Test Report No.:
FCCSZ2025-0033-RF2

RF Test Report

FCC ID	:	**2ASWV-PG17MAX**
EUT	:	**Dash Cam**
BRAND NAME	:	**N/A**
APPLICANT	:	**Shenzhen LINGDU Auto Electronics Co., Ltd.**
Classification Of Test	:	**N/A**

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant	**Name: Shenzhen LINGDU Auto Electronics Co., Ltd.** **Address: Room2901, Unit 1, Building 1, Lechuanghui Building Guihua Community, Guanlan Street, Longhua District, ShenZhen, China**
Manufacturer	**Name: Shenzhen LINGDU Auto Electronics Co., Ltd.** **Address: Room2901, Unit 1, Building 1, Lechuanghui Building Guihua Community, Guanlan Street, Longhua District, ShenZhen, China**
Equipment Under Test	**Product Name:Dash Cam** **Model/Type: See Section 2.5** **Brand Name: N/A** **Serial NO.: N/A** **Sample NO.:3-1**

Date of Receipt.	**Apr.14,2025**	Date of Testing	**Apr.14,2025～May.24,2025**

Test Specification	Test Result
FCC Part 15, Subpart E (15.407)	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC **Issue Date: May.24,2025**

Compiled by:	Reviewed by:	Approved by:
Cai Jianyu	Mo Xianbiao	Dong Sanbi
Name Signature	Name Signature	Name Signature

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

TABLE OF CONTENTS

RELEASE CONTROL RECORD **4**

1 SUMMARY OF TEST RESULTS **5**

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS 6
1.2 MEASUREMENT UNCERTAINTY 7
1.3 TEST LOCATION 8

2 GENERAL INFORMATION **9**

2.1 GENERAL PRODUCT INFORMATION 9
2.2 CARRIER FREQUENCY AND CHANNEL 10
2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL 13
2.4 DESCRIPTION OF SUPPORT UNITS 14
2.5 ADDITONAL MEODL/TYPE 14
2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS 14

3 TEST TYPES AND RESULTS **15**

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT 15
3.2 OCCUPIED BANDWIDTH MEASUREMENT 41
3.3 26DB EMISSION BANDWIDTH 42
3.4 6DB EMISSION BANDWIDTH 43
3.5 TRANSMIT POWER MEASUREMENT 44
3.6 POWER SPECTRAL DENSITY MEASUREMENT 45
3.7 FREQUENCY STABILITY 46
3.8 ANTENNA REQUIREMENT 47

4 PHOTOGRAPHS OF TEST SETUP **48**

5 PHOTOGRAPHS OF THE EUT **49**

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0033-RF2	Original release	**May.24,2025**

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPARTE (SECTION 15.407)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
FCC 15.207	AC Power Conducted Emission	NA	NA
FCC 15.407(a)(e)	6dB&26dB Emission Bandwidth	PASS	Appendix A1&A3 of FCCSZ2025-0033-RF2-A1
---	Occupied Bandwidth Measurement	ONLY FOR REPORTED	Appendix A2 of FCCSZ2025-0033-RF2-A1
FCC 15.407(b)	Radiated Emission and Bandedge	PASS	See section 3.2
FCC 15.407(a)	Transmit Power	PASS	Appendix C of FCCSZ2025-0033-RF2A1&A2&A3
FCC 15.407(a)	Power Spectral Density	PASS	Appendix D of FCCSZ2025-0033-RF2-A1
FCC 15.407(g)	Frequency Stability	PASS	Appendix E of FCCSZ2025-0033-RF2-A1
FCC 15.203 FCC 15.407(a)	Antenna Requirement	PASS	See section 3.9

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

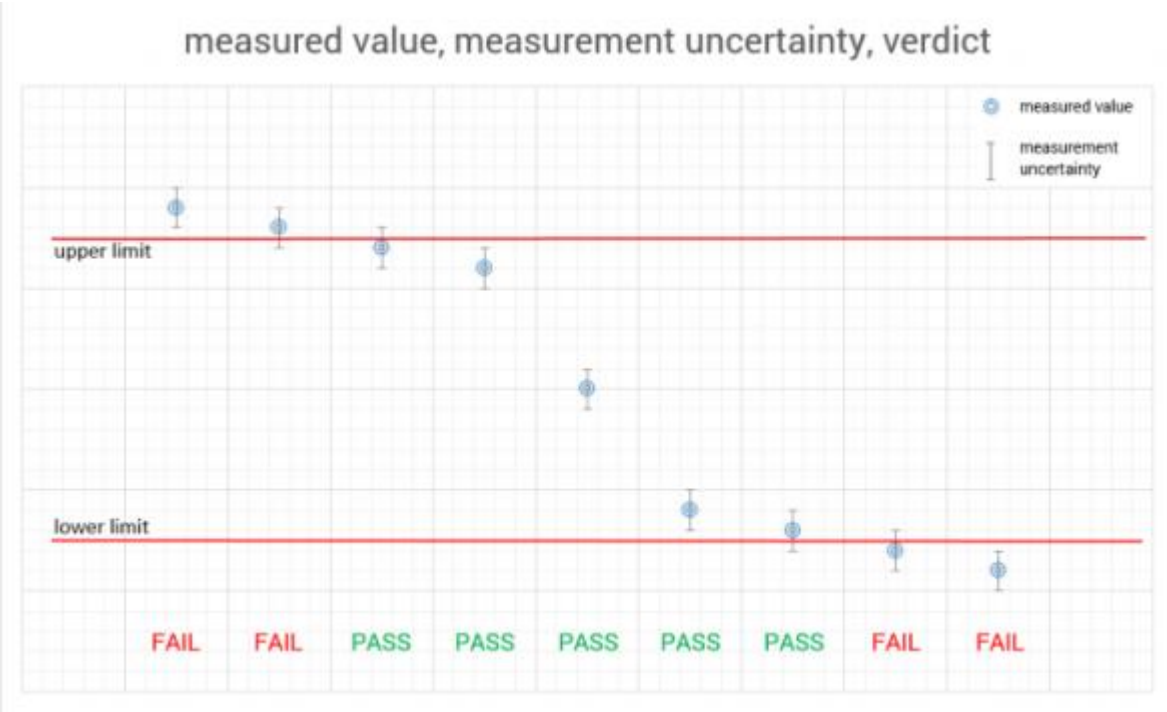
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2026/4/22
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2026/4/22
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2026/4/22
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2026/4/22
Temperature and humidity meter	/	C193561457	C193561457	1 year	2026/4/28
10db attenuator	JUNKE	SMA-10-18-N	250312743	1 year	2026/5/21
power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2026/1/7
Radiation Spurious Test - 3M Chamber #2					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2026/4/22
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2026/5/21
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	01133	1 year	2026/1/22
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2026/3/28
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2026/3/21
3m anechoic chamber	MORI	966	CS0300011	3 year	2026/5/18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2026/4/22
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2026/4/22
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2026/4/22
Preamplifier(18GHz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2026/4/22
Temperature and humidity meter	/	C193561517	C193561517	1 year	2026/4/28
Radiation Spurious Test - 3M Chamber #1					
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2026/5/21
Loop antenna(8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2025/6/3
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2026/2/27
Horn antenna(1GHz-18GHz)	SCHWARZBECK	BBHA9120D	02793	1 year	2026/1/20
3m anechoic chamber	MORI	966	N/A	1 year	2026/5/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Attenuator	/	SJ-5dB	607684	1 year	2026/2/27
#1 control room	MORI	433	/	1 year	2026/5/16
Temperature and humidity meter	/	C193561473	C193561473	1 year	2026/4/28
Conducted emission					
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2026/5/21
limiter(10 dB)	Rohde&Schwarz	VTSD 9561	01216	1 year	2026/4/22
Voltage probe	Rohde&Schwarz	CVP9222C	00028	1 year	2026/4/28
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2026/4/22
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2026/4/22
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2026/4/22
#1Shielding room	MORI	854	N/A	3 year	2026/5/16
LISN	SCHWARZBECK	NSLK 8129	05021	1 year	2026/4/22
Temperature and humidity meter	/	C193561430	C193561430	1 year	2026/4/28
Note:The RF test system integrates Power sensor and Power meter.					

1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

No.	Item	Measurement Uncertainty
1	Conducted emission test	+/-2.7 dB
2	Radiated emission 9kHz-30MHz	+/-5.6 dB
3	Radiated emission 30MHz-1GHz	+/-4.6 dB
4	Radiated emission 1GHz-18GHz	+/-4.4 dB
5	Radiated emission 18GHz-40GHz	+/-5.1 dB
6	RF power	+/-0.9 dB
7	Power Spectral Density	+/-0.8 dB
8	Conducted spurious emissions	+/-2.7 dB
9	Transmission Time	+/-0.27%
10	Occupied Bandwidth	+/-1.86%
Remark: 95% Confidence Levels, k=2.		

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.
The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.



1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong,China

Post Code：518110 Tel：0755-23763060-8805
Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn
FCC(Test firm designation number：CN1363)
IC(Test firm CAB identifier number：CN0137)
CNAS(Test firm designation number：L16091)

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Dash Cam		
BRAND	N/A		
TEST MODEL	PG17 Max		
ADDITIONAL MODEL	See section2.5		
POWER SUPPLY	DC 5V		
MODULATION TECHNOLOGY	OFDM		
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK for OFDM		
TRANSFER RATE	802.11a: up to 54Mbps, 802.11n: up to MCS7		
OPERATING FREQUENCY AND MAXIMUM POWER	Frequency	MAX output power(dBm)	MAX.EIPR(dBm)
	5180 ~ 5240MHz	15.50	17.48
	5260 ~ 5320MHz	16.02	18
	5500 ~ 5700MHz	15.39	17.37
	5745 ~ 5825MHz	17.04	19.02
NUMBER OF CHANNEL	See section 2.2		
ANTENNA TYPE(NOTE 4)	FPC Antenna with 1.98dBi gain		
FIX FREQUENCY SOFTWARE	secureCRT		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to report (Report NO.: FCCSZ2025-0033-EUT).
4. Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
5. At the same time, EUT incorporates a SISO function. Physically, the EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11a	SISO
802. 11n	SISO

2.2 CARRIER FREQUENCY AND CHANNEL

FOR 5180 ~ 5320MHz

8 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	**5180MHz**	**40**	**5200MHz**
44	5220 MHz	**48**	**5240MHz**
52	**5260MHz**	**56**	**5280MHz**
60	5300MHz	**64**	**5320MHz**

4 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	**5190MHz**	**46**	**5230 MHz**
54	**5270MHz**	**62**	**5310MHz**

WLAN 5.50 ~ 5.70GHz

11 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	**5500MHz**	124	5620MHz
104	5520MHz	128	5640MHz
108	5540MHz	132	5660MHz
112	5560MHz	136	5680MHz
116	**5580MHz**	**140**	**5700MHz**
120	5600MHz	--	--

5 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	**5510MHz**	126	5630MHz
110	**5550MHz**	**134**	**5670MHz**
118	5590MHz	--	--

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	**5745MHz**	153	5765MHz
157	**5785MHz**	161	5805MHz
165	**5825MHz**	--	--

2 channels are provided for 802.11n (HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	**5755MHz**	**159**	**5795MHz**

The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

Operated in 5180 ~ 5240MHz band					
802.11a		802.11n(HT20)		802.11n(HT40)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5180	110	**5180**	110	**5190**	100
5200	110	**5200**	110	**5230**	100
5240	110	**5240**	110	**--**	**--**
Operated in 5260 ~ 5320MHz band					
802.11a		802.11n(HT20)		802.11n(HT40)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5260	110	**5260**	110	**5270**	100
5280	110	**5280**	110	**5310**	100
5320	110	**5320**	110	**--**	**--**
Operated in 5500 ~ 5700MHz band					
802.11a		802.11n(HT20)		802.11n(HT40)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5500	110	**5500**	110	**5510**	100
5580	110	**5580**	110	**5550**	100
5700	110	**5700**	110	**5670**	100
Operated in 5745 ~ 5825MHz band					
802.11a		802.11n(HT20)		802.11n(HT40)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5745	110	**5745**	110	**5755**	100
5785	110	**5785**	110	**5795**	100
5825	110	**5825**	110	**--**	**--**

2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	X	√	**Powered by host unit with wifi(5G) link**

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.
   NOTE: "-"means no effect.

The worst case Antenna mode for each of the following tests for Wi-Fi:

MODULATION	DATA RATE
802.11a	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(System)	TESTED BY
RE<1G	25deg. C, 54%RH	AC 110V/50Hz	Liu Yuan
RE≥1G	25deg. C, 54%RH	AC 110V/50Hz	Liu Yuan
APCM	20deg. C, 55%RH	AC 110V/50Hz	Cai Jianyu

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment					
NO	Description	Brand	Model No.	Serial Number	Supplied by
1	Laptop	Lenovo	K4e-ARE120	MP20kshe	Lab

Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2.5 ADDITONAL MEODL/TYPE

Test Model	Additional Model	Difference
PG17 Max	N1, PG17, AR09, PG17 Pro, PG17 Ultra，PG17 Lite，AR09 Pro, AR09 Lite，AR12，LD4K，LD2K	Just difference is the model name,others are the same.

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bandsmust comply with the radiated emission limits specified as below table:

FREQUENCIES (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

NOTE:
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK:74 (dBμV/m)	AV:54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**EQUIVALENT FIELD STRENGTH AT 3m**
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:
For transmitters operating in the 5.725-5.85 GHz band:Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above orbelow the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

3.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz)and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

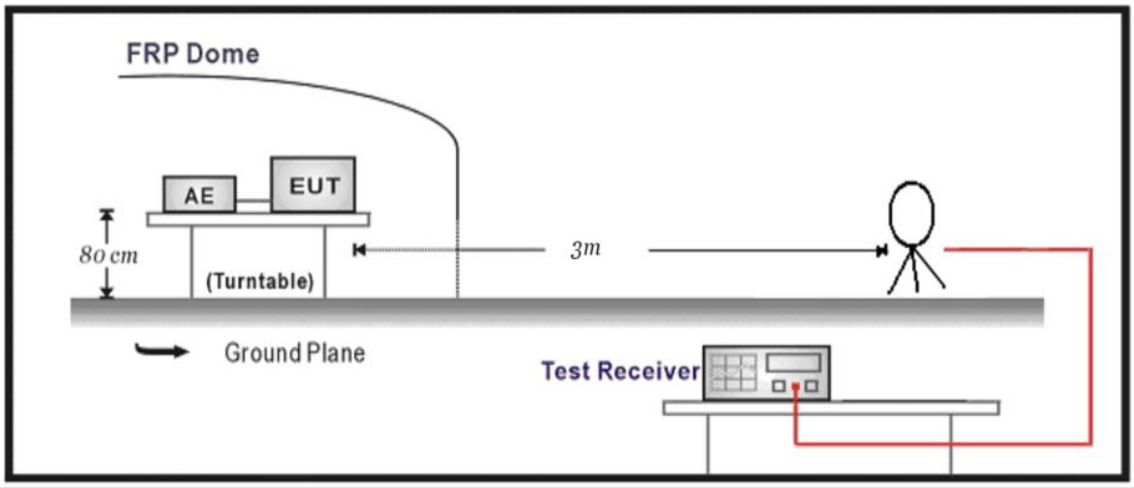
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

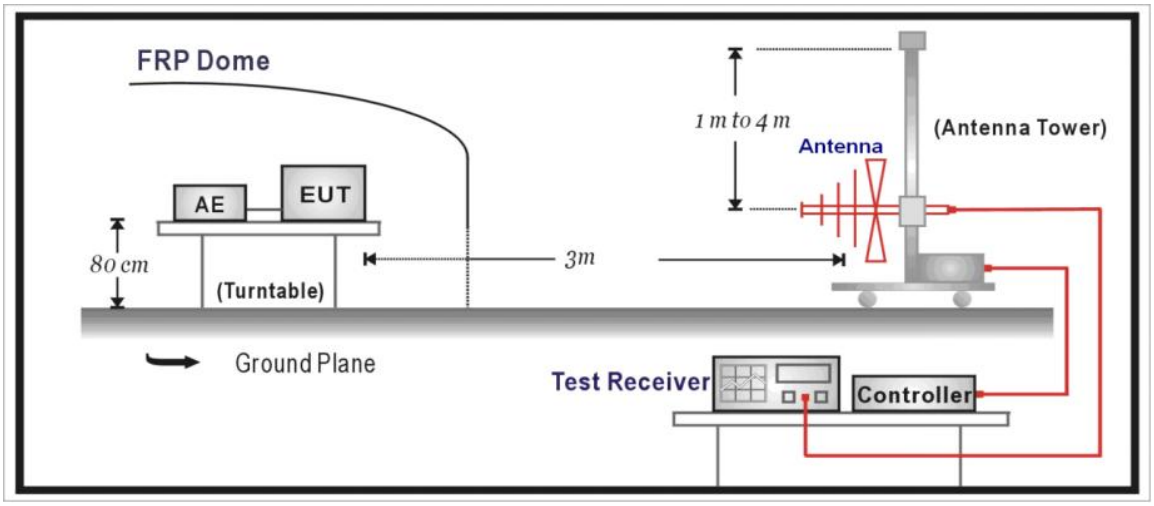
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 TEST SETUP

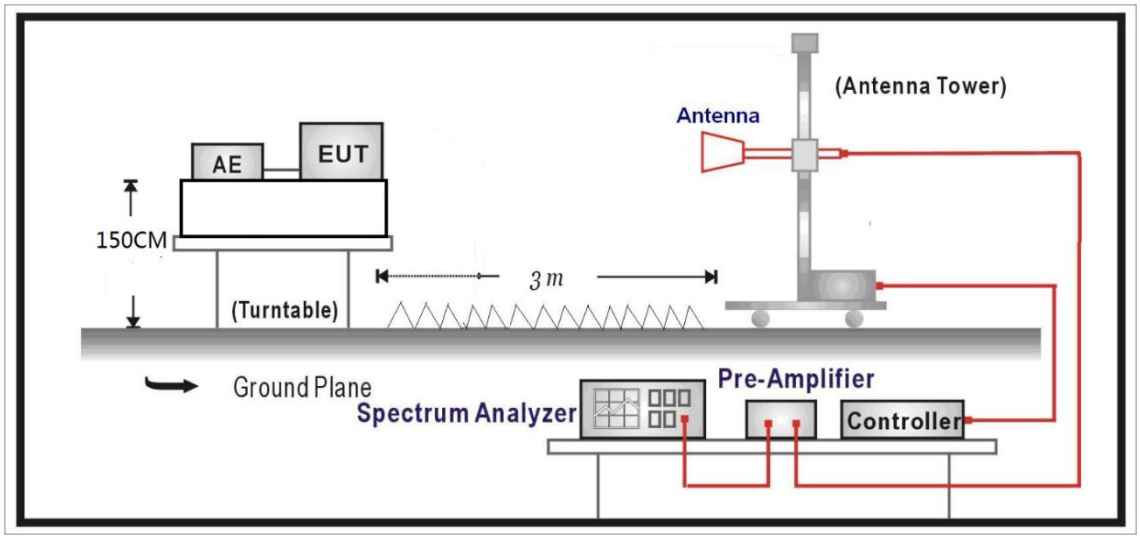
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:

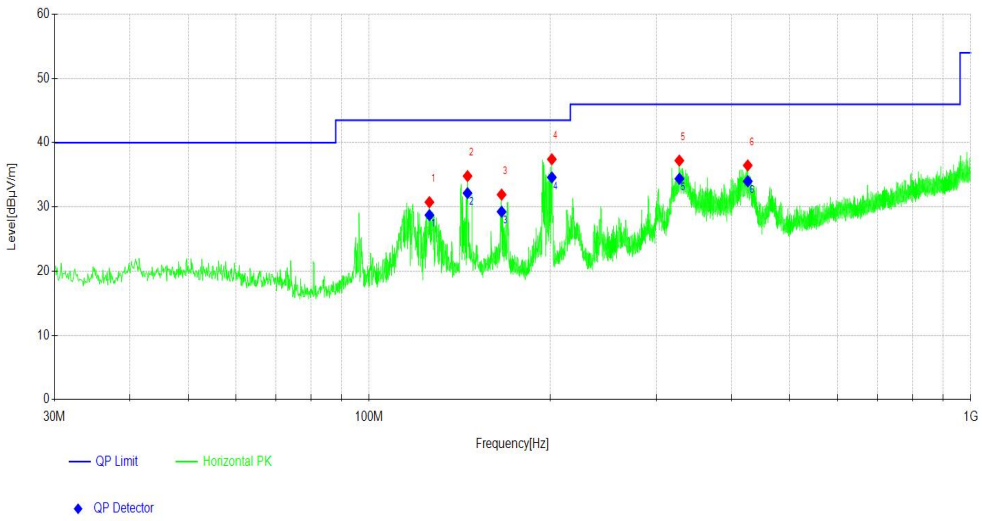


Note: For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Setup)

3.1.5 TEST RESULTS - BELOW 1GHz

Test Mode:	11a 5180MHz	Frequency Range	9kHz-1000MHz
Detector Function	Quasi-Peak(QP)		

Horizontal



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	125.943	12.09	18.66	30.75	43.50	12.75	200	159
2	145.733	14.86	19.95	34.81	43.50	8.69	200	256
3	166.008	11.96	19.96	31.92	43.50	11.58	200	66
4	201.222	20.06	17.37	37.43	43.50	6.07	200	2
5	327.820	15.84	21.38	37.22	46.00	8.78	100	191
6	425.897	12.61	23.86	36.47	46.00	9.53	100	212

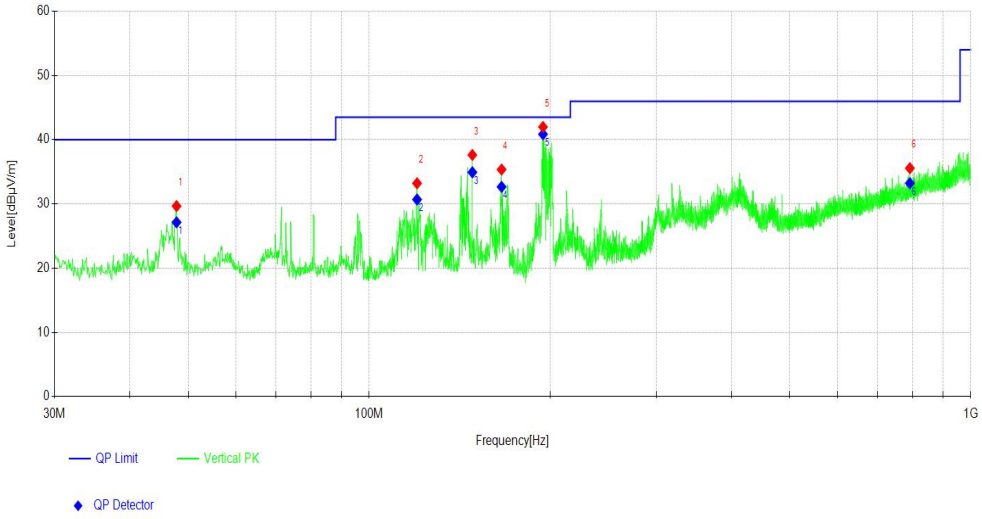
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	125.943	18.66	28.73	43.50	14.77	200	159	Horizontal
2	145.733	19.95	32.15	43.50	11.35	200	256	Horizontal
3	166.008	19.96	29.26	43.50	14.24	200	66	Horizontal
4	201.222	17.37	34.60	43.50	8.90	200	2	Horizontal
5	327.820	21.38	34.39	46.00	11.61	100	191	Horizontal
6	425.897	23.86	34.00	46.00	12.00	100	212	Horizontal

Remark: 1. The emission levels of 9k - 30MHz were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Test Mode:	11a 5180MHz	Frequency Range	9kHz-1000MHz
Detector Function	Quasi-Peak(QP)		

Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	47.850	9.52	20.15	29.67	40.00	10.33	200	267
2	120.122	15.17	18.05	33.22	43.50	10.28	100	186
3	148.449	17.54	20.09	37.63	43.50	5.87	100	278
4	166.008	15.40	19.96	35.36	43.50	8.14	100	245
5	194.528	24.84	17.15	41.99	43.50	1.51	100	304
6	792.205	5.34	30.23	35.57	46.00	10.43	200	188

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.850	20.15	27.14	40.00	12.86	200	267	Vertical
2	120.122	18.05	30.69	43.50	12.81	100	186	Vertical
3	148.449	20.09	34.93	43.50	8.57	100	278	Vertical
4	166.008	19.96	32.66	43.50	10.84	100	245	Vertical
5	194.528	17.15	40.85	43.50	2.65	100	304	Vertical
6	792.205	30.23	33.23	46.00	12.77	200	188	Vertical

Remark: 1. The emission levels of 9k - 30MHz were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

3.1.6 TEST RESULTS - Band 1 (5180-5240MHz):

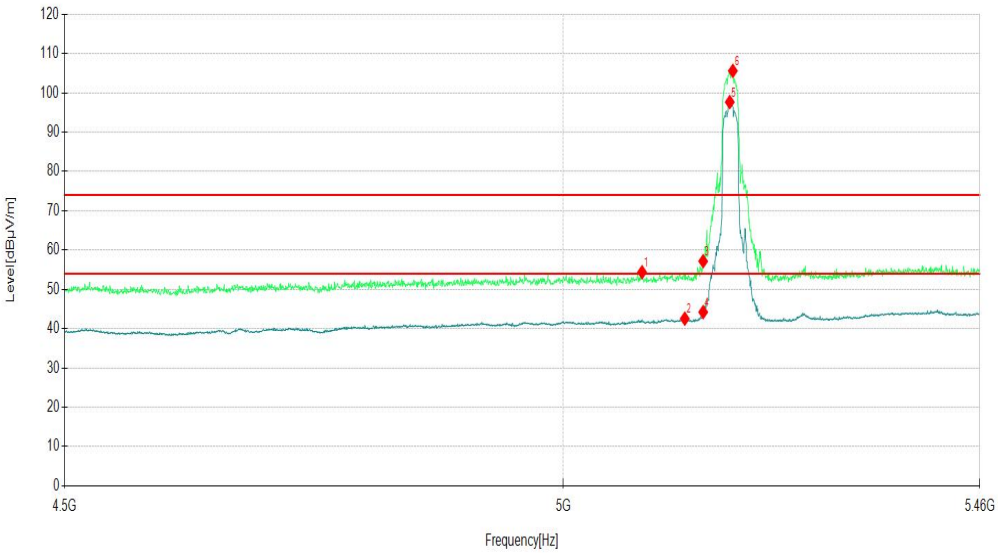
ABOVE 1GHz DATA

All test modes have been conducted, and the report only presents the worst case.

Channel	**802.11a CH36**	**Frequency**	5180 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5083.97	46.59	7.77	54.36	74.00	19.64	PK
2	5130.08	34.29	8.25	42.54	54.00	11.46	AV
3	5150.00	49.12	8.03	57.15	74.00	16.85	PK
4	5150.00	36.19	8.03	44.22	54.00	9.78	AV
5	5179.06	89.86	7.80	97.66			AV
6	5182.42	97.87	7.72	105.59			PK
7	10360.00	35.14	15.59	50.73	68.20	17.47	PK
8	10360.00	27.65	15.59	43.24	54.00	10.76	AV
9	15540.00	31.58	21.44	53.02	74.00	20.98	PK
10	15540.00	21.52	21.44	42.96	54.00	11.04	AV

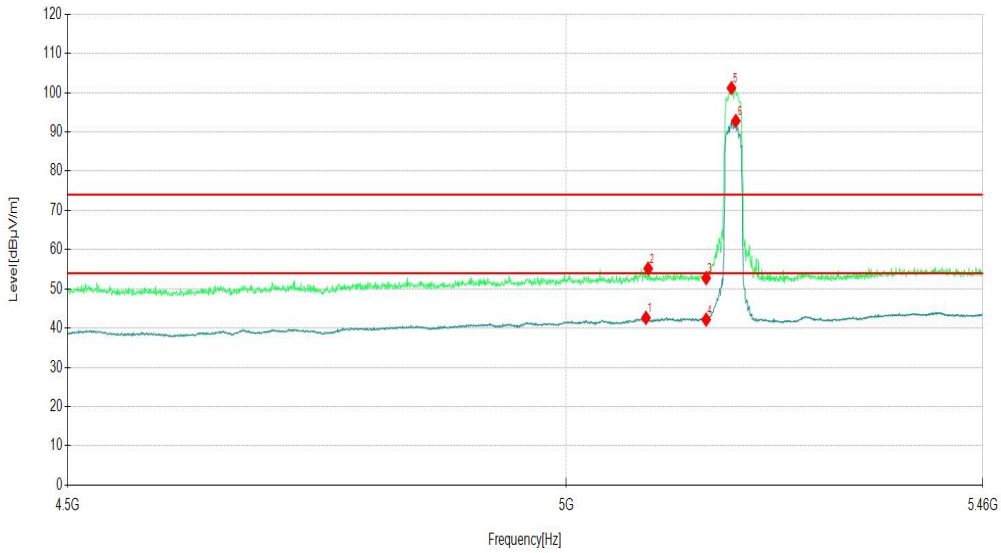


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH36	Frequency	5180 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5109.91	46.44	8.08	54.52	74.00	19.48	PK
2	5130.56	34.47	8.23	42.70	54.00	11.30	AV
3	5150.00	36.00	8.03	44.03	54.00	9.97	AV
4	5150.00	50.75	8.03	58.78	74.00	15.22	PK
5	5178.58	98.04	7.79	105.83			PK
6	5179.06	90.21	7.80	98.01			AV
7	10360.00	37.25	15.59	52.84	68.20	15.36	PK
8	10360.00	28.40	15.59	43.99	54.00	10.01	AV
9	15540.00	31.86	21.44	53.30	74.00	20.70	PK
10	15540.00	20.28	21.44	41.72	54.00	12.28	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH40	Frequency	5200 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	10400.00	34.27	15.80	50.07	68.20	18.13	PK
2	10400.00	27.43	15.80	43.23	54.00	10.77	AV
3	15600.00	28.94	21.58	50.52	74.00	23.48	PK
4	15600.00	19.27	21.58	40.85	54.00	13.15	AV

Vertical

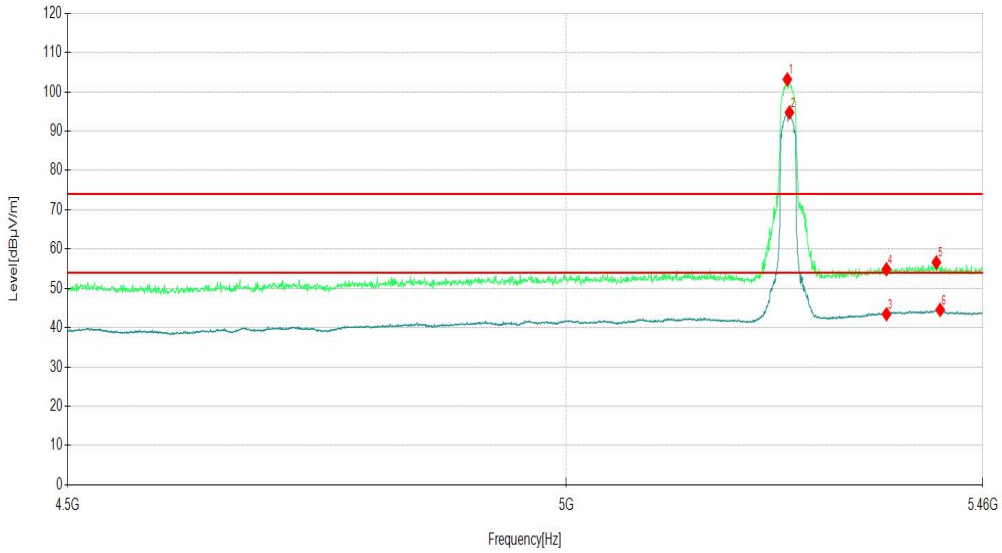
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	10400.00	35.49	15.80	51.29	68.20	16.91	PK
2	10400.00	27.43	15.80	43.23	54.00	10.77	AV
3	15600.00	28.47	21.58	50.05	74.00	23.95	PK
4	15600.00	18.96	21.58	40.54	54.00	13.46	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH48	Frequency	5240 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5239.09	95.14	8.01	103.15			PK
2	5241.49	86.72	8.02	94.74			AV
3	5350.00	33.76	9.66	43.42	54.00	10.58	AV
4	5350.00	45.21	9.66	54.87	74.00	19.13	PK
5	5406.69	46.68	9.92	56.60	74.00	17.40	PK
6	5411.02	34.58	9.96	44.54	54.00	9.46	AV
7	10480.00	32.84	15.87	48.71	68.20	19.49	PK
8	10480.00	24.95	15.87	40.82	54.00	13.18	AV
9	15720.00	26.90	22.33	49.23	74.00	24.77	PK
10	15720.00	18.41	22.33	40.74	54.00	13.26	AV

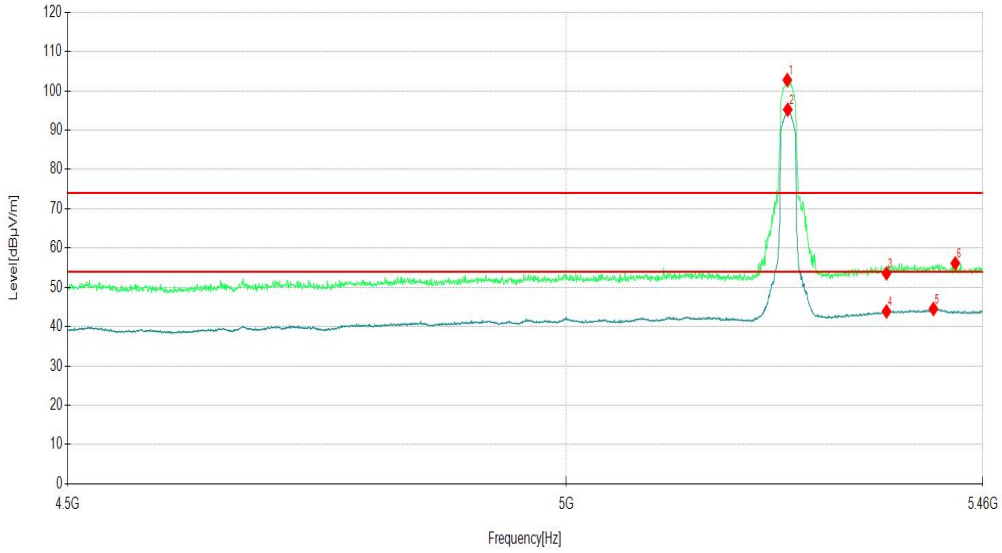


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH48	Frequency	5240 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5239.09	94.74	8.01	102.75			PK
2	5239.57	87.20	8.02	95.22			AV
3	5350.00	43.87	9.66	53.53	74.00	20.47	PK
4	5350.00	34.21	9.66	43.87	54.00	10.13	AV
5	5403.33	34.68	9.82	44.50	54.00	9.50	AV
6	5428.30	46.52	9.59	56.11	74.00	17.89	PK
7	10480.00	34.31	15.87	50.18	68.20	18.02	PK
8	10480.00	27.06	15.87	42.93	54.00	11.07	AV
9	15720.00	26.89	22.33	49.22	74.00	24.78	PK
10	15720.00	18.36	22.33	40.69	54.00	13.31	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.1.7 TEST RESULTS - Band 2 (5260-5320MHz):

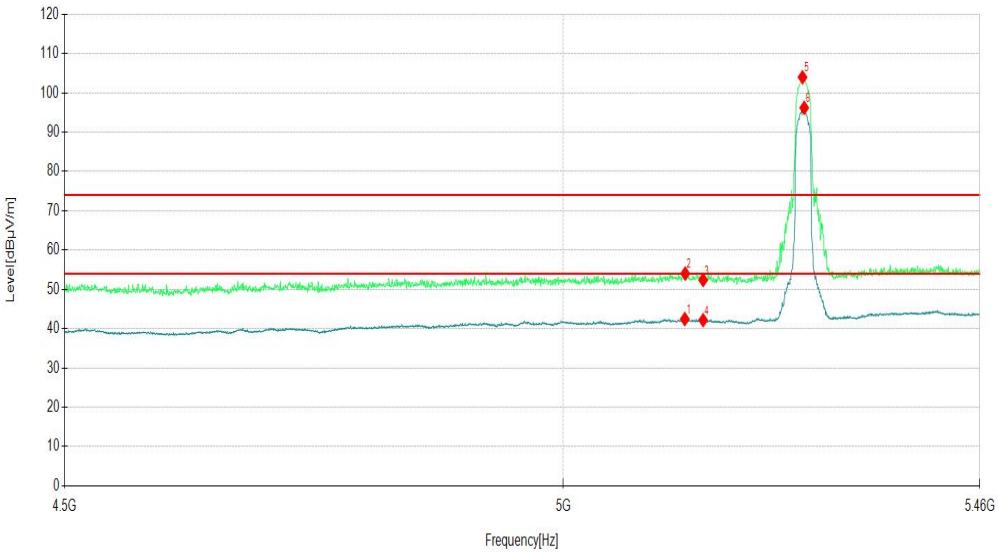
ABOVE 1GHz DATA

All test modes have been conducted, and the report only presents the worst case.

Channel	**802.11a CH52**	**Frequency**	5260 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5130.08	34.20	8.25	42.45	54.00	11.55	AV
2	5130.56	45.79	8.23	54.02	74.00	19.98	PK
3	5150.00	44.35	8.03	52.38	74.00	21.62	PK
4	5150.00	34.13	8.03	42.16	54.00	11.84	AV
5	5259.26	94.91	9.06	103.97			PK
6	5261.18	87.15	9.05	96.20			AV
7	10520.00	32.75	15.70	48.45	68.20	19.75	PK
8	10520.00	25.08	15.70	40.78	54.00	13.22	AV
9	15780.00	24.46	22.35	46.81	74.00	27.19	PK
10	15780.00	14.92	22.35	37.27	54.00	16.73	AV

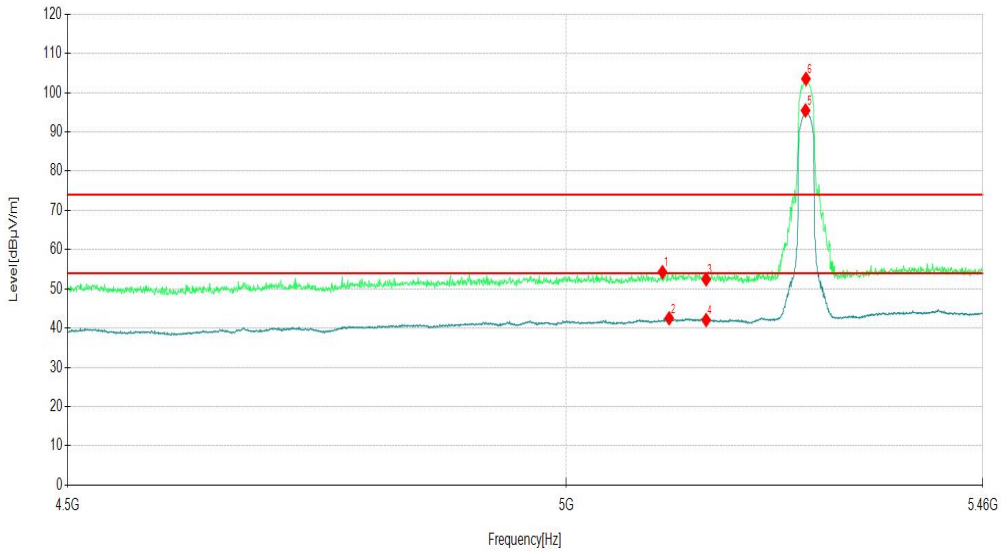


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH52	Frequency	5260 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5102.70	46.58	7.70	54.28	74.00	19.72	PK
2	5109.91	34.43	8.08	42.51	54.00	11.49	AV
3	5150.00	44.41	8.03	52.44	74.00	21.56	PK
4	5150.00	34.04	8.03	42.07	54.00	11.93	AV
5	5259.26	86.40	9.06	95.46			AV
6	5259.74	94.43	9.10	103.53			PK
7	10520.00	36.30	15.70	52.00	68.20	16.20	PK
8	10520.00	27.27	15.70	42.97	54.00	11.03	AV
9	15780.00	26.19	22.35	48.54	74.00	25.46	PK
10	15780.00	16.67	22.35	39.02	54.00	14.98	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH56	Frequency	5280 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	10560.00	34.51	15.66	50.17	68.20	18.03	PK
2	10560.00	26.53	15.66	42.19	54.00	11.81	AV
3	15840.00	27.75	22.21	49.96	74.00	24.04	PK
4	15840.00	17.25	22.21	39.46	54.00	14.54	AV

Vertical

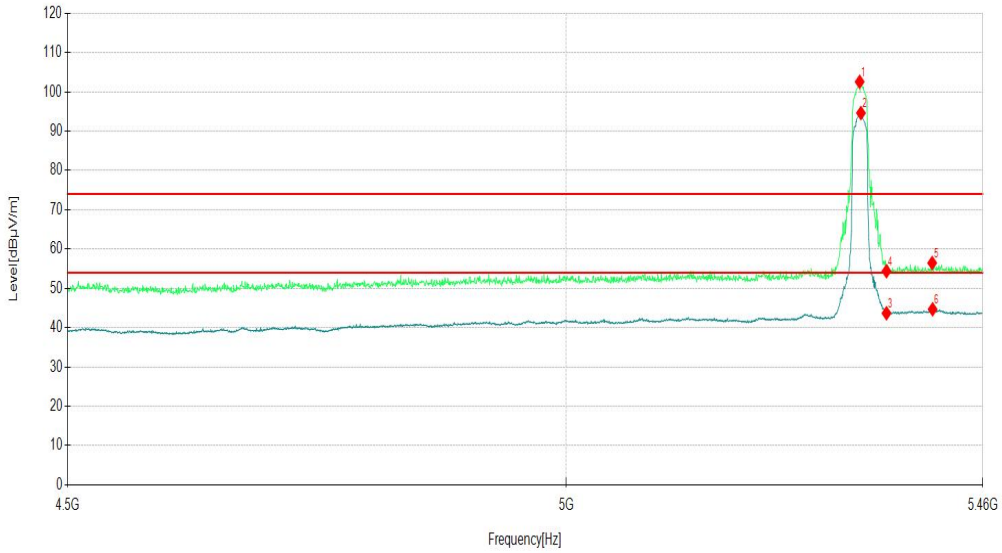
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	10560.00	36.86	15.66	52.52	68.20	15.68	PK
2	10560.00	27.94	15.66	43.60	54.00	10.40	AV
3	15840.00	27.43	22.21	49.64	74.00	24.36	PK
4	15840.00	18.56	22.21	40.77	54.00	13.23	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH64	Frequency	5320 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5319.77	93.88	8.68	102.56			PK
2	5321.21	85.86	8.74	94.60			AV
3	5350.00	34.00	9.66	43.66	54.00	10.34	AV
4	5350.00	44.71	9.66	54.37	74.00	19.63	PK
5	5401.89	46.69	9.77	56.46	74.00	17.54	PK
6	5402.37	34.90	9.78	44.68	54.00	9.32	AV
7	10640.00	31.10	15.47	46.57	74.00	27.43	PK
8	10640.00	22.82	15.47	38.29	54.00	15.71	AV
9	15960.00	23.46	22.57	46.03	74.00	27.97	PK
10	15960.00	15.04	22.57	37.61	54.00	16.39	AV

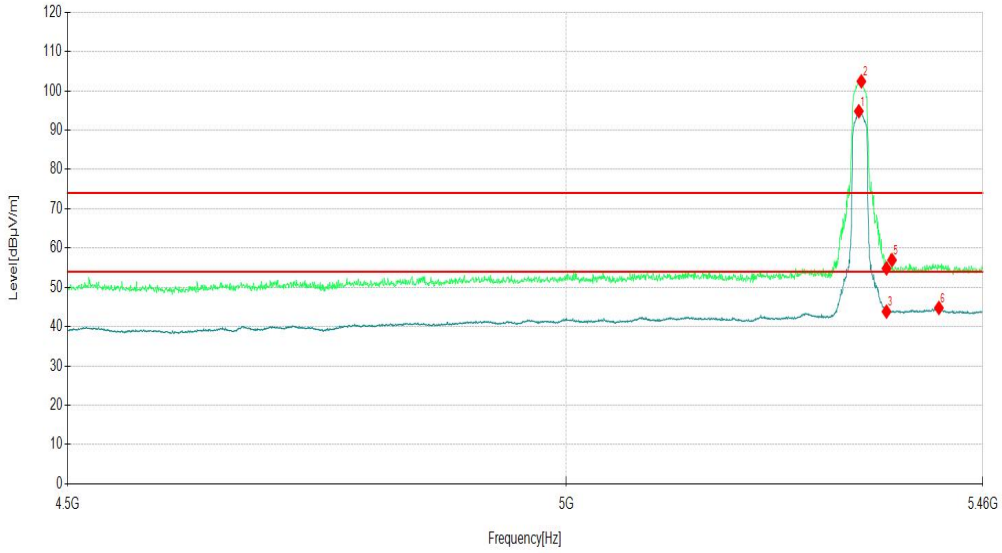


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH64	Frequency	5320 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5318.81	86.10	8.70	94.80			AV
2	5321.69	93.65	8.76	102.41			PK
3	5350.00	34.17	9.66	43.83	54.00	10.17	AV
4	5350.00	45.16	9.66	54.82	74.00	19.18	PK
5	5356.27	47.22	9.72	56.94	74.00	17.06	PK
6	5409.57	34.77	10.01	44.78	54.00	9.22	AV
7	10640.00	35.13	15.47	50.60	74.00	23.40	PK
8	10640.00	28.50	15.47	43.97	54.00	10.03	AV
9	15960.00	26.29	22.57	48.86	74.00	25.14	PK
10	15960.00	16.35	22.57	38.92	54.00	15.08	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

3.1.8 TEST RESULTS - Band 3 (5500-5700MHz):

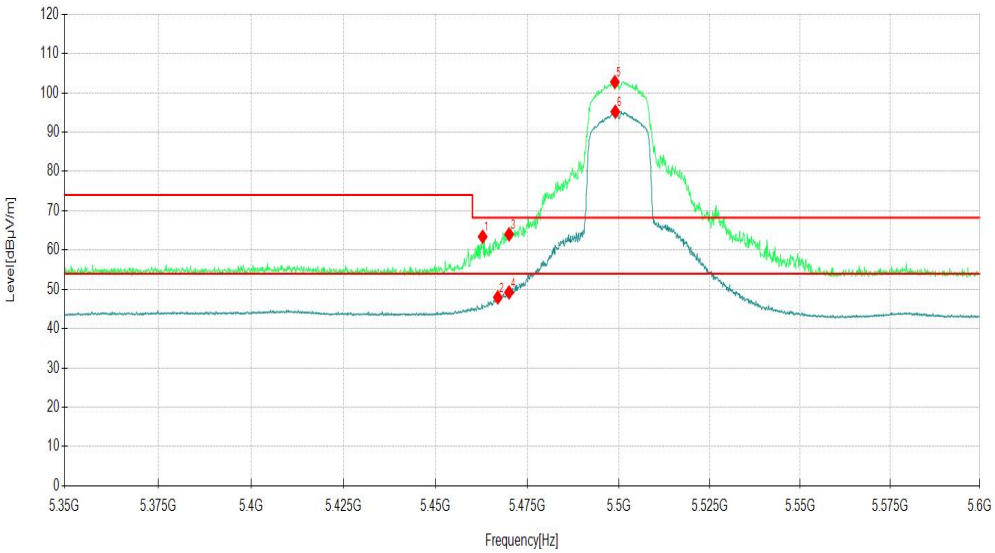
ABOVE 1GHz DATA

All test modes have been conducted, and the report only presents the worst case.

Channel	802.11a CH100	Frequency	5500 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5462.81	53.62	9.78	63.40	68.20	4.80	PK
2	5466.93	38.21	9.76	47.97	54.00	6.03	AV
3	5470.00	54.24	9.75	63.99	68.20	4.21	PK
4	5470.00	39.47	9.75	49.22	54.00	4.78	AV
5	5498.95	93.79	8.96	102.75			PK
6	5499.07	86.22	8.97	95.19			AV
7	11000.00	22.08	16.33	38.41	54.00	15.59	AV
8	11000.00	31.79	16.33	48.12	74.00	25.88	PK
9	16500.00	15.99	24.06	40.05	54.00	13.95	AV
10	16500.00	25.50	24.06	49.56	68.20	18.64	PK

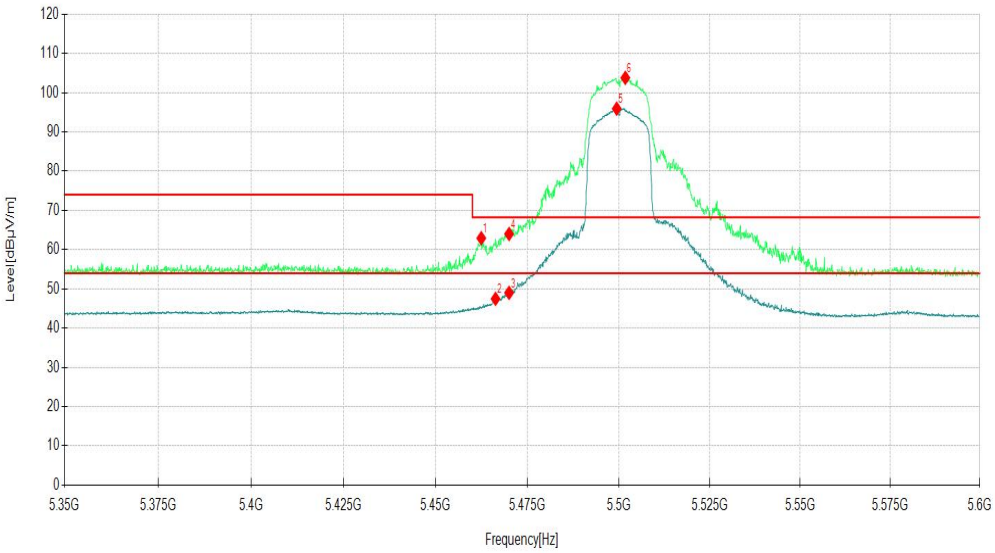


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH100	Frequency	5500 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5462.43	53.14	9.78	62.92	68.20	5.28	PK
2	5466.31	37.70	9.77	47.47	54.00	6.53	AV
3	5470.00	39.24	9.75	48.99	54.00	5.01	AV
4	5470.00	54.24	9.75	63.99	68.20	4.21	PK
5	5499.45	86.93	8.99	95.92			AV
6	5501.83	94.67	9.11	103.78			PK
7	11000.00	35.97	16.33	52.30	74.00	21.70	PK
8	11000.00	29.94	16.33	46.27	54.00	7.73	AV
9	16500.00	25.06	24.06	49.12	68.20	19.08	PK
10	16500.00	16.07	24.06	40.13	54.00	13.87	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH116	Frequency	5580 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11160.00	32.48	16.69	49.17	74.00	24.83	PK
2	11160.00	24.68	16.69	41.37	54.00	12.63	AV
3	16740.00	22.35	25.38	47.73	68.20	20.47	PK
4	16740.00	14.46	25.38	39.84	54.00	14.16	AV

Vertical

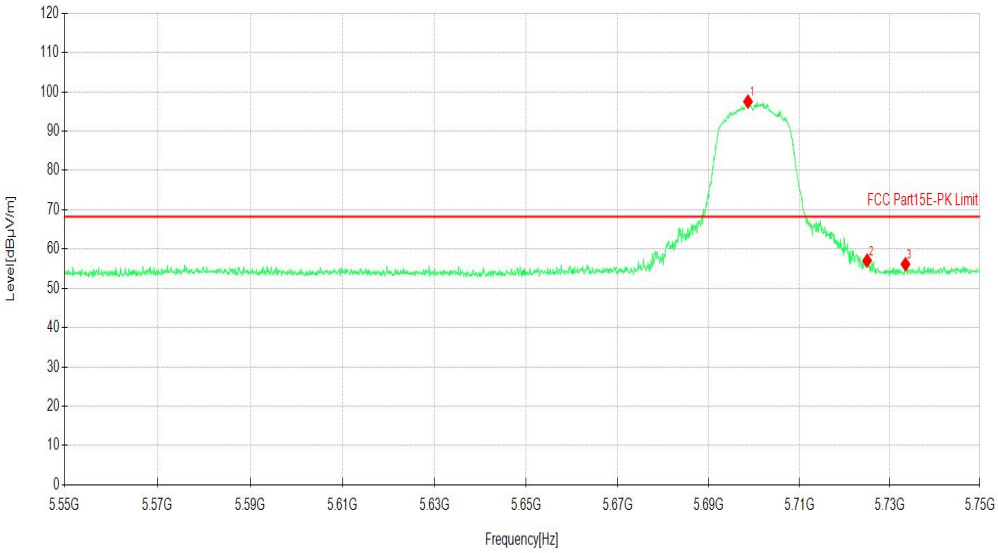
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11160.00	36.58	16.69	53.27	74.00	20.73	PK
2	11160.00	27.91	16.69	44.60	54.00	9.40	AV
3	16740.00	27.71	25.38	53.09	68.20	15.11	PK
4	16740.00	15.86	25.38	41.24	54.00	12.76	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH140	Frequency	5700 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5698.67	88.66	8.85	97.51			PK
2	5725.00	48.17	8.89	57.06	68.20	11.14	PK
3	5733.49	47.37	8.77	56.14	68.20	12.06	PK
4	11400.00	28.93	16.60	45.53	74.00	28.47	PK
5	11400.00	18.35	16.60	34.95	54.00	19.05	AV
6	17100.00	20.30	27.23	47.53	68.20	20.67	PK
7	17100.00	10.90	27.23	38.13	54.00	15.87	AV

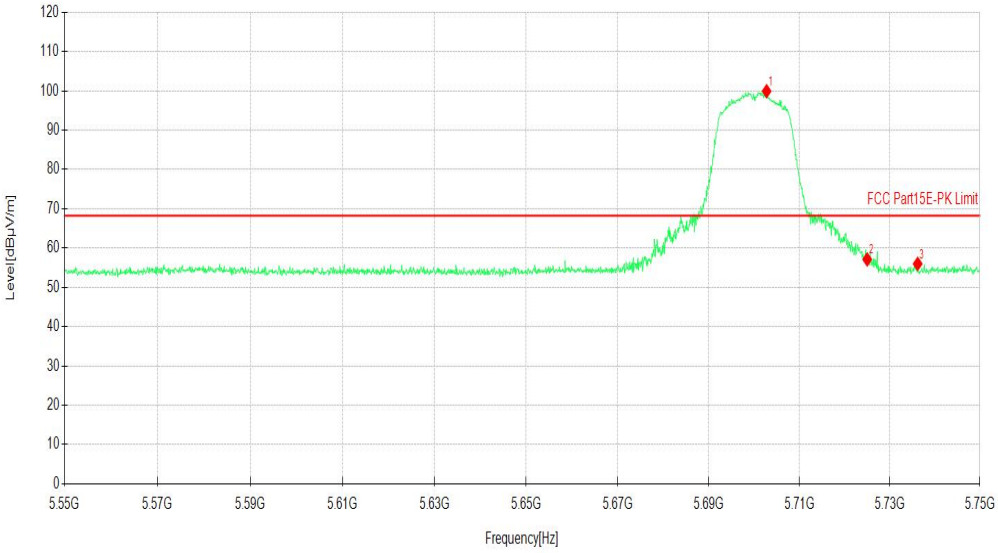


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH140	Frequency	5700 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5702.78	91.04	8.87	99.91			PK
2	5725.00	48.22	8.89	57.11	68.20	11.09	PK
3	5736.19	47.14	8.84	55.98	68.20	12.22	PK
4	11400.00	28.03	16.60	44.63	74.00	29.37	PK
5	11400.00	20.70	16.60	37.30	54.00	16.70	AV
6	17100.00	19.98	27.23	47.21	68.20	20.99	PK
7	17100.00	10.85	27.23	38.08	54.00	15.92	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.1.9 TEST RESULTS - Band 4 (5745-5825MHz):

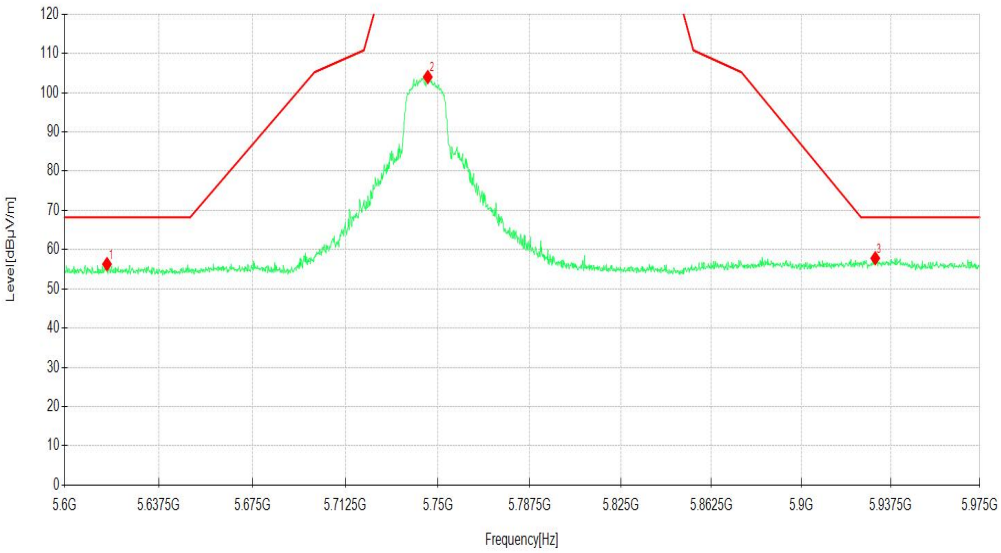
ABOVE 1GHz DATA

All test modes have been conducted, and the report only presents the worst case.

Channel	**802.11a CH149**	**Frequency**	5745 MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5616.88	47.30	9.00	56.30	68.20	11.90	PK
2	5745.95	95.05	8.93	103.98	122.20	18.22	PK
3	5930.92	47.29	10.52	57.81	68.20	10.39	PK
4	11490.00	32.30	16.45	48.75	74.00	25.25	PK
5	11490.00	24.76	16.45	41.21	54.00	12.79	AV
6	17235.00	22.79	27.05	49.84	68.20	18.36	PK
7	17235.00	15.24	27.05	42.29	54.00	11.71	AV

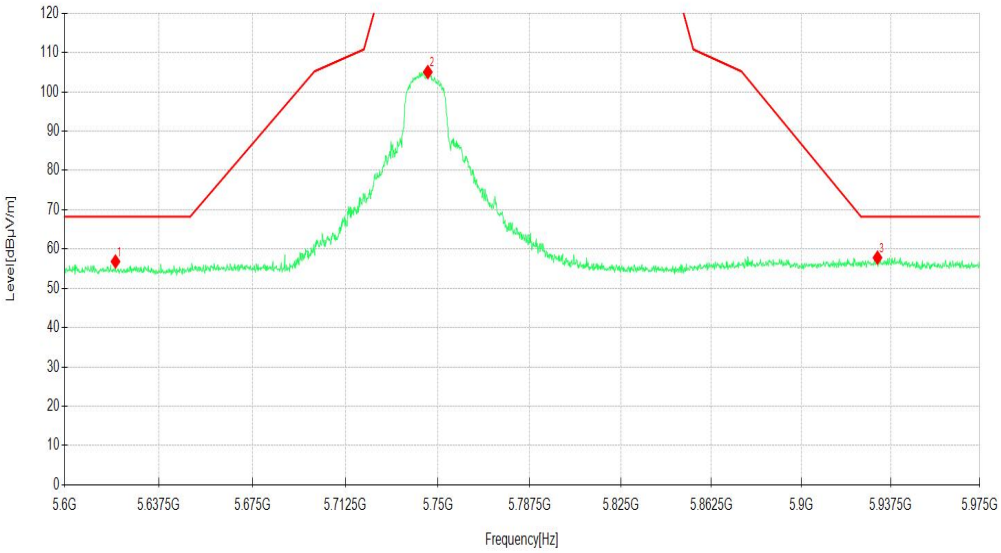


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH149	Frequency	5745 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5620.26	47.83	8.99	56.82	68.20	11.38	PK
2	5745.95	96.10	8.93	105.03	122.20	17.17	PK
3	5931.85	47.26	10.55	57.81	68.20	10.39	PK
4	11490.00	36.90	16.45	53.35	74.00	20.65	PK
5	11490.00	29.35	16.45	45.80	54.00	8.20	AV
6	17235.00	24.79	27.05	51.84	68.20	16.36	PK
7	17235.00	17.82	27.05	44.87	54.00	9.13	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH157	Frequency	5785 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	11570.00	31.76	16.81	48.57	74.00	25.43	PK
2	11570.00	24.46	16.81	41.27	54.00	12.73	AV
3	17355.00	23.30	28.18	51.48	68.20	16.72	PK
4	17355.00	16.75	28.18	44.93	54.00	9.07	AV

Vertical

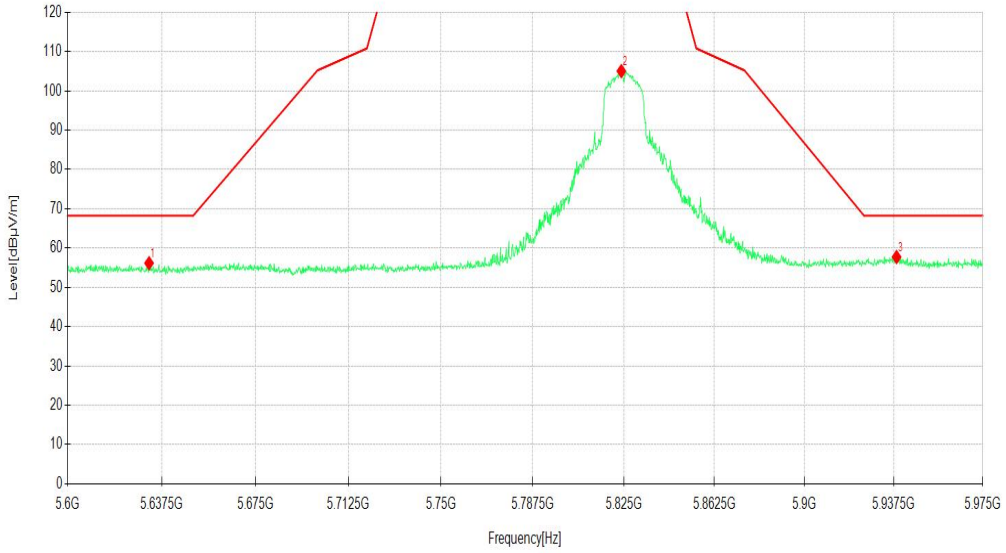
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	11570.00	34.70	16.81	51.51	74.00	22.49	PK
2	11570.00	28.85	16.81	45.66	54.00	8.34	AV
3	17355.00	24.64	28.18	52.82	68.20	15.38	PK
4	17355.00	18.64	28.18	46.82	54.00	7.18	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11a CH165	Frequency	5825 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5632.45	47.25	8.90	56.15	68.20	12.05	PK
2	5823.99	96.20	8.81	105.01	122.20	17.19	PK
3	5938.61	46.95	10.77	57.72	68.20	10.48	PK
4	11650.00	30.80	16.70	47.50	74.00	26.50	PK
5	11650.00	24.56	16.70	41.26	54.00	12.74	AV
6	17475.00	23.33	28.12	51.45	68.20	16.75	PK
7	17475.00	16.27	28.12	44.39	54.00	9.61	AV

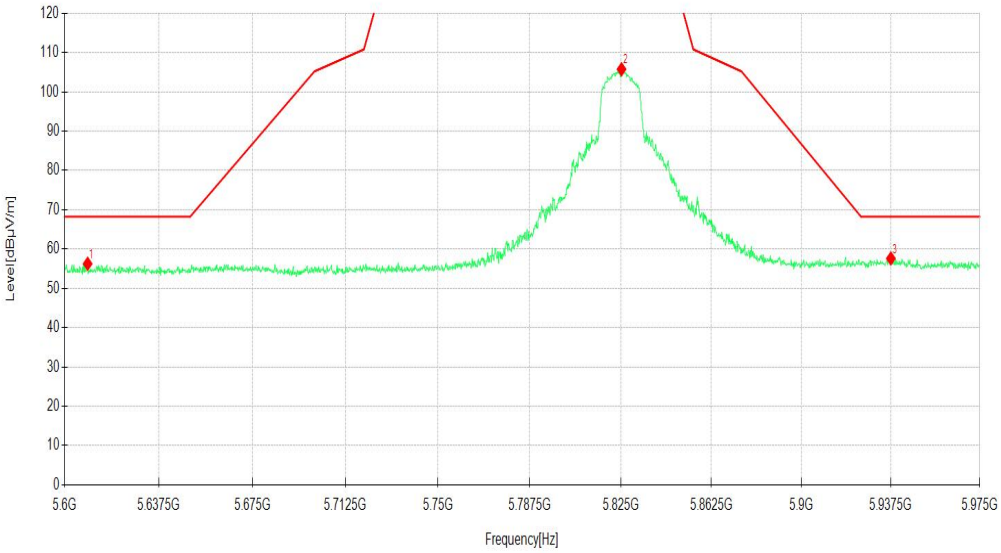


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH165	Frequency	5825 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	5609.19	47.23	9.02	56.25	68.20	11.95	PK
2	5825.30	96.95	8.79	105.74	122.20	16.46	PK
3	5937.48	46.87	10.73	57.60	68.20	10.60	PK
4	11650.00	38.42	16.70	55.12	74.00	18.88	PK
5	11650.00	29.77	16.70	46.47	54.00	7.53	AV
6	17475.00	25.72	28.12	53.84	68.20	14.36	PK
7	17475.00	19.26	28.12	47.38	54.00	6.62	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.2.2 TEST SETUP

3.3 26DB EMISSION BANDWIDTH

3.3.1 LIMITS OF 26DB EMISSION BANDWIDTH

This section is for reporting purpose only, there is on restriction limit of bandwidth

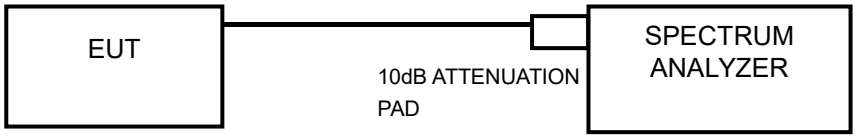
3.3.2 TEST PROCEDURES

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.3.3 TEST SETUP

FOR 26dB BANDWIDTH



3.4 6DB EMISSION BANDWIDTH

3.4.1 LIMITS OF 6DB EMISSION BANDWIDTH

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

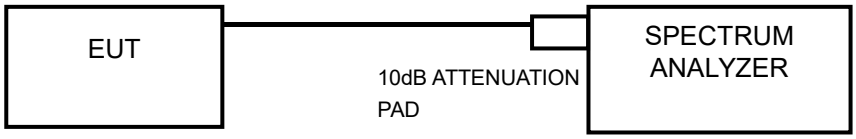
3.4.2 TEST PROCEDURES

FOR 6dB BANDWIDTH

1)Set RBW = 100 kHz.
2)Set the video bandwidth (VBW) ≥ 3 RBW.
3)Detector = Peak.
4)Trace mode = max hold.
5) Sweep = auto couple.
6) Allow the trace to stabilize.
7)Measurethe maximum width of the emission that is constrained by thefrequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4.3 TEST SETUP

FOR 6dB BANDWIDTH



3.5 TRANSMIT POWER MEASUREMENT

3.5.1 LIMITS OF TRANSMIT POWER MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

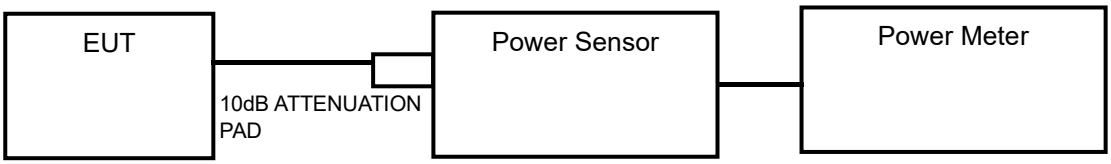
NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.5.2 TEST PROCEDURES

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

3.5.3 TEST SETUP



3.6 POWER SPECTRAL DENSITY MEASUREMENT

3.6.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.6.2 TEST PROCEDURE

For U-NII-1, U-NII-2A, U-NII-2Cband:

Using method SA-2

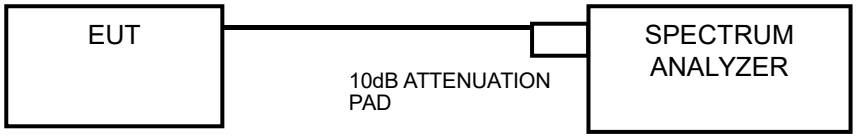
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1MHz, Set VBW =3 MHz, Detector = AV
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to“free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 500 kHz, Set VBW =2 MHz, Detector = AV
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to“free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

3.6.3 TEST SETUP



3.7 FREQUENCY STABILITY

3.7.1 LIMITS OFFREQUENCY STABILITY

The frequency of the carrier signal shall be maintained within band of operation.

3.7.2 TEST PROCEDURES

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

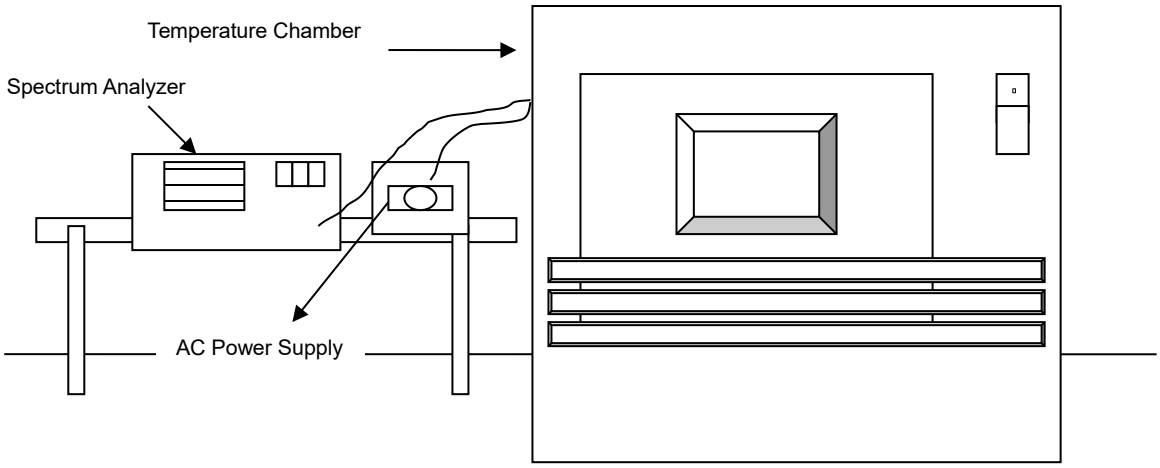
c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber tostabilize, turn the EUT on and measure the operatingfrequency after 2, 5, and 10 minutes.

e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30minutes. The supply voltage was then adjusted onthe EUT from 85% to 115%and the frequency record.

3.7.3 TEST SETUP



3.8 ANTENNA REQUIREMENT

3.8.1 LIMITS OF ANTENNA REQUIREMENTS

For intentional device, according to FCC 47 CFR Section 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. According to FCC 47 CFR Section 15.407(a)(1)(2) , if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device

3.8.3 ANTENNA GAIN

The maximum peak gain of the transmit antenna is 1.98 dBi.

4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

------ End of the Report ------

Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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