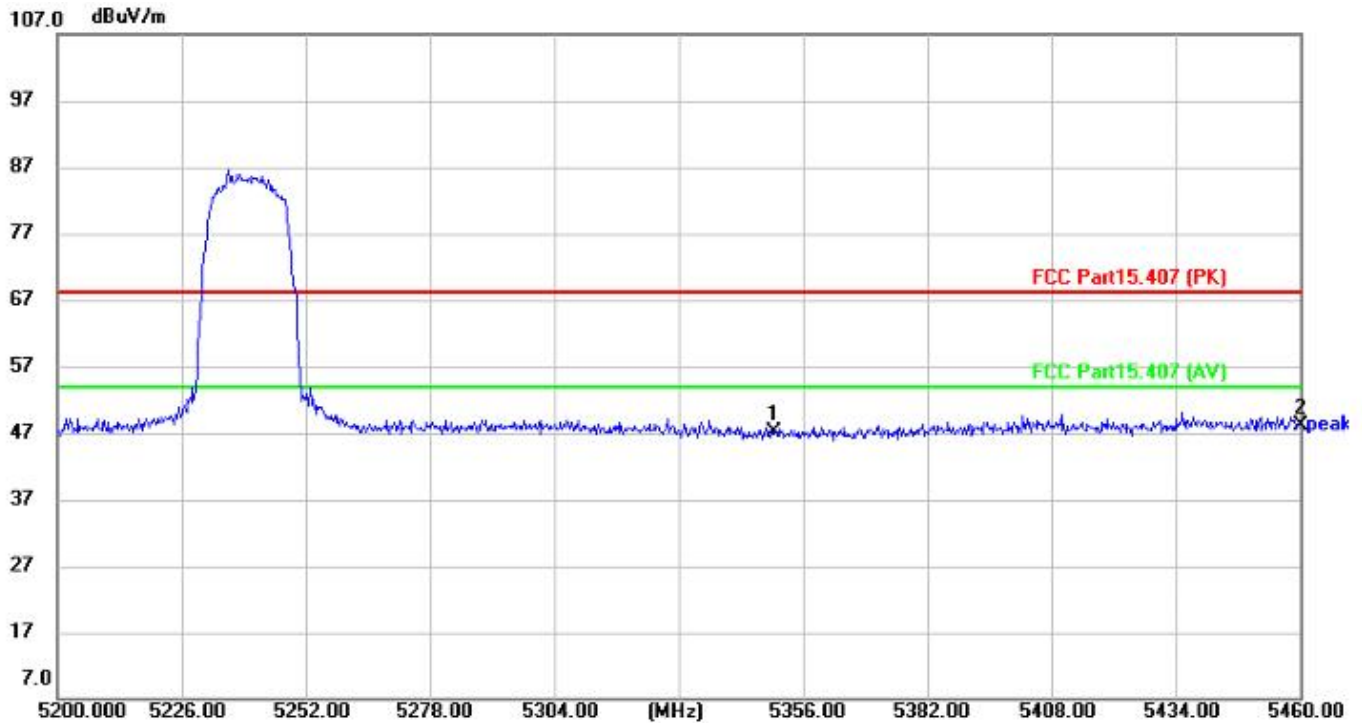
[Test mode:TX low channel 802.11a 5180MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.28	3.02	45.30	68.20	-22.90	peak
2	*	5150.000	41.39	5.93	47.32	68.20	-20.88	peak

Test Result: Pass

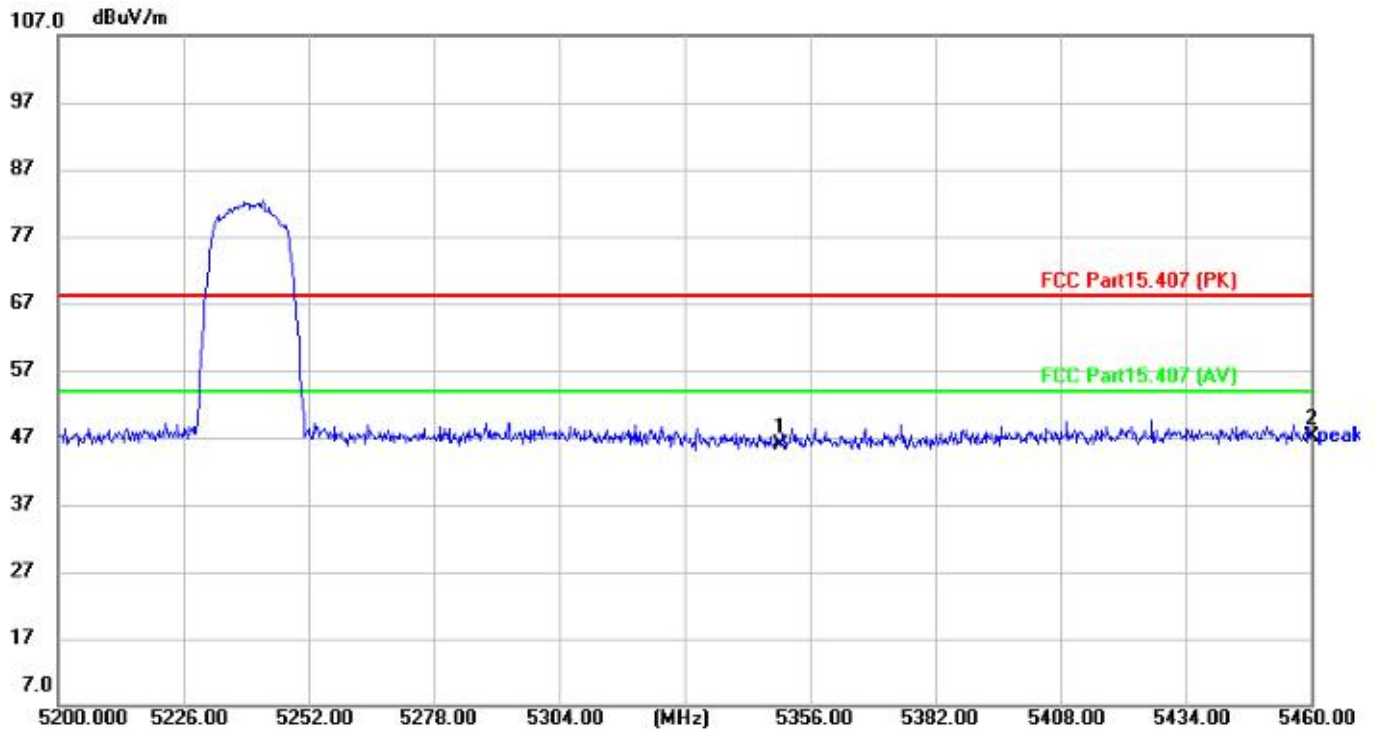
[Test mode: TX high channel 802.11a 5240MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		5350.000	41.89	5.21	47.10	68.20	-21.10	peak
2	*	5460.000	42.30	5.91	48.21	68.20	-19.99	peak

Test Result: Pass

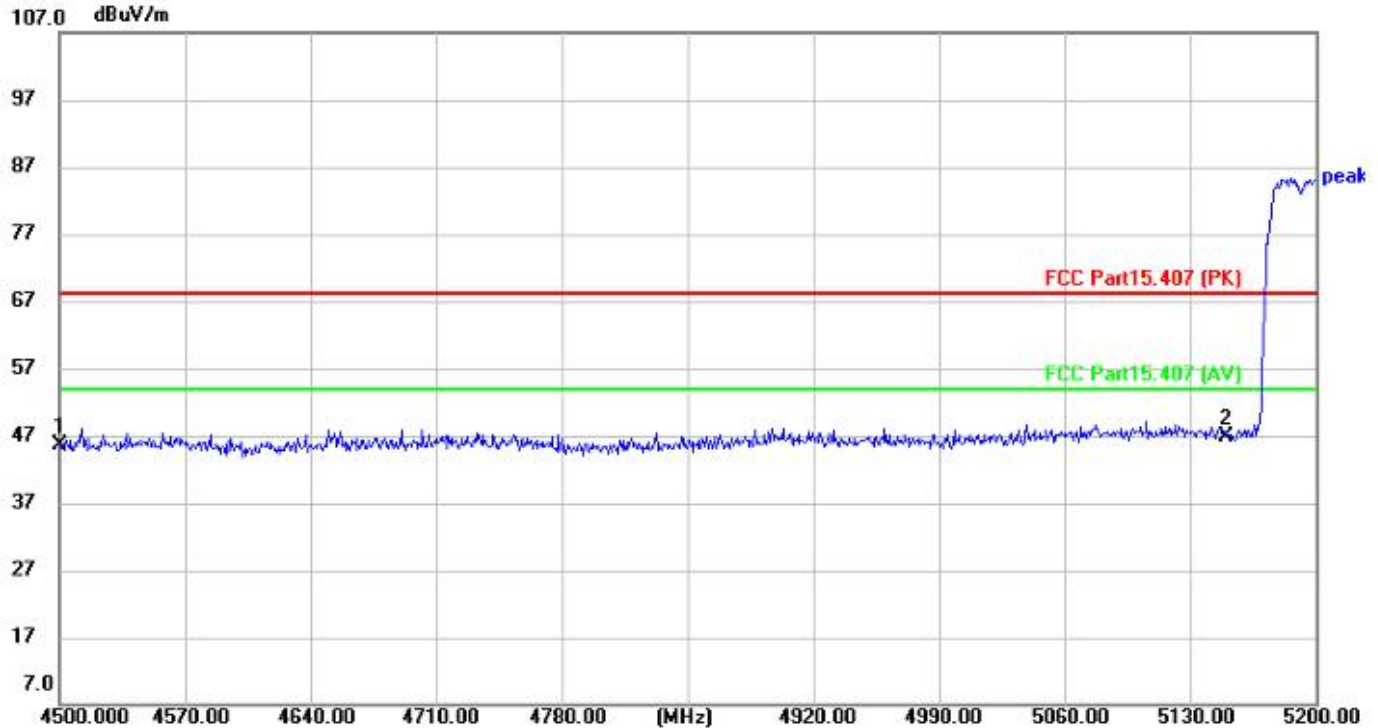
[Test mode:TX high channel 802.11a 5240MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5350.000	40.55	5.21	45.76	68.20	-22.44	peak
2	*	5460.000	41.27	5.91	47.18	68.20	-21.02	peak

Test Result: Pass

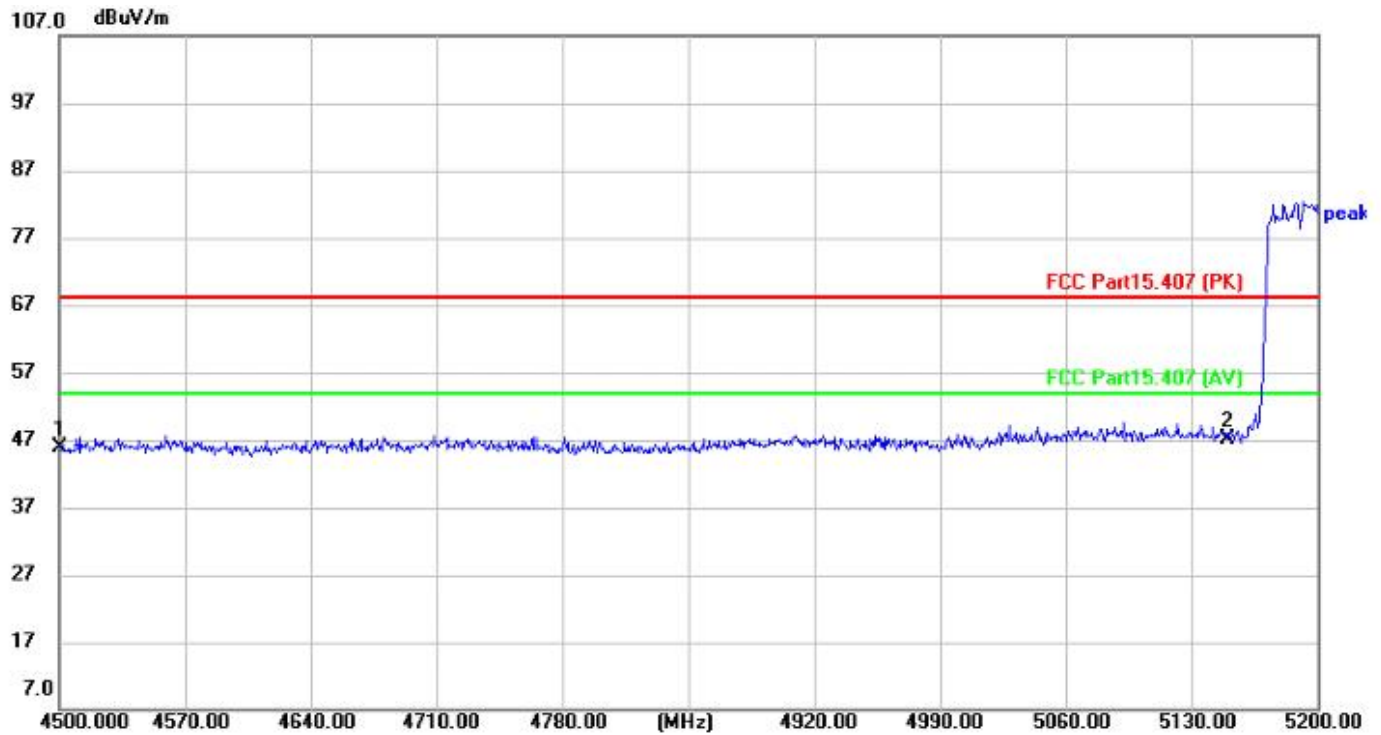
[Test mode: TX low channel 802.11n40 5190MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.50	3.02	45.52	68.20	-22.68	peak
2	*	5150.000	41.04	5.93	46.97	68.20	-21.23	peak

Test Result: Pass

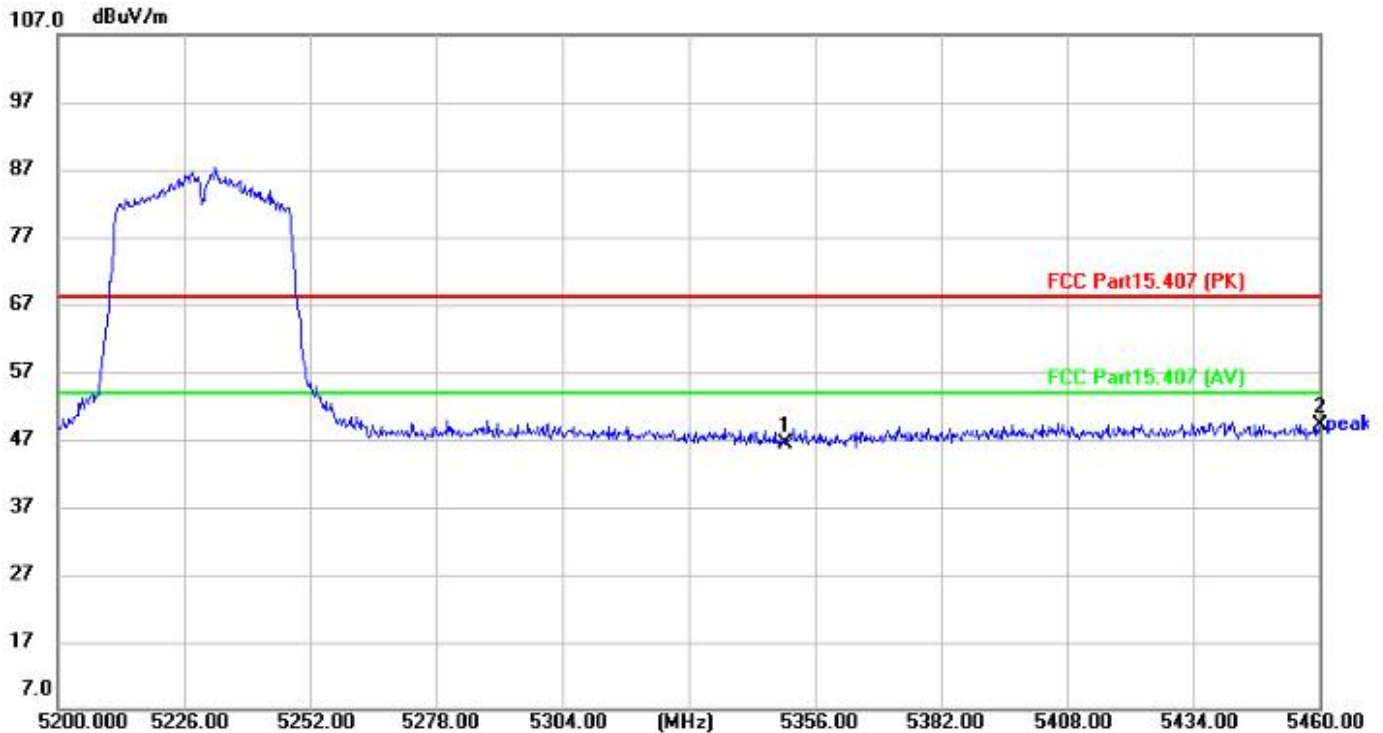
[Test mode: TX low channel 802.11n40 5190MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.77	3.02	45.79	68.20	-22.41	peak
2	*	5150.000	41.27	5.93	47.20	68.20	-21.00	peak

Test Result: Pass

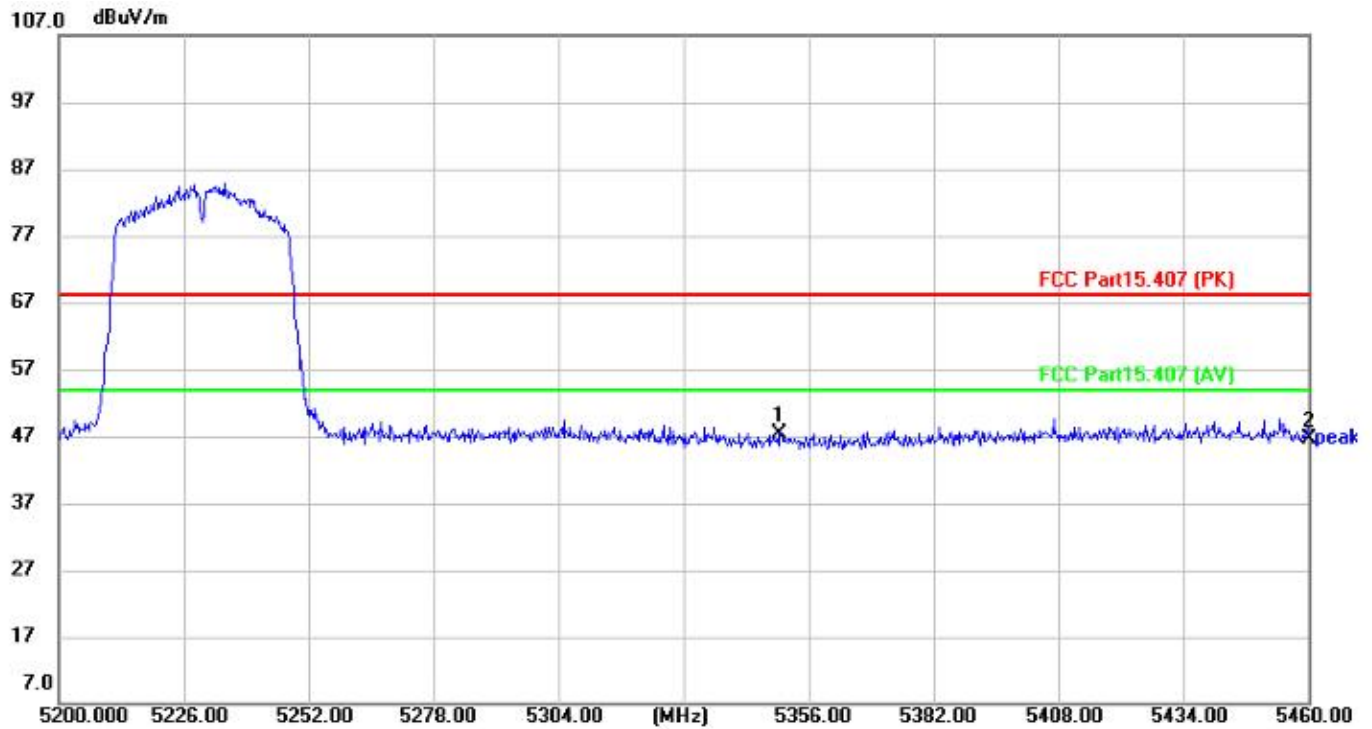
[Test mode: TX high channel 802.11n40 5230MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		5350.000	41.23	5.21	46.44	68.20	-21.76	peak
2	*	5460.000	43.11	5.91	49.02	68.20	-19.18	peak

Test Result: Pass

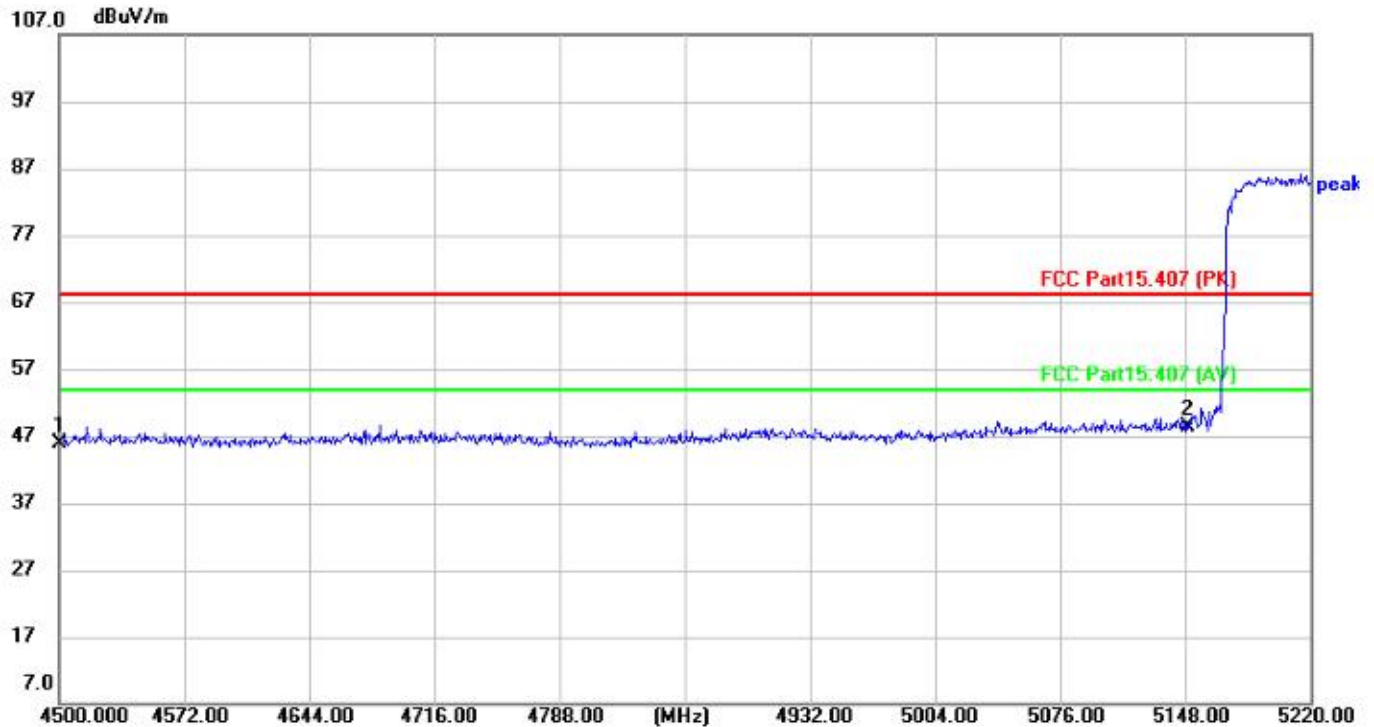
[Test mode: TX high channel 802.11n40 5230MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	5350.000	42.21	5.21	47.42	68.20	-20.78	peak
2		5460.000	40.67	5.91	46.58	68.20	-21.62	peak

Test Result: Pass

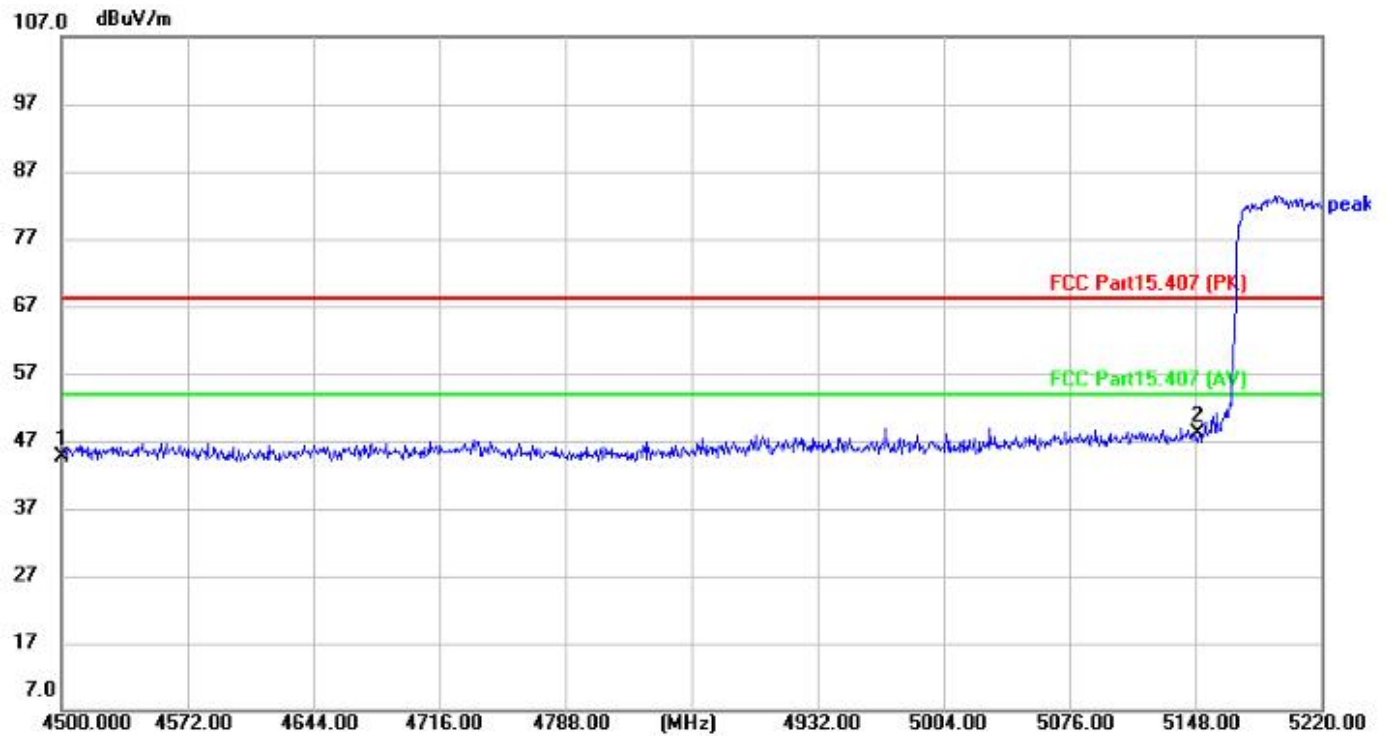
[Test mode: TX 802.11ac 80 5210MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4500.000	42.91	3.02	45.93	68.20	-22.27	peak
2	*	5150.000	42.37	5.93	48.30	68.20	-19.90	peak

Test Result: Pass

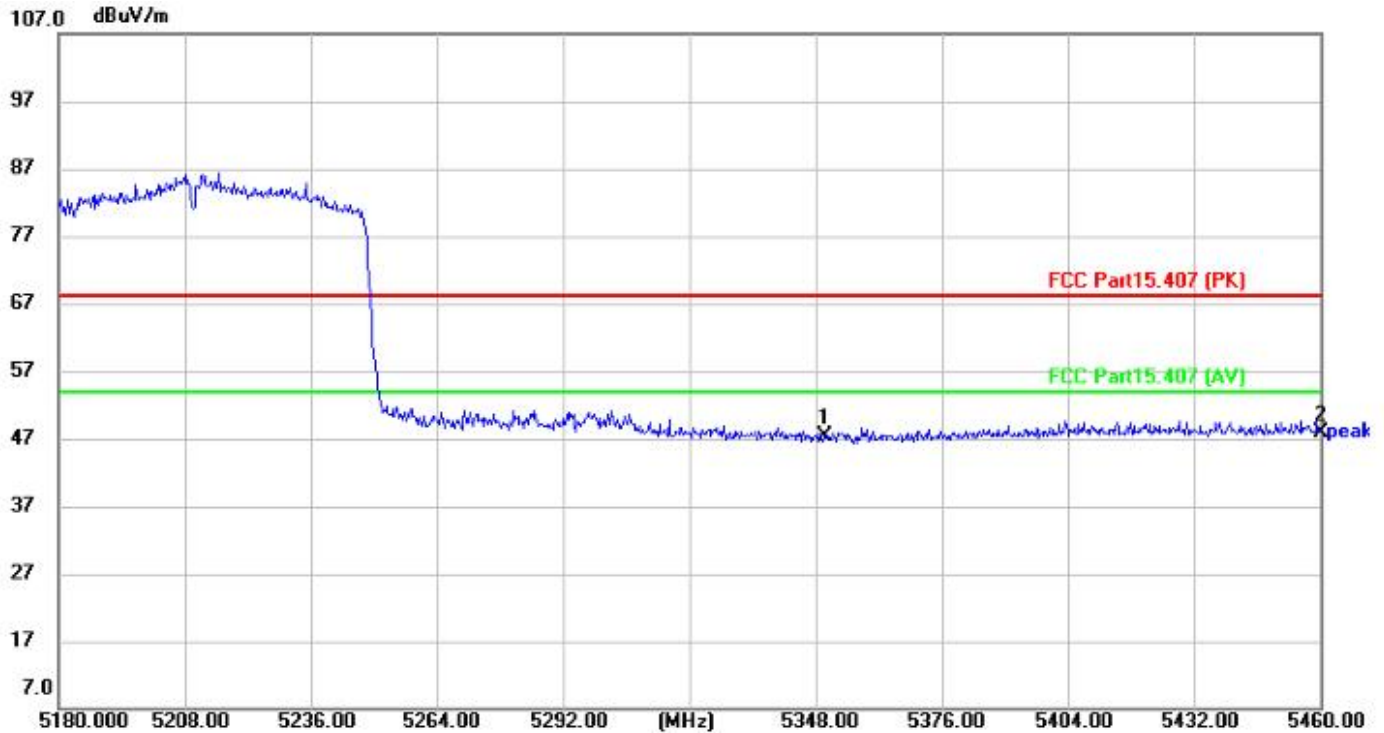
[Test mode: TX 802.11ac 80 5210MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	41.63	3.02	44.65	68.20	-23.55	peak
2	*	5150.000	42.19	5.93	48.12	68.20	-20.08	peak

Test Result: Pass

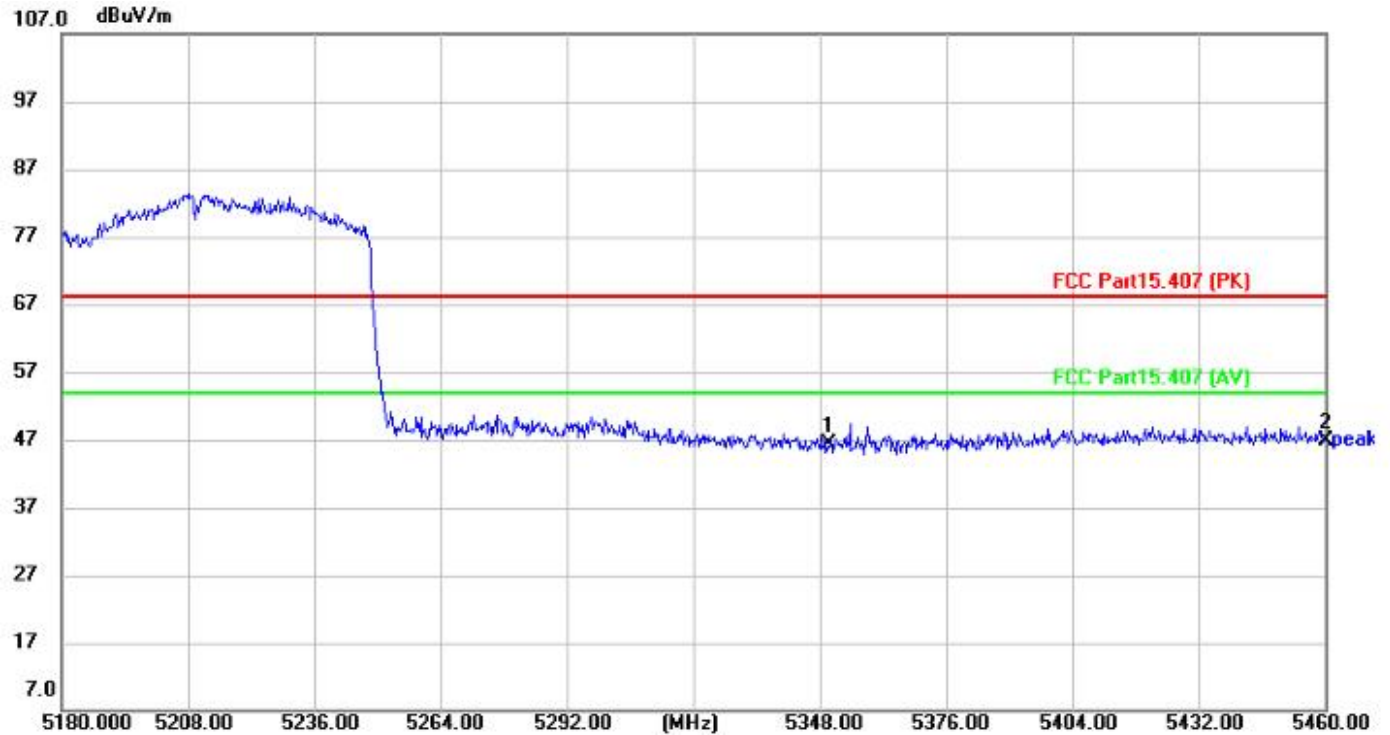
[Test mode: TX 802.11ax 80 5210MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5350.000	42.26	5.21	47.47	68.20	-20.73	peak
2	*	5460.000	42.06	5.91	47.97	68.20	-20.23	peak

Test Result: Pass

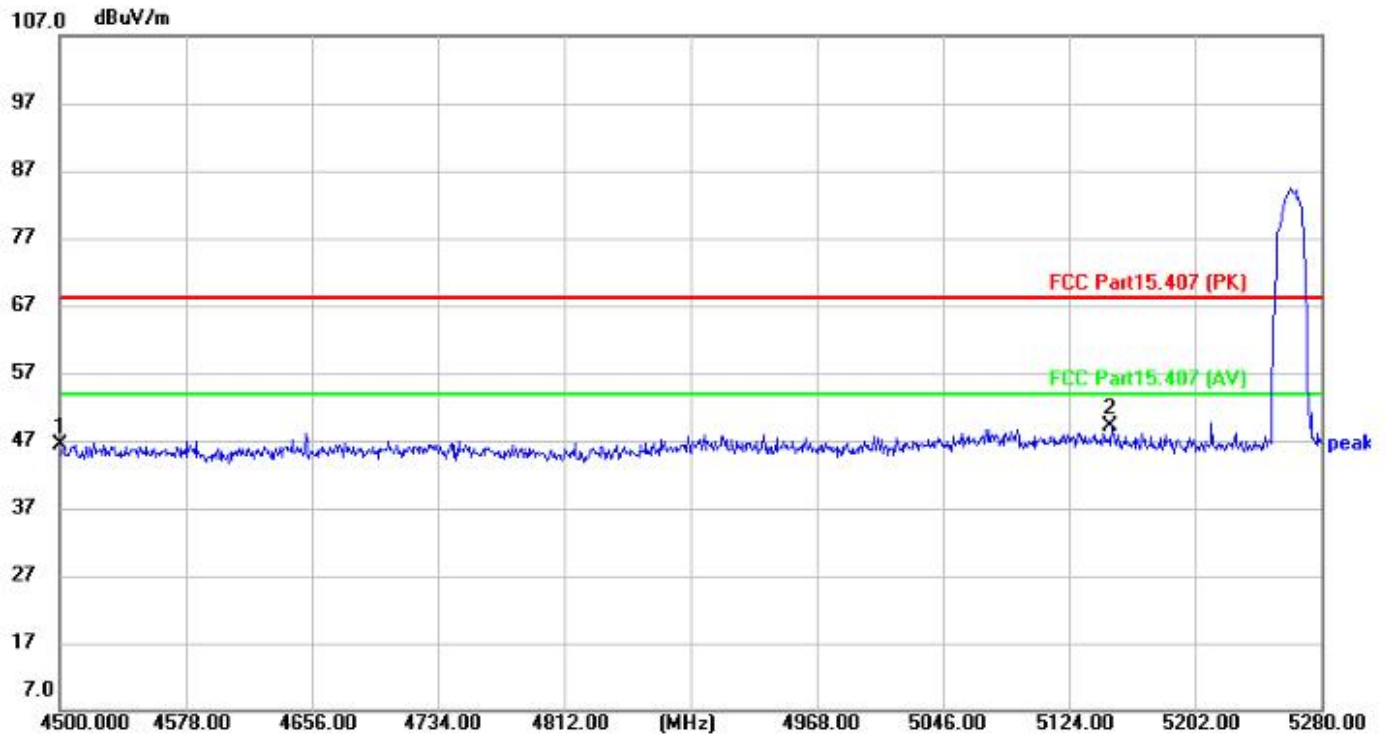
[Test mode: TX 802.11ax 80 5210MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5350.000	41.12	5.21	46.33	68.20	-21.87	peak
2	*	5460.000	40.97	5.91	46.88	68.20	-21.32	peak

Test Result: Pass

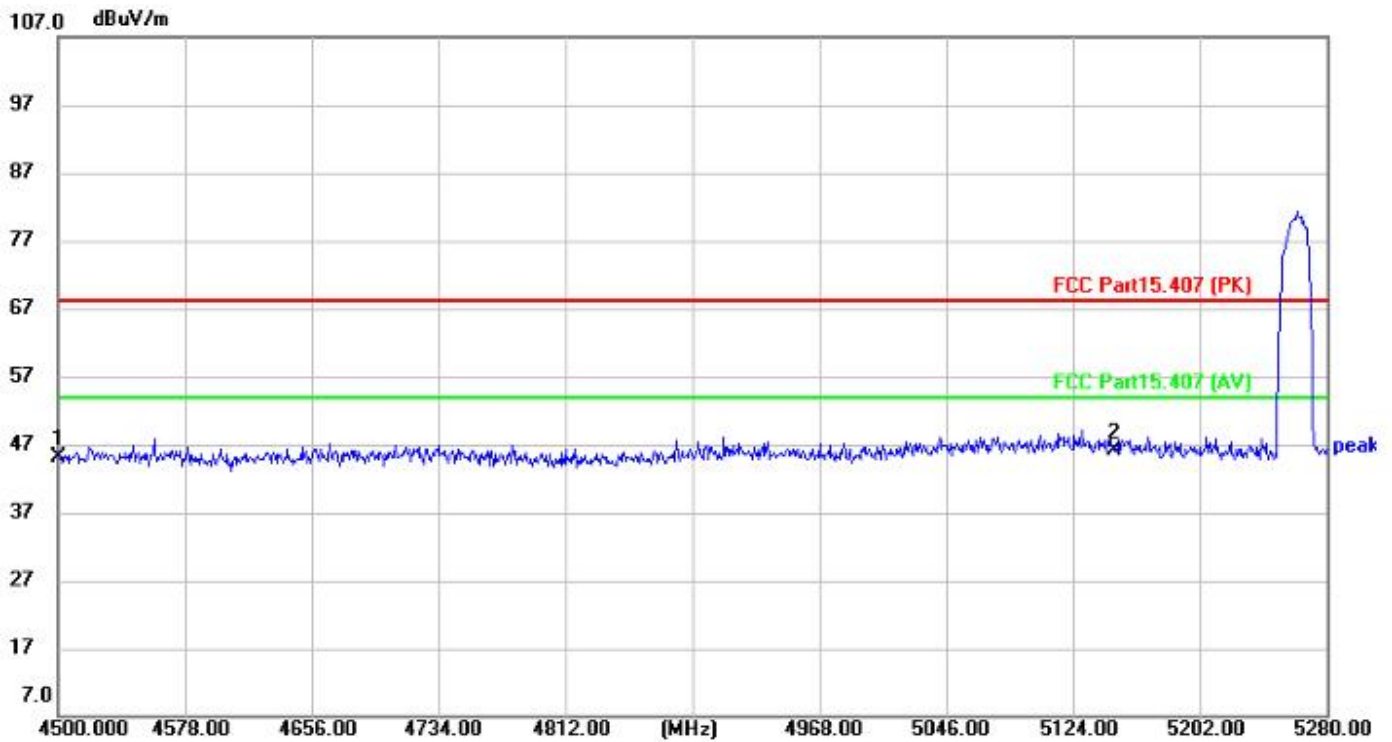
[Test mode: TX low channel 802.11a 5260MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4500.000	43.30	3.02	46.32	68.20	-21.88	peak
2	*	5150.000	43.27	5.93	49.20	68.20	-19.00	peak

Test Result: Pass

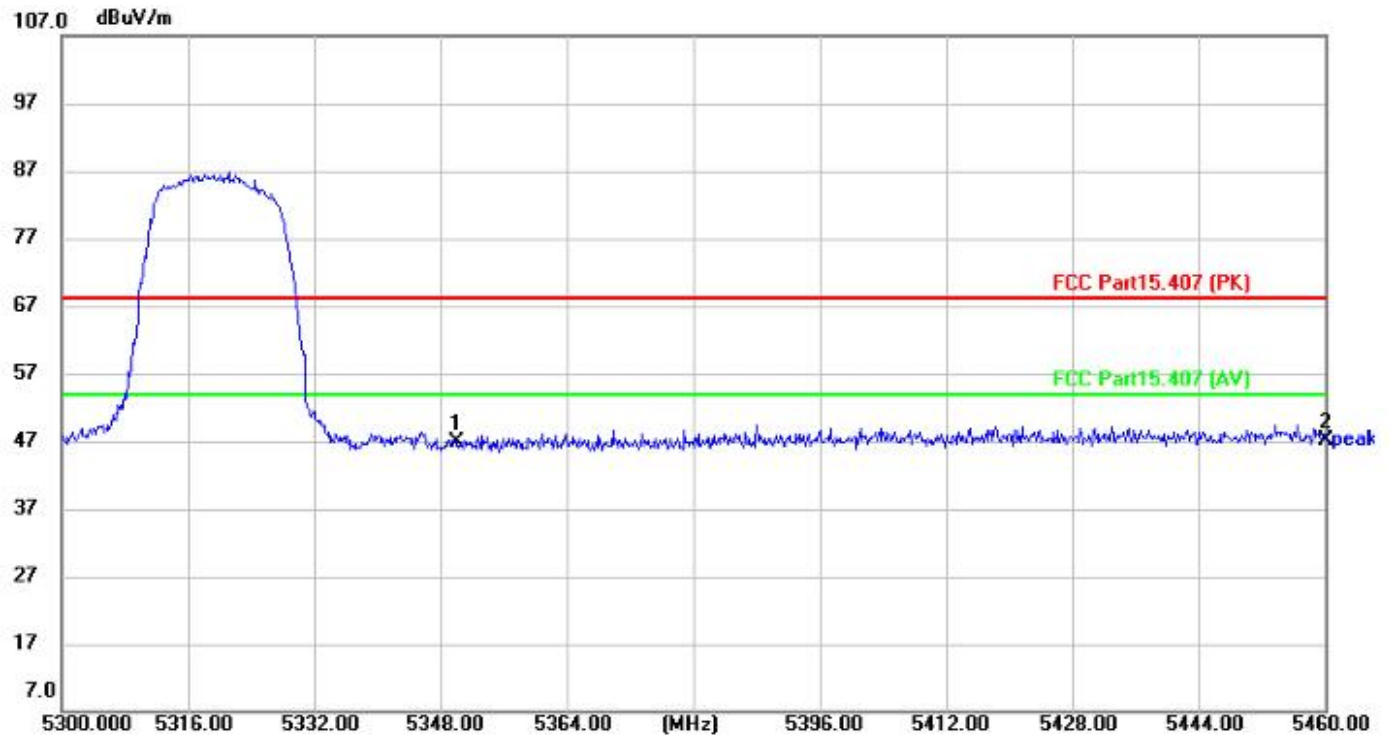
[Test mode:TX low channel 802.11a 5260MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.18	3.02	45.20	68.20	-23.00	peak
2	*	5150.000	40.17	5.93	46.10	68.20	-22.10	peak

Test Result: Pass

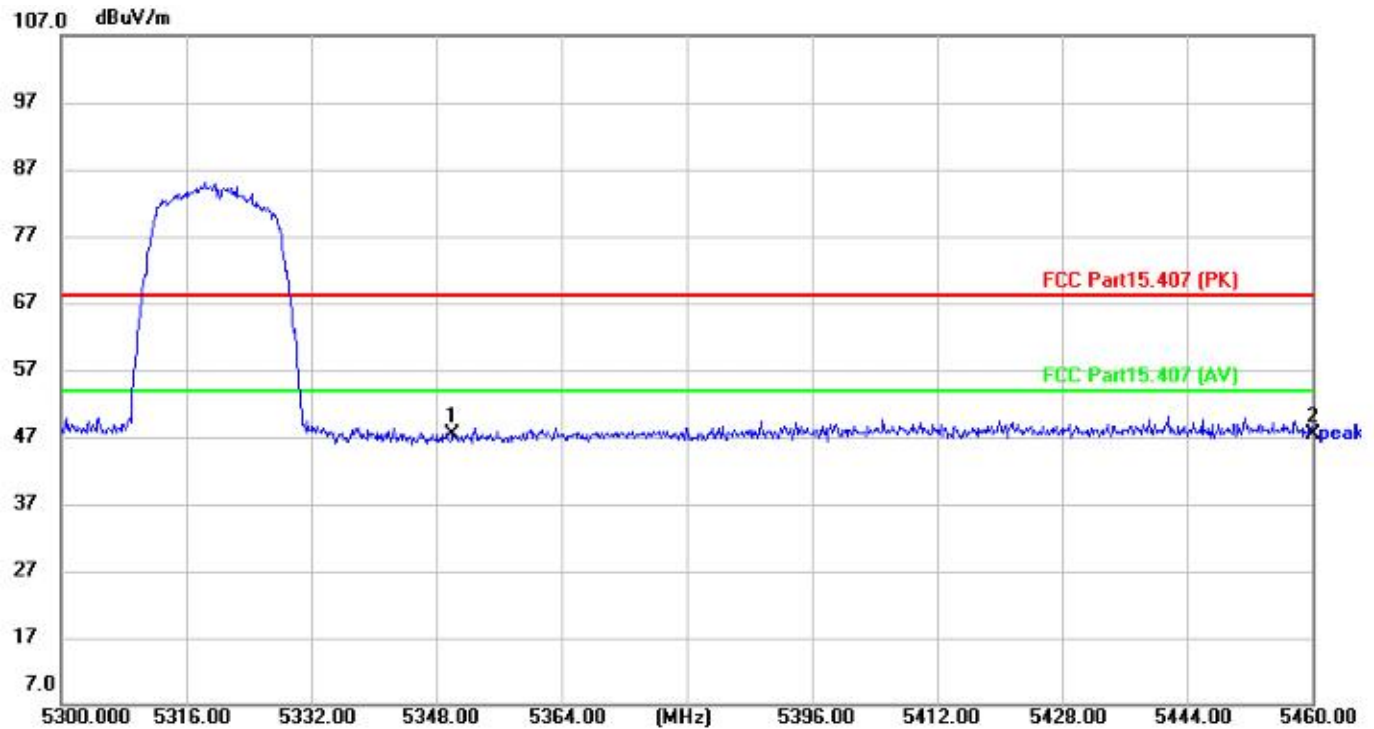
[Test mode: TX high channel 802.11a 5320MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		5350.000	41.58	5.21	46.79	68.20	-21.41	peak
2	*	5460.000	41.18	5.91	47.09	68.20	-21.11	peak

Test Result: Pass

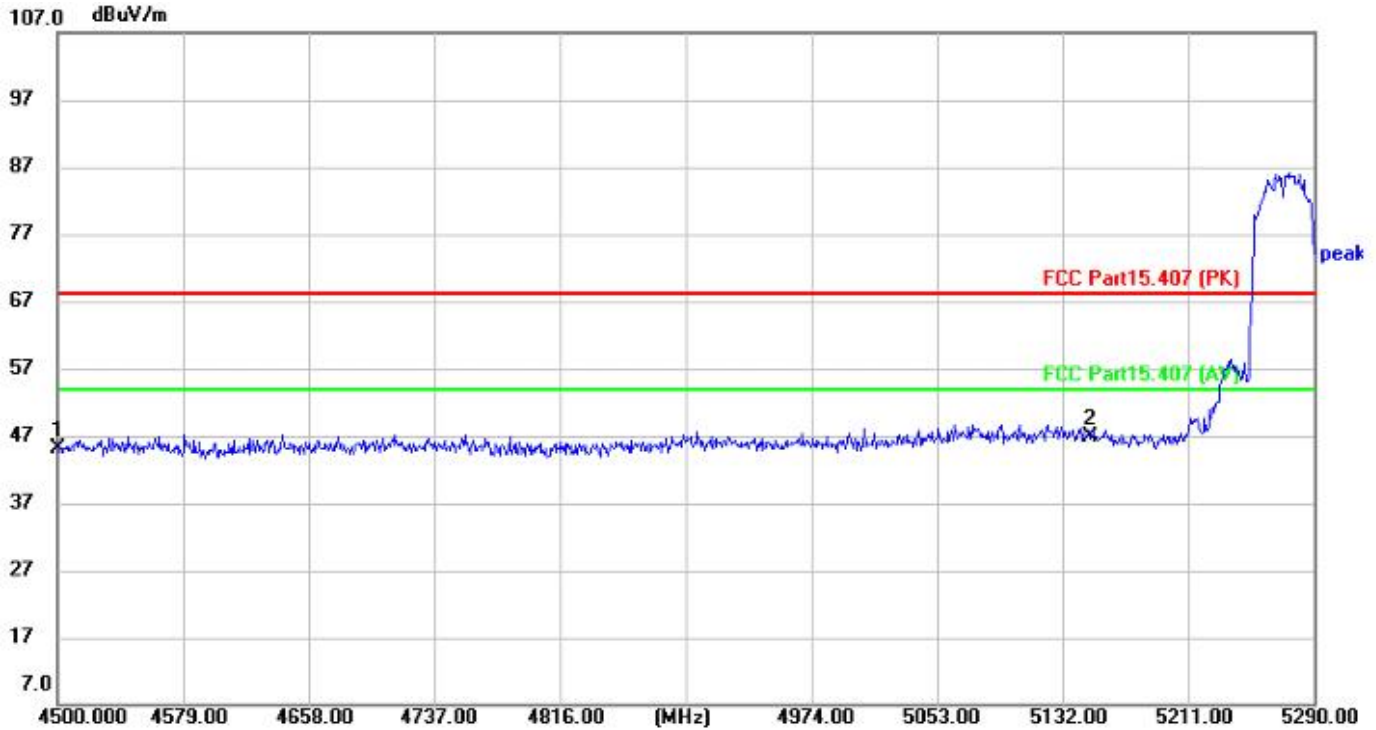
[Test mode:TX high channel 802.11a 5320MHz]; [Polarity: Vertical]



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dBuV/m	dB	
1		5350.000	42.17	5.21	47.38	68.20	-20.82	peak
2	*	5460.000	41.58	5.91	47.49	68.20	-20.71	peak

Test Result: Pass

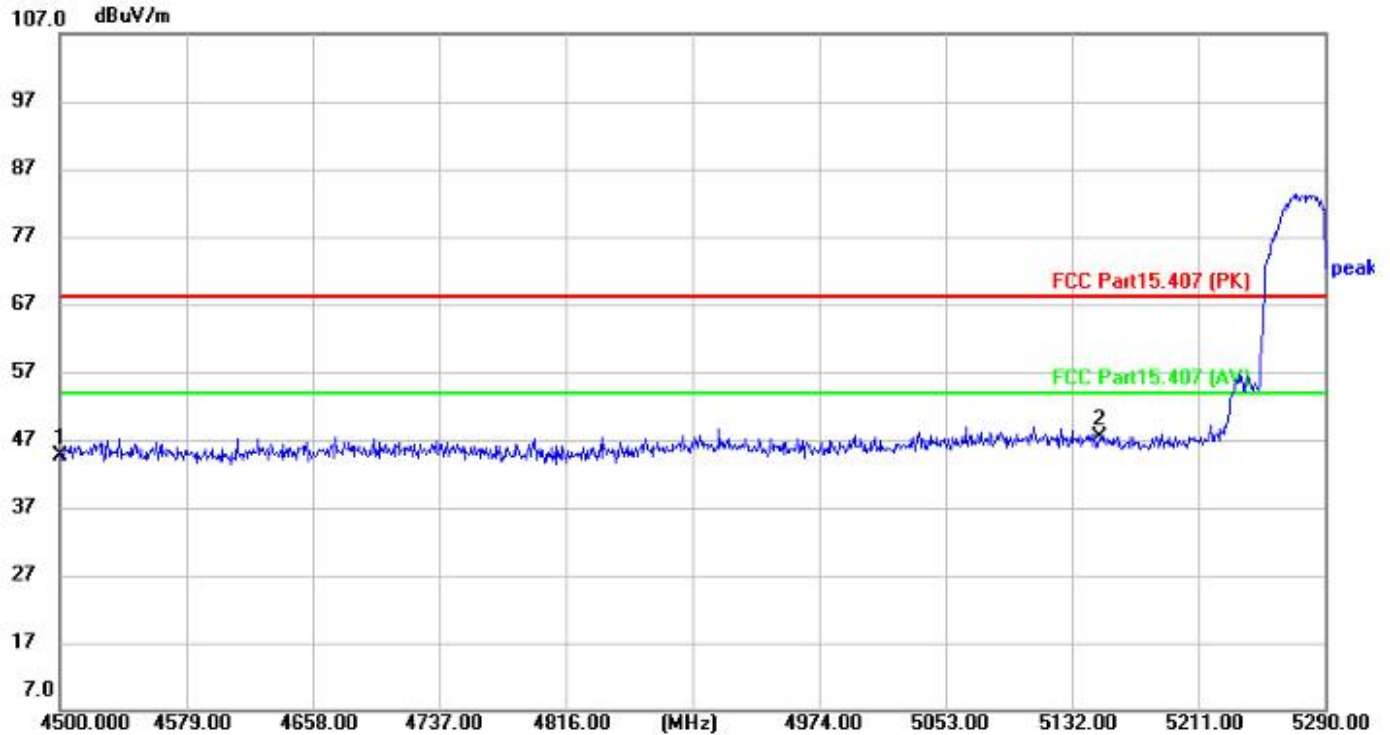
[Test mode: TX low channel 802.11n40 5270MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	42.13	3.02	45.15	68.20	-23.05	peak
2	*	5150.000	40.85	5.93	46.78	68.20	-21.42	peak

Test Result: Pass

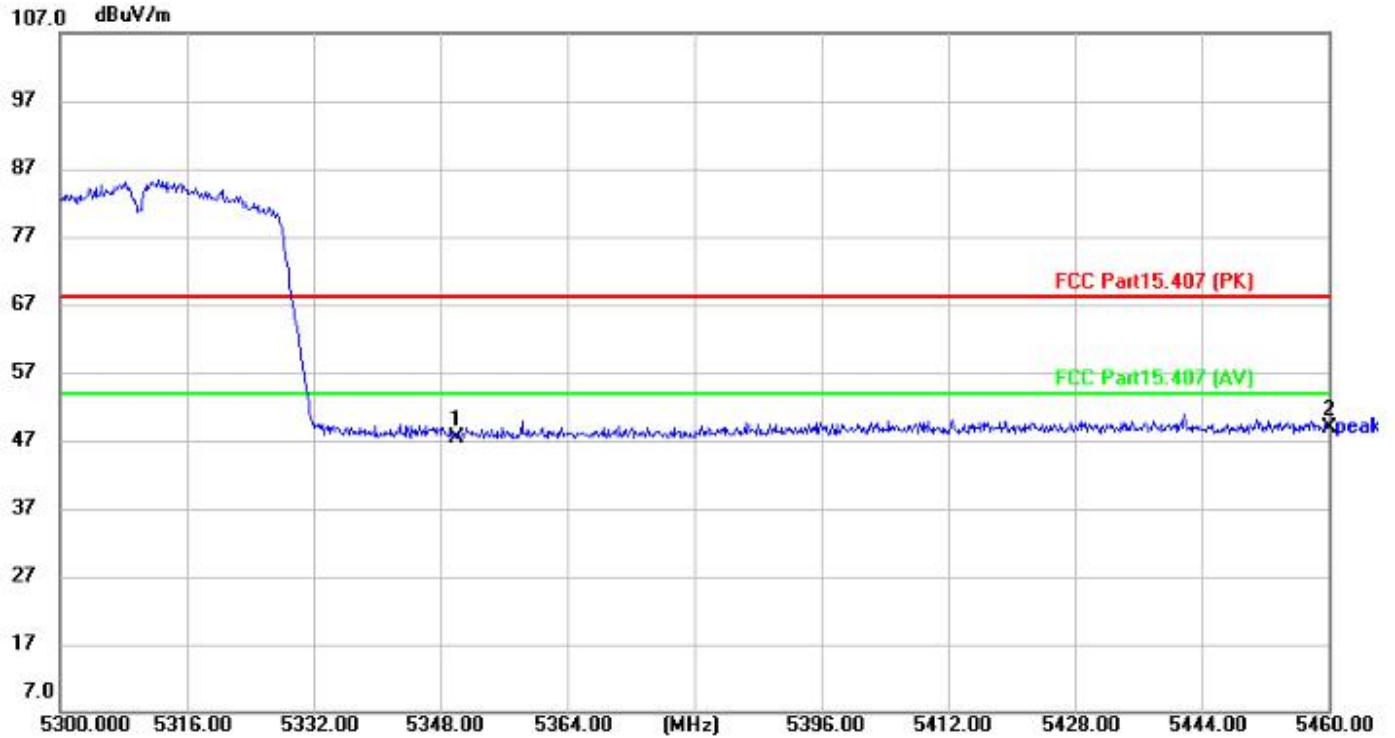
[Test mode:TX low channel 802.11n40 5270MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	41.72	3.02	44.74	68.20	-23.46	peak
2	*	5150.000	41.54	5.93	47.47	68.20	-20.73	peak

Test Result: Pass

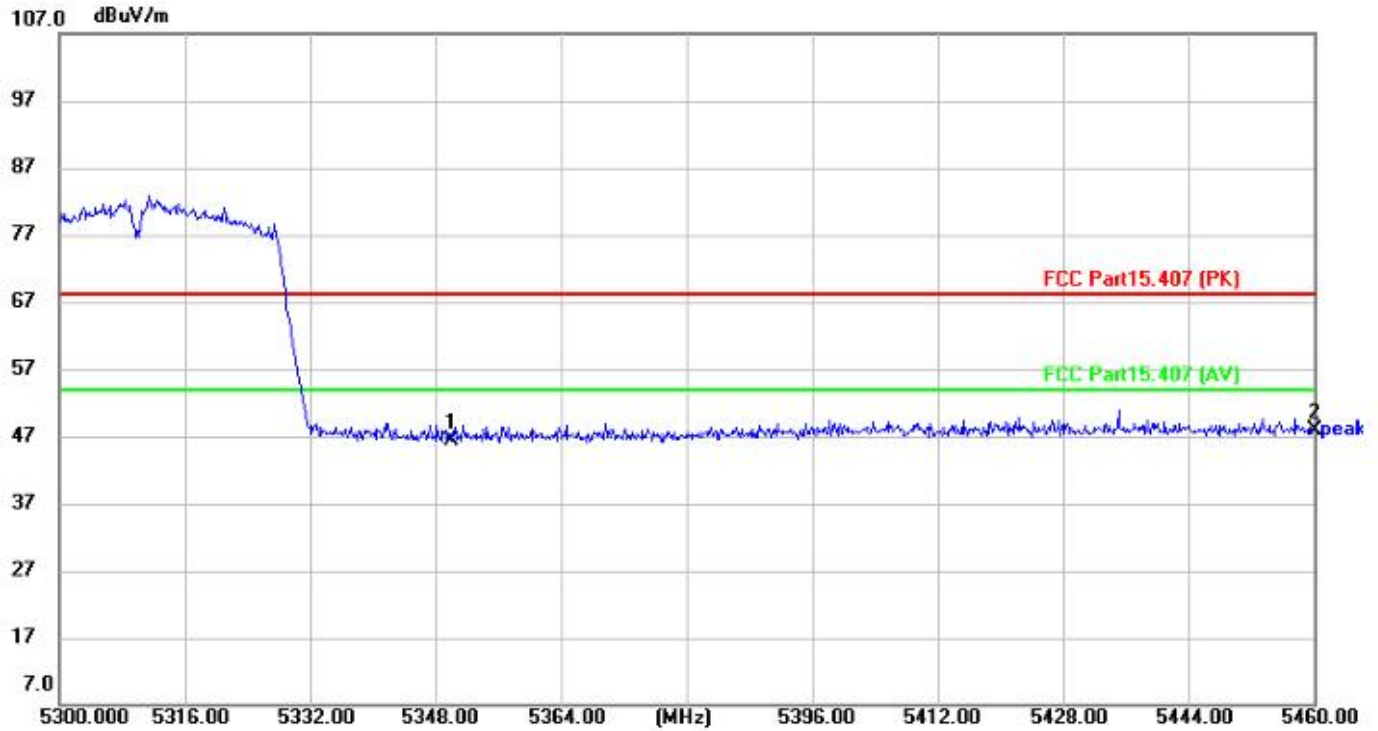
[Test mode: TX high channel 802.11n40 5310MHz]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5350.000	42.05	5.21	47.26	68.20	-20.94	peak
2	*	5460.000	42.86	5.91	48.77	68.20	-19.43	peak

Test Result: Pass

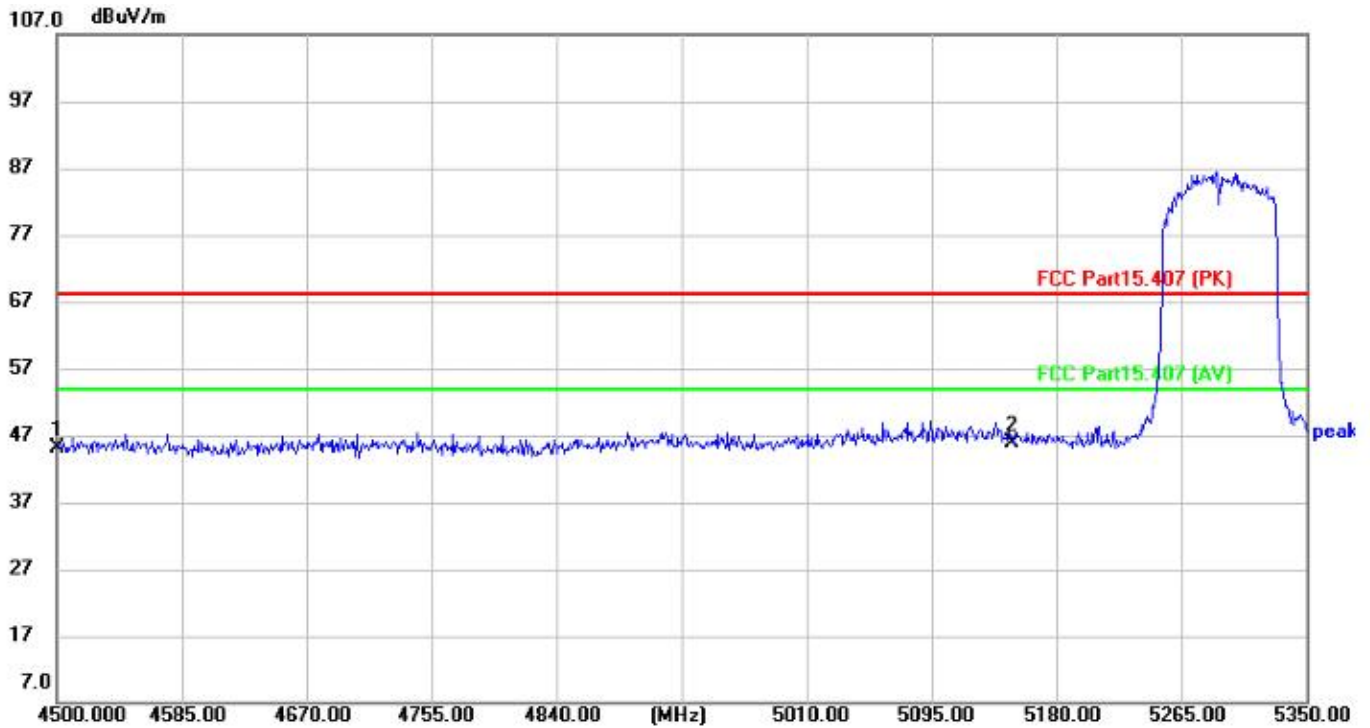
[Test mode:TX high channel 802.11n40 5310MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5350.000	41.11	5.21	46.32	68.20	-21.88	peak
2	*	5460.000	41.96	5.91	47.87	68.20	-20.33	peak

Test Result: Pass

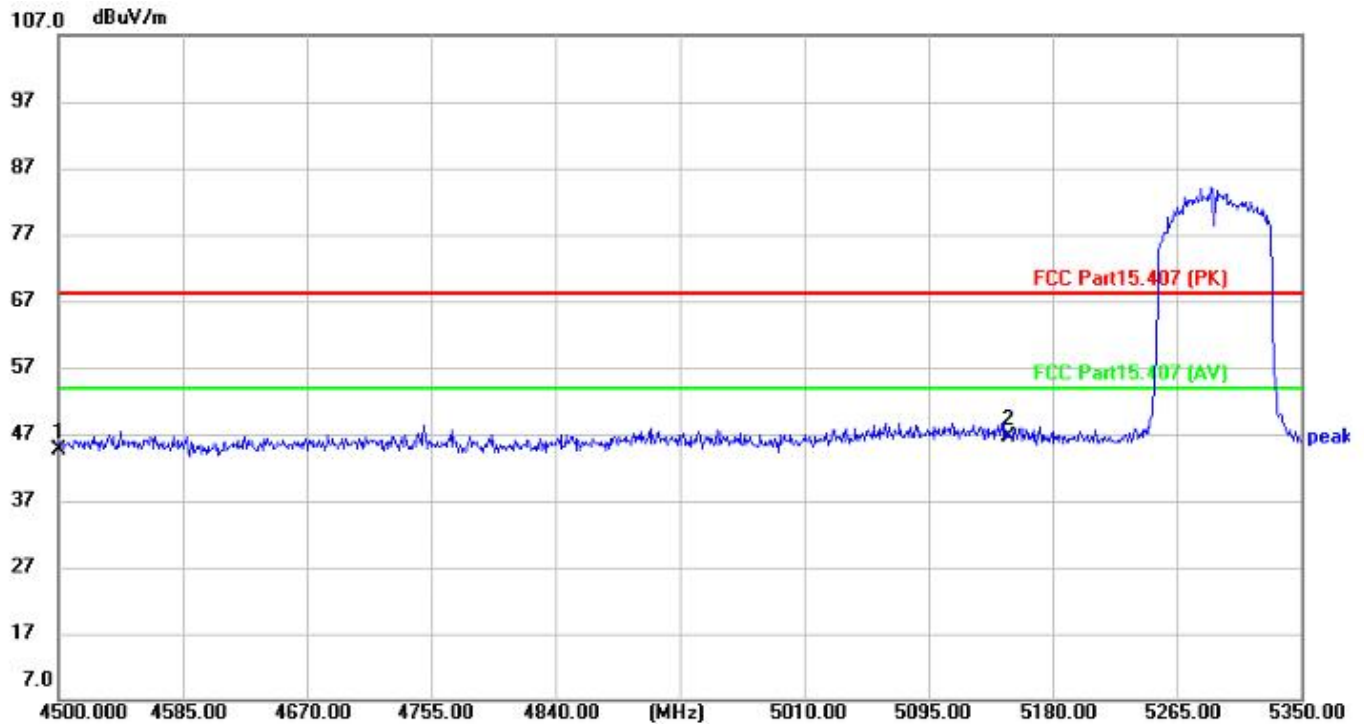
[Test mode: TX 802.11ac 80 5290MHz]; [Polarity: Horizontal]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4500.000	41.99	3.02	45.01	68.20	-23.19	peak
2	*	5150.000	40.04	5.93	45.97	68.20	-22.23	peak

Test Result: Pass

[Test mode: TX 802.11ac 80 5290MHz]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4500.000	41.65	3.02	44.67	68.20	-23.53	peak
2	*	5150.000	40.73	5.93	46.66	68.20	-21.54	peak

Test Result: Pass