



FCC Part 15E Test Report

FCC ID: 2A6T2-X96M200

Applicant: SHENZHEN AMEDIA TECHNOLOGY CO., LTD

Address: 201, Building 2, Stech Park, Taoyuan Community, Dalang Street, LongHua District, ShenZhen

Manufacturer: SHENZHEN AMEDIA TECHNOLOGY CO., LTD

Address: 201, Building 2, Stech Park, Taoyuan Community, Dalang Street, LongHua District, ShenZhen

EUT: Smart TV box

Trade Mark: N/A

Model Number: X96 M200

Date of Receipt: Apr. 27, 2025

Test Date: Apr. 27, 2025 - Jun. 19, 2025

Date of Report: Jun. 19, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10:2013

Test Result: Pass

Report Number: DLE-250427033R

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1.. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.407(b), 15.209	Radiated Spurious Emission	PASS	
15.407 (b)	Band Edge Emission	PASS	
15.407 (a)	Peak Output Power	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(a) (e)	26dB bandwidth and 99%dB Bandwidth 6dB bandwidth and 99%dB Bandwidth	PASS	
15.407(g)	Frequency Stability	PASS	
15.407(c)	Transmission in case of Absence of Information	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test lab: Shenzhen DL Testing Technology Co., Ltd.

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1

Address: Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<30MHz)	$\pm 3.54\text{dB}$
5	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
6	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
7	Occupied bandwidth	$\pm 1.28\text{MHz}$
8	PSD	$\pm 0.69\text{dB}$
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$



2.. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Product Name:	Smart TV box
Trademark	N/A
Model No.:	X96 M200
Model Difference	N/A
Operation Frequency:	5180-5240, 5745-5825MHz(802.11a/n/ac(HT20)) 5190-5230, 5755-5795MHz(802.11n/ac(HT40)) 5210MHz , 5775MHz (802.11ac(HT80))
Channel numbers:	See channel list
Channel separation:	20MHz/40MHz/80MHz
Modulation technology:	64QAM, 16QAM, QPSK, BPSK for OFDM
Rate of Transmitter	802.11a: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps 802.11n: Up to 300Mbps 802.11ac: up to 867Mbps
Antenna Type:	Internal Antenna
Antenna gain:	5.2dBi
Power Supply:	DC 5V from adapter
Adapter:	MODEL: GJ15WD-0500200UW INPUT: 100-240V~50/60Hz 0.5A OUTPUT: 5.0V-2.0A 10.0W

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.



2. Channel List

Channel List for 802.11a/n(HT20)/ac(HT20)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

Channel List for 802.11n(HT40)/ac(HT40)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

Channel List for 802.11ac(HT80)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	/	/

Channel List for 802.11a/n(HT20)/ac(HT20)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

Channel List for 802.11n(HT40)/ac(HT40)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

Channel List for 802.11ac(HT80)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	/	/



2.2. DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was e-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Band 1:

Pretest Mode	Modulation	Channel
Mode 1	802.11a	CH36
Mode 2		CH44
Mode 3		CH48
Mode 4	802.11n HT20	CH36
Mode 5		CH44
Mode 6		CH48
Mode 7	802.11ac HT20	CH36
Mode 8		CH44
Mode 9		CH48
Mode 10	802.11n HT40	CH38
Mode 11		CH46
Mode 12	802.11ac HT40	CH38
Mode 13		CH46
Mode 14	802.11ac HT80	CH42

Band 4:

Pretest Mode	Modulation	Channel
Mode 15	802.11a	CH149
Mode 16		CH157
Mode 17		CH165
Mode 18	802.11n HT20	CH149
Mode 19		CH157
Mode 20		CH165
Mode 21	802.11ac HT20	CH149
Mode 22		CH157
Mode 23		CH165
Mode 24	802.11n HT40	CH151
Mode 25		CH159
Mode 26	802.11ac HT40	CH151
Mode 27		CH159
Mode 28	802.11ac HT80	CH155

Note: (1) The measurements are performed at the highest, middle, lowest available channels.

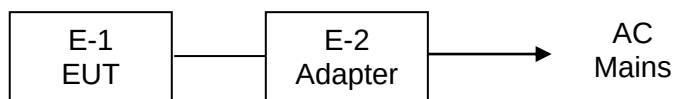
(2) During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and under that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

(3) For the two items of conducted disturbance at the power supply end and space radiation below 1GHz, all modes have undergone pre-tests. The report only shows the worst test results of mode 3.

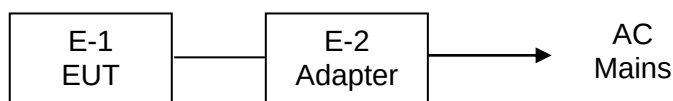


2.3. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Power Line Conducted Emission Test



2.4. DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Smart TV box	X96 M200	N/A	EUT
E-2	Adapter	GJ15WD-0500200UW	N/A	Manufacturer: Shenzhen Guljin Technology Co., Ltd.

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5. TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Max output power Setting				
Test software Version	Test program: RF TEST Setup			
Mode	802.11a	802.11n HT20	802.11n HT40	802.11ac HT20/HT40/HT80
Data Rate	6Mbps	MSC0	MSC0	MSC0
Power Setting of Softwave	60	60	66	66

**2.6. EQUIPMENTS LIST FOR ALL TEST ITEMS**

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3.. EMC EMISSION TEST

3.1. CONDUCTED EMISSION MEASUREMENT

3.1.1. POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.5 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

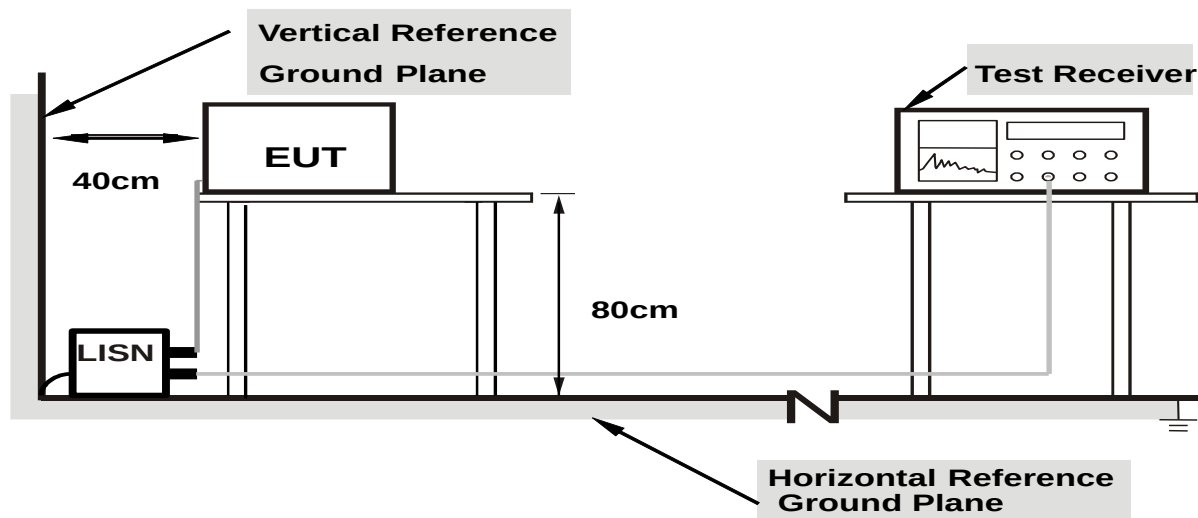
3.1.2. TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3. DEVIATION FROM TEST STANDARD

No deviation

3.1.4. TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5. EUT OPERATING CONDITIONS

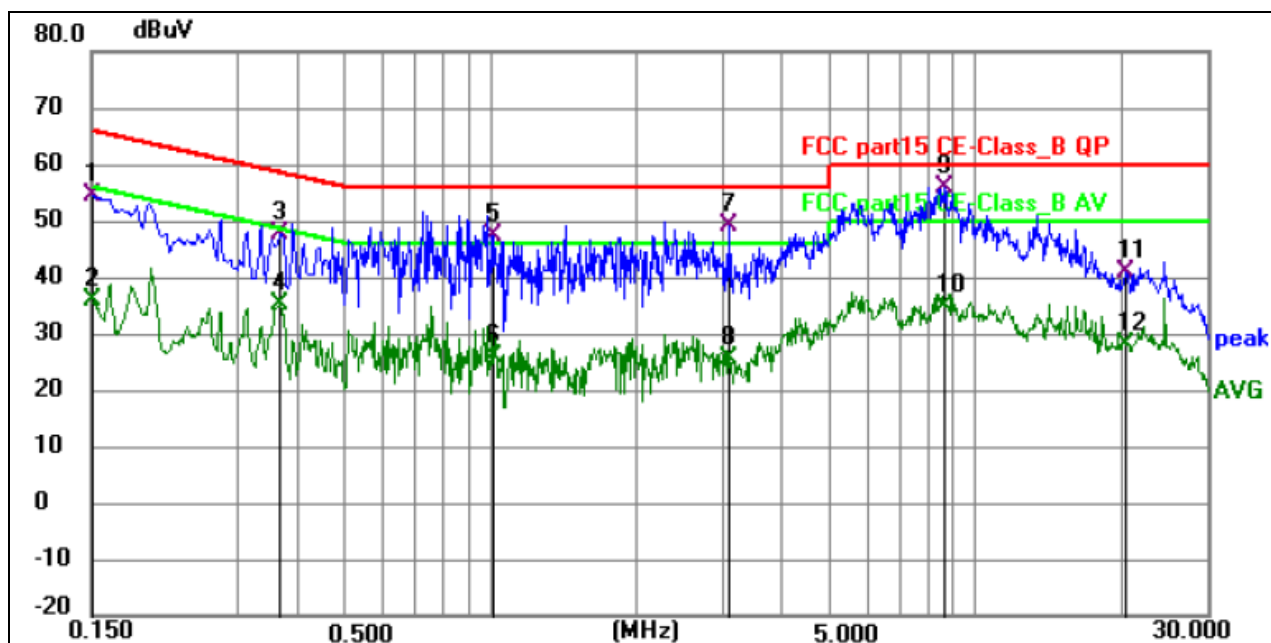
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

3.1.6. TEST RESULTS



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 3



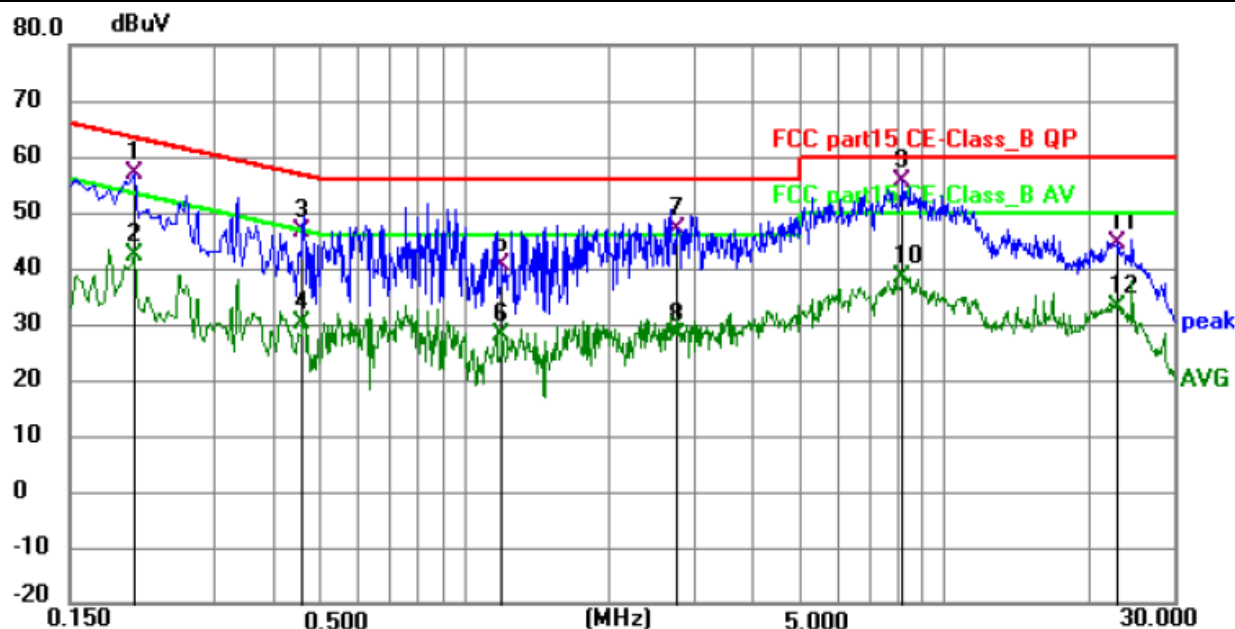
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	44.41	10.05	54.46	66.00	-11.54	QP	P	
2	0.1500	25.87	10.05	35.92	56.00	-20.08	AVG	P	
3	0.3660	37.27	10.25	47.52	58.59	-11.07	QP	P	
4	0.3660	24.83	10.25	35.08	48.59	-13.51	AVG	P	
5	1.0140	37.35	10.04	47.39	56.00	-8.61	QP	P	
6	1.0140	15.73	10.04	25.77	46.00	-20.23	AVG	P	
7	3.1110	39.02	10.14	49.16	56.00	-6.84	QP	P	
8	3.1110	15.55	10.14	25.69	46.00	-20.31	AVG	P	
9 *	8.6550	44.77	11.04	55.81	60.00	-4.19	QP	P	
10	8.6550	23.82	11.04	34.86	50.00	-15.14	AVG	P	
11	20.3730	28.94	12.12	41.06	60.00	-18.94	QP	P	
12	20.3730	15.78	12.12	27.90	50.00	-22.10	AVG	P	



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 3



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	46.88	10.16	57.04	63.45	-6.41	QP	P	
2	0.2040	32.02	10.16	42.18	53.45	-11.27	AVG	P	
3	0.4605	36.39	10.17	46.56	56.68	-10.12	QP	P	
4	0.4605	20.05	10.17	30.22	46.68	-16.46	AVG	P	
5	1.1940	30.51	10.10	40.61	56.00	-15.39	QP	P	
6	1.1940	17.99	10.10	28.09	46.00	-17.91	AVG	P	
7	2.7735	36.93	10.07	47.00	56.00	-9.00	QP	P	
8	2.7735	17.82	10.07	27.89	46.00	-18.11	AVG	P	
9 *	8.1735	44.57	10.92	55.49	60.00	-4.51	QP	P	
10	8.1735	27.58	10.92	38.50	50.00	-11.50	AVG	P	
11	22.8030	32.34	12.26	44.60	60.00	-15.40	QP	P	
12	22.8030	20.94	12.26	33.20	50.00	-16.80	AVG	P	



3.2. RADIATED EMISSION MEASUREMENT

3.2.1. RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

15.407(b) Undesirable emission limits. Except as shown in paragraph (b) (10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2. TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre.
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

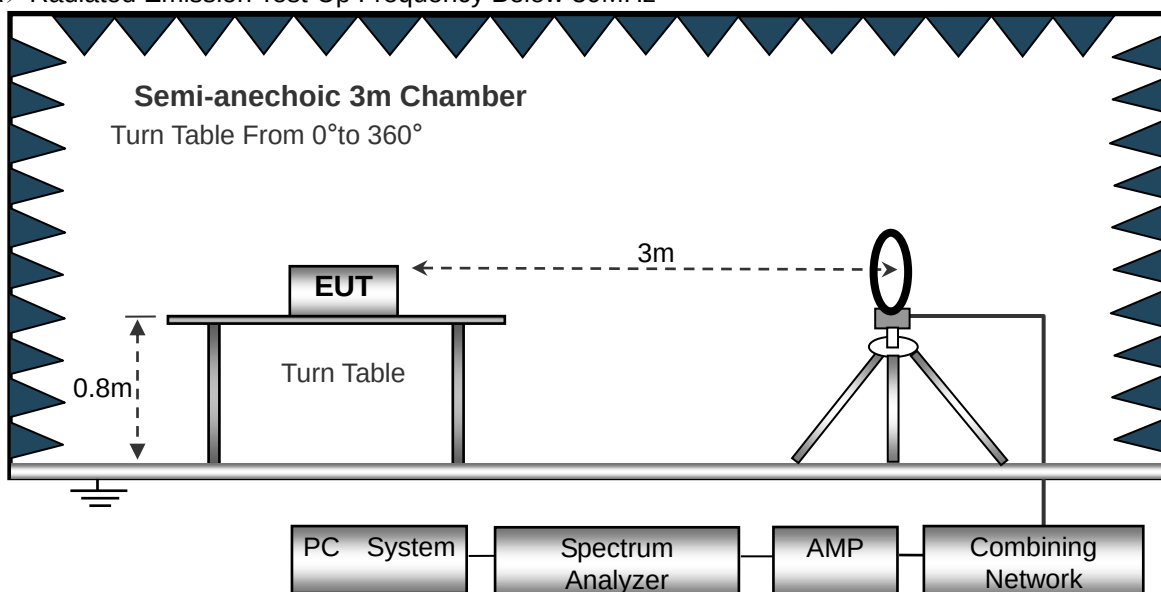
3.2.3. DEVIATION FROM TEST STANDARD

No deviation

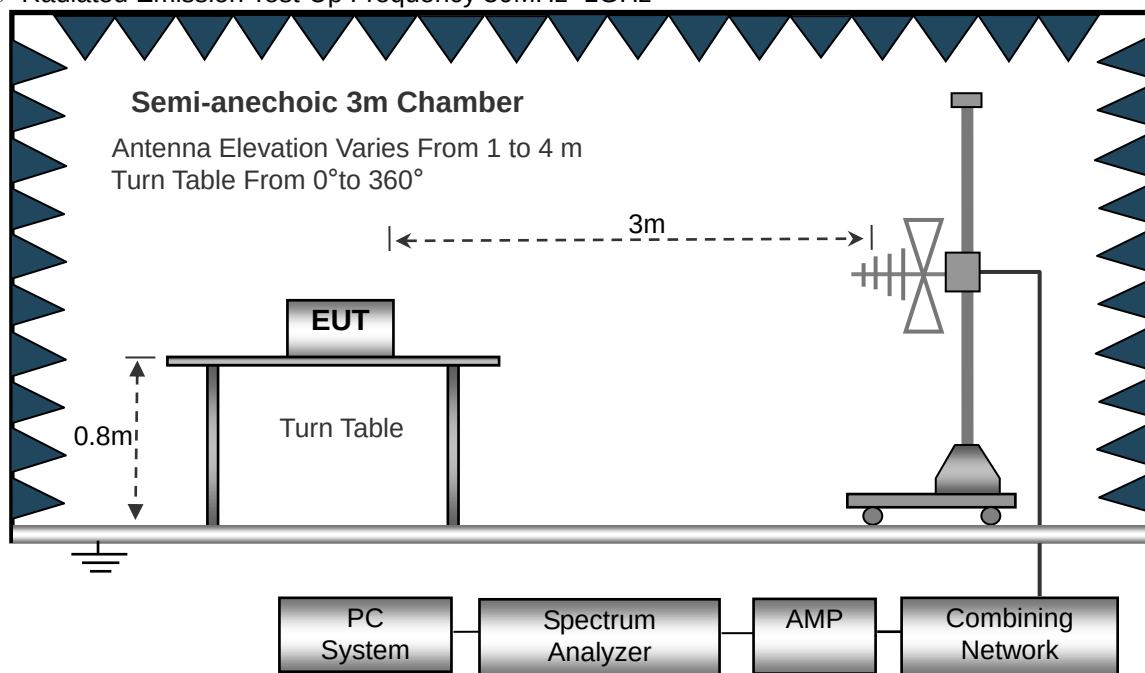


3.2.4. TEST SETUP

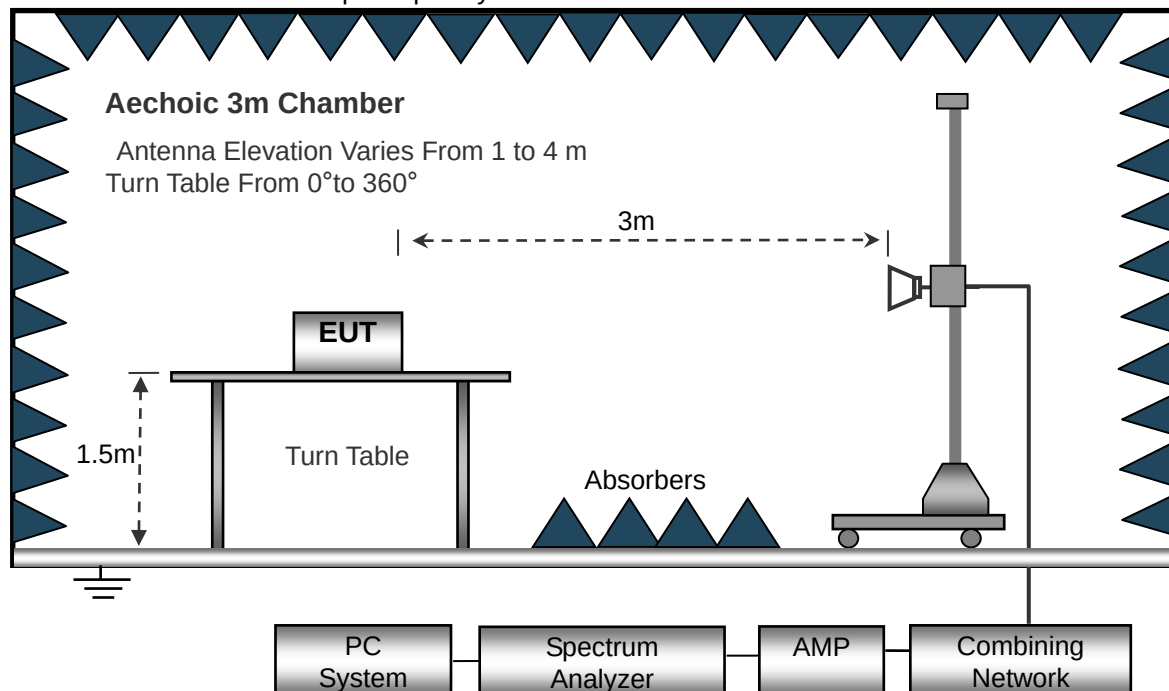
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5. EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6. TEST RESULTS (Between 9KHz – 30 MHz)**

Temperature:	20℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 3	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

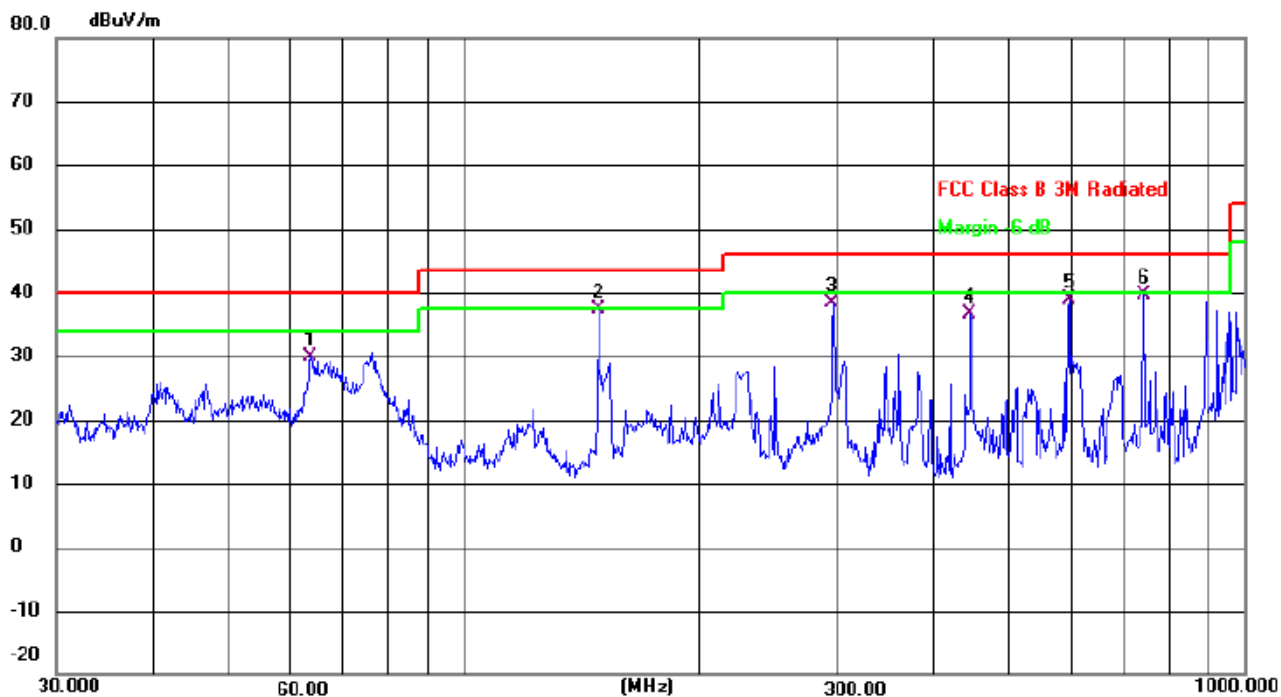
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

**3.2.7. TEST RESULTS (Between 30MHz – 1GHz)**

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Mode 3		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		63.5356	44.55	-14.55	30.00	40.00	-10.00	QP
2	*	148.4410	55.73	-18.46	37.27	43.50	-6.23	QP
3		297.2238	50.32	-11.87	38.45	46.00	-7.55	QP
4		444.8514	45.20	-8.58	36.62	46.00	-9.38	QP
5		595.1326	44.22	-5.44	38.78	46.00	-7.22	QP
6		742.2586	42.77	-3.17	39.60	46.00	-6.40	QP

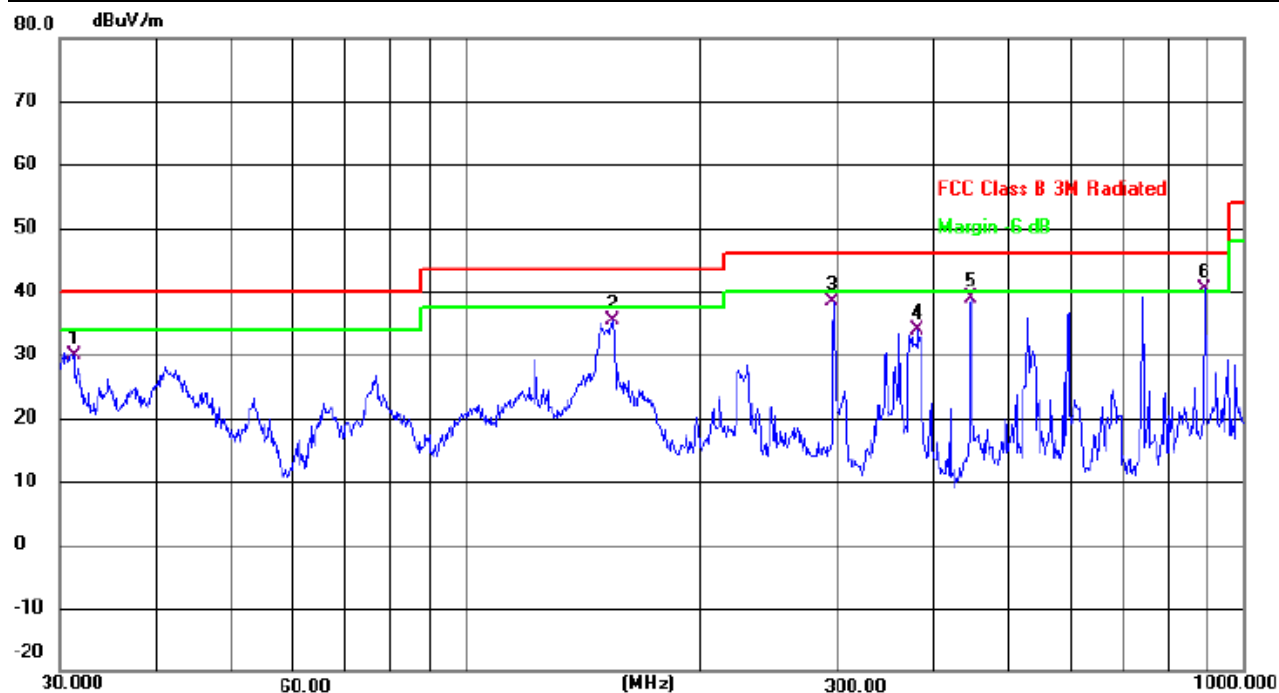
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
test voltage :	AC 120V/60Hz		
Test Mode :	Mode 3		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		31.2892	45.79	-15.97	29.82	40.00	-10.18	QP
2		154.2785	53.56	-18.25	35.31	43.50	-8.19	QP
3		297.2238	50.34	-11.87	38.47	46.00	-7.53	QP
4		381.2485	43.60	-9.67	33.93	46.00	-12.07	QP
5		446.4139	47.30	-8.46	38.84	46.00	-7.16	QP
6	*	890.7277	41.40	-0.91	40.49	46.00	-5.51	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

**3.2.8. TEST RESULTS (1ghz~40ghZ)**

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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5180									
V	10360	56.24	49.05	15.3	37.39	59.88	68.2	-8.32	PK
V	10360	41.83	49.05	15.3	37.39	45.47	54	-8.53	AV
V	15540	52.18	49.16	15.27	40.45	58.74	74	-15.26	PK
V	15540	39.21	49.16	15.27	40.45	45.77	54	-8.23	AV
H	10360	56.19	49.05	15.3	37.39	59.83	68.2	-8.37	PK
H	10360	40.95	49.05	15.3	37.39	44.59	54	-9.41	AV
H	15540	51.41	49.16	15.27	40.45	57.97	74	-16.03	PK
H	15540	38.88	49.16	15.27	40.45	45.44	54	-8.56	AV
operation frequency:5200									
V	10400	57.63	49.09	15.34	37.42	61.3	68.2	-6.90	PK
V	10400	39.85	49.09	15.34	37.42	43.52	54	-10.48	AV
V	15600	52.63	49.18	15.29	40.47	59.21	74	-14.79	PK
V	15600	38.21	49.18	15.29	40.47	44.79	54	-9.21	AV
H	10400	56.34	49.09	15.34	37.42	60.01	68.2	-8.19	PK
H	10400	39.86	49.09	15.34	37.42	43.53	54	-10.47	AV
H	15600	53.87	49.18	15.29	40.47	60.45	74	-13.55	PK
H	15600	38.75	49.18	15.29	40.47	45.33	54	-8.67	AV
operation frequency:5240									
V	10480	58.63	49.11	15.37	37.46	62.35	68.2	-5.85	PK
V	10480	39.68	49.11	15.37	37.46	43.4	54	-10.60	AV
V	15720	53.84	49.21	15.34	40.51	60.48	74	-13.52	PK
V	15720	38.31	49.21	15.34	40.51	44.95	54	-9.05	AV
H	10480	57.41	49.11	15.37	31.31	54.98	68.2	-13.22	PK
H	10480	45.52	49.11	15.37	31.31	43.09	54	-10.91	AV
H	15720	54.26	49.21	15.34	40.51	60.9	74	-13.10	PK
H	15720	37.27	49.21	15.34	40.51	43.91	54	-10.09	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	10360	56.63	49.05	15.3	37.39	60.27	68.2	-7.93	PK
V	10360	38.14	49.05	15.3	37.39	41.78	54	-12.22	AV
V	15540	52.37	49.16	15.27	40.45	58.93	74	-15.07	PK
V	15540	38.26	49.16	15.27	40.45	44.82	54	-9.18	AV
H	10360	56.65	49.05	15.3	37.39	60.29	68.2	-7.91	PK
H	10360	39.21	49.05	15.3	37.39	42.85	54	-11.15	AV
H	15540	51.38	49.16	15.27	40.45	57.94	74	-16.06	PK
H	15540	38.23	49.16	15.27	40.45	44.79	54	-9.21	AV
operation frequency:5200									
V	10400	56.52	49.09	15.34	37.42	60.19	68.2	-8.01	PK
V	10400	39.63	49.09	15.34	37.42	43.3	54	-10.70	AV
V	15600	52.41	49.18	15.29	40.47	58.99	74	-15.01	PK
V	15600	38.98	49.18	15.29	40.47	45.56	54	-8.44	AV
H	10400	55.33	49.09	15.34	37.42	59	68.2	-9.20	PK
H	10400	40.54	49.09	15.34	37.42	44.21	54	-9.79	AV
H	15600	53.28	49.18	15.29	40.47	59.86	74	-14.14	PK
H	15600	39.21	49.18	15.29	40.47	45.79	54	-8.21	AV
operation frequency:5240									
V	10480	57.83	49.11	15.37	37.46	61.55	68.2	-6.65	PK
V	10480	40.67	49.11	15.37	37.46	44.39	54	-9.61	AV
V	15720	52.63	49.21	15.34	40.51	59.27	74	-14.73	PK
V	15720	38.28	49.21	15.34	40.51	44.92	54	-9.08	AV
H	10480	57.54	49.11	15.37	31.31	55.11	68.2	-13.09	PK
H	10480	44.84	49.11	15.37	31.31	42.41	54	-11.59	AV
H	15720	51.93	49.21	15.34	40.51	58.57	74	-15.43	PK
H	15720	39.85	49.21	15.34	40.51	46.49	54	-7.51	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	10380	56.63	49.07	15.33	37.41	60.3	68.2	-7.90	PK
V	10380	39.64	49.07	15.33	37.41	43.31	54	-10.69	AV
V	15570	52.87	49.17	15.28	40.46	59.44	74	-14.56	PK
V	15570	38.33	49.17	15.28	40.46	44.9	54	-9.10	AV
H	10380	56.21	49.07	15.33	37.41	59.88	68.2	-8.32	PK
H	10380	40.89	49.07	15.33	37.41	44.56	54	-9.44	AV
H	15570	52.85	49.17	15.28	40.46	59.42	74	-14.58	PK
H	15570	38.41	49.17	15.28	40.46	44.98	54	-9.02	AV
operation frequency:5230									
V	10460	57.16	49.11	15.37	37.46	60.88	68.2	-7.32	PK
V	10460	39.68	49.11	15.37	37.46	43.4	54	-10.60	AV
V	15690	52.26	49.21	15.34	40.51	58.9	74	-15.10	PK
V	15690	38.67	49.21	15.34	40.51	45.31	54	-8.69	AV
H	10460	57.35	49.11	15.37	31.31	54.92	68.2	-13.28	PK
H	10460	44.36	49.11	15.37	31.31	41.93	54	-12.07	AV
H	15690	52.55	49.21	15.34	40.51	59.19	74	-14.81	PK
H	15690	39.27	49.21	15.34	40.51	45.91	54	-8.09	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	10360	56.32	49.05	15.3	37.39	59.96	68.2	-8.24	PK
V	10360	39.41	49.05	15.3	37.39	43.05	54	-10.95	AV
V	15540	51.56	49.16	15.27	40.45	58.12	74	-15.88	PK
V	15540	38.85	49.16	15.27	40.45	45.41	54	-8.59	AV
H	10360	56.63	49.05	15.3	37.39	60.27	68.2	-7.93	PK
H	10360	38.15	49.05	15.3	37.39	41.79	54	-12.21	AV
H	15540	52.14	49.16	15.27	40.45	58.7	74	-15.30	PK
H	15540	39.74	49.16	15.27	40.45	46.3	54	-7.70	AV
operation frequency:5200									
V	10400	56.63	49.09	15.34	37.42	60.3	68.2	-7.90	PK
V	10400	41.44	49.09	15.34	37.42	45.11	54	-8.89	AV
V	15600	52.28	49.18	15.29	40.47	58.86	74	-15.14	PK
V	15600	40.36	49.18	15.29	40.47	46.94	54	-7.06	AV
H	10400	55.75	49.09	15.34	37.42	59.42	68.2	-8.78	PK
H	10400	40.24	49.09	15.34	37.42	43.91	54	-10.09	AV
H	15600	53.68	49.18	15.29	40.47	60.26	74	-13.74	PK
H	15600	41.63	49.18	15.29	40.47	48.21	54	-5.79	AV
operation frequency:5240									
V	10480	57.85	49.11	15.37	37.46	61.57	68.2	-6.63	PK
V	10480	40.63	49.11	15.37	37.46	44.35	54	-9.65	AV
V	15720	51.45	49.21	15.34	40.51	58.09	74	-15.91	PK
V	15720	39.54	49.21	15.34	40.51	46.18	54	-7.82	AV
H	10480	57.74	49.11	15.37	31.31	55.31	68.2	-12.89	PK
H	10480	44.63	49.11	15.37	31.31	42.2	54	-11.80	AV
H	15720	52.45	49.21	15.34	40.51	59.09	74	-14.91	PK
H	15720	40.24	49.21	15.34	40.51	46.88	54	-7.12	AV
Remark:									
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit									
2. If peak below the average limit, the average emission was no test.									
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	10380	56.21	49.07	15.33	37.41	59.88	68.2	-8.32	PK
V	10380	40.23	49.07	15.33	37.41	43.9	54	-10.10	AV
V	15570	52.85	49.17	15.28	40.46	59.42	74	-14.58	PK
V	15570	39.44	49.17	15.28	40.46	46.01	54	-7.99	AV
H	10380	56.23	49.07	15.33	37.41	59.9	68.2	-8.30	PK
H	10380	40.57	49.07	15.33	37.41	44.24	54	-9.76	AV
H	15570	51.52	49.17	15.28	40.46	58.09	74	-15.91	PK
H	15570	39.61	49.17	15.28	40.46	46.18	54	-7.82	AV
operation frequency:5230									
V	10460	57.58	49.11	15.37	37.46	61.3	68.2	-6.90	PK
V	10460	41.63	49.11	15.37	37.46	45.35	54	-8.65	AV
V	15690	52.24	49.21	15.34	40.51	58.88	74	-15.12	PK
V	15690	39.81	49.21	15.34	40.51	46.45	54	-7.55	AV
H	10460	57.98	49.11	15.37	31.31	55.55	68.2	-12.65	PK
H	10460	44.63	49.11	15.37	31.31	42.2	54	-11.80	AV
H	15690	52.52	49.21	15.34	40.51	59.16	74	-14.84	PK
H	15690	40.41	49.21	15.34	40.51	47.05	54	-6.95	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5210									
V	10420	56.36	49.07	15.33	37.41	60.03	68.2	-8.17	PK
V	10420	41.64	49.07	15.33	37.41	45.31	54	-8.69	AV
V	15630	51.85	49.17	15.28	40.46	58.42	74	-15.58	PK
V	15630	39.63	49.17	15.28	40.46	46.2	54	-7.80	AV
H	10420	56.14	49.07	15.33	37.41	59.81	68.2	-8.39	PK
H	10420	41.67	49.07	15.33	37.41	45.34	54	-8.66	AV
H	15630	52.63	49.17	15.28	40.46	59.2	74	-14.80	PK
H	15630	40.52	49.17	15.28	40.46	47.09	54	-6.91	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5745									
V	11490	54.69	49.05	15.3	37.39	58.33	74	-15.67	PK
V	11490	41.52	49.05	15.3	37.39	45.16	54	-8.84	AV
V	17235	55.21	49.16	15.27	40.45	61.77	68.2	-6.43	PK
V	17235	40.67	49.16	15.27	40.45	47.23	54	-6.77	AV
H	11490	52.63	49.05	15.3	37.39	56.27	74	-17.73	PK
H	11490	42.52	49.05	15.3	37.39	46.16	54	-7.84	AV
H	17235	51.41	49.16	15.27	40.45	57.97	68.2	-10.23	PK
H	17235	40.52	49.16	15.27	40.45	47.08	54	-6.92	AV
operation frequency:5785									
V	11570	51.31	49.09	15.34	37.42	54.98	74	-19.02	PK
V	11570	41.87	49.09	15.34	37.42	45.54	54	-8.46	AV
V	17355	50.63	49.18	15.29	40.47	57.21	68.2	-10.99	PK
V	17355	40.44	49.18	15.29	40.47	47.02	54	-6.98	AV
H	11570	50.21	49.09	15.34	37.42	53.88	74	-20.12	PK
H	11570	42.89	49.09	15.34	37.42	46.56	54	-7.44	AV
H	17355	48.52	49.18	15.29	40.47	55.1	68.2	-13.10	PK
H	17355	40.36	49.18	15.29	40.47	46.94	54	-7.06	AV
operation frequency:5825									
V	11650	52.28	49.11	15.37	37.46	56	74	-18.00	PK
V	11650	41.24	49.11	15.37	37.46	44.96	54	-9.04	AV
V	17475	49.63	49.21	15.34	40.51	56.27	68.2	-11.93	PK
V	17475	40.52	49.21	15.34	40.51	47.16	54	-6.84	AV
H	11650	57.26	49.11	15.37	31.31	54.83	74	-19.17	PK
H	11650	48.85	49.11	15.37	31.31	46.42	54	-7.58	AV
H	17475	49.54	49.21	15.34	40.51	56.18	68.2	-12.02	PK
H	17475	40.96	49.21	15.34	40.51	47.6	54	-6.40	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5745									
V	11490	49.14	49.05	15.3	37.39	52.78	74	-21.22	PK
V	11490	42.56	49.05	15.3	37.39	46.2	54	-7.80	AV
V	17235	48.68	49.16	15.27	40.45	55.24	68.2	-12.96	PK
V	17235	40.16	49.16	15.27	40.45	46.72	54	-7.28	AV
H	11490	49.64	49.05	15.3	37.39	53.28	74	-20.72	PK
H	11490	41.68	49.05	15.3	37.39	45.32	54	-8.68	AV
H	17235	48.31	49.16	15.27	40.45	54.87	68.2	-13.33	PK
H	17235	40.23	49.16	15.27	40.45	46.79	54	-7.21	AV
operation frequency:5785									
V	11570	52.52	49.09	15.34	37.42	56.19	74	-17.81	PK
V	11570	42.66	49.09	15.34	37.42	46.33	54	-7.67	AV
V	17355	49.84	49.18	15.29	40.47	56.42	68.2	-11.78	PK
V	17355	40.85	49.18	15.29	40.47	47.43	54	-6.57	AV
H	11570	49.63	49.09	15.34	37.42	53.3	74	-20.70	PK
H	11570	43.84	49.09	15.34	37.42	47.51	54	-6.49	AV
H	17355	49.28	49.18	15.29	40.47	55.86	68.2	-12.34	PK
H	17355	40.63	49.18	15.29	40.47	47.21	54	-6.79	AV
operation frequency:5825									
V	11650	51.28	49.11	15.37	37.46	55	74	-19.00	PK
V	11650	41.21	49.11	15.37	37.46	44.93	54	-9.07	AV
V	17475	48.66	49.21	15.34	40.51	55.3	68.2	-12.90	PK
V	17475	40.58	49.21	15.34	40.51	47.22	54	-6.78	AV
H	11650	57.63	49.11	15.37	31.31	55.2	74	-18.80	PK
H	11650	44.15	49.11	15.37	31.31	41.72	54	-12.28	AV
H	17475	49.63	49.21	15.34	40.51	56.27	68.2	-11.93	PK
H	17475	40.21	49.21	15.34	40.51	46.85	54	-7.15	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5755									
V	11510	49.85	49.07	15.33	37.41	53.52	74	-20.48	PK
V	11510	41.63	49.07	15.33	37.41	45.3	54	-8.70	AV
V	17265	49.45	49.17	15.28	40.46	56.02	68.2	-12.18	PK
V	17265	40.14	49.17	15.28	40.46	46.71	54	-7.29	AV
H	11510	48.63	49.07	15.33	37.41	52.3	74	-21.70	PK
H	11510	41.84	49.07	15.33	37.41	45.51	54	-8.49	AV
H	17265	49.86	49.17	15.28	40.46	56.43	68.2	-11.77	PK
H	17265	40.67	49.17	15.28	40.46	47.24	54	-6.76	AV
operation frequency:5795									
V	11590	49.21	49.11	15.37	37.46	52.93	74	-21.07	PK
V	11590	41.63	49.11	15.37	37.46	45.35	54	-8.65	AV
V	17385	48.85	49.21	15.34	40.51	55.49	68.2	-12.71	PK
V	17385	40.46	49.21	15.34	40.51	47.1	54	-6.90	AV
H	11590	57.52	49.11	15.37	31.31	55.09	74	-18.91	PK
H	11590	44.53	49.11	15.37	31.31	42.1	54	-11.90	AV
H	17385	48.17	49.21	15.34	40.51	54.81	68.2	-13.39	PK
H	17385	40.45	49.21	15.34	40.51	47.09	54	-6.91	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5745									
V	11490	49.63	49.05	15.3	37.39	53.27	74	-20.73	PK
V	11490	42.21	49.05	15.3	37.39	45.85	54	-8.15	AV
V	17235	48.56	49.16	15.27	40.45	55.12	68.2	-13.08	PK
V	17235	40.38	49.16	15.27	40.45	46.94	54	-7.06	AV
H	11490	48.84	49.05	15.3	37.39	52.48	74	-21.52	PK
H	11490	41.63	49.05	15.3	37.39	45.27	54	-8.73	AV
H	17235	48.85	49.16	15.27	40.45	55.41	68.2	-12.79	PK
H	17235	40.26	49.16	15.27	40.45	46.82	54	-7.18	AV
operation frequency:5785									
V	11570	48.21	49.09	15.34	37.42	51.88	74	-22.12	PK
V	11570	41.16	49.09	15.34	37.42	44.83	54	-9.17	AV
V	17355	49.74	49.18	15.29	40.47	56.32	68.2	-11.88	PK
V	17355	40.63	49.18	15.29	40.47	47.21	54	-6.79	AV
H	11570	49.54	49.09	15.34	37.42	53.21	74	-20.79	PK
H	11570	43.42	49.09	15.34	37.42	47.09	54	-6.91	AV
H	17355	49.69	49.18	15.29	40.47	56.27	68.2	-11.93	PK
H	17355	40.85	49.18	15.29	40.47	47.43	54	-6.57	AV
operation frequency:5825									
V	11650	49.41	49.11	15.37	37.46	53.13	74	-20.87	PK
V	11650	41.83	49.11	15.37	37.46	45.55	54	-8.45	AV
V	17475	48.18	49.21	15.34	40.51	54.82	68.2	-13.38	PK
V	17475	40.26	49.21	15.34	40.51	46.9	54	-7.10	AV
H	11650	57.52	49.11	15.37	31.31	55.09	74	-18.91	PK
H	11650	44.53	49.11	15.37	31.31	42.1	54	-11.90	AV
H	17475	48.48	49.21	15.34	40.51	55.12	68.2	-13.08	PK
H	17475	40.54	49.21	15.34	40.51	47.18	54	-6.82	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5755									
V	11510	49.25	49.07	15.33	37.41	52.92	74	-21.08	PK
V	11510	42.89	49.07	15.33	37.41	46.56	54	-7.44	AV
V	17265	48.25	49.17	15.28	40.46	54.82	68.2	-13.38	PK
V	17265	41.23	49.17	15.28	40.46	47.8	54	-6.20	AV
H	11510	48.87	49.07	15.33	37.41	52.54	74	-21.46	PK
H	11510	42.96	49.07	15.33	37.41	46.63	54	-7.37	AV
H	17265	48.54	49.17	15.28	40.46	55.11	68.2	-13.09	PK
H	17265	40.87	49.17	15.28	40.46	47.44	54	-6.56	AV

operation frequency:5795

V	11590	49.63	49.11	15.37	37.46	53.35	74	-20.65	PK
V	11590	41.21	49.11	15.37	37.46	44.93	54	-9.07	AV
V	17385	48.76	49.21	15.34	40.51	55.4	68.2	-12.80	PK
V	17385	40.14	49.21	15.34	40.51	46.78	54	-7.22	AV
H	11590	57.56	49.11	15.37	31.31	55.13	74	-18.87	PK
H	11590	44.37	49.11	15.37	31.31	41.94	54	-12.06	AV
H	17385	48.46	49.21	15.34	40.51	55.1	68.2	-13.10	PK
H	17385	40.41	49.21	15.34	40.51	47.05	54	-6.95	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11ac HT80

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5775									
V	11550	48.56	49.07	15.33	37.41	52.23	74	-21.77	PK
V	11550	42.28	49.07	15.33	37.41	45.95	54	-8.05	AV
V	17325	49.32	49.17	15.28	40.46	55.89	68.2	-12.31	PK
V	17325	40.63	49.17	15.28	40.46	47.2	54	-6.80	AV
H	11550	48.34	49.07	15.33	37.41	52.01	74	-21.99	PK
H	11550	41.28	49.07	15.33	37.41	44.95	54	-9.05	AV
H	17325	48.23	49.17	15.28	40.46	54.8	68.2	-13.40	PK
H	17325	40.21	49.17	15.28	40.46	46.78	54	-7.22	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3 RADIATED OUT OF BAND-EDGE EMISSIONS

3.3.1 TEST REQUIREMENT:

15.407 (b)

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	5000MHz
Stop Frequency	5420MHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota 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.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

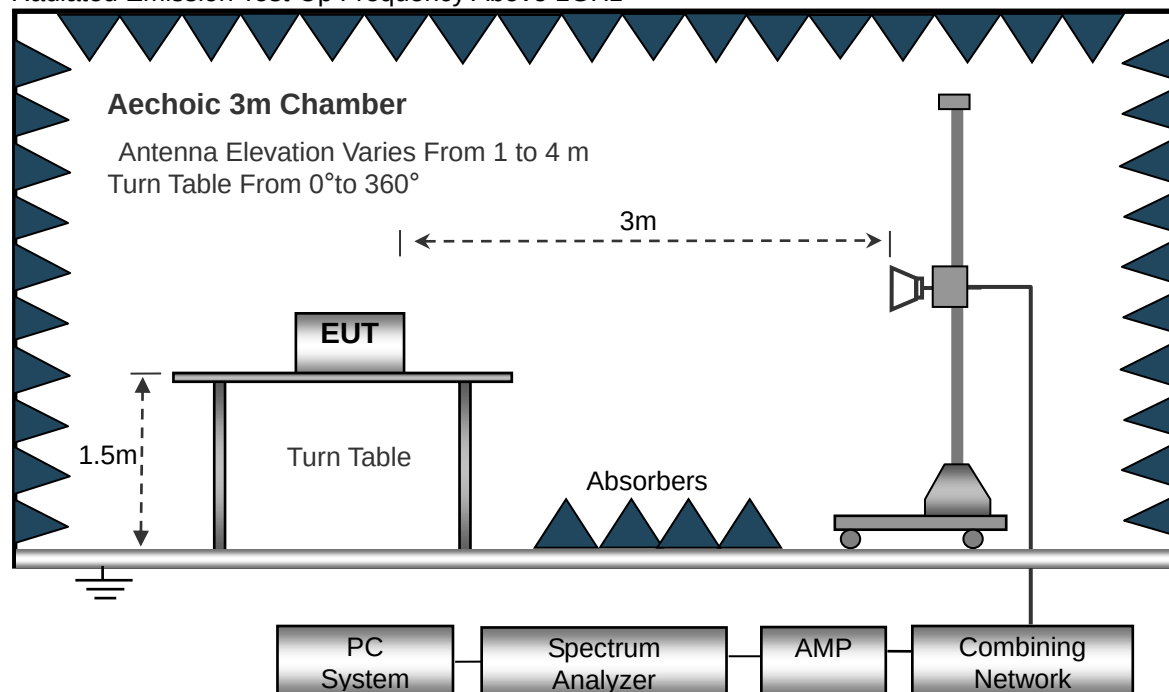
The horizontal and vertical polarities of the antenna were tested, and a pre-test was conducted on the EUT placement as three orthogonal axes X,Y,Z. The worst display of the test results was the Y-axis. The worst case emissions were reported.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.3.6 TEST RESULT**

802.11a

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	5150	53.68	49.12	15.6	37.34	57.5	74	-16.5	PK
V	5150	39.91	49.12	15.6	37.34	43.73	54	-10.27	AV
V	5145	54.96	49.19	15.24	40.43	61.44	74	-12.56	PK
V	5145	36.14	49.19	15.24	40.43	42.62	54	-11.38	AV
H	5150	52.52	49.12	15.6	37.34	56.34	74	-17.66	PK
H	5150	37.79	49.12	15.6	37.34	41.61	54	-12.39	AV
H	5145	54.54	49.19	15.24	40.43	61.02	74	-12.98	PK
H	5145	33.51	49.19	15.24	40.43	39.99	54	-14.01	AV
operation frequency:5240									
V	5350	53.36	49.13	15.32	37.46	57.01	74	-16.99	PK
V	5350	35.45	49.13	15.32	37.46	39.1	54	-14.9	AV
V	5370	53.52	49.24	15.36	40.51	60.15	74	-13.85	PK
V	5370	32.63	49.24	15.36	40.51	39.26	54	-14.74	AV
H	5350	52.14	49.13	15.32	31.31	49.64	74	-24.36	PK
H	5350	40.16	49.13	15.32	31.31	37.66	54	-16.34	AV
H	5370	52.28	49.24	15.36	40.51	58.91	74	-15.09	PK
H	5370	32.36	49.24	15.36	40.51	38.99	54	-15.01	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	5150	51.52	49.12	15.6	37.34	55.34	74	-18.66	PK
V	5150	33.14	49.12	15.6	37.34	36.96	54	-17.04	AV
V	5145	51.53	49.19	15.24	40.43	58.01	74	-15.99	PK
V	5145	33.28	49.19	15.24	40.43	39.76	54	-14.24	AV
H	5150	51.86	49.12	15.6	37.34	55.68	74	-18.32	PK
H	5150	33.41	49.12	15.6	37.34	37.23	54	-16.77	AV
H	5145	50.66	49.19	15.24	40.43	57.14	74	-16.86	PK
H	5145	32.85	49.19	15.24	40.43	39.33	54	-14.67	AV
operation frequency:5240									
V	5350	53.21	49.13	15.32	37.46	56.86	74	-17.14	PK
V	5350	34.33	49.13	15.32	37.46	37.98	54	-16.02	AV
V	5370	50.28	49.24	15.36	40.51	56.91	74	-17.09	PK
V	5370	33.61	49.24	15.36	40.51	40.24	54	-13.76	AV
H	5350	54.53	49.13	15.32	31.31	52.03	74	-21.97	PK
H	5350	36.68	49.13	15.32	31.31	34.18	54	-19.82	AV
H	5370	51.52	49.24	15.36	40.51	58.15	74	-15.85	PK
H	5370	33.83	49.24	15.36	40.51	40.46	54	-13.54	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5180									
V	5150	52.52	49.12	15.33	37.41	56.14	74	-17.86	PK
V	5150	34.63	49.12	15.33	37.41	38.25	54	-15.75	AV
V	5145	51.89	49.19	15.28	40.46	58.44	74	-15.56	PK
V	5145	33.25	49.19	15.28	40.46	39.8	54	-14.2	AV
H	5150	52.86	49.12	15.33	37.41	56.48	74	-17.52	PK
H	5150	34.21	49.12	15.33	37.41	37.83	54	-16.17	AV
H	5145	50.84	49.19	15.28	40.46	57.39	74	-16.61	PK
H	5145	33.43	49.19	15.28	40.46	39.98	54	-14.02	AV
operation frequency:5240									
V	5350	53.85	49.13	15.32	37.46	57.5	74	-16.5	PK
V	5350	36.25	49.13	15.32	37.46	39.9	54	-14.1	AV
V	5370	50.33	49.24	15.36	40.51	56.96	74	-17.04	PK
V	5370	33.64	49.24	15.36	40.51	40.27	54	-13.73	AV
H	5350	53.85	49.13	15.32	31.31	51.35	74	-22.65	PK
H	5350	40.83	49.13	15.32	31.31	38.33	54	-15.67	AV
H	5370	51.35	49.24	15.36	40.51	57.98	74	-16.02	PK
H	5370	35.56	49.24	15.36	40.51	42.19	54	-11.81	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	5150	52.21	49.12	15.6	37.39	56.08	74	-17.92	PK
V	5150	35.63	49.12	15.6	37.39	39.5	54	-14.5	AV
V	5145	51.45	49.19	15.24	40.45	57.95	74	-16.05	PK
V	5145	34.89	49.19	15.24	40.45	41.39	54	-12.61	AV
H	5150	52.25	49.12	15.6	37.39	56.12	74	-17.88	PK
H	5150	34.64	49.12	15.6	37.39	38.51	54	-15.49	AV
H	5145	50.56	49.19	15.24	40.45	57.06	74	-16.94	PK
H	5145	35.85	49.19	15.24	40.45	42.35	54	-11.65	AV
operation frequency:5230									
V	5350	53.21	49.13	15.34	37.46	56.88	74	-17.12	PK
V	5350	37.36	49.13	15.34	37.46	41.03	54	-12.97	AV
V	5370	50.85	49.24	15.35	40.51	57.47	74	-16.53	PK
V	5370	36.66	49.24	15.35	40.51	43.28	54	-10.72	AV
H	5350	54.14	49.13	15.34	31.31	51.66	74	-22.34	PK
H	5350	41.89	49.13	15.34	31.31	39.41	54	-14.59	AV
H	5370	52.25	49.24	15.35	40.51	58.87	74	-15.13	PK
H	5370	36.26	49.24	15.35	40.51	42.88	54	-11.12	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



802.11ac HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	5150	52.21	49.12	15.32	37.41	55.82	74	-18.18	PK
V	5150	37.43	49.12	15.32	37.41	41.04	54	-12.96	AV
V	5145	52.68	49.19	15.36	40.46	59.31	74	-14.69	PK
V	5145	36.63	49.19	15.36	40.46	43.26	54	-10.74	AV
H	5150	52.85	49.12	15.32	37.41	56.46	74	-17.54	PK
H	5150	37.84	49.12	15.32	37.41	41.45	54	-12.55	AV
H	5145	51.63	49.19	15.36	40.46	58.26	74	-15.74	PK
H	5145	36.15	49.19	15.36	40.46	42.78	54	-11.22	AV
operation frequency:5230									
V	5350	54.21	49.13	15.34	37.34	57.76	74	-16.24	PK
V	5350	36.63	49.13	15.34	37.34	40.18	54	-13.82	AV
V	5370	51.58	49.24	15.35	40.43	58.12	74	-15.88	PK
V	5370	36.75	49.24	15.35	40.43	43.29	54	-10.71	AV
H	5350	54.54	49.13	15.34	37.34	58.09	74	-15.91	PK
H	5350	41.63	49.13	15.34	37.34	45.18	54	-8.82	AV
H	5370	50.68	49.24	15.35	40.43	57.22	74	-16.78	PK
H	5370	35.21	49.24	15.35	40.43	41.75	54	-12.25	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5210									
V	5150	52.96	49.13	15.32	37.48	56.63	74	-17.37	PK
V	5150	35.91	49.13	15.32	37.48	39.58	54	-14.42	AV
V	5145	51.84	49.24	15.36	40.42	58.38	74	-15.62	PK
V	5145	35.83	49.24	15.36	40.42	42.37	54	-11.63	AV
H	5150	52.89	49.13	15.32	37.48	56.56	74	-17.44	PK
H	5150	36.14	49.13	15.32	37.48	39.81	54	-14.19	AV
H	5145	50.36	49.24	15.36	40.42	56.9	74	-17.1	PK
H	5145	35.85	49.24	15.36	40.42	42.39	54	-11.61	AV
operation frequency:5210									
V	5350	52.25	49.13	15.32	37.48	55.92	74	-18.08	PK
V	5350	35.99	49.13	15.32	37.48	39.66	54	-14.34	AV
V	5370	51.81	49.24	15.36	40.42	58.35	74	-15.65	PK
V	5370	35.88	49.24	15.36	40.42	42.42	54	-11.58	AV
H	5350	52.21	49.13	15.32	37.48	55.88	74	-18.12	PK
H	5350	36.63	49.13	15.32	37.48	40.3	54	-13.7	AV
H	5370	50.34	49.24	15.36	40.42	56.88	74	-17.12	PK
H	5370	35.21	49.24	15.36	40.42	41.75	54	-12.25	AV
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit 2. If peak below the average limit, the average emission was no test. 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5745									
V	5725	51.22	48.32	15.24	37.37	55.51	68.2	-12.69	PK
V	5725	40.84	48.32	15.24	37.37	45.13	54	-8.87	AV
V	5720	51.99	48.36	15.27	37.39	56.29	74	-17.71	PK
V	5720	41.58	48.36	15.27	37.39	45.88	54	-8.12	AV
H	5725	51.53	48.32	15.24	37.37	55.82	68.2	-12.38	PK
H	5725	40.67	48.32	15.24	37.37	44.96	54	-9.04	AV
H	5720	50.16	48.36	15.27	37.39	54.46	74	-19.54	PK
H	5720	40.67	48.36	15.27	37.39	44.97	54	-9.03	AV
operation frequency:5825									
V	5850	51.16	46.38	12.43	35.65	52.86	68.2	-15.34	PK
V	5850	40.88	46.38	12.43	35.65	42.58	54	-11.42	AV
V	5870	51.14	46.56	12.47	35.76	52.81	68.2	-15.39	PK
V	5870	40.63	46.56	12.47	35.76	42.3	54	-11.7	AV
H	5850	50.58	46.38	12.43	35.65	52.28	68.2	-15.92	PK
H	5850	40.63	46.38	12.43	35.65	42.33	54	-11.67	AV
H	5870	51.14	46.56	12.47	35.76	52.81	68.2	-15.39	PK
H	5870	40.36	46.56	12.47	35.76	42.03	54	-11.97	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5745									
V	5725	55.25	46.55	12.65	35.87	57.22	68.2	-10.98	PK
V	5725	42.96	46.55	12.65	35.87	44.93	54	-9.07	AV
V	5720	55.85	46.58	12.67	35.93	57.87	68.2	-10.33	PK
V	5720	42.35	46.58	12.67	35.93	44.37	54	-9.63	AV
H	5725	55.63	46.55	12.65	35.87	57.6	68.2	-10.6	PK
H	5725	42.41	46.55	12.65	35.87	44.38	54	-9.62	AV
H	5720	55.18	46.58	12.67	35.93	57.2	68.2	-11	PK
H	5720	42.36	46.58	12.67	35.93	44.38	54	-9.62	AV
operation frequency:5825									
V	5850	50.14	47.36	13.18	36.26	52.22	68.2	-15.98	PK
V	5850	40.38	47.36	13.18	36.26	42.46	54	-11.54	AV
V	5870	51.43	47.38	13.2	36.29	53.54	68.2	-14.66	PK
V	5870	41.14	47.38	13.2	36.29	43.25	54	-10.75	AV
H	5850	51.19	47.36	13.18	36.26	53.27	68.2	-14.93	PK
H	5850	41.64	47.36	13.18	36.26	43.72	54	-10.28	AV
H	5870	51.36	47.38	13.2	36.29	53.47	68.2	-14.73	PK
H	5870	40.57	47.38	13.2	36.29	42.68	54	-11.32	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5180									
V	5725	50.25	48.32	15.24	37.37	54.54	68.2	-13.66	PK
V	5725	41.52	48.32	15.24	37.37	45.81	54	-8.19	AV
V	5720	51.14	48.36	15.27	37.39	55.44	74	-18.56	PK
V	5720	41.19	48.36	15.27	37.39	45.49	54	-8.51	AV
H	5725	50.52	48.32	15.24	37.37	54.81	68.2	-13.39	PK
H	5725	40.21	48.32	15.24	37.37	44.5	54	-9.5	AV
H	5720	51.63	48.36	15.27	37.39	55.93	74	-18.07	PK
H	5720	40.85	48.36	15.27	37.39	45.15	54	-8.85	AV
operation frequency:5240									
V	5850	51.21	46.38	12.43	35.65	52.91	68.2	-15.29	PK
V	5850	40.73	46.38	12.43	35.65	42.43	54	-11.57	AV
V	5870	51.85	46.56	12.47	35.76	53.52	68.2	-14.68	PK
V	5870	40.94	46.56	12.47	35.76	42.61	54	-11.39	AV
H	5850	51.21	46.38	12.43	35.65	52.91	68.2	-15.29	PK
H	5850	40.93	46.38	12.43	35.65	42.63	54	-11.37	AV
H	5870	51.85	46.56	12.47	35.76	53.52	68.2	-14.68	PK
H	5870	40.83	46.56	12.47	35.76	42.5	54	-11.5	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5755									
V	5725	56.58	46.55	12.65	35.87	58.55	68.2	-9.65	PK
V	5725	43.69	46.55	12.65	35.87	45.66	54	-8.34	AV
V	5720	56.74	46.58	12.67	35.93	58.76	68.2	-9.44	PK
V	5720	43.21	46.58	12.67	35.93	45.23	54	-8.77	AV
H	5725	55.63	46.55	12.65	35.87	57.6	68.2	-10.6	PK
H	5725	42.34	46.55	12.65	35.87	44.31	54	-9.69	AV
H	5720	55.36	46.58	12.67	35.93	57.38	68.2	-10.82	PK
H	5720	42.67	46.58	12.67	35.93	44.69	54	-9.31	AV
operation frequency:5795									
V	5850	51.21	47.36	13.18	36.26	53.29	68.2	-14.91	PK
V	5850	41.63	47.36	13.18	36.26	43.71	54	-10.29	AV
V	5870	51.21	47.38	13.2	36.29	53.32	68.2	-14.88	PK
V	5870	41.85	47.38	13.2	36.29	43.96	54	-10.04	AV
H	5850	51.21	47.36	13.18	36.26	53.29	68.2	-14.91	PK
H	5850	41.52	47.36	13.18	36.26	43.6	54	-10.4	AV
H	5870	51.27	47.38	13.2	36.29	53.38	68.2	-14.82	PK
H	5870	40.15	47.38	13.2	36.29	42.26	54	-11.74	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac HT40

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	5725	51.14	48.32	15.24	37.37	55.43	68.2	-12.77	PK
V	5725	41.33	48.32	15.24	37.37	45.62	54	-8.38	AV
V	5720	51.38	48.36	15.27	37.39	55.68	74	-18.32	PK
V	5720	41.65	48.36	15.27	37.39	45.95	54	-8.05	AV
H	5725	51.53	48.32	15.24	37.37	55.82	68.2	-12.38	PK
H	5725	40.14	48.32	15.24	37.37	44.43	54	-9.57	AV
H	5720	51.18	48.36	15.27	37.39	55.48	74	-18.52	PK
H	5720	40.36	48.36	15.27	37.39	44.66	54	-9.34	AV
operation frequency:5230									
V	5850	51.21	46.38	12.43	35.65	52.91	68.2	-15.29	PK
V	5850	40.18	46.38	12.43	35.65	41.88	54	-12.12	AV
V	5870	51.58	46.56	12.47	35.76	53.25	68.2	-14.95	PK
V	5870	40.63	46.56	12.47	35.76	42.3	54	-11.7	AV
H	5850	51.41	46.38	12.43	35.65	53.11	68.2	-15.09	PK
H	5850	40.83	46.38	12.43	35.65	42.53	54	-11.47	AV
H	5870	51.18	46.56	12.47	35.76	52.85	68.2	-15.35	PK
H	5870	40.31	46.56	12.47	35.76	41.98	54	-12.02	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:5775									
V	5725	55.21	46.55	12.65	35.87	57.18	68.2	-11.02	PK
V	5725	42.36	46.55	12.65	35.87	44.33	54	-9.67	AV
V	5720	54.84	46.58	12.67	35.93	56.86	68.2	-11.34	PK
V	5720	42.48	46.58	12.67	35.93	44.5	54	-9.5	AV
H	5725	55.62	46.55	12.65	35.87	57.59	68.2	-10.61	PK
H	5725	43.34	46.55	12.65	35.87	45.31	54	-8.69	AV
H	5720	55.11	46.58	12.67	35.93	57.13	68.2	-11.07	PK
H	5720	42.26	46.58	12.67	35.93	44.28	54	-9.72	AV
V	5850	51.21	47.36	13.18	36.26	53.29	68.2	-14.91	PK
V	5850	41.88	47.36	13.18	36.26	43.96	54	-10.04	AV
V	5870	51.63	47.38	13.2	36.29	53.74	68.2	-14.46	PK
V	5870	40.52	47.38	13.2	36.29	42.63	54	-11.37	AV
H	5850	51.63	47.36	13.18	36.26	53.71	68.2	-14.49	PK
H	5850	40.41	47.36	13.18	36.26	42.49	54	-11.51	AV
H	5870	51.33	47.38	13.2	36.29	53.44	68.2	-14.76	PK
H	5870	41.21	47.38	13.2	36.29	43.32	54	-10.68	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Note:1. The antenna gain is compensated in the test data.



3.4 CONDUCTED BAND EMISSION MEASUREMENT

3.4.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.407

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	5150MHz	5725MHz
Stop Frequency	5250MHz	5850MHz
RB / VB (emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 10Hz for Average	

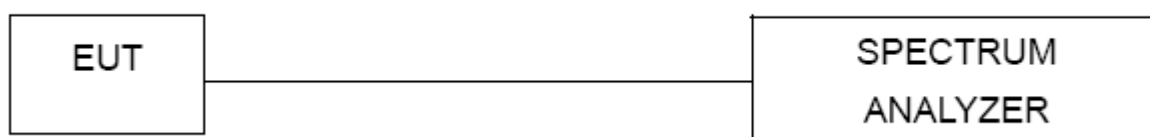
3.4.2 TEST PROCEDURE

Test method: FCC KDB 789033 G)& Parts 15.407(b)(4) & 15.209(a)

3.4.3 DEVIATION FROM TEST STANDARD

No deviation

3.4.4 TEST SETUP



3.4.5 EUT OPERATING CONDITIONS

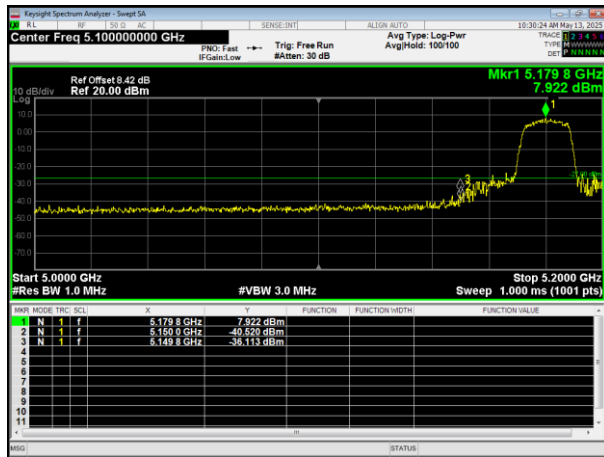
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



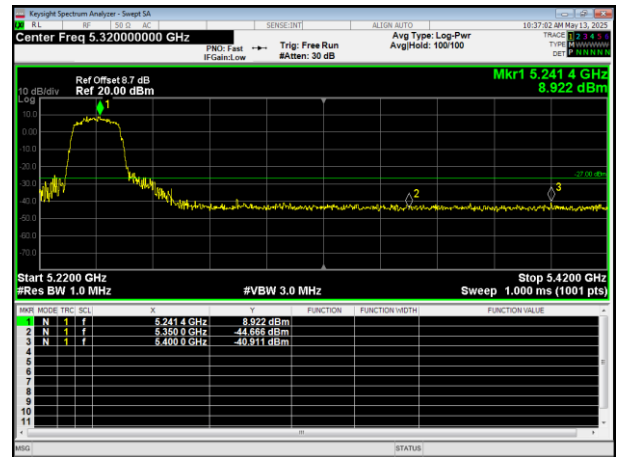
3.4.6 TEST RESULT

The antenna gain is compensated in the test data.

802.11a

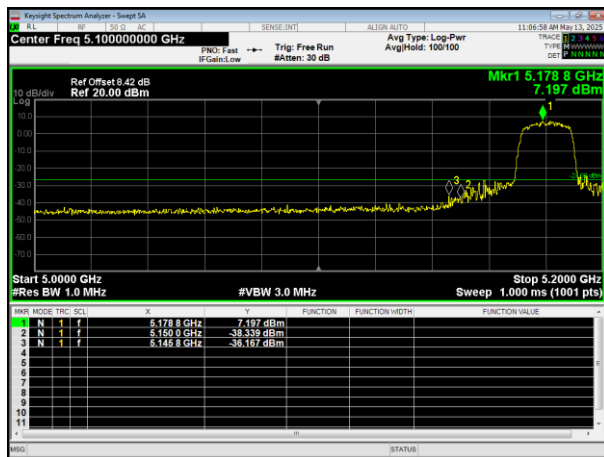


5180MHz

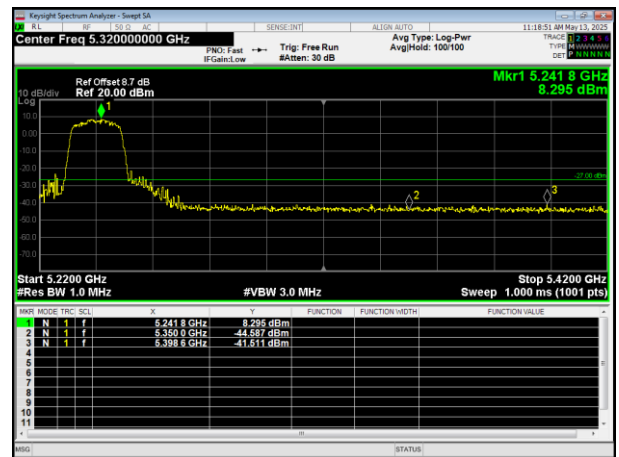


5240MHz

802.11ac HT20

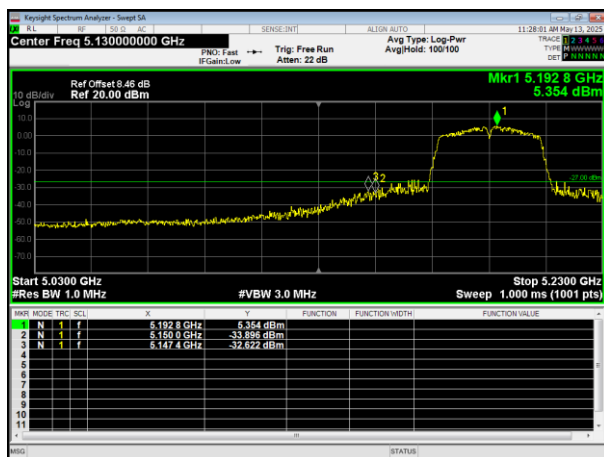


5180MHz

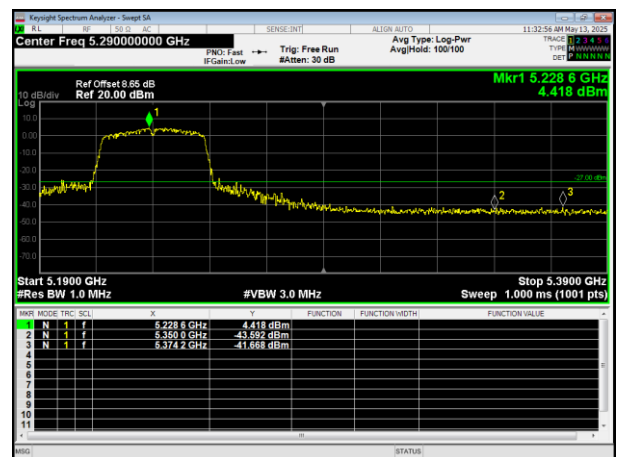


5240MHz

802.11ac HT40



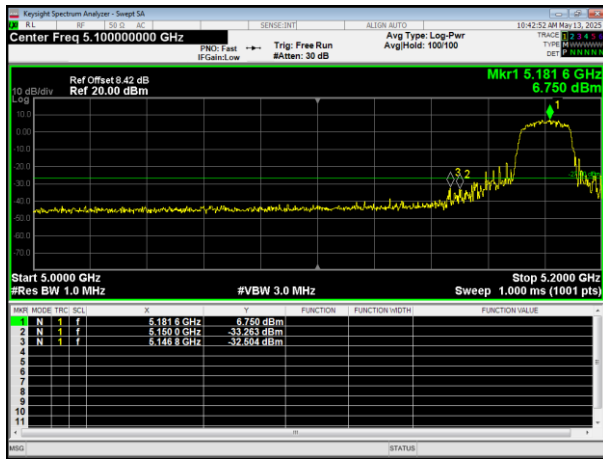
5190MHz



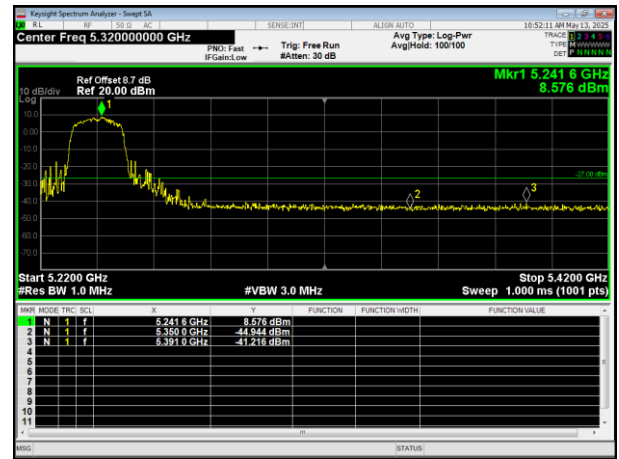
5230MHz



802.11n HT20

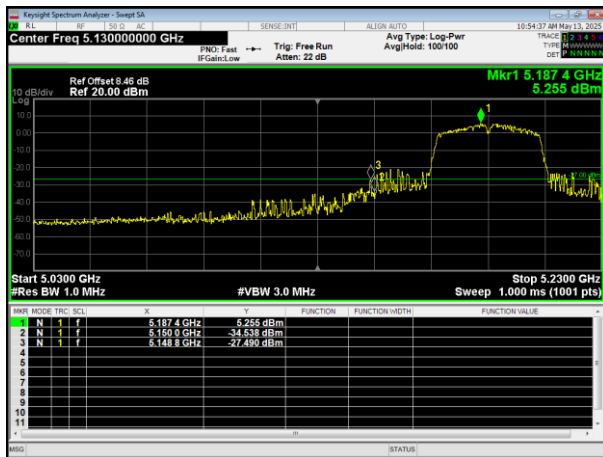


5180MHz



5240MHz

802.11n HT40

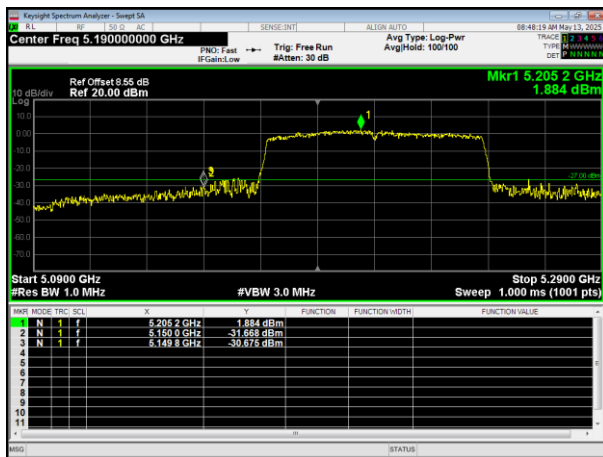


5190MHz

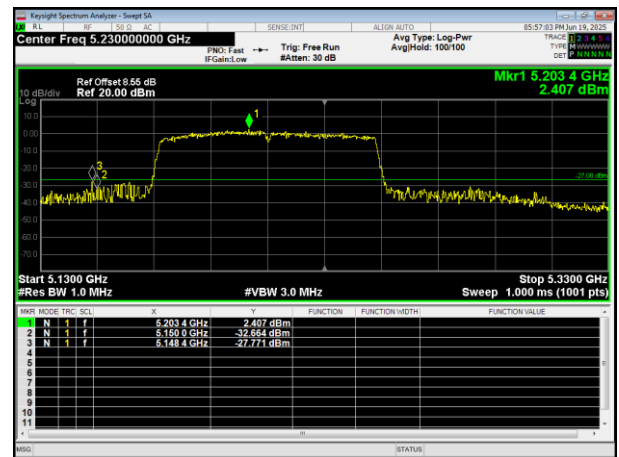


5230MHz

802.11ac HT80



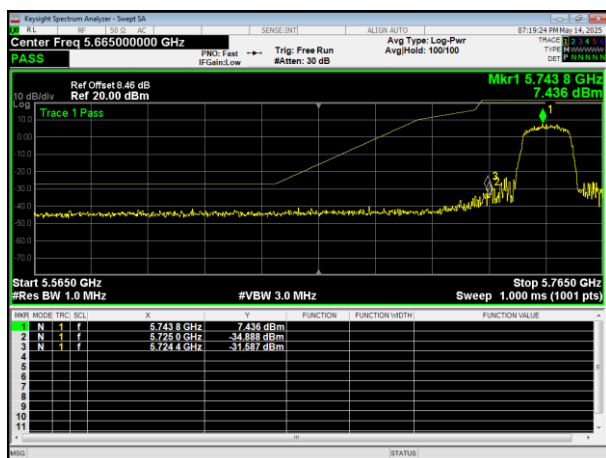
5210MHz



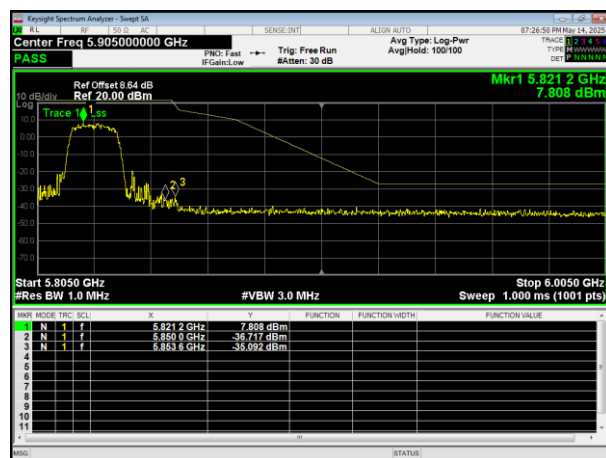
5210MHz



802.11a

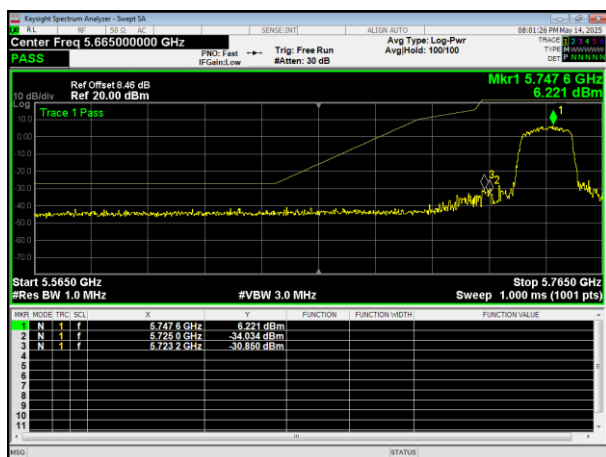


5745MHz

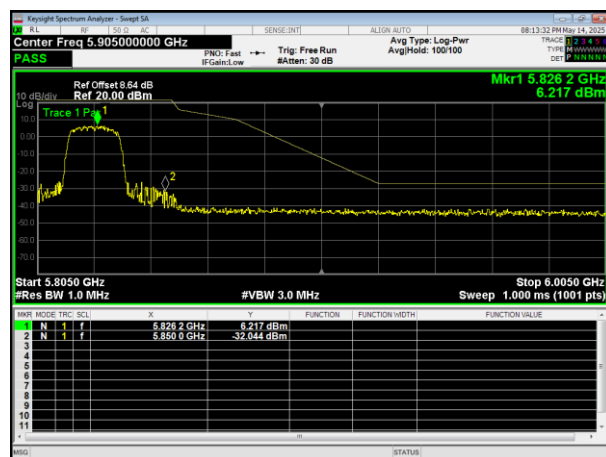


5825MHz

802.11ac HT20

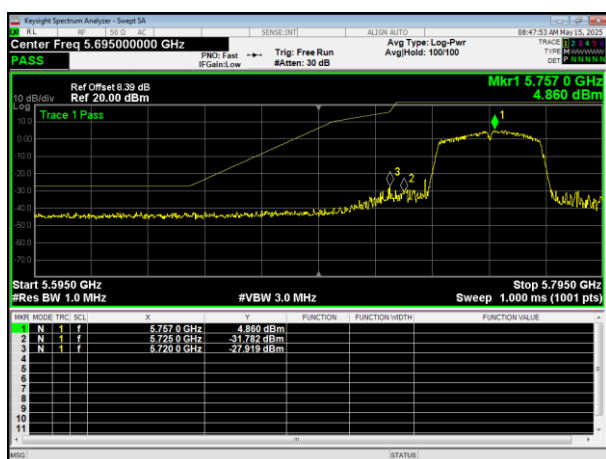


5745MHz

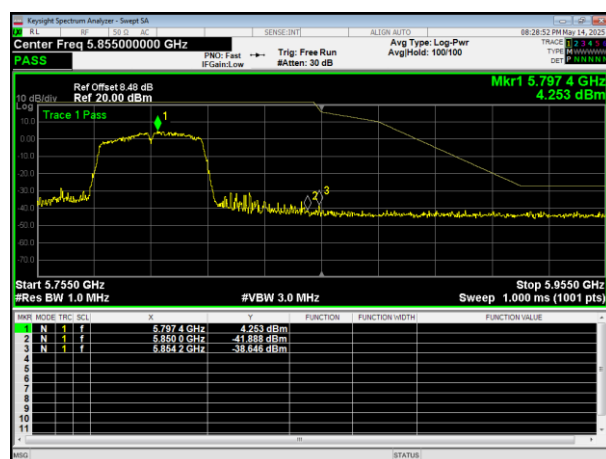


5825MHz

802.11ac HT40



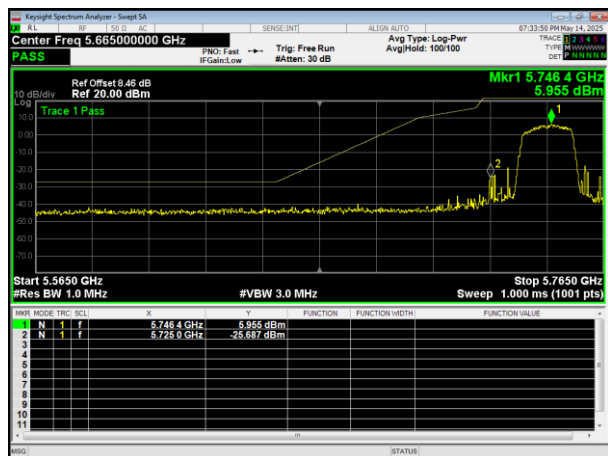
5755MHz



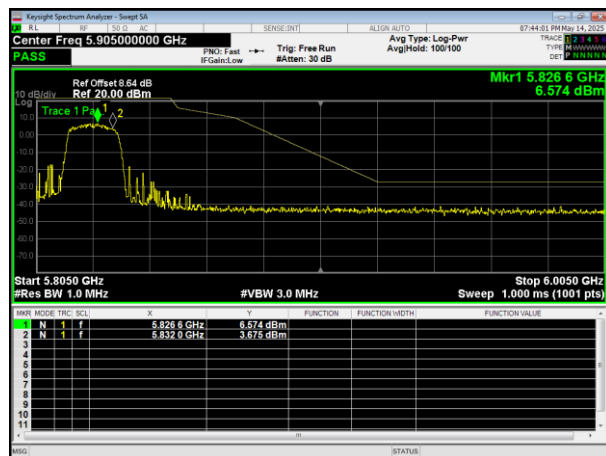
5795MHz



802.11n HT20

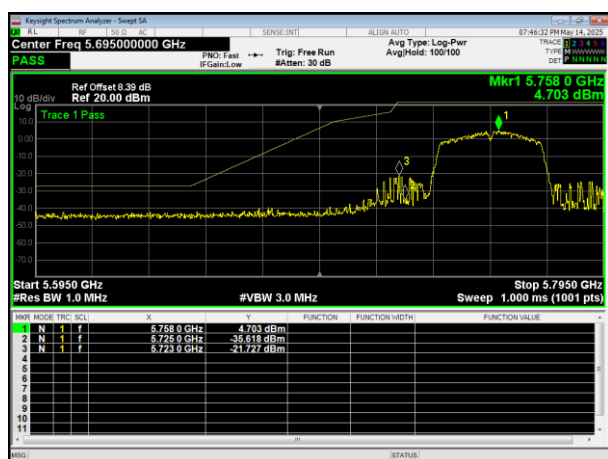


5745MHz



5825MHz

802.11n HT40



5755MHz

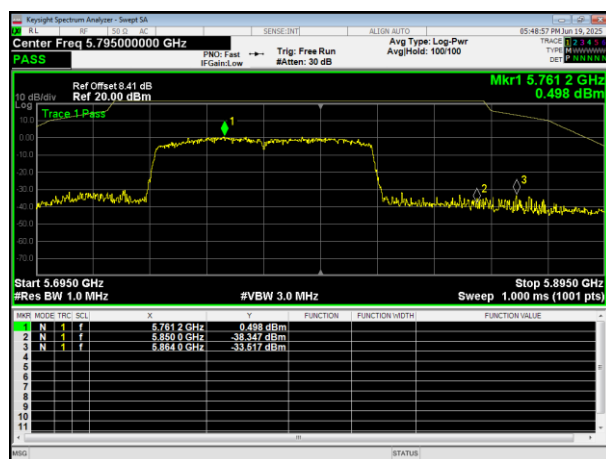


5795MHz

802.11ac HT80



5775MHz



5775MHz



4.. AVERAGING OUTPUT POWER

4.1. APPLIED PROCEDURES / LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

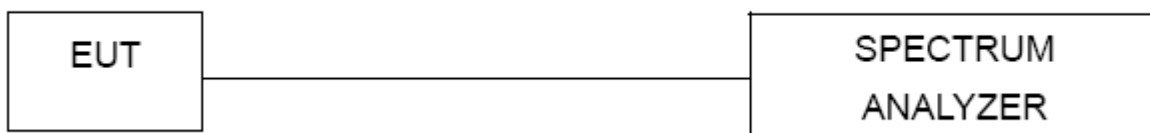
4.1.1. TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW = 1MHz
Span $\geq 99\%$ OBW(30MHz/60MHz/120MHz etc.)
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
Trace = max hold

4.1.2. DEVIATION FROM STANDARD

No deviation.

4.1.3. TEST SETUP



4.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**4.1.5. TEST RESULTS**

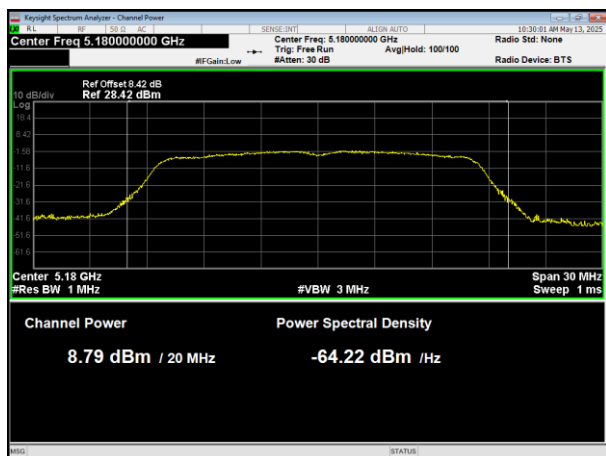
Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz

Band	Mode	Test Channel	Average Output Power (dBm)	Duty factor (dB)	Total Output Power(dBm)	LIMIT (dBm)
Band 1	802.11a	Low	8.79	0.87	9.66	23.98
		Middle	8.39	0.87	9.26	23.98
		High	10.54	0.87	11.41	23.98
	802.11ac HT20	Low	9.73	0.13	9.86	23.98
		Middle	9.15	0.13	9.28	23.98
		High	11.21	0.13	11.34	23.98
	802.11ac HT40	Low	10.31	0.26	10.57	23.98
		High	10.00	0.26	10.26	23.98
	802.11ac HT80	/	10.36	0.5	10.86	23.98
	802.11n HT20	Low	9.53	0.13	9.66	23.98
		Middle	9.12	0.13	9.25	23.98
		High	11.20	0.13	11.33	23.98
	802.11n HT40	Low	10.24	0.33	10.57	23.98
		High	9.94	0.26	10.20	23.98

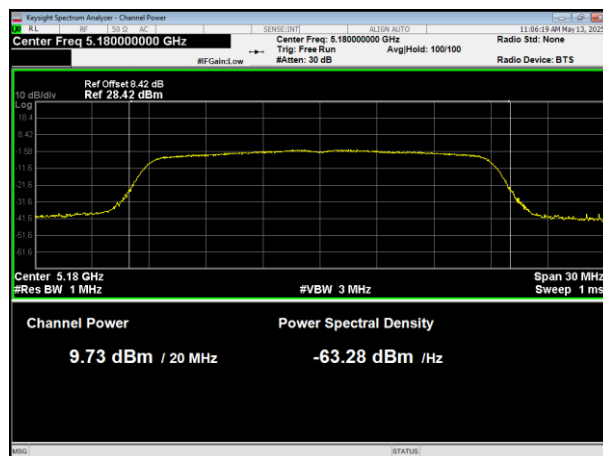
Band	Mode	Test Channel	Average Output Power (dBm)	Duty factor (dB)	Total Output Power(dBm)	LIMIT (dBm)
Band 4	802.11a	Low	8.26	1.12	9.38	30
		Middle	7.82	0.87	8.69	30
		High	8.95	0.87	9.82	30
	802.11ac HT20	Low	8.54	0.13	8.67	30
		Middle	8.09	0.13	8.22	30
		High	9.08	0.13	9.21	30
	802.11ac HT40	Low	9.43	0.26	9.69	30
		High	9.34	0.32	9.66	30
	802.11ac HT80	/	9.28	0.51	9.79	30
	802.11n HT20	Low	8.54	0.13	8.67	30
		Middle	8.14	0.13	8.27	30
		High	9.34	0	9.34	30
	802.11n HT40	Low	8.95	0.26	9.21	30
		High	9.10	0.32	9.42	30



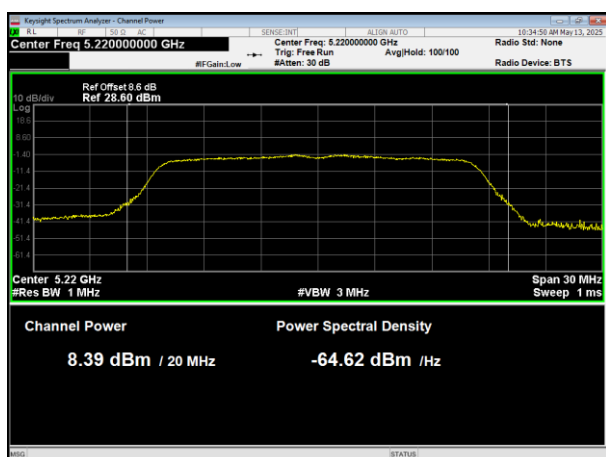
802.11a



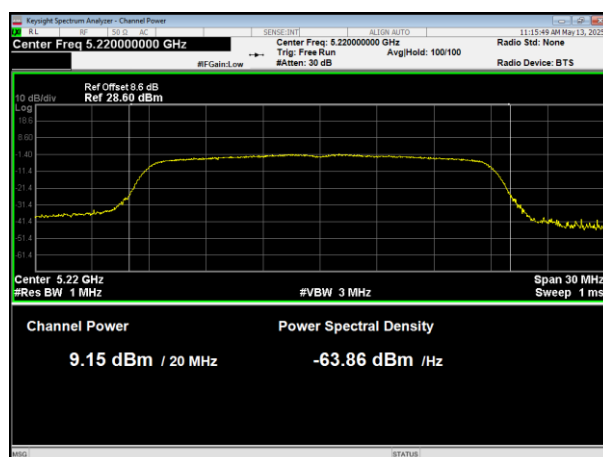
802.11ac HT20



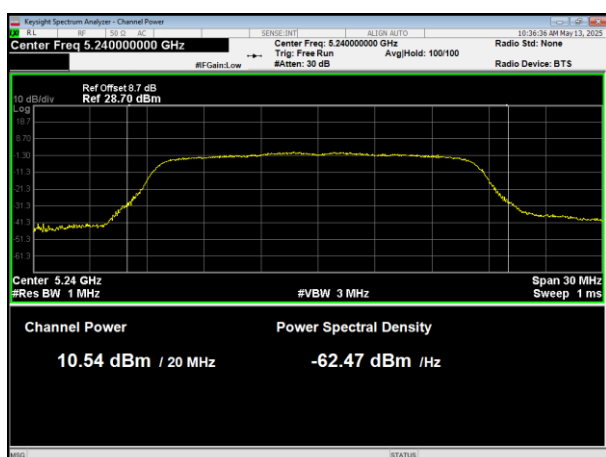
5180MHz



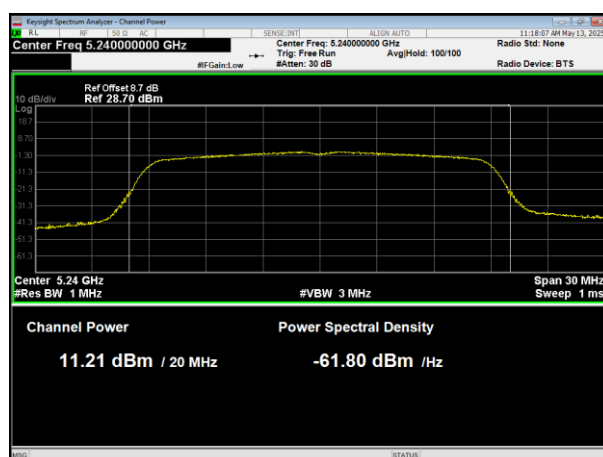
5180MHz



5200MHz



5200MHz

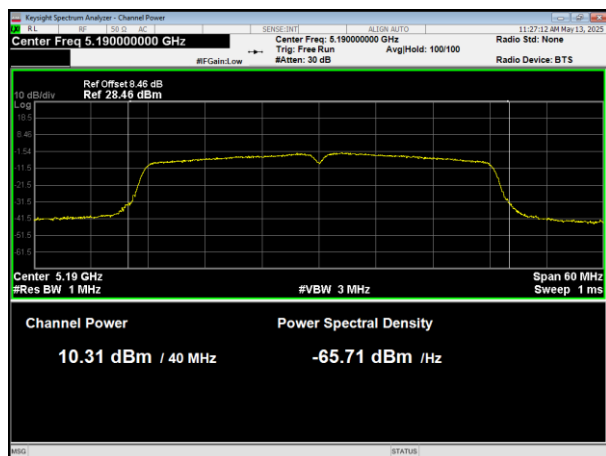


5240MHz

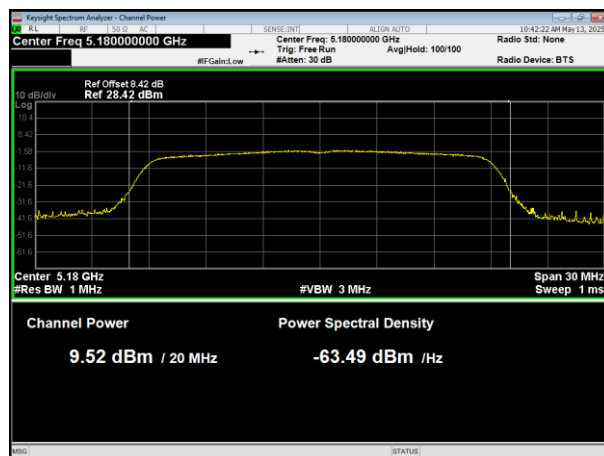
5240MHz



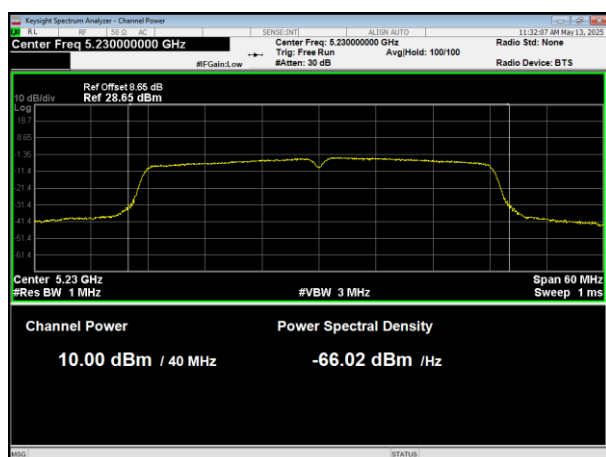
802.11ac HT40



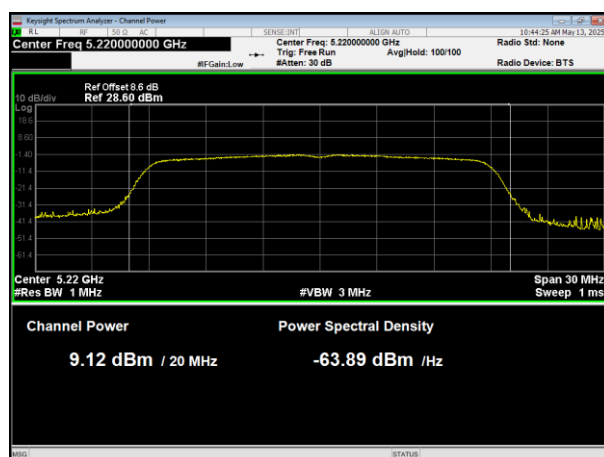
802.11n HT20



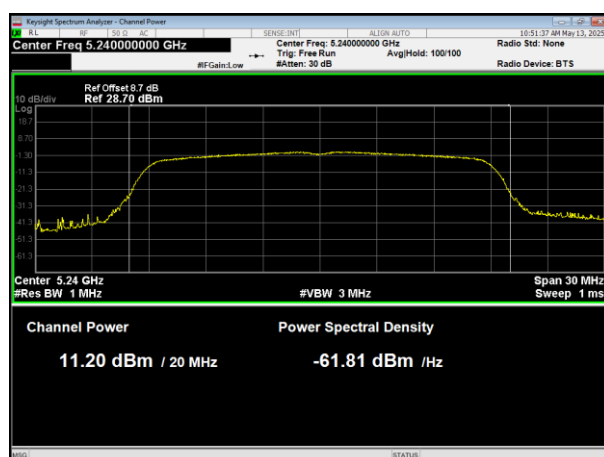
5190MHz



5180MHz



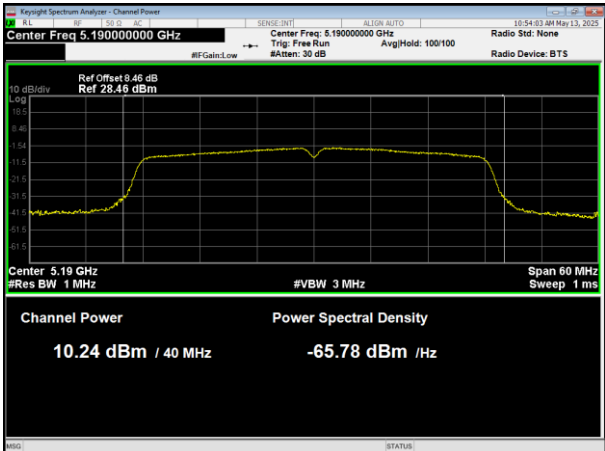
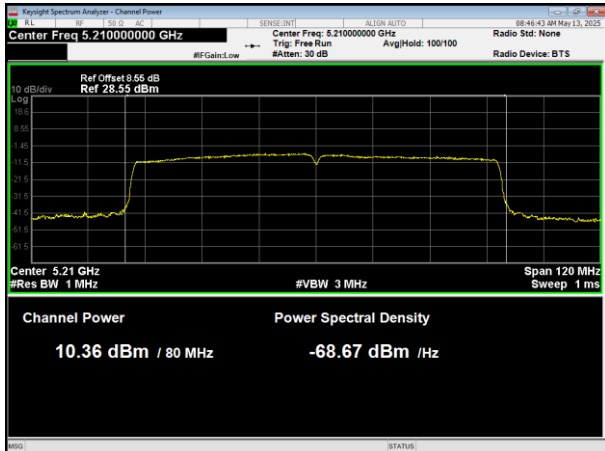
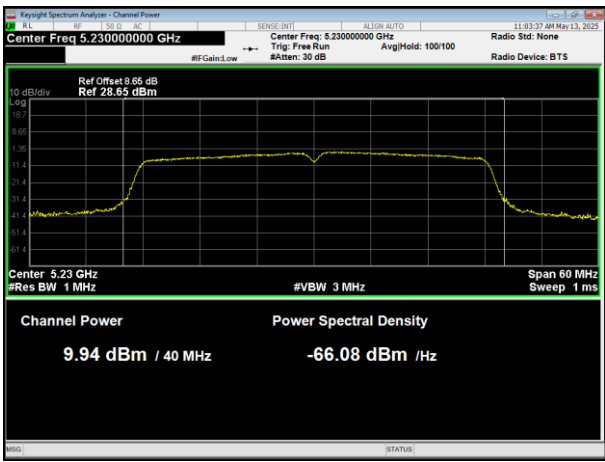
5230MHz



5200MHz

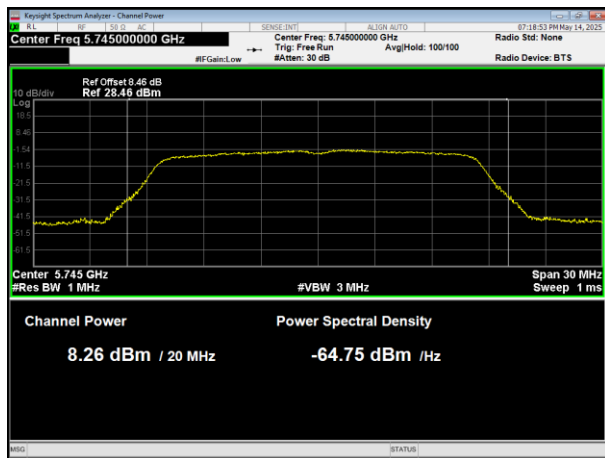
5240MHz



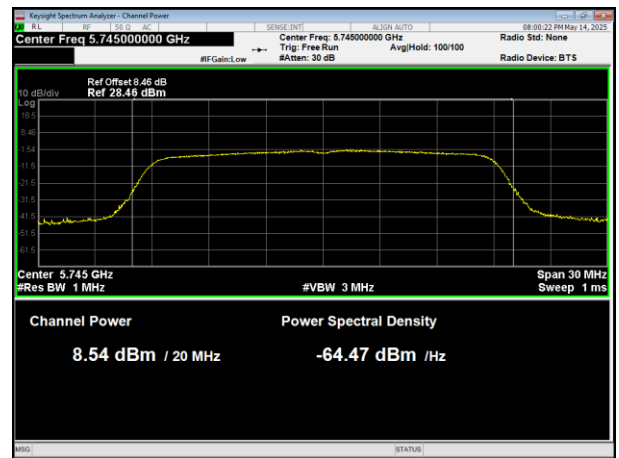
802.11n HT40 	802.11ac HT80 
5190MHz 	5210MHz 
5230MHz	



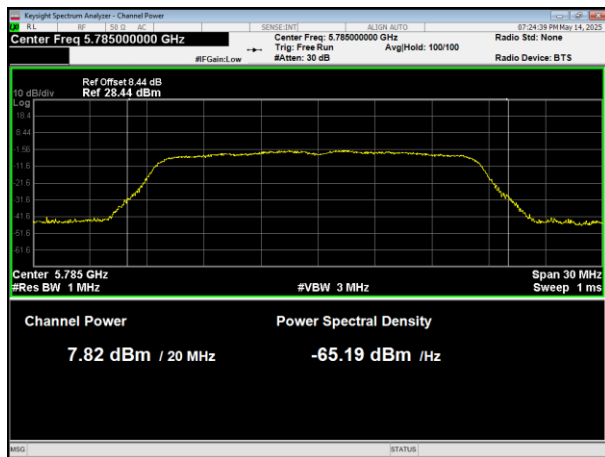
802.11a



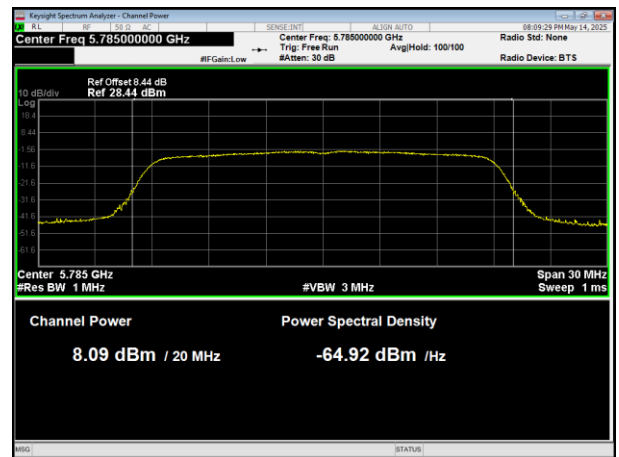
802.11ac HT20



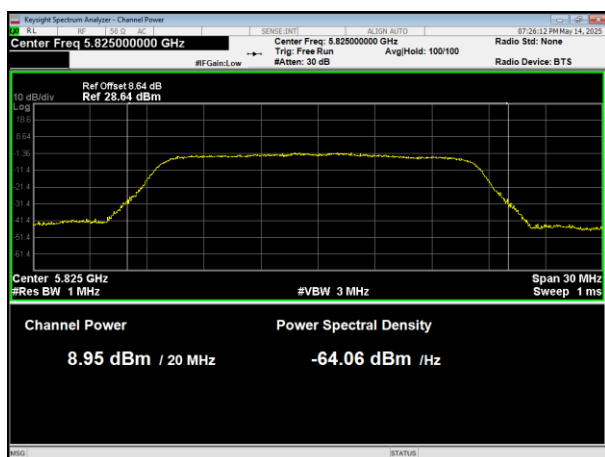
5745MHz



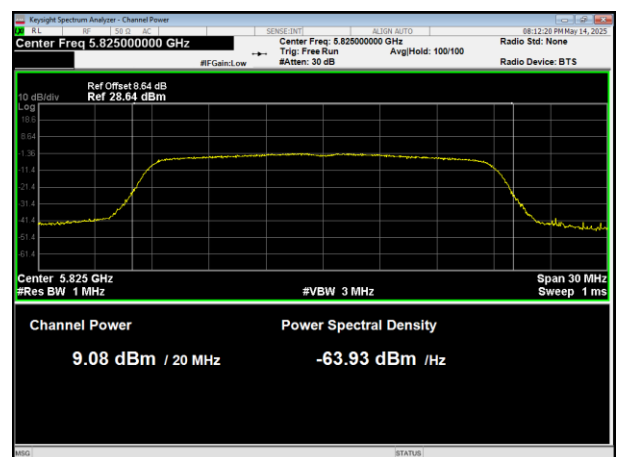
5745MHz



5785MHz



5785MHz

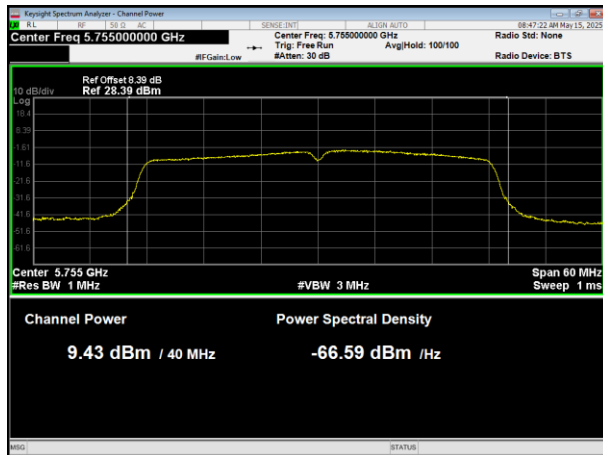


5825MHz

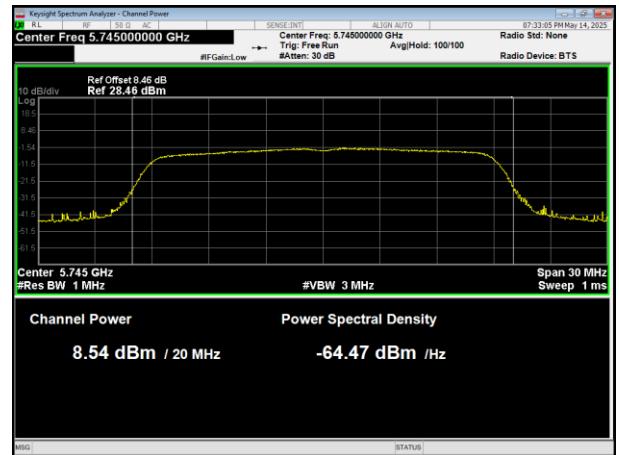
5825MHz



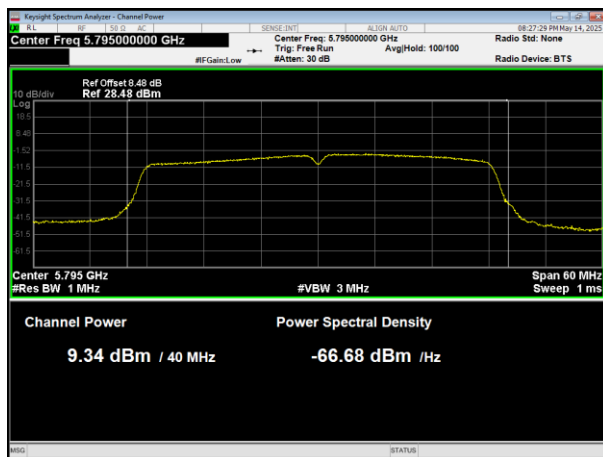
802.11ac HT40



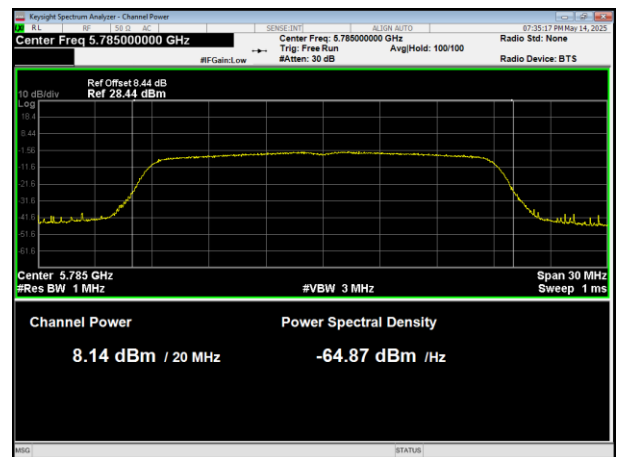
802.11n HT20



5755MHz



5745MHz



5795MHz

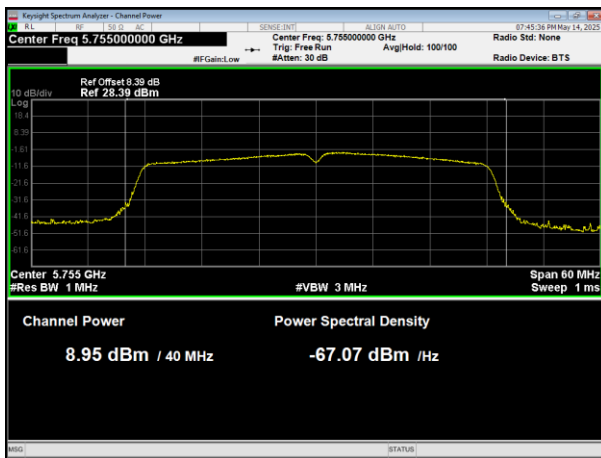
5785MHz



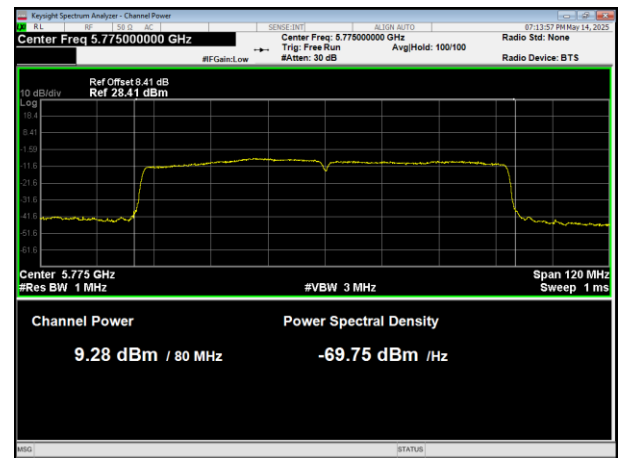
5825MHz



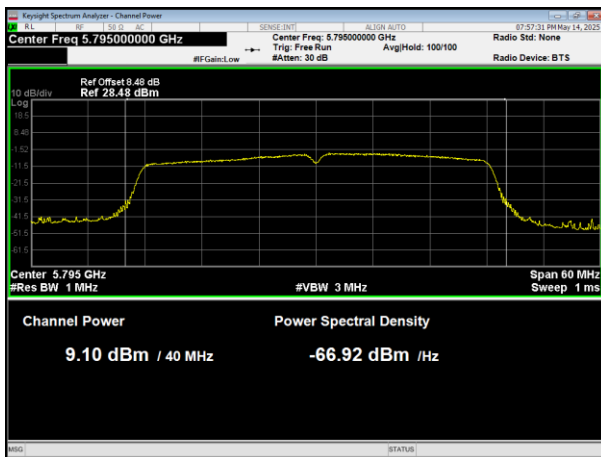
802.11n HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



5.. POWER SPECTRAL DENSITY TEST

5.1. APPLIED PROCEDURES / LIMIT

In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW $\geq$ 1MHz for band 1 RBW $\geq$ 510KHz for band 4
VB	VBW $\geq$ 3RBW
Detector	RMS (i.e., power averaging).
Trace	Max Hold
Sweep Time	Auto

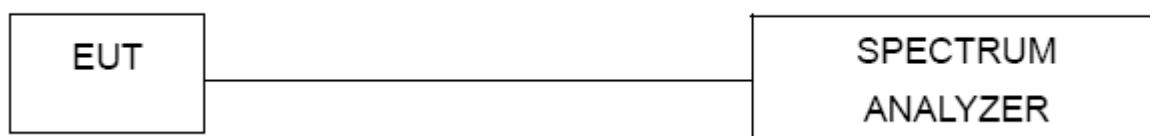
5.1.1. TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=510 kHz, VBW=3*RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
we test all antennas, the antenna 1 was worst mode and the data recording in the report.
7. Duty factor Reference is made to the test results in Section 7.1.5.

5.1.2. DEVIATION FROM STANDARD

No deviation.

5.1.3. TEST SETUP



5.1.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.5. TEST RESULTS

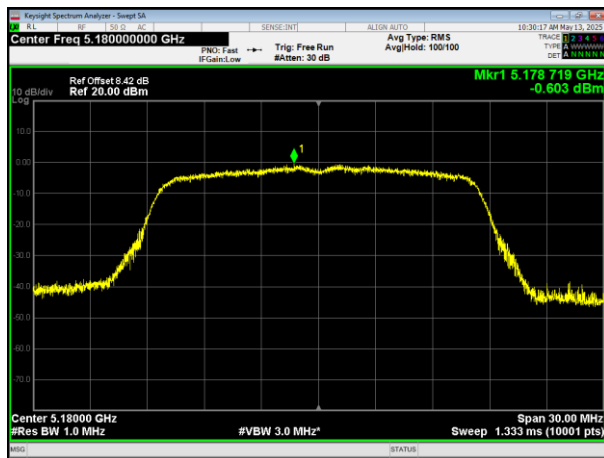
	Mode	Test Channel	Reading Level (dBm/MHz)	Duty factor (dB)	PSD (dBm/MHz)	Limit (dBm)	Result
Band1	802.11a	Low	-0.603	0.87	0.267	11.00	PASS
		Middle	-1.056	0.87	-0.186	11.00	PASS
		High	1.22	0.87	2.09	11.00	PASS
	802.11ac20	Low	0.133	0.13	0.263	11.00	PASS
		Middle	-0.754	0.13	-0.624	11.00	PASS
		High	1.679	0.13	1.809	11.00	PASS
	802.11ac40	Low	-2.048	0.26	-1.788	11.00	PASS
		High	-2.847	0.26	-2.587	11.00	PASS
	802.11ac80	/	-5.668	0.5	-5.168	11.00	PASS
	802.11n20	Low	0.003	0.13	0.133	11.00	PASS
		Middle	-0.835	0.13	-0.705	11.00	PASS
		High	1.495	0.13	1.625	11.00	PASS
	802.11n40	Low	-2.155	0.33	-1.825	11.00	PASS
		High	-2.597	0.26	-2.337	11.00	PASS

	Mode	Test Channel	Reading Level (dBm/510kHz)	Duty factor (dB)	RB factor (dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Band4	802.11a	Low	-4.26	1.12	-0.09	-3.23	30.00	PASS
		Middle	-4.841	0.87	-0.09	-4.061	30.00	PASS
		High	-3.485	0.87	-0.09	-2.705	30.00	PASS
	802.11ac20	Low	-4.207	0.13	-0.09	-4.167	30.00	PASS
		Middle	-4.767	0.13	-0.09	-4.727	30.00	PASS
		High	-3.502	0.13	-0.09	-3.462	30.00	PASS
	802.11ac40	Low	-5.519	0.26	-0.09	-5.349	30.00	PASS
		High	-6.334	0.32	-0.09	-6.104	30.00	PASS
	802.11ac80	/	-9.599	0.51	-0.09	-9.179	30.00	PASS
	802.11n20	Low	-4.291	0.13	-0.09	-4.251	30.00	PASS
		Middle	-4.77	0.13	-0.09	-4.73	30.00	PASS
		High	-3.715	0.13	-0.09	-3.675	30.00	PASS
	802.11n40	Low	-5.885	0.26	-0.09	-5.715	30.00	PASS
		High	-6.253	0.32	-0.09	-6.023	30.00	PASS

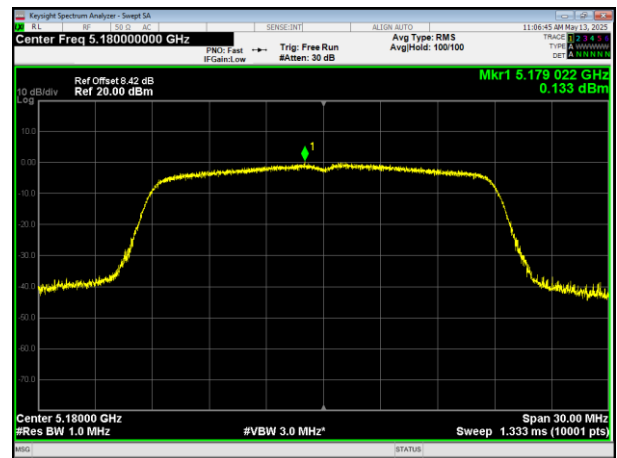
Note: RB factor=10log(510/500k)



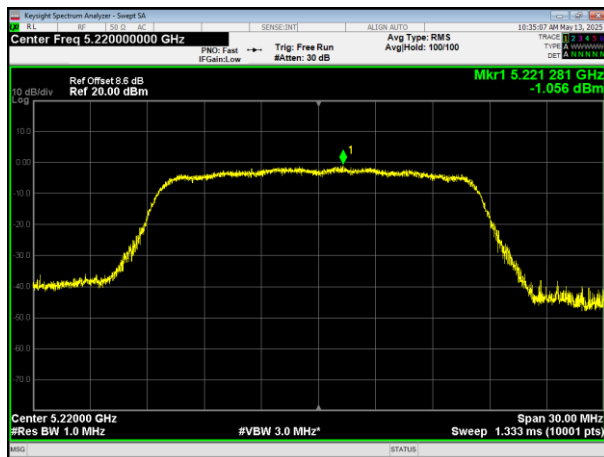
802.11a



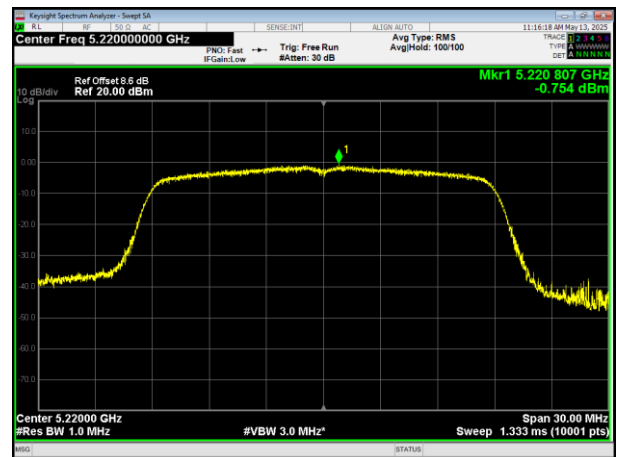
802.11ac HT20



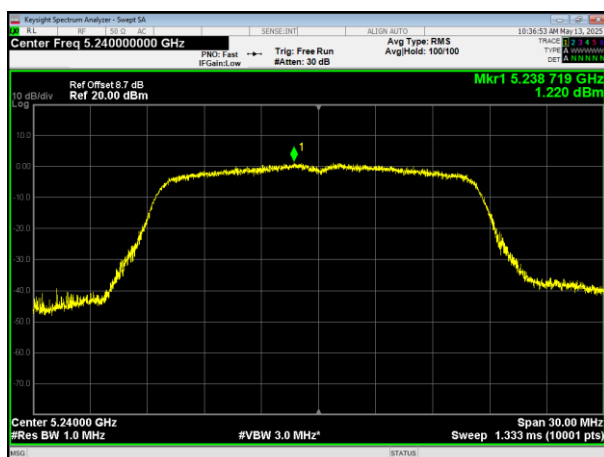
5180MHz



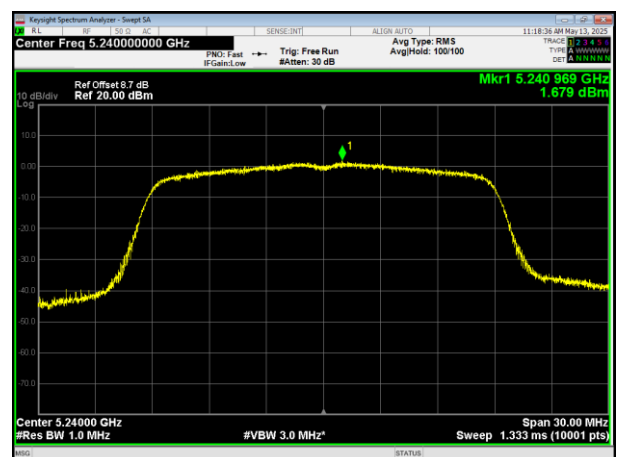
5180MHz



5200MHz



5200MHz

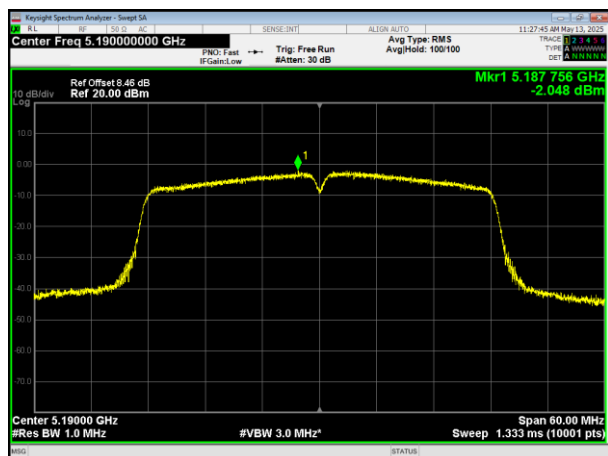


5240MHz

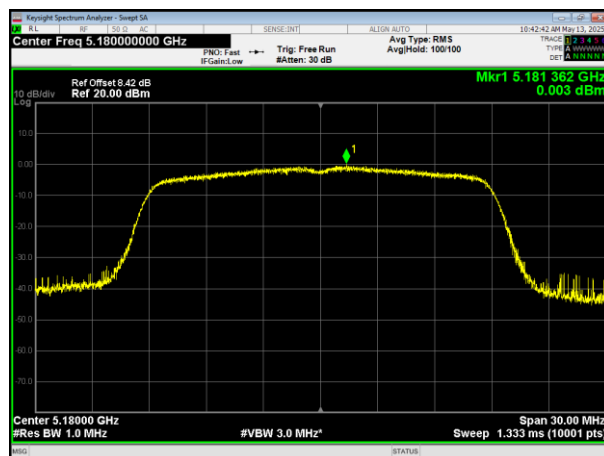
5240MHz



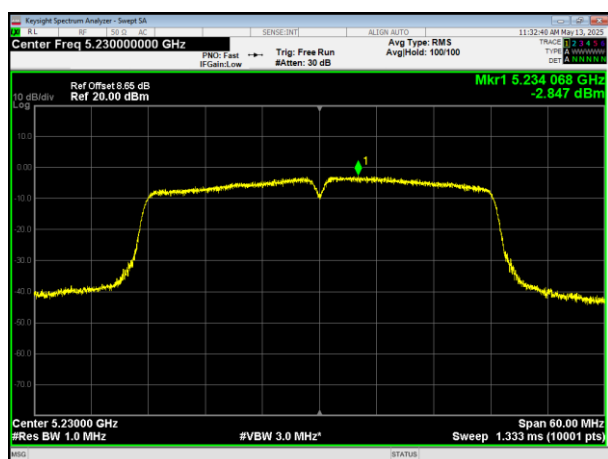
802.11ac HT40



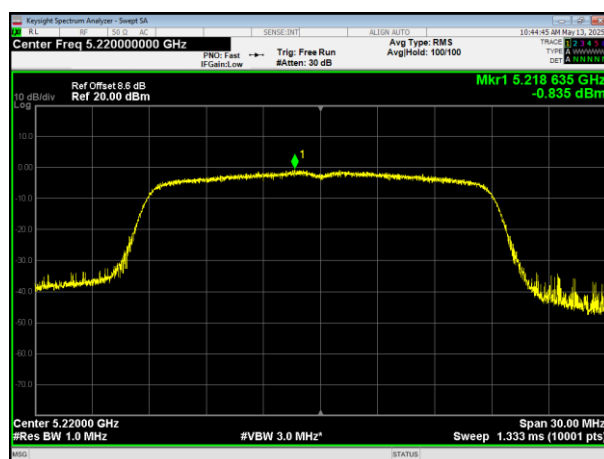
802.11n HT20



5190MHz

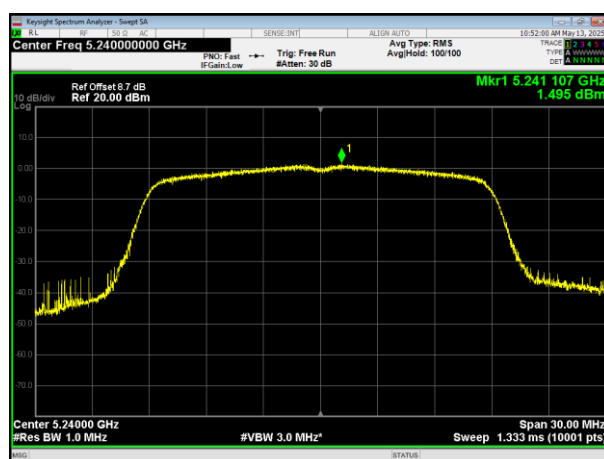


5180MHz



5230MHz

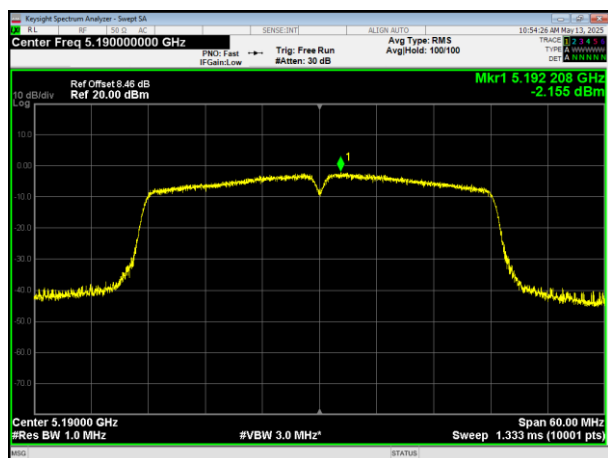
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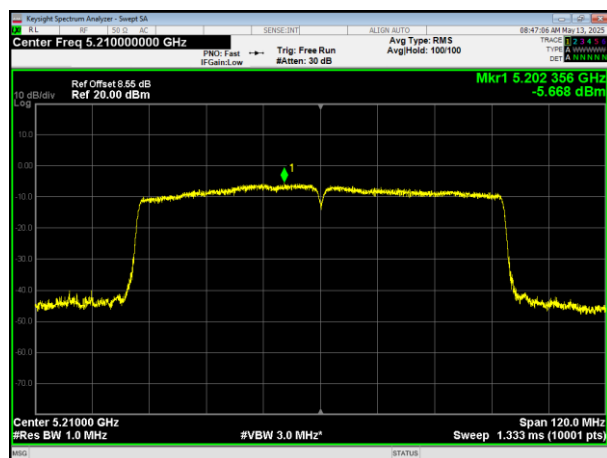
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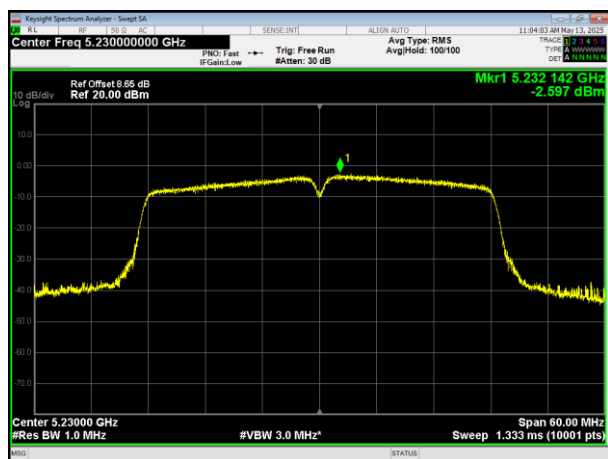
802.11n HT40



802.11ac HT80



5190MHz

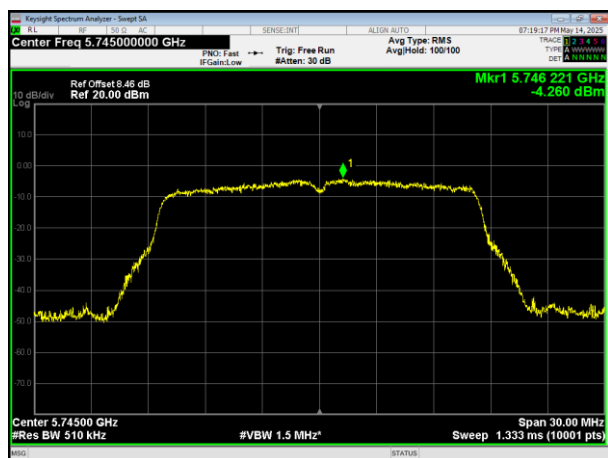


5210MHz

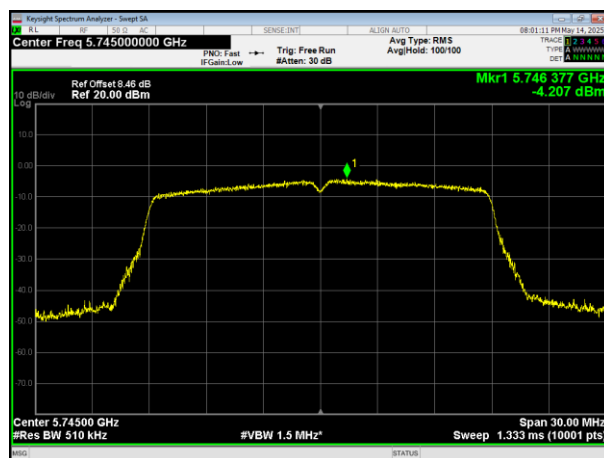
5230MHz



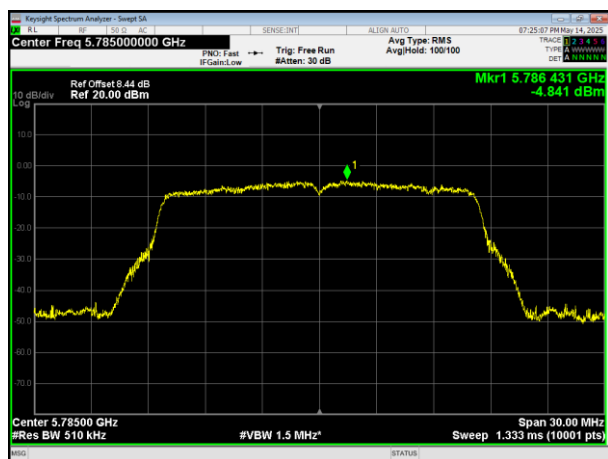
802.11a



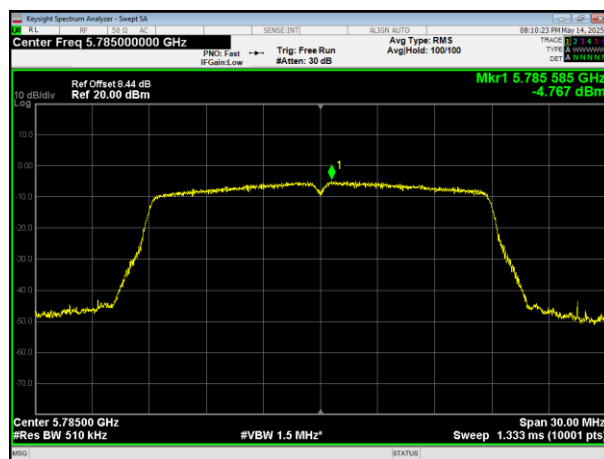
802.11ac HT20



5745MHz



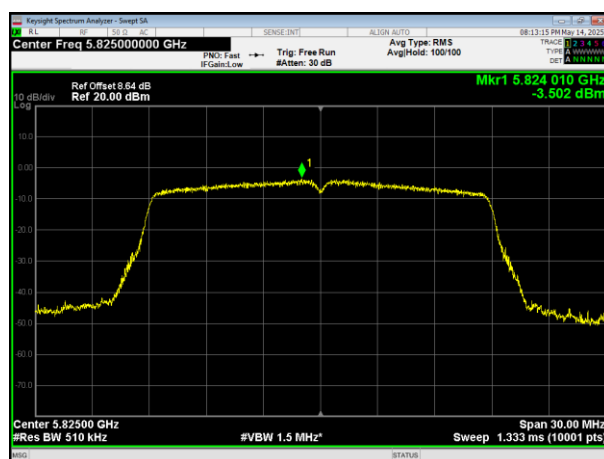
5745MHz



5785MHz



5785MHz



5825MHz

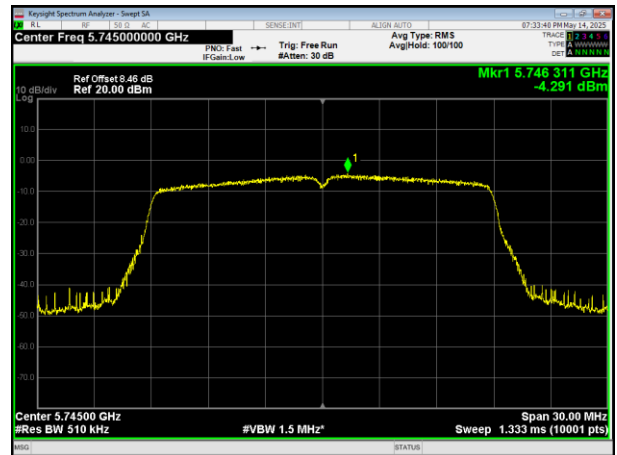
5825MHz



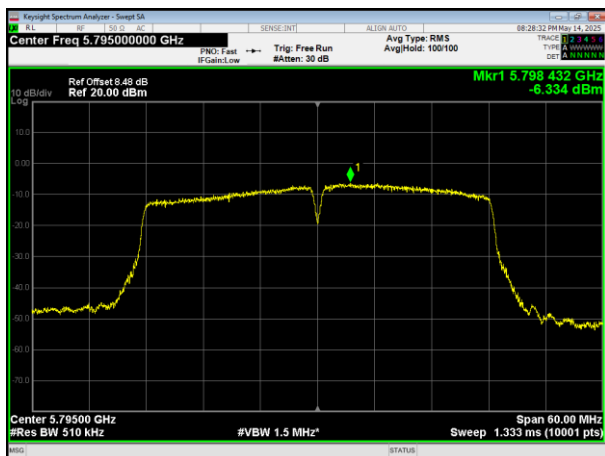
802.11ac HT40



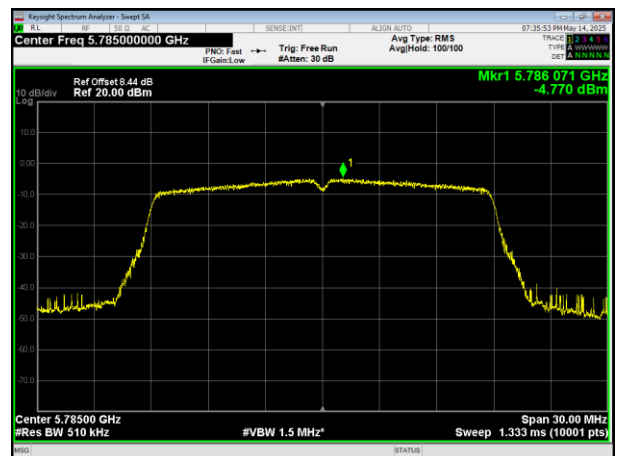
802.11n HT20



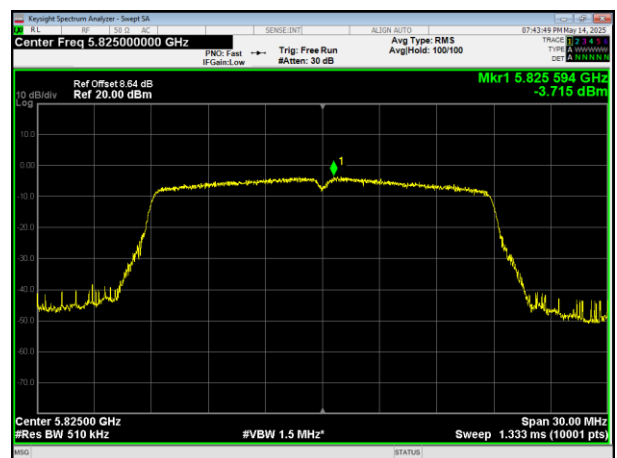
5755MHz



5745MHz



5795MHz



5785MHz

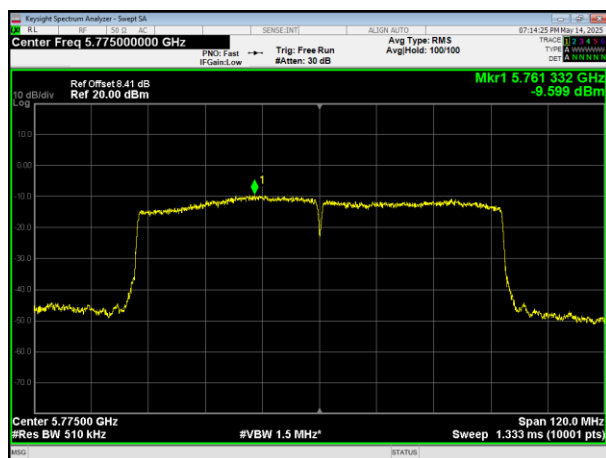
5825MHz



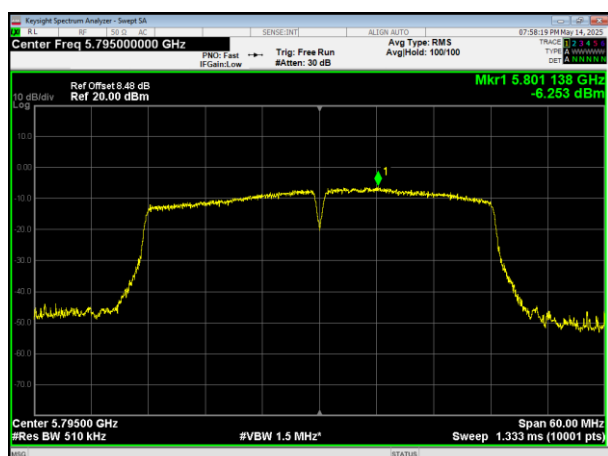
802.11n HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz