



RF TEST REPORT

Product Name: GP55MCS

Model Name: GP55M

FCC ID: 2BL96-GP55MCS

Issued For : Punt Gaming LLC

4265 SW 14TH ST. MIAMI, FL 33134, America

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT24J175RF04

Sample Received Date: Oct. 30, 2024

Date of Test: Oct. 30, 2024 ~ Jan. 07, 2025

Date of Issue: Jan. 07, 2025

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



TEST REPORT CERTIFICATION

Applicant: Punt Gaming LLC

Address: 4265 SW 14TH ST. MIAMI, FL 33134, America

Manufacturer: SHENZHEN PRETECH INDUSTRIAL CO., LTD
808,QIANCHENG COMMERCIAL CENTER,5 HAICHENG ROAD,MABU
Address: COMMUNITY,XIXIANG STREET,BAO'AN DISTRICT SHENZHEN
GUANGDONG CHINA

Product Name: GP55MCS

Trademark: Punt Gaming

Model Name: GP55M

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2013	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





Table of Contents

Page

1 . SUMMARY OF TEST RESULTS	9
1.1 TEST FACTORY	10
1.2 MEASUREMENT UNCERTAINTY	10
2 . GENERAL INFORMATION	11
2.1 GENERAL DESCRIPTION OF THE EUT	11
2.2 DESCRIPTION OF TEST MODES	14
2.3 TEST SOFTWARE AND POWER LEVEL	15
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	16
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	17
3 . EMC EMISSION TEST	18
3.1 CONDUCTED EMISSION MEASUREMENT	18
3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT	22
4. POWER SPECTRAL DENSITY TEST	37
4.1 LIMIT	37
4.2 TEST PROCEDURE	37
4.3 DEVIATION FROM STANDARD	37
4.4 TEST SETUP	38
4.5 EUT OPERATION CONDITIONS	38
4.6 TEST RESULTS	38
5. BANDWIDTH MEASUREMENT	39
5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT	39
5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT	40
5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT	41
6. MAXIMUM CONDUCTED OUTPUT POWER	42
6.1 LIMIT	42
6.2 TEST PROCEDURE	42
6.3 DEVIATION FROM STANDARD	42
6.4 TEST SETUP	42
6.5 EUT OPERATION CONDITIONS	42
6.6 TEST RESULTS	42
7. AUTOMATICALLY DISCONTINUE TRANSMISSION	43
7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION	43
7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION	43
8. ANTENNA REQUIREMENT	44



Table of Contents

Page

8.1 STANDARD REQUIREMENT	44
8.2 EUT ANTENNA	44
APPENDIX I - TEST RESULTS	45
ANNEX A. AV POWER	45
1. 802.11A_BAND1_BW20MHZ	45
2. 802.11N_BAND1_BW20MHZ	46
3. 802.11N_BAND1_BW40MHZ	47
4. 802.11AC_BAND1_BW20MHZ	48
5. 802.11AC_BAND1_BW40MHZ	49
6. 802.11AC_BAND1_BW80MHZ	50
7. 802.11A_BAND2_BW20MHZ	51
8. 802.11N_BAND2_BW20MHZ	52
9. 802.11N_BAND2_BW40MHZ	53
10. 802.11AC_BAND2_BW20MHZ	54
11. 802.11AC_BAND2_BW40MHZ	55
12. 802.11AC_BAND2_BW80MHZ	56
13. 802.11A_BAND3_BW20MHZ	57
14. 802.11N_BAND3_BW20MHZ	58
15. 802.11N_BAND3_BW40MHZ	59
16. 802.11AC_BAND3_BW20MHZ	60
17. 802.11AC_BAND3_BW40MHZ	61
18. 802.11AC_BAND3_BW80MHZ	62
19. 802.11A_BAND4_BW20MHZ	63
20. 802.11N_BAND4_BW20MHZ	64
21. 802.11N_BAND4_BW40MHZ	65
22. 802.11AC_BAND4_BW20MHZ	66
23. 802.11AC_BAND4_BW40MHZ	67
24. 802.11AC_BAND4_BW80MHZ	68
ANNEX A. 26DB BANDWIDTH	69
1. 802.11A_BAND1_BW20MHZ	69
2. 802.11N_BAND1_BW20MHZ	72
3. 802.11N_BAND1_BW40MHZ	75
4. 802.11AC_BAND1_BW20MHZ	77
5. 802.11AC_BAND1_BW40MHZ	80
6. 802.11AC_BAND1_BW80MHZ	82



Table of Contents

Page

7. 802.11A_BAND2_BW20MHZ	83
8. 802.11N_BAND2_BW20MHZ	86
9. 802.11N_BAND2_BW40MHZ	89
10. 802.11AC_BAND2_BW20MHZ	91
11. 802.11AC_BAND2_BW40MHZ	94
12. 802.11AC_BAND2_BW80MHZ	96
13. 802.11A_BAND3_BW20MHZ	97
14. 802.11N_BAND3_BW20MHZ	100
15. 802.11N_BAND3_BW40MHZ	103
16. 802.11AC_BAND3_BW20MHZ	106
17. 802.11AC_BAND3_BW40MHZ	109
18. 802.11AC_BAND3_BW80MHZ	112
19. 802.11A_BAND4_BW20MHZ	114
20. 802.11N_BAND4_BW20MHZ	117
21. 802.11N_BAND4_BW40MHZ	120
22. 802.11AC_BAND4_BW20MHZ	122
23. 802.11AC_BAND4_BW40MHZ	125
24. 802.11AC_BAND4_BW80MHZ	127
ANNEX A. 6DB BANDWIDTH	128
1. 802.11A_BAND4_BW20MHZ	128
2. 802.11N_BAND4_BW20MHZ	131
3. 802.11N_BAND4_BW40MHZ	134
4. 802.11AC_BAND4_BW20MHZ	136
5. 802.11AC_BAND4_BW40MHZ	139
6. 802.11AC_BAND4_BW80MHZ	141
ANNEX A. 99% BANDWIDTH	142
1. 802.11A_BAND1_BW20MHZ	142
2. 802.11N_BAND1_BW20MHZ	145
3. 802.11N_BAND1_BW40MHZ	148
4. 802.11AC_BAND1_BW20MHZ	150
5. 802.11AC_BAND1_BW40MHZ	153
6. 802.11AC_BAND1_BW80MHZ	155
7. 802.11A_BAND2_BW20MHZ	156
8. 802.11N_BAND2_BW20MHZ	159
9. 802.11N_BAND2_BW40MHZ	162



Table of Contents

Page

10. 802.11AC_BAND2_BW20MHZ	164
11. 802.11AC_BAND2_BW40MHZ	167
12. 802.11AC_BAND2_BW80MHZ	169
13. 802.11A_BAND3_BW20MHZ	170
14. 802.11N_BAND3_BW20MHZ	173
15. 802.11N_BAND3_BW40MHZ	176
16. 802.11AC_BAND3_BW20MHZ	179
17. 802.11AC_BAND3_BW40MHZ	182
18. 802.11AC_BAND3_BW80MHZ	185
19. 802.11A_BAND4_BW20MHZ	187
20. 802.11N_BAND4_BW20MHZ	190
21. 802.11N_BAND4_BW40MHZ	193
22. 802.11AC_BAND4_BW20MHZ	195
23. 802.11AC_BAND4_BW40MHZ	198
24. 802.11AC_BAND4_BW80MHZ	200
ANNEX A. RMS POWER SPECTRAL DENSITY (PSD)	201
1. 802.11A_BAND1_BW20MHZ	201
2. 802.11N_BAND1_BW20MHZ	204
3. 802.11N_BAND1_BW40MHZ	207
4. 802.11AC_BAND1_BW20MHZ	209
5. 802.11AC_BAND1_BW40MHZ	212
6. 802.11AC_BAND1_BW80MHZ	214
7. 802.11A_BAND2_BW20MHZ	215
8. 802.11N_BAND2_BW20MHZ	218
9. 802.11N_BAND2_BW40MHZ	221
10. 802.11AC_BAND2_BW20MHZ	223
11. 802.11AC_BAND2_BW40MHZ	226
12. 802.11AC_BAND2_BW80MHZ	228
13. 802.11A_BAND3_BW20MHZ	229
14. 802.11N_BAND3_BW20MHZ	232
15. 802.11N_BAND3_BW40MHZ	235
16. 802.11AC_BAND3_BW20MHZ	238
17. 802.11AC_BAND3_BW40MHZ	241
18. 802.11AC_BAND3_BW80MHZ	244
19. 802.11A_BAND4_BW20MHZ	246



Table of Contents

Page

20. 802.11N_BAND4_BW20MHZ	249
21. 802.11N_BAND4_BW40MHZ	252
22. 802.11AC_BAND4_BW20MHZ	254
23. 802.11AC_BAND4_BW40MHZ	257
24. 802.11AC_BAND4_BW80MHZ	259
ANNEX A. DUTY CYCLE	260
1. 802.11A_BAND1_BW20MHZ	260
2. 802.11N_BAND1_BW20MHZ	261
3. 802.11N_BAND1_BW40MHZ	262
4. 802.11AC_BAND1_BW20MHZ	263
5. 802.11AC_BAND1_BW40MHZ	264
6. 802.11AC_BAND1_BW80MHZ	265
7. 802.11A_BAND2_BW20MHZ	266
8. 802.11N_BAND2_BW20MHZ	267
9. 802.11N_BAND2_BW40MHZ	268
10. 802.11AC_BAND2_BW20MHZ	269
11. 802.11AC_BAND2_BW40MHZ	270
12. 802.11AC_BAND2_BW80MHZ	271
13. 802.11A_BAND3_BW20MHZ	272
14. 802.11N_BAND3_BW20MHZ	273
15. 802.11N_BAND3_BW40MHZ	274
16. 802.11AC_BAND3_BW20MHZ	275
17. 802.11AC_BAND3_BW40MHZ	276
18. 802.11AC_BAND3_BW80MHZ	277
19. 802.11A_BAND4_BW20MHZ	278
20. 802.11N_BAND4_BW20MHZ	279
21. 802.11N_BAND4_BW40MHZ	280
22. 802.11AC_BAND4_BW20MHZ	281
23. 802.11AC_BAND4_BW40MHZ	282
24. 802.11AC_BAND4_BW80MHZ	283
APPENDIX II - MEASUREMENT PHOTOS	284



Revision History

Rev.	Issue Date	Contents
00	Jan. 07, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

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

(2) All tests are according to ANSI C63.10-2013.



..1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Registration number:	746540
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

..2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$
9	Bandwidth	$\pm 10.40\text{KHz}$
10	PSD	$\pm 1.5734\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	GP55MCS																							
Trademark:	Punt Gaming																							
Model Name:	GP55M																							
Series Model:	N/A																							
Model Difference:	N/A																							
Product Description:	<table><tr><td rowspan="10">Operation Frequency:</td><td>IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz</td></tr><tr><td>IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz</td></tr><tr><td>IEEE 802.11ac(VHT80): 5.210GHz</td></tr><tr><td>IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz</td></tr><tr><td>IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz</td></tr><tr><td>IEEE 802.11ac(VHT80): 5.290GHz</td></tr><tr><td>IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz</td></tr><tr><td>IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz</td></tr><tr><td>IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz</td></tr><tr><td>I IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz</td></tr><tr><td>IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz</td></tr><tr><td>IEEE 802.11ac(VHT80): 5.775GHz</td></tr><tr><td>Modulation Type:</td><td colspan="2">802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</td></tr><tr><td>Antenna Designation:</td><td colspan="2">FPC</td></tr><tr><td>Antenna Gain(dBi)</td><td colspan="2">1</td></tr></table> More details of EUT technical specification, please refer to the User Manual.		Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz	IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz	IEEE 802.11ac(VHT80): 5.210GHz	IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz	IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz	IEEE 802.11ac(VHT80): 5.290GHz	IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz	IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz	IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz	I IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz	IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz	IEEE 802.11ac(VHT80): 5.775GHz	Modulation Type:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		Antenna Designation:	FPC		Antenna Gain(dBi)	1	
Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz																							
	IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz																							
	IEEE 802.11ac(VHT80): 5.210GHz																							
	IEEE 802.11a/n(HT20)/ac(VHT20): 5.260GHz-5.320GHz																							
	IEEE 802.11 n(HT40)/ac(VHT40): 5.270GHz-5.310GHz																							
	IEEE 802.11ac(VHT80): 5.290GHz																							
	IEEE 802.11a/n(HT20)/ac(VHT20): 5.500GHz-5.700GHz																							
	IEEE 802.11 n(HT40)/ac(VHT40): 5.510GHz-5.670GHz																							
	IEEE 802.11ac(VHT80): 5.530GHz-5.610GHz																							
	I IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz																							
IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz																								
IEEE 802.11ac(VHT80): 5.775GHz																								
Modulation Type:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM																							
Antenna Designation:	FPC																							
Antenna Gain(dBi)	1																							
Test Channel:	Please refer to the Note 3.																							
Battery:	Capacity: 6000mAh Rated Voltage: 3.8V																							
Hardware Version:	RC-F451 U2.0																							
Software Version:	N/A																							
Connecting I/O Port(s):	Please refer to the Note 1.																							



Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.
3. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

4	Operation Frequency of channel			
	5.180GHz-5.240GHz		5.260GHz-5.320GHz	
	Channel	Frequency	Channel	Frequency
	36	5180	52	5260
	38	5190	54	5270
	40	5200	56	5280
	42	5210	58	5290
	44	5220	60	5300
	46	5230	62	5310
	48	5240	64	5320
	5.500GHz-5.720GHz		5.745GHz-5.825GHz	
	Channel	Frequency	Channel	Frequency
	100	5500	149	5745
	102	5510	151	5755
	104	5520	153	5765
	108	5540	157	5785
	110	5550	159	5795
	112	5560	161	5805
	116	5580	165	5825
	118	5590		
	120	5600		
	124	5620		
	126	5630		
	128	5640		
	132	5660		
	134	5670		
	136	5680		
	140	5700		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel



Channel List for 802.11a/n/ac(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
40	5200	60	5300	116	5580	157	5785
48	5240	64	5320	140	5700	165	5825

Channel List for 802.11n/ac(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
46	5230	62	5310	110	5550	159	5795
134	5670						

Channel List for 802.11ac(80MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
122	5610						



2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 4	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 5	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 6	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11ac VHT20 CH52&CH60&CH64	NSS1 MCS0
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 10	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 11	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 12	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 13	TX IEEE 802.11ac VHT40 CH54 &CH62	NSS1 MCS0
Mode 14	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 15	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 16	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 17	TX IEEE 802.11ac VHT80 CH58	NSS1 MCS0
Mode 18	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
(4) The battery is fully-charged during the radiated and RF conducted test.
(5) All 20M, 40M bandwidth modes have been tested, and the report only shown the worst mode data

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 19: TX Mode



2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 5G WIFI B1	
DRTU	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default
Test software Version	Test program: 5G WIFI B2	
DRTU	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default
Test software Version	Test program: 5G WIFI B3	
DRTU	Mode Or Modulation type	Power setting
	a	Default
	n20	Default
	n40	Default
	ac20	Default
	ac40	Default
	ac80	Default
Test software Version	Test program: 5G WIFI B4	
DRTU	Mode Or Modulation type	Power setting
	a	10
	n20	10
	n40	10
	ac20	10
	ac40	10
	ac80	10



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

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



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBEC K	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -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

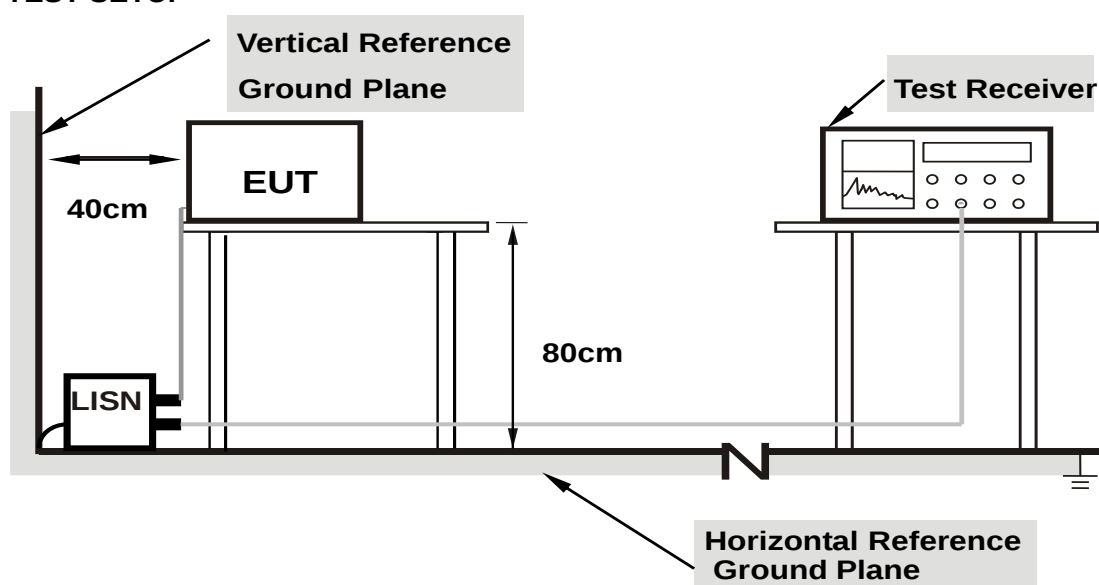
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- 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 cm from other units and other metal planes support units.

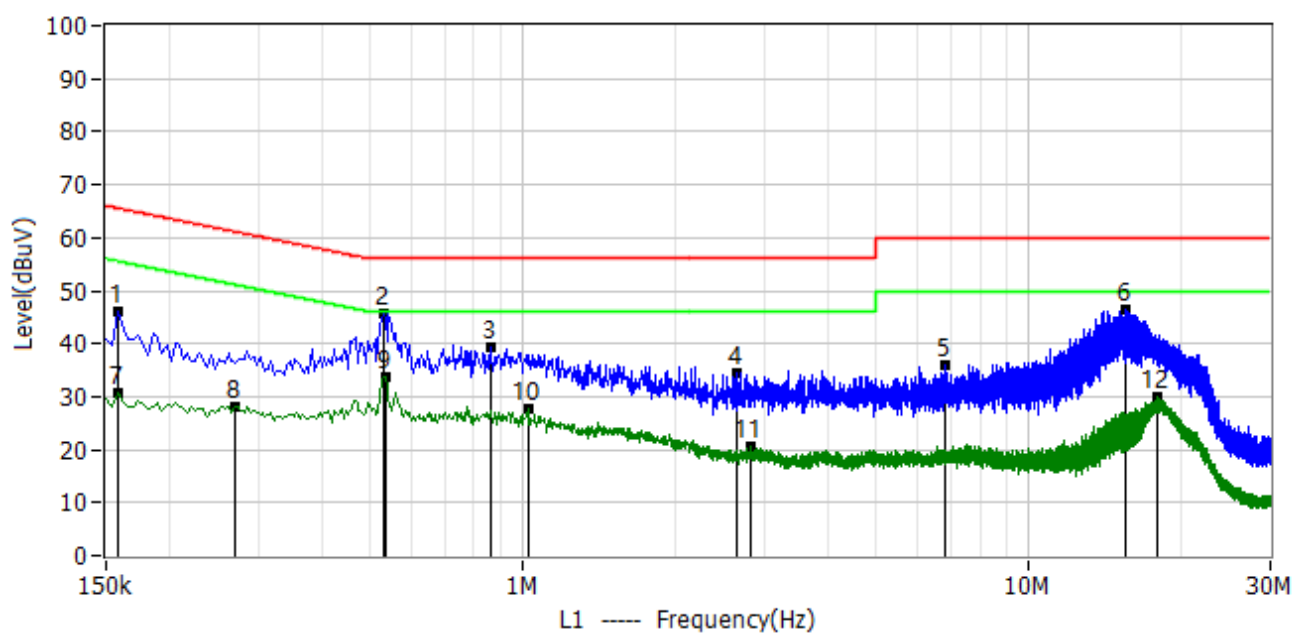
3.1.5 EUT OPERATING CONDITIONS

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.



3.1.6 TEST RESULTS

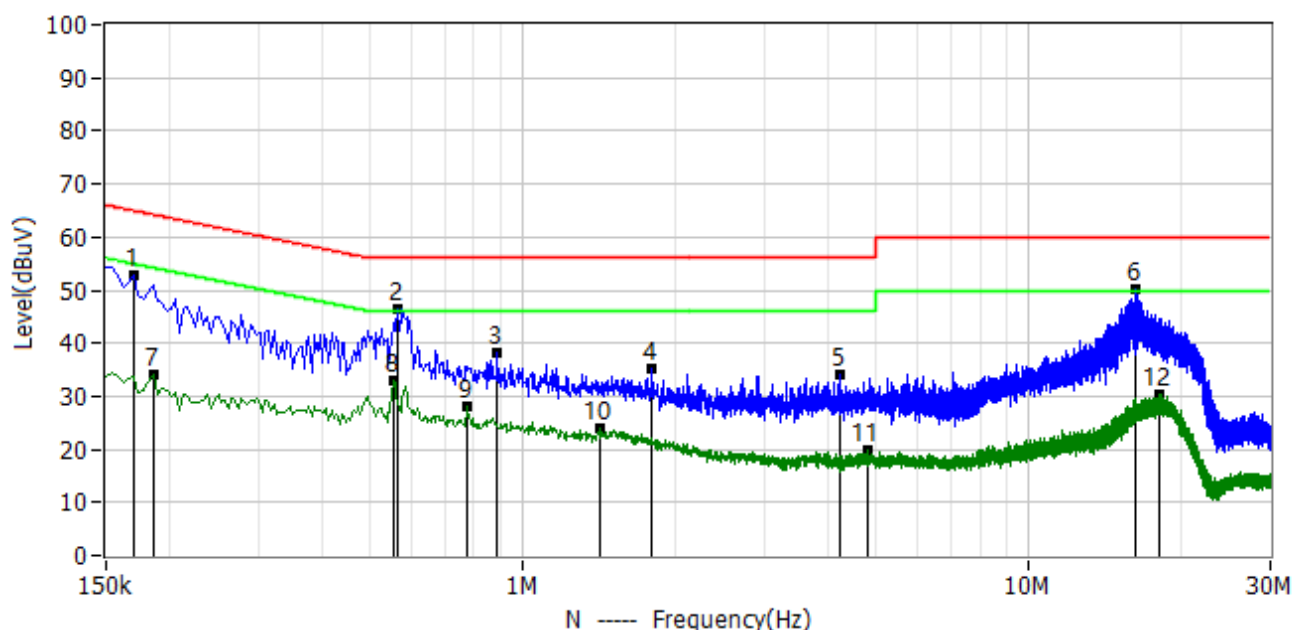
Project: LGT24J175	Test Engineer: LiuH
EUT: GP55MCS	Temperature: 25.2°C
M/N: GP55M	Humidity: 49%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-11-18
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.158	35.55	10.58	46.13	65.57	-19.44	QP	L1
2*	0.530	35.18	10.57	45.75	56.00	-10.25	QP	L1
3*	0.862	28.74	10.63	39.37	56.00	-16.63	QP	L1
4*	2.650	23.46	11.12	34.58	56.00	-21.42	QP	L1
5*	6.798	24.91	11.00	35.91	60.00	-24.09	QP	L1
6*	15.570	35.07	11.42	46.49	60.00	-13.51	QP	L1
7*	0.158	19.97	10.58	30.55	55.57	-25.02	AV	L1
8*	0.270	17.65	10.59	28.24	51.12	-22.88	AV	L1
9*	0.534	23.08	10.57	33.65	46.00	-12.35	AV	L1
10*	1.022	16.98	10.70	27.68	46.00	-18.32	AV	L1
11*	2.814	9.28	11.16	20.44	46.00	-25.56	AV	L1
12*	17.870	18.33	11.53	29.86	50.00	-20.14	AV	L1



Project: LGT24J175	Test Engineer: LiuH
EUT: GP55MCS	Temperature: 25.2°C
M/N: GP55M	Humidity: 49%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-11-18
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.170	42.19	10.56	52.75	64.96	-12.21	QP	N
2*	0.566	35.79	10.55	46.34	56.00	-9.66	QP	N
3*	0.890	27.58	10.55	38.13	56.00	-17.87	QP	N
4*	1.802	24.67	10.72	35.39	56.00	-20.61	QP	N
5*	4.234	23.39	10.82	34.21	56.00	-21.79	QP	N
6*	16.178	38.75	11.44	50.19	60.00	-9.81	QP	N
7*	0.186	23.64	10.56	34.20	54.21	-20.02	AV	N
8*	0.554	22.51	10.55	33.06	46.00	-12.94	AV	N
9*	0.778	17.46	10.56	28.02	46.00	-17.98	AV	N
10*	1.414	13.31	10.63	23.94	46.00	-22.06	AV	N
11*	4.810	8.92	10.83	19.75	46.00	-26.25	AV	N
12*	18.178	18.96	11.54	30.50	50.00	-19.50	AV	N



3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

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

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.



LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) 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 5.15-5.25 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.

(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 5.47-5.725 GHz 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 in the 5.725-5.85 GHz band:

(i) 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 10 dBm/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.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

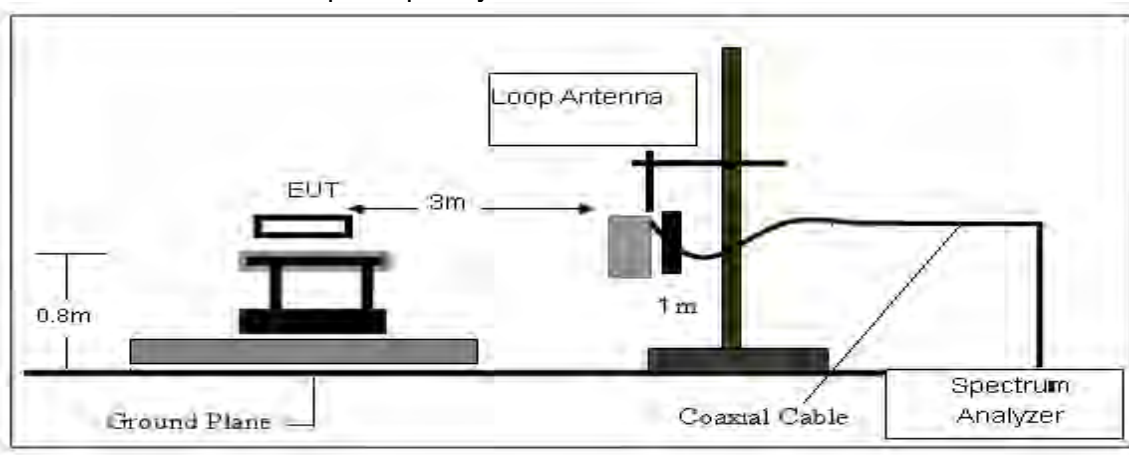
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

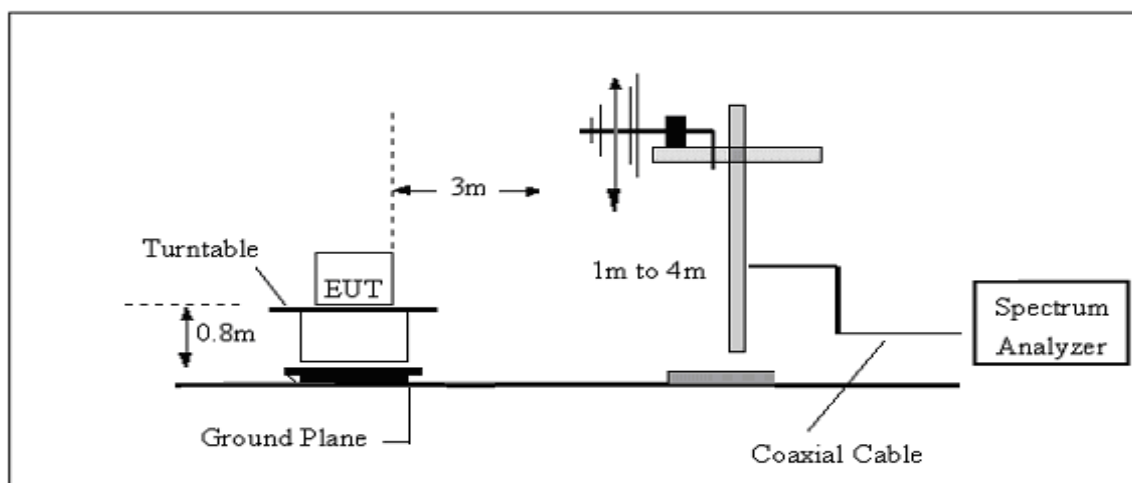
No deviation

3.2.3 TEST SETUP

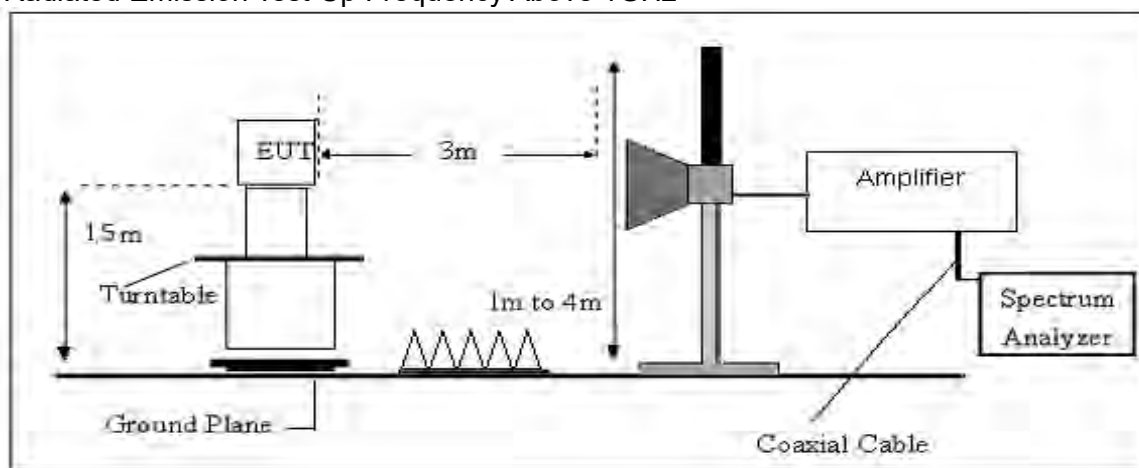
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.4 EUT OPERATING 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.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

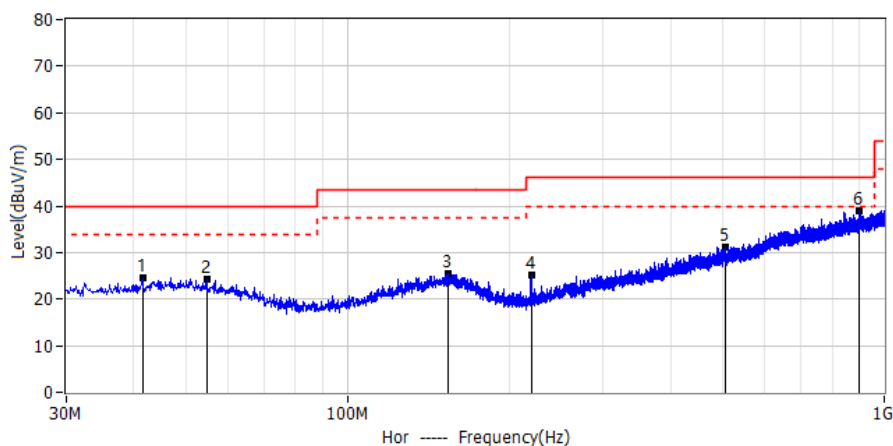
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

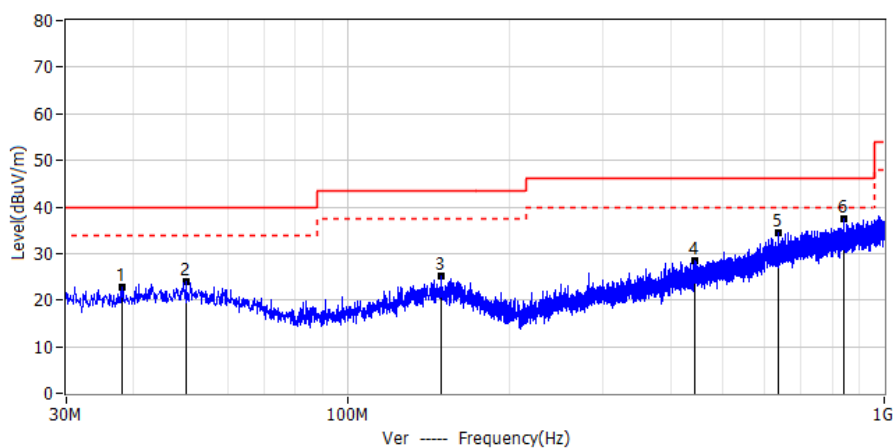


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT24J175	Test Engineer: LiuH
EUT: GP55MCS	Temperature: 25°C
M/N: GP55M	Humidity: 54%RH
Test Voltage: Battery	Test Data: 2024-11-18
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	41.640	4.03	20.46	24.49	40.00	-15.51	PK	Hor
2*	54.735	4.14	20.15	24.29	40.00	-15.71	PK	Hor
3*	154.524	3.88	21.46	25.34	43.50	-18.16	PK	Hor
4*	219.999	7.15	17.91	25.06	46.00	-20.94	PK	Hor
5*	506.998	4.20	27.01	31.21	46.00	-14.79	PK	Hor
6*	897.059	5.93	33.07	39.00	46.00	-7.00	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	38.003	3.01	19.76	22.77	40.00	-17.23	PK	Ver
2*	50.128	3.60	20.40	24.00	40.00	-16.00	PK	Ver
3*	149.310	3.56	21.53	25.09	43.50	-18.41	PK	Ver
4*	444.433	2.46	25.94	28.40	46.00	-17.60	PK	Ver
5*	635.644	5.05	29.35	34.40	46.00	-11.60	PK	Ver
6*	839.708	5.15	32.30	37.45	46.00	-8.55	PK	Ver



Results of Radiated Emissions (Above 1000MHz)

Band I(5.15-5.25) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5180 MHz)							
3995.71	52.28	-6.89	45.39	74.00	-28.61	PK	Vertical
3995.71	42.86	-6.89	35.97	54.00	-18.03	AV	Vertical
3999.45	53.00	-6.89	46.11	74.00	-27.89	PK	Horizontal
3999.45	42.44	-6.89	35.55	54.00	-18.45	AV	Horizontal
8912.76	53.59	-3.80	49.79	68.20	-18.41	PK	Vertical
8912.76	43.59	-3.80	39.79	54.00	-14.21	AV	Vertical
8919.17	53.19	-3.80	49.39	68.20	-18.81	PK	Horizontal
8919.17	43.29	-3.80	39.49	54.00	-14.51	AV	Horizontal
10360.27	55.72	-2.92	52.80	68.20	-15.40	PK	Vertical
10360.27	45.34	-2.92	42.42	54.00	-11.58	AV	Vertical
10360.40	56.38	-2.92	53.46	68.20	-14.74	PK	Horizontal
10360.40	45.24	-2.92	42.32	54.00	-11.68	AV	Horizontal
13288.17	54.78	-0.67	54.11	74.00	-19.89	PK	Vertical
13288.17	44.55	-0.67	43.88	54.00	-10.12	AV	Vertical
13287.47	53.89	-0.67	53.22	74.00	-20.78	PK	Horizontal
13287.47	44.15	-0.67	43.48	54.00	-10.52	AV	Horizontal
Mid Channel (802.11/ 5200 MHz)							
3994.27	52.17	-6.89	45.28	74.00	-28.72	PK	Vertical
3994.27	42.71	-6.89	35.82	54.00	-18.18	AV	Vertical
3980.55	52.66	-6.89	45.77	74.00	-28.23	PK	Horizontal
3980.55	43.05	-6.89	36.16	54.00	-17.84	AV	Horizontal
7230.00	53.92	-3.80	50.12	68.20	-18.08	PK	Vertical
7230.00	43.33	-3.80	39.53	54.00	-14.47	AV	Vertical
7227.97	53.69	-3.80	49.89	68.20	-18.31	PK	Horizontal
7227.97	43.69	-3.80	39.89	54.00	-14.11	AV	Horizontal
10400.35	55.07	-2.92	52.15	68.20	-16.05	PK	Vertical
10400.35	45.14	-2.92	42.22	54.00	-11.78	AV	Vertical
10399.95	56.33	-2.92	53.41	68.20	-14.79	PK	Horizontal
10399.95	44.68	-2.92	41.76	54.00	-12.24	AV	Horizontal
13283.55	53.97	-0.67	53.30	74.00	-20.70	PK	Vertical
13283.55	43.81	-0.67	43.14	54.00	-10.86	AV	Vertical
13286.77	53.71	-0.67	53.04	74.00	-20.96	PK	Horizontal
13286.77	44.03	-0.67	43.36	54.00	-10.64	AV	Horizontal
High Channel (802.11/ 5240 MHz)							
3991.41	52.74	-6.89	45.85	74.00	-28.15	PK	Vertical
3991.41	42.44	-6.89	35.55	54.00	-18.45	AV	Vertical
3989.53	53.38	-6.89	46.49	74.00	-27.51	PK	Horizontal
3989.53	42.41	-6.89	35.52	54.00	-18.48	AV	Horizontal
7230.36	53.83	-3.80	50.03	68.20	-18.17	PK	Vertical
7230.36	43.35	-3.80	39.55	54.00	-14.45	AV	Vertical
7219.35	54.27	-3.80	50.47	68.20	-17.73	PK	Horizontal
7219.35	43.05	-3.80	39.25	54.00	-14.75	AV	Horizontal
10480.32	55.08	-2.92	52.16	68.20	-16.04	PK	Vertical
10480.32	44.14	-2.92	41.22	54.00	-12.78	AV	Vertical
10480.32	55.72	-2.92	52.80	68.20	-15.40	PK	Horizontal
10480.32	44.85	-2.92	41.93	54.00	-12.07	AV	Horizontal
13287.41	54.57	-0.67	53.90	74.00	-20.10	PK	Vertical
13287.41	44.65	-0.67	43.98	54.00	-10.02	AV	Vertical
13292.41	54.08	-0.67	53.41	74.00	-20.59	PK	Horizontal
13292.41	43.72	-0.67	43.05	54.00	-10.95	AV	Horizontal



Band II(5.25-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5260 MHz)							
3998.41	53.40	-6.89	46.51	74.00	-27.49	PK	Vertical
3998.41	43.25	-6.89	36.36	54.00	-17.64	AV	Vertical
3994.92	53.10	-6.89	46.21	74.00	-27.79	PK	Horizontal
3994.92	42.05	-6.89	35.16	54.00	-18.84	AV	Horizontal
8909.49	53.83	-3.80	50.03	68.20	-18.17	PK	Vertical
8909.49	43.20	-3.80	39.40	54.00	-14.60	AV	Vertical
8920.47	53.24	-3.80	49.44	68.20	-18.76	PK	Horizontal
8920.47	43.18	-3.80	39.38	54.00	-14.62	AV	Horizontal
10520.38	55.79	-2.92	52.87	68.20	-15.33	PK	Vertical
10520.38	44.45	-2.92	41.53	54.00	-12.47	AV	Vertical
10520.13	56.39	-2.92	53.47	68.20	-14.73	PK	Horizontal
10520.13	45.43	-2.92	42.51	54.00	-11.49	AV	Horizontal
13292.78	54.62	-0.67	53.95	74.00	-20.05	PK	Vertical
13292.78	44.76	-0.67	44.09	54.00	-9.91	AV	Vertical
13280.21	53.88	-0.67	53.21	74.00	-20.79	PK	Horizontal
13280.21	44.74	-0.67	44.07	54.00	-9.93	AV	Horizontal
Mid Channel (802.11/ 5300 MHz)							
3998.07	53.24	-6.89	46.35	74.00	-27.65	PK	Vertical
3998.07	42.87	-6.89	35.98	54.00	-18.02	AV	Vertical
3991.50	52.38	-6.89	45.49	74.00	-28.51	PK	Horizontal
3991.50	42.86	-6.89	35.97	54.00	-18.03	AV	Horizontal
8911.41	53.61	-3.80	49.81	68.20	-18.39	PK	Vertical
8911.41	44.15	-3.80	40.35	54.00	-13.65	AV	Vertical
8911.59	54.12	-3.80	50.32	68.20	-17.88	PK	Horizontal
8911.59	43.40	-3.80	39.60	54.00	-14.40	AV	Horizontal
10599.95	56.12	-2.92	53.20	68.20	-15.00	PK	Vertical
10599.95	44.12	-2.92	41.20	54.00	-12.80	AV	Vertical
10599.96	56.11	-2.92	53.19	68.20	-15.01	PK	Horizontal
10599.96	45.01	-2.92	42.09	54.00	-11.91	AV	Horizontal
13288.37	54.92	-0.67	54.25	74.00	-19.75	PK	Vertical
13288.37	43.54	-0.67	42.87	54.00	-11.13	AV	Vertical
13289.19	54.78	-0.67	54.11	74.00	-19.89	PK	Horizontal
13289.19	43.58	-0.67	42.91	54.00	-11.09	AV	Horizontal
High Channel (802.11/ 5320 MHz)							
3999.73	53.39	-6.89	46.50	74.00	-27.50	PK	Vertical
3999.73	43.40	-6.89	36.51	54.00	-17.49	AV	Vertical
3982.12	53.29	-6.89	46.40	74.00	-27.60	PK	Horizontal
3982.12	43.05	-6.89	36.16	54.00	-17.84	AV	Horizontal
8922.32	53.01	-3.80	49.21	68.20	-18.99	PK	Vertical
8922.32	43.99	-3.80	40.19	54.00	-13.81	AV	Vertical
8916.87	54.15	-3.80	50.35	68.20	-17.85	PK	Horizontal
8916.87	43.41	-3.80	39.61	54.00	-14.39	AV	Horizontal
10640.31	55.17	-2.92	52.25	74.00	-21.75	PK	Vertical
10640.31	44.22	-2.92	41.30	54.00	-12.70	AV	Vertical
10639.98	55.96	-2.92	53.04	74.00	-20.96	PK	Horizontal
10639.98	44.14	-2.92	41.22	54.00	-12.78	AV	Horizontal
13292.52	54.87	-0.67	54.20	74.00	-19.80	PK	Vertical
13292.52	44.14	-0.67	43.47	54.00	-10.53	AV	Vertical
13296.90	53.50	-0.67	52.83	74.00	-21.17	PK	Horizontal
13296.90	44.29	-0.67	43.62	54.00	-10.38	AV	Horizontal



Band III(5.47-5.725) GHz							
Frequency (MHz)	Reading (dBμV)	Orrected Factor (dB)	Reslut (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5500 MHz)							
3984.65	53.02	-6.89	46.13	74.00	-27.87	PK	Vertical
3984.65	42.47	-6.89	35.58	54.00	-18.42	AV	Vertical
3997.96	52.50	-6.89	45.61	74.00	-28.39	PK	Horizontal
3997.96	42.84	-6.89	35.95	54.00	-18.05	AV	Horizontal
8919.56	53.14	-3.80	49.34	68.20	-18.86	PK	Vertical
8919.56	43.59	-3.80	39.79	54.00	-14.21	AV	Vertical
8911.22	53.27	-3.80	49.47	68.20	-18.73	PK	Horizontal
8911.22	43.73	-3.80	39.93	54.00	-14.07	AV	Horizontal
10984.03	56.48	-2.92	53.56	74.00	-20.44	PK	Vertical
10984.03	44.81	-2.92	41.89	54.00	-12.11	AV	Vertical
10983.62	55.79	-2.92	52.87	74.00	-21.13	PK	Horizontal
10983.62	44.71	-2.92	41.79	54.00	-12.21	AV	Horizontal
13285.40	54.47	-0.35	54.12	74.00	-19.88	PK	Vertical
13285.40	43.66	-0.35	43.31	54.00	-10.69	AV	Vertical
13298.32	54.45	-0.35	54.10	74.00	-19.90	PK	Horizontal
13298.32	44.58	-0.35	44.23	54.00	-9.77	AV	Horizontal
Mid Channel (802.11/ 5580 MHz)							
3986.30	52.16	-6.89	45.27	74.00	-28.73	PK	Vertical
3986.30	43.46	-6.89	36.57	54.00	-17.43	AV	Vertical
3980.81	52.81	-6.89	45.92	74.00	-28.08	PK	Horizontal
3980.81	42.95	-6.89	36.06	54.00	-17.94	AV	Horizontal
8915.43	53.26	-3.80	49.46	68.20	-18.74	PK	Vertical
8915.43	43.47	-3.80	39.67	54.00	-14.33	AV	Vertical
8909.21	53.98	-3.80	50.18	68.20	-18.02	PK	Horizontal
8909.21	44.33	-3.80	40.53	54.00	-13.47	AV	Horizontal
11154.42	55.25	-2.92	52.33	74.00	-21.67	PK	Vertical
11154.42	44.85	-2.92	41.93	54.00	-12.07	AV	Vertical
11149.19	55.65	-2.92	52.73	74.00	-21.27	PK	Horizontal
11149.19	45.48	-2.92	42.56	54.00	-11.44	AV	Horizontal
13282.28	54.91	-0.35	54.56	74.00	-19.44	PK	Vertical
13282.28	44.58	-0.35	44.23	54.00	-9.77	AV	Vertical
13285.80	53.74	-0.35	53.39	74.00	-20.61	PK	Horizontal
13285.80	44.93	-0.35	44.58	54.00	-9.42	AV	Horizontal
High Channel (802.11/ 5700 MHz)							
3992.95	52.37	-6.89	45.48	74.00	-28.52	PK	Vertical
3992.95	43.18	-6.89	36.29	54.00	-17.71	AV	Vertical
3995.53	53.47	-6.89	46.58	74.00	-27.42	PK	Horizontal
3995.53	43.48	-6.89	36.59	54.00	-17.41	AV	Horizontal
8922.37	53.08	-3.80	49.28	68.20	-18.92	PK	Vertical
8922.37	43.52	-3.80	39.72	54.00	-14.28	AV	Vertical
8917.23	54.26	-3.80	50.46	68.20	-17.74	PK	Horizontal
8917.23	43.91	-3.80	40.11	54.00	-13.89	AV	Horizontal
11396.85	55.71	-2.92	52.79	74.00	-21.21	PK	Vertical
11396.85	44.36	-2.92	41.44	54.00	-12.56	AV	Vertical
11383.63	55.07	-2.92	52.15	74.00	-21.85	PK	Horizontal
11383.63	44.94	-2.92	42.02	54.00	-11.98	AV	Horizontal
13281.59	53.98	-0.35	53.63	74.00	-20.37	PK	Vertical
13281.59	43.98	-0.35	43.63	54.00	-10.37	AV	Vertical
13280.05	54.32	-0.35	53.97	74.00	-20.03	PK	Horizontal
13280.05	43.81	-0.35	43.46	54.00	-10.54	AV	Horizontal



Band IV(5.725-5.85) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 5745 MHz)							
3994.94	52.25	-6.89	45.36	74.00	-28.64	PK	Vertical
3994.94	42.67	-6.89	35.78	54.00	-18.22	AV	Vertical
3997.50	52.28	-6.89	45.39	74.00	-28.61	PK	Horizontal
3997.50	42.82	-6.89	35.93	54.00	-18.07	AV	Horizontal
8917.95	54.39	-3.80	50.59	68.20	-17.61	PK	Vertical
8917.95	44.05	-3.80	40.25	54.00	-13.75	AV	Vertical
8921.40	53.99	-3.80	50.19	68.20	-18.01	PK	Horizontal
8921.40	43.91	-3.80	40.11	54.00	-13.89	AV	Horizontal
11471.16	56.17	-2.92	53.25	74.00	-20.75	PK	Vertical
11471.16	44.77	-2.92	41.85	54.00	-12.15	AV	Vertical
11481.09	55.67	-2.92	52.75	74.00	-21.25	PK	Horizontal
11481.09	44.55	-2.92	41.63	54.00	-12.37	AV	Horizontal
13283.86	54.32	-0.35	53.97	74.00	-20.03	PK	Vertical
13283.86	44.29	-0.35	43.94	54.00	-10.06	AV	Vertical
13290.36	53.85	-0.35	53.50	74.00	-20.50	PK	Horizontal
13290.36	43.95	-0.35	43.60	54.00	-10.40	AV	Horizontal
Mid Channel (802.11/ 5785 MHz)							
3986.40	52.99	-6.89	46.10	74.00	-27.90	PK	Vertical
3986.40	42.28	-6.89	35.39	54.00	-18.61	AV	Vertical
3990.59	52.40	-6.89	45.51	74.00	-28.49	PK	Horizontal
3990.59	43.05	-6.89	36.16	54.00	-17.84	AV	Horizontal
8909.54	53.37	-3.80	49.57	68.20	-18.63	PK	Vertical
8909.54	43.17	-3.80	39.37	54.00	-14.63	AV	Vertical
8922.03	53.83	-3.80	50.03	68.20	-18.17	PK	Horizontal
8922.03	44.28	-3.80	40.48	54.00	-13.52	AV	Horizontal
11554.66	55.06	-2.92	52.14	74.00	-21.86	PK	Vertical
11554.66	44.80	-2.92	41.88	54.00	-12.12	AV	Vertical
11554.39	56.47	-2.92	53.55	74.00	-20.45	PK	Horizontal
11554.39	45.07	-2.92	42.15	54.00	-11.85	AV	Horizontal
13292.72	54.64	-0.35	54.29	74.00	-19.71	PK	Vertical
13292.72	44.29	-0.35	43.94	54.00	-10.06	AV	Vertical
13286.65	54.34	-0.35	53.99	74.00	-20.01	PK	Horizontal
13286.65	44.40	-0.35	44.05	54.00	-9.95	AV	Horizontal
High Channel (802.11/ 5825 MHz)							
3995.43	52.74	-6.89	45.85	74.00	-28.15	PK	Vertical
3995.43	43.50	-6.89	36.61	54.00	-17.39	AV	Vertical
3984.61	53.28	-6.89	46.39	74.00	-27.61	PK	Horizontal
3984.61	42.32	-6.89	35.43	54.00	-18.57	AV	Horizontal
8919.62	53.45	-3.80	49.65	68.20	-18.55	PK	Vertical
8919.62	44.44	-3.80	40.64	54.00	-13.36	AV	Vertical
8919.37	53.14	-3.80	49.34	68.20	-18.86	PK	Horizontal
8919.37	43.38	-3.80	39.58	54.00	-14.42	AV	Horizontal
11636.20	55.20	-2.92	52.28	74.00	-21.72	PK	Vertical
11636.20	44.42	-2.92	41.50	54.00	-12.50	AV	Vertical
11649.98	55.17	-2.92	52.25	74.00	-21.75	PK	Horizontal
11649.98	44.84	-2.92	41.92	54.00	-12.08	AV	Horizontal
13285.58	53.84	-0.35	53.49	74.00	-20.51	PK	Vertical
13285.58	43.73	-0.35	43.38	54.00	-10.62	AV	Vertical
13288.45	54.08	-0.35	53.73	74.00	-20.27	PK	Horizontal
13288.45	43.86	-0.35	43.51	54.00	-10.49	AV	Horizontal

Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to



compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



3.2.7 TEST RESULTS(Band edge Requirements)

Band I& Band II (5.15-5.35) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5150	55.92	-7.51	48.41	74	-25.59	PK	Vertical
5150	44.55	-7.51	37.04	54	-16.96	AV	Vertical
5150	55.97	-7.51	48.46	74	-25.54	PK	Horizontal
5150	45.01	-7.51	37.50	54	-16.50	AV	Horizontal
5350	54.25	-8.19	46.06	74	-27.94	PK	Vertical
5350	44.80	-8.19	36.61	54	-17.39	AV	Vertical
5350	54.93	-8.19	46.74	74	-27.26	PK	Horizontal
5350	44.81	-8.19	36.62	54	-17.38	AV	Horizontal
802.11n BW40MHz							
5150	55.69	-7.51	48.18	74	-25.82	Peak	Vertical
5150	45.24	-7.51	37.73	54	-16.27	AVG	Vertical
5150	55.52	-7.51	48.01	74	-25.99	Peak	Horizontal
5150	45.03	-7.51	37.52	54	-16.48	AVG	Horizontal
5350	54.38	-8.19	46.19	74	-27.81	Peak	Vertical
5350	44.76	-8.19	36.57	54	-17.43	AVG	Vertical
5350	54.77	-8.19	46.58	74	-27.42	Peak	Horizontal
5350	44.12	-8.19	35.93	54	-18.07	AVG	Horizontal
802.11ac BW80MHz							
5150	55.07	-7.51	47.56	74	-26.44	Peak	Vertical
5150	44.04	-7.51	36.53	54	-17.47	AVG	Vertical
5150	55.51	-7.51	48.00	74	-26.00	Peak	Horizontal
5150	44.05	-7.51	36.54	54	-17.46	AVG	Horizontal
5350	55.40	-8.19	47.21	74	-26.79	Peak	Vertical
5350	44.46	-8.19	36.27	54	-17.73	AVG	Vertical
5350	54.01	-8.19	45.82	74	-28.18	Peak	Horizontal
5350	44.43	-8.19	36.24	54	-17.76	AVG	Horizontal



Band IV(5.47-5.725 GHz)							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5460	54.13	-8.27	45.86	74	-28.14	PK	Vertical
5460	42.51	-8.27	34.24	54	-19.76	AV	Vertical
5460	54.06	-8.27	45.79	74	-28.21	PK	Horizontal
5460	43.63	-8.27	35.36	54	-18.64	AV	Horizontal
7250	54.81	-6.33	48.48	74	-25.52	PK	Vertical
7250	44.39	-6.33	38.06	54	-15.94	AV	Vertical
7250	54.77	-6.33	48.44	74	-25.56	PK	Horizontal
7250	44.50	-6.33	38.17	54	-15.83	AV	Horizontal
802.11n BW40MHz							
5460	54.46	-8.27	46.19	74	-27.81	PK	Vertical
5460	43.22	-8.27	34.95	54	-19.05	AV	Vertical
5460	53.70	-8.27	45.43	74	-28.57	PK	Horizontal
5460	42.65	-8.27	34.38	54	-19.62	AV	Horizontal
7250	54.31	-6.33	47.98	74	-26.02	PK	Vertical
7250	43.56	-6.33	37.23	54	-16.77	AV	Vertical
7250	54.18	-6.33	47.85	74	-26.15	PK	Horizontal
7250	44.68	-6.33	38.35	54	-15.65	AV	Horizontal
802.11ac BW80MHz							
5460	54.02	-8.27	45.75	74	-28.25	PK	Vertical
5460	43.91	-8.27	35.64	54	-18.36	AV	Vertical
5460	53.41	-8.27	45.14	74	-28.86	PK	Horizontal
5460	42.95	-8.27	34.68	54	-19.32	AV	Horizontal
7250	54.97	-6.33	48.64	74	-25.36	PK	Vertical
7250	43.58	-6.33	37.25	54	-16.75	AV	Vertical
7250	54.19	-6.33	47.86	74	-26.14	PK	Horizontal
7250	43.88	-6.33	37.55	54	-16.45	AV	Horizontal



Band IV(5.725-5.85 GHz)							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11n BW20MHz							
5460	54.07	-8.27	45.80	74	-28.20	PK	Vertical
5460	43.16	-8.27	34.89	54	-19.11	AV	Vertical
5460	53.43	-8.27	45.16	74	-28.84	PK	Horizontal
5460	43.49	-8.27	35.22	54	-18.78	AV	Horizontal
7250	55.18	-6.33	48.85	74	-25.15	PK	Vertical
7250	44.30	-6.33	37.97	54	-16.03	AV	Vertical
7250	54.88	-6.33	48.55	74	-25.45	PK	Horizontal
7250	43.84	-6.33	37.51	54	-16.49	AV	Horizontal
802.11n BW40MHz							
5460	53.87	-8.27	45.60	74	-28.40	PK	Vertical
5460	42.93	-8.27	34.66	54	-19.34	AV	Vertical
5460	53.15	-8.27	44.88	74	-29.12	PK	Horizontal
5460	43.23	-8.27	34.96	54	-19.04	AV	Horizontal
7250	55.26	-6.33	48.93	74	-25.07	PK	Vertical
7250	44.92	-6.33	38.59	54	-15.41	AV	Vertical
7250	54.27	-6.33	47.94	74	-26.06	PK	Horizontal
7250	44.53	-6.33	38.20	54	-15.80	AV	Horizontal
802.11ac BW80MHz							
5460	54.12	-8.27	45.85	74	-28.15	PK	Vertical
5460	43.50	-8.27	35.23	54	-18.77	AV	Vertical
5460	53.84	-8.27	45.57	74	-28.43	PK	Horizontal
5460	43.35	-8.27	35.08	54	-18.92	AV	Horizontal
7250	54.21	-6.33	47.88	74	-26.12	PK	Vertical
7250	44.58	-6.33	38.25	54	-15.75	AV	Vertical
7250	54.56	-6.33	48.23	74	-25.77	PK	Horizontal
7250	44.61	-6.33	38.28	54	-15.72	AV	Horizontal



4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500kHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.



4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.



5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
 2. Set RBW = approximately 1% of the emission bandwidth.
 3. Set the VBW $\geq$ RBW.
 4. Detector = Peak.
 5. Trace mode = max hold.
 6. 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%.

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

For the measurement records, refer to the appendix I.



5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 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.

5.2.5 TEST RESULTS

For the measurement records, refer to the appendix I.



5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth.

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies 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.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 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.

5.3.5 TEST RESULTS

For the measurement records, refer to the appendix I.



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5825	

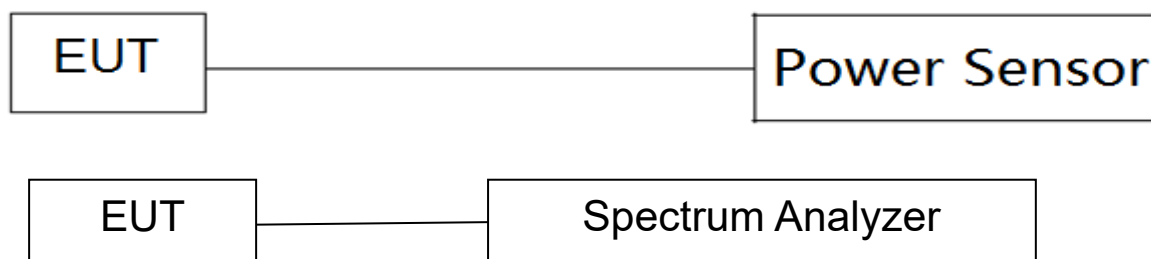
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

Part 15.203 requirement: For intentional device, according to 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.

8.2 EUT ANTENNA

The EUT antenna is FPC Antenna. It comply with the standard requirement.



APPENDIX I - TEST RESULTS

ANNEX A. AV POWER

1. 802.11A_BAND1_BW20MHZ

1.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5180	20.000000	Both	24	7.32	Pass

1.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5220	20.000000	Both	24	7.19	Pass

1.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5240	20.000000	Both	24	7.36	Pass



2. 802.11N_BAND1_BW20MHZ

2.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5180	20.000000	Both	24	7.23	Pass

2.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5220	20.000000	Both	24	7.03	Pass

2.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5240	20.000000	Both	24	7.17	Pass



3. 802.11N_BAND1_BW40MHZ

3.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5190	40.000000	Both	24	6.92	Pass

3.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5230	40.000000	Both	24	6.92	Pass



4. 802.11AC_BAND1_BW20MHZ

4.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5180	20.000000	Both	24	7.32	Pass

4.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5220	20.000000	Both	24	6.88	Pass

4.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5240	20.000000	Both	24	7.2	Pass



5. 802.11AC_BAND1_BW40MHZ

5.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5190	40.000000	Both	24	6.89	Pass

5.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5230	40.000000	Both	24	7.02	Pass



6. 802.11AC_BAND1_BW80MHZ

6.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5210	80.000000	Both	24	6.61	Pass



7. 802.11A_BAND2_BW20MHZ

7.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5260	20.000000	Both	24	7.15	Pass

7.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5300	20.000000	Both	24	7.56	Pass

7.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5320	20.000000	Both	24	7.83	Pass



8. 802.11N_BAND2_BW20MHZ

8.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5260	20.000000	Both	24	7.06	Pass

8.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5300	20.000000	Both	24	7.44	Pass

8.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5320	20.000000	Both	24	7.7	Pass



9. 802.11N_BAND2_BW40MHZ

9.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5270	40.000000	Both	24	6.75	Pass

9.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5310	40.000000	Both	24	7.48	Pass



10. 802.11AC_BAND2_BW20MHZ

10.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5260	20.000000	Both	24	7.07	Pass

10.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5300	20.000000	Both	24	7.44	Pass

10.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5320	20.000000	Both	24	7.72	Pass



11. 802.11AC_BAND2_BW40MHZ

11.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5270	40.000000	Both	24	6.77	Pass

11.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5310	40.000000	Both	24	7.46	Pass



12. 802.11AC_BAND2_BW80MHZ

12.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5290	80.000000	Both	24	6.77	Pass



13. 802.11A_BAND3_BW20MHZ

13.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5500	20.000000	Both	24	6.96	Pass

13.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5580	20.000000	Both	24	6.2	Pass

13.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5700	20.000000	Both	24	6.11	Pass



14. 802.11N_BAND3_BW20MHZ

14.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5500	20.000000	Both	24	6.49	Pass

14.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5580	20.000000	Both	24	5.87	Pass

14.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5700	20.000000	Both	24	6.04	Pass



15. 802.11N_BAND3_BW40MHZ

15.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5510	40.000000	Both	24	6.25	Pass

15.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5590	40.000000	Both	24	5.72	Pass

15.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5670	40.000000	Both	24	5.63	Pass



16. 802.11AC_BAND3_BW20MHZ

16.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5500	20.000000	Both	24	6.66	Pass

16.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5580	20.000000	Both	24	5.9	Pass

16.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5700	20.000000	Both	24	6.13	Pass



17. 802.11AC_BAND3_BW40MHZ

17.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5510	40.000000	Both	24	6.42	Pass

17.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5590	40.000000	Both	24	5.76	Pass

17.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5670	40.000000	Both	24	5.63	Pass



18. 802.11AC_BAND3_BW80MHZ

18.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5530	80.000000	Both	24	5.88	Pass

18.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5610	80.000000	Both	24	5.36	Pass



19. 802.11A_BAND4_BW20MHZ

19.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5825	20.000000	Both	30	6.88	Pass

19.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5745	20.000000	Both	30	6.25	Pass

19.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5785	20.000000	Both	30	6.61	Pass



20. 802.11N_BAND4_BW20MHZ

20.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5825	20.000000	Both	30	6.68	Pass

20.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5745	20.000000	Both	30	6.06	Pass

20.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5785	20.000000	Both	30	6.41	Pass



21. 802.11N_BAND4_BW40MHZ

21.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5755	40.000000	Both	30	5.92	Pass

21.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5795	40.000000	Both	30	6.53	Pass



22. 802.11AC_BAND4_BW20MHZ

22.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5825	20.000000	Both	30	6.42	Pass

22.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5745	20.000000	Both	30	5.83	Pass

22.3. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5785	20.000000	Both	30	6.17	Pass



23. 802.11AC_BAND4_BW40MHZ

23.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5755	40.000000	Both	30	5.55	Pass

23.2. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5795	40.000000	Both	30	6.13	Pass



24. 802.11AC_BAND4_BW80MHZ

24.1. A.1-AV POWER(NTNV)

Test Environment	Center Frequency (MHz)	IBW (MHz)	Limit Check	Upper Limit (dBm)	Power (dBm)	Verdict
NTNV	5775	80.000000	Both	30	5.48	Pass

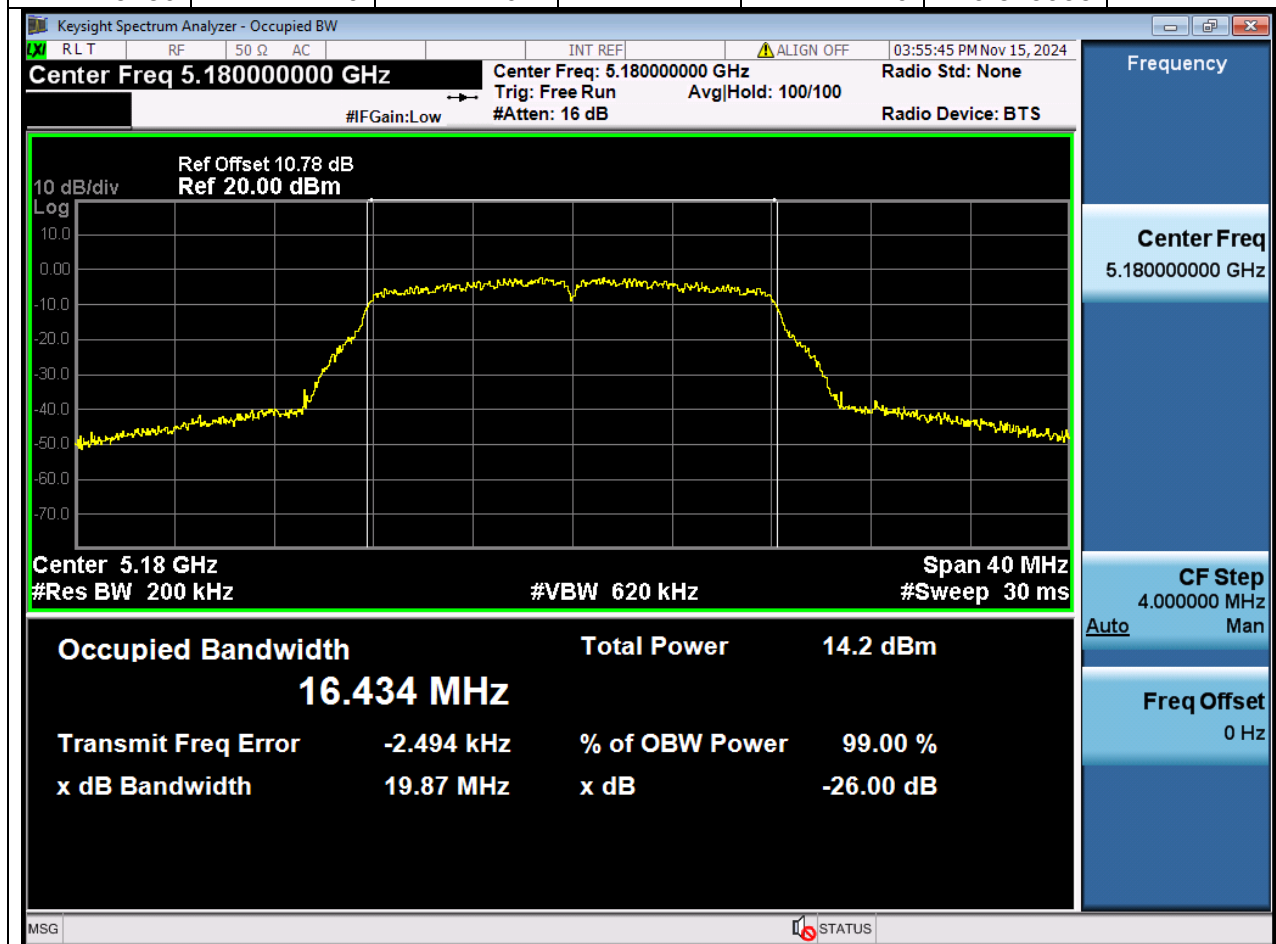


ANNEX A. 26DB BANDWIDTH

1. 802.11A BAND1 BW20MHZ

1.1. A.2-26DB BANDWIDTH(NTNV)

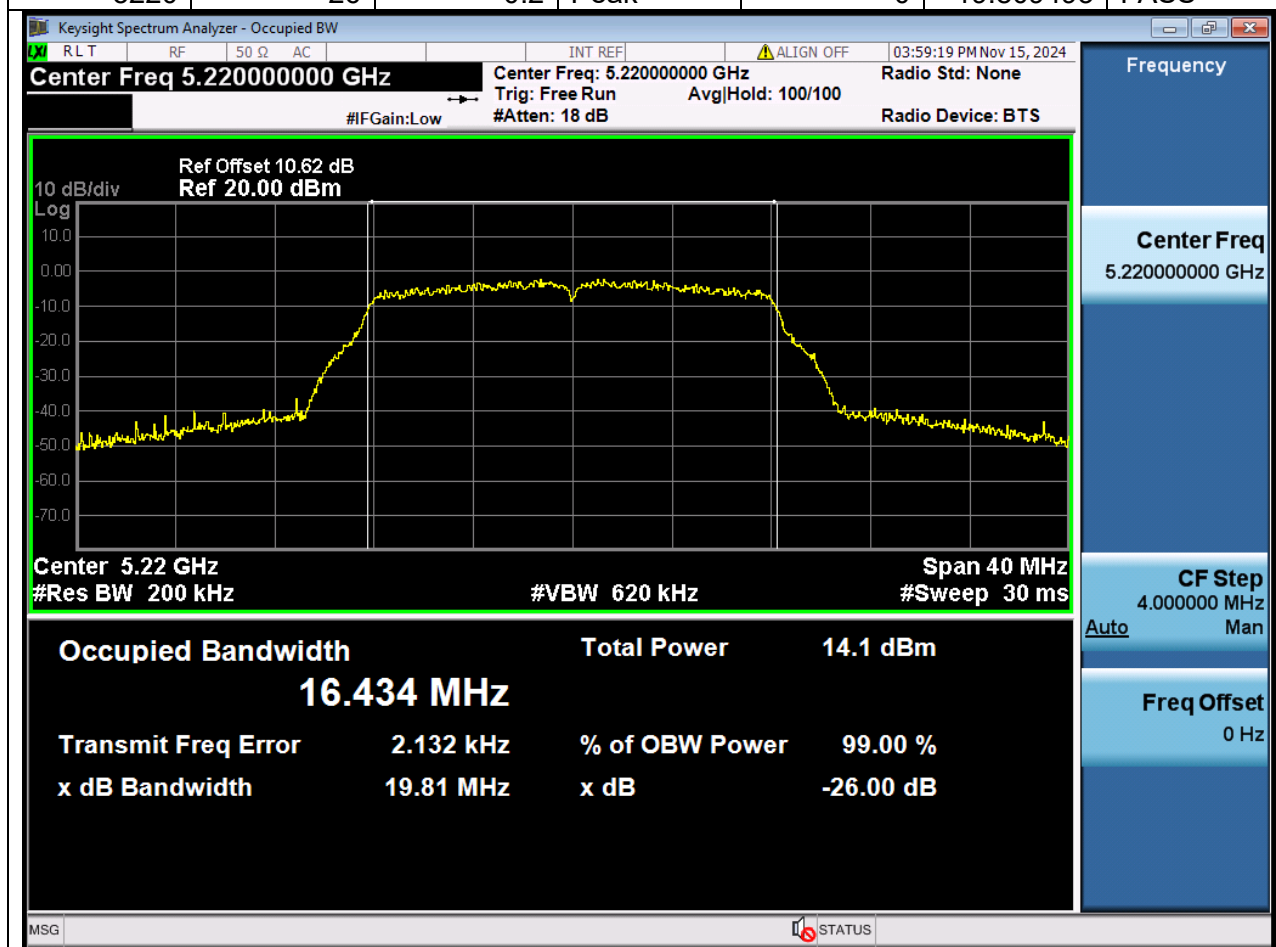
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5180	26	0.2	Peak	0	19.873935	PASS





1.2. A.2-26DB BANDWIDTH(NTNV)

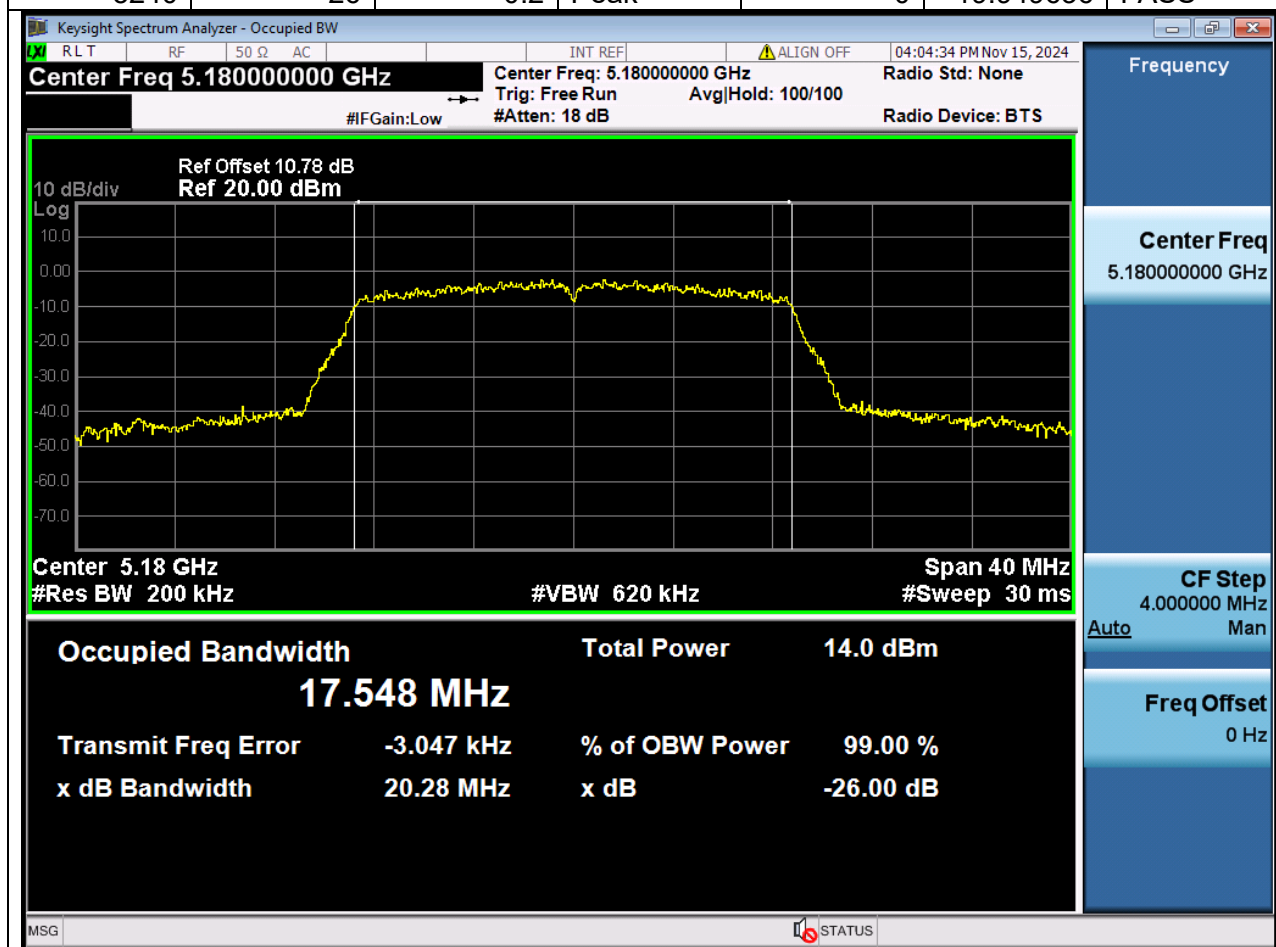
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5220	26	0.2	Peak	0	19.809493	PASS





1.3. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5240	26	0.2	Peak	0	19.949636	PASS

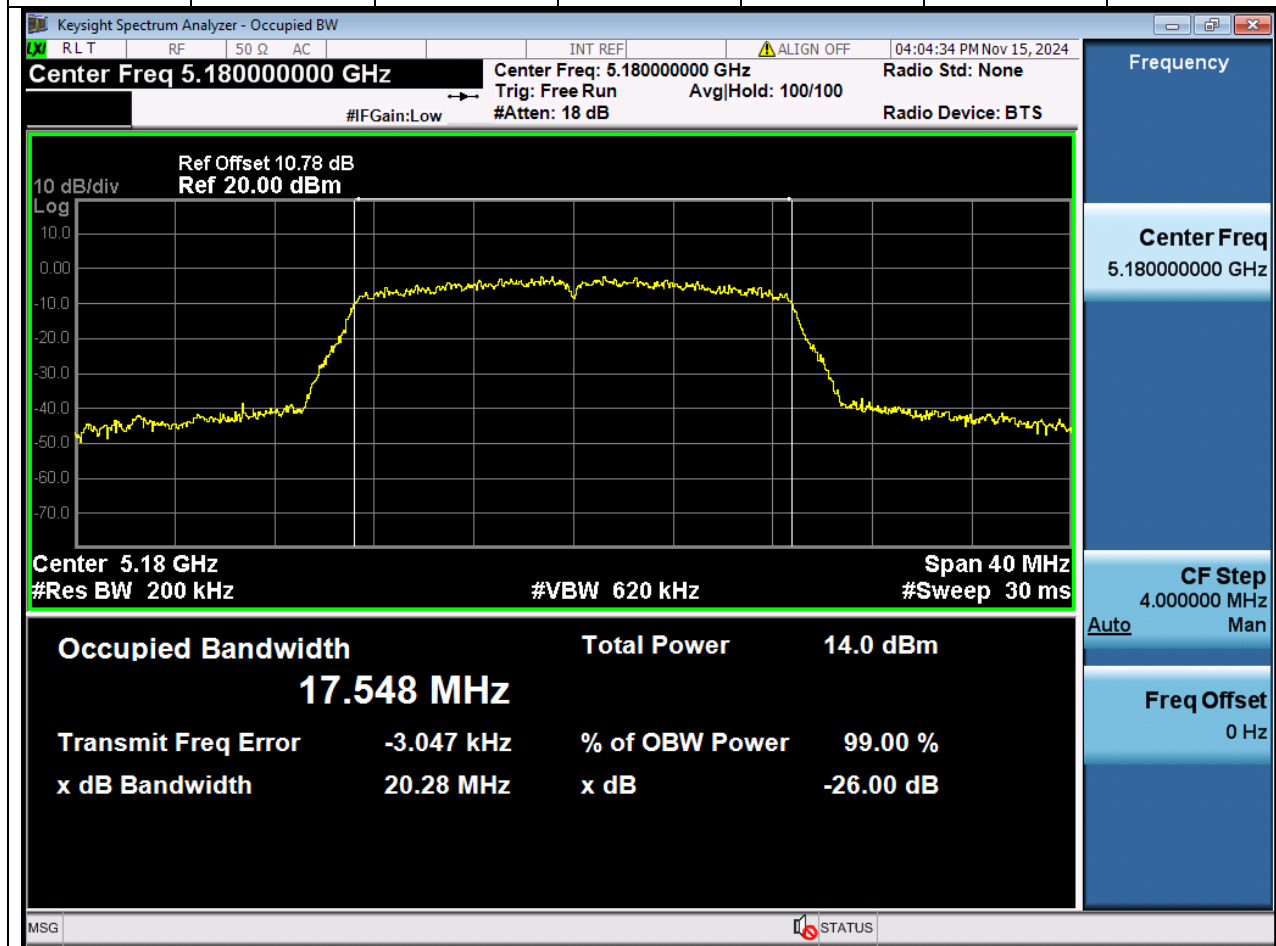




2. 802.11N_BAND1_BW20MHZ

2.1. A.2-26DB BANDWIDTH(NTNV)

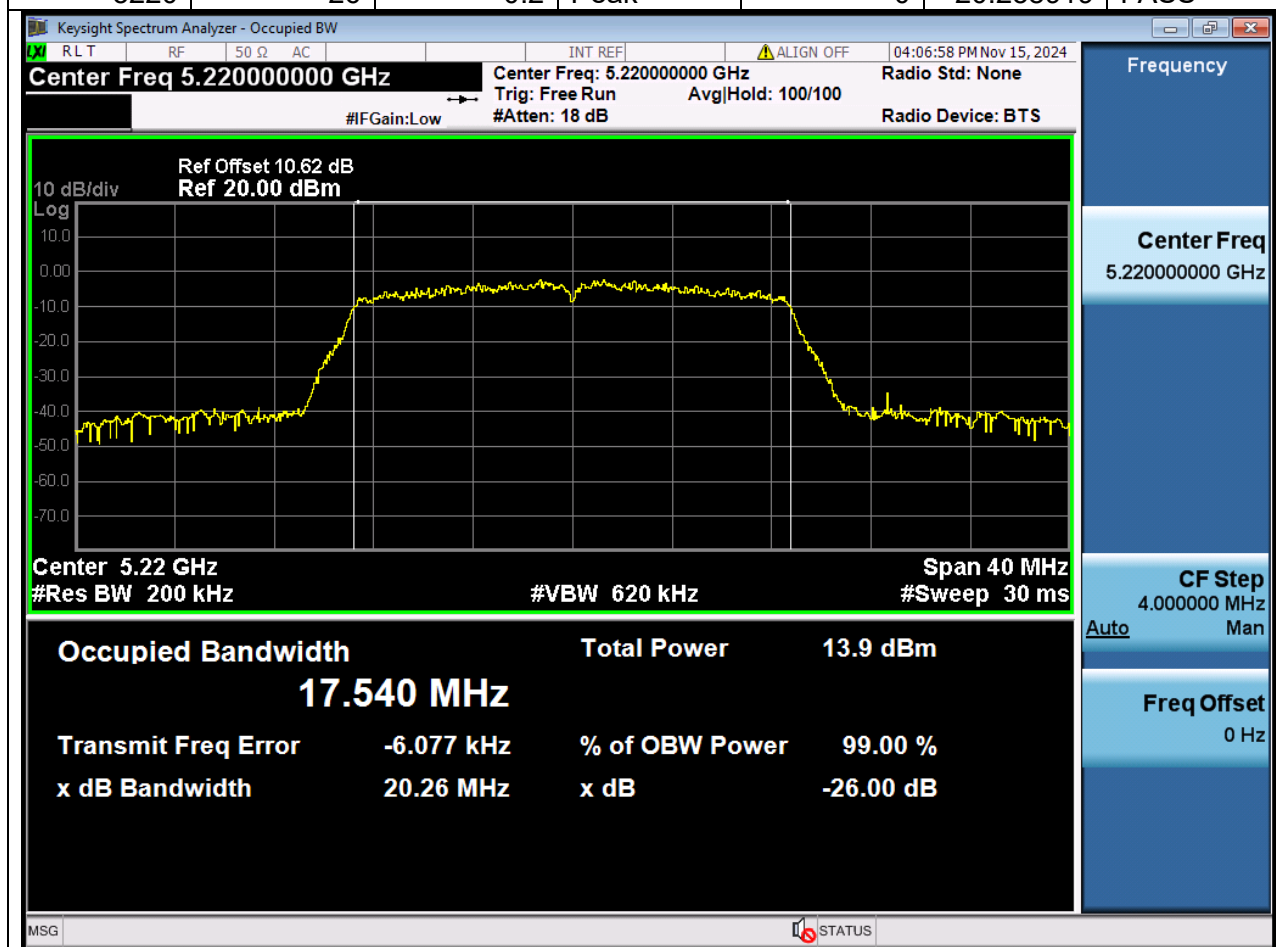
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5180	26	0.2	Peak	0	20.278136	PASS





2.2. A.2-26DB BANDWIDTH(NTNV)

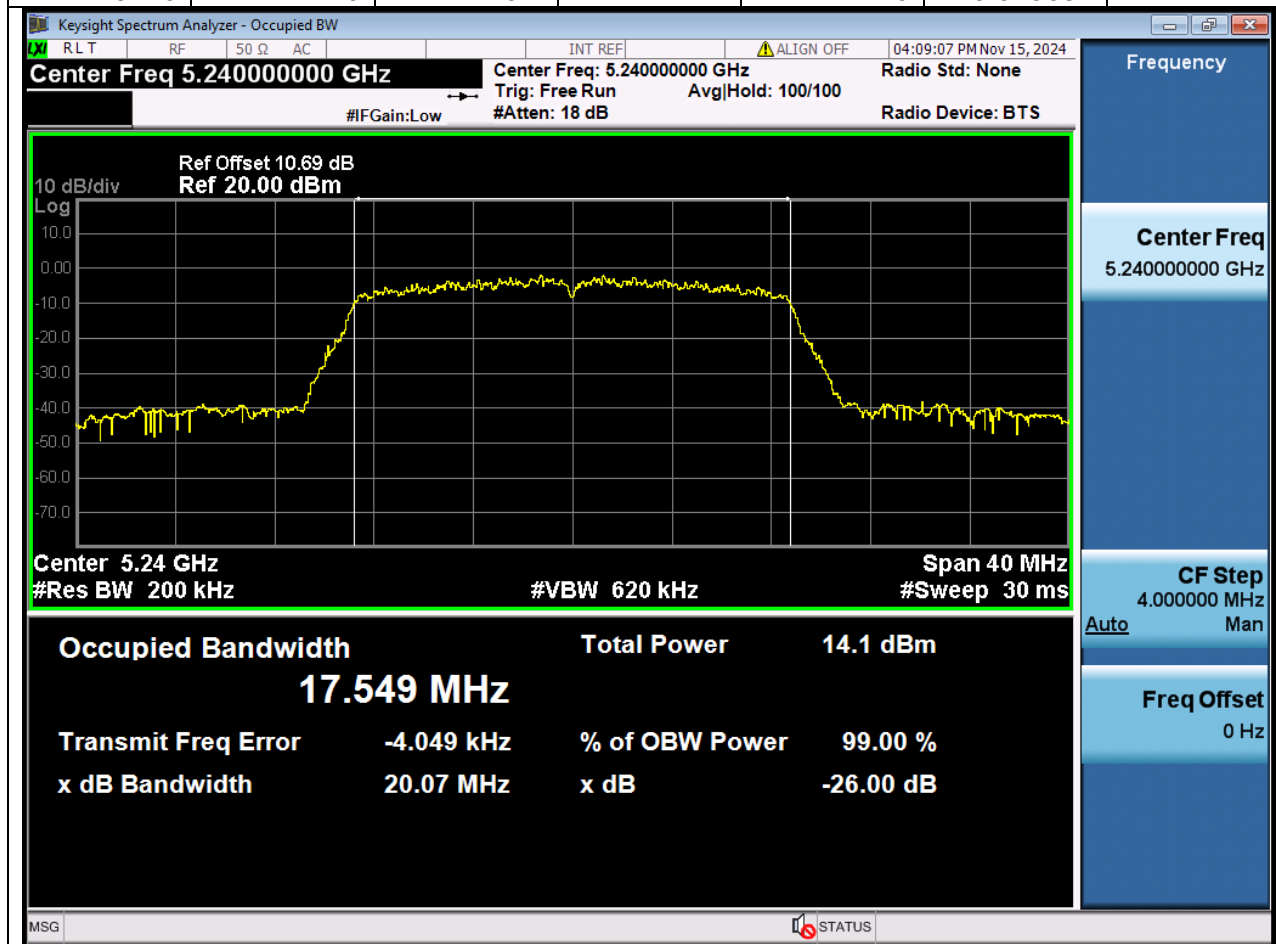
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5220	26	0.2	Peak	0	20.258919	PASS





2.3. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5240	26	0.2	Peak	0	20.073684	PASS





3. 802.11N_BAND1_BW40MHZ

3.1. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5190	26	0.39	Peak	0	40.498289	PASS





3.2. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5230	26	0.39	Peak	0	40.246506	PASS

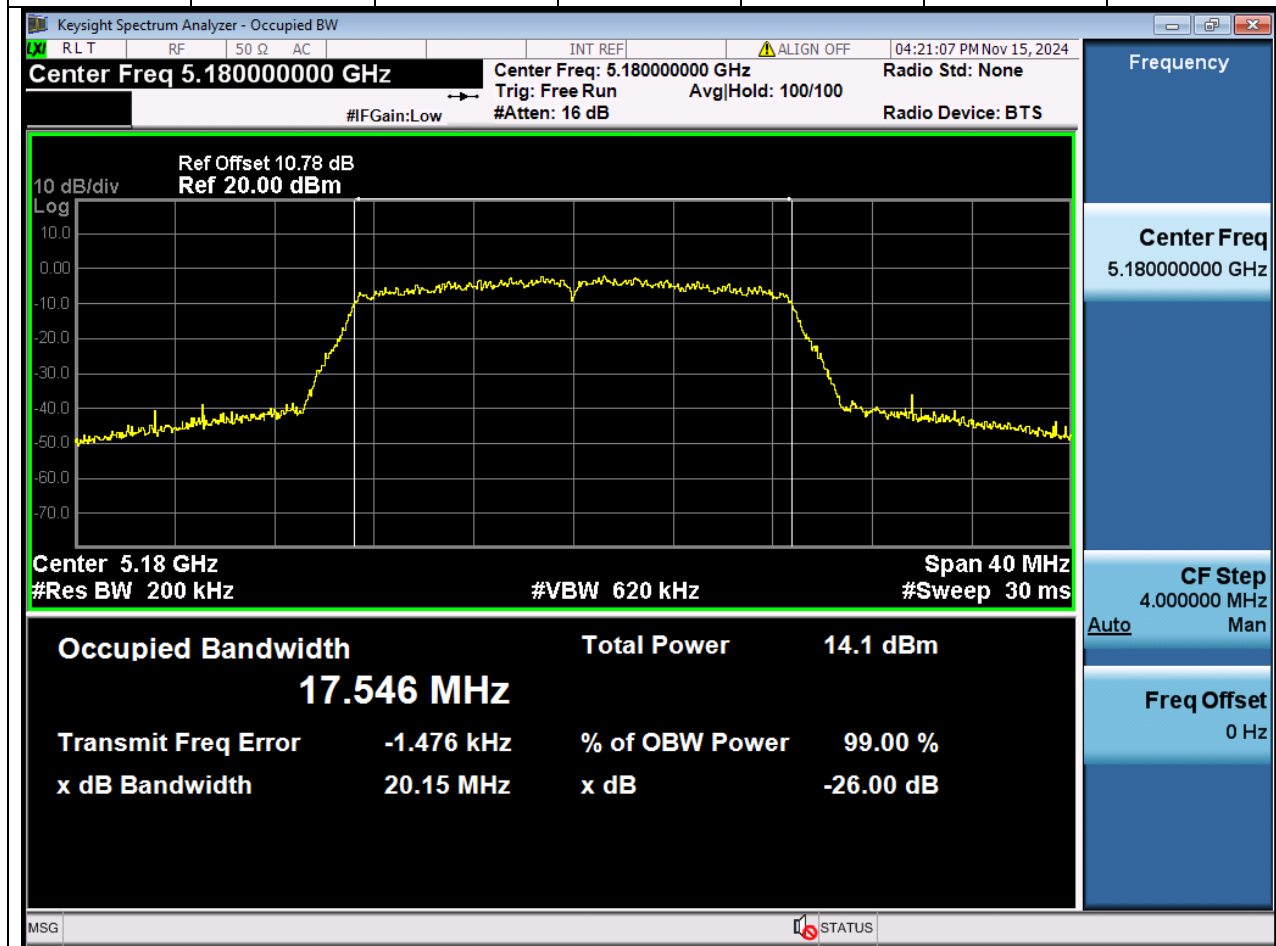




4. 802.11AC_BAND1_BW20MHZ

4.1. A.2-26DB BANDWIDTH(NTNV)

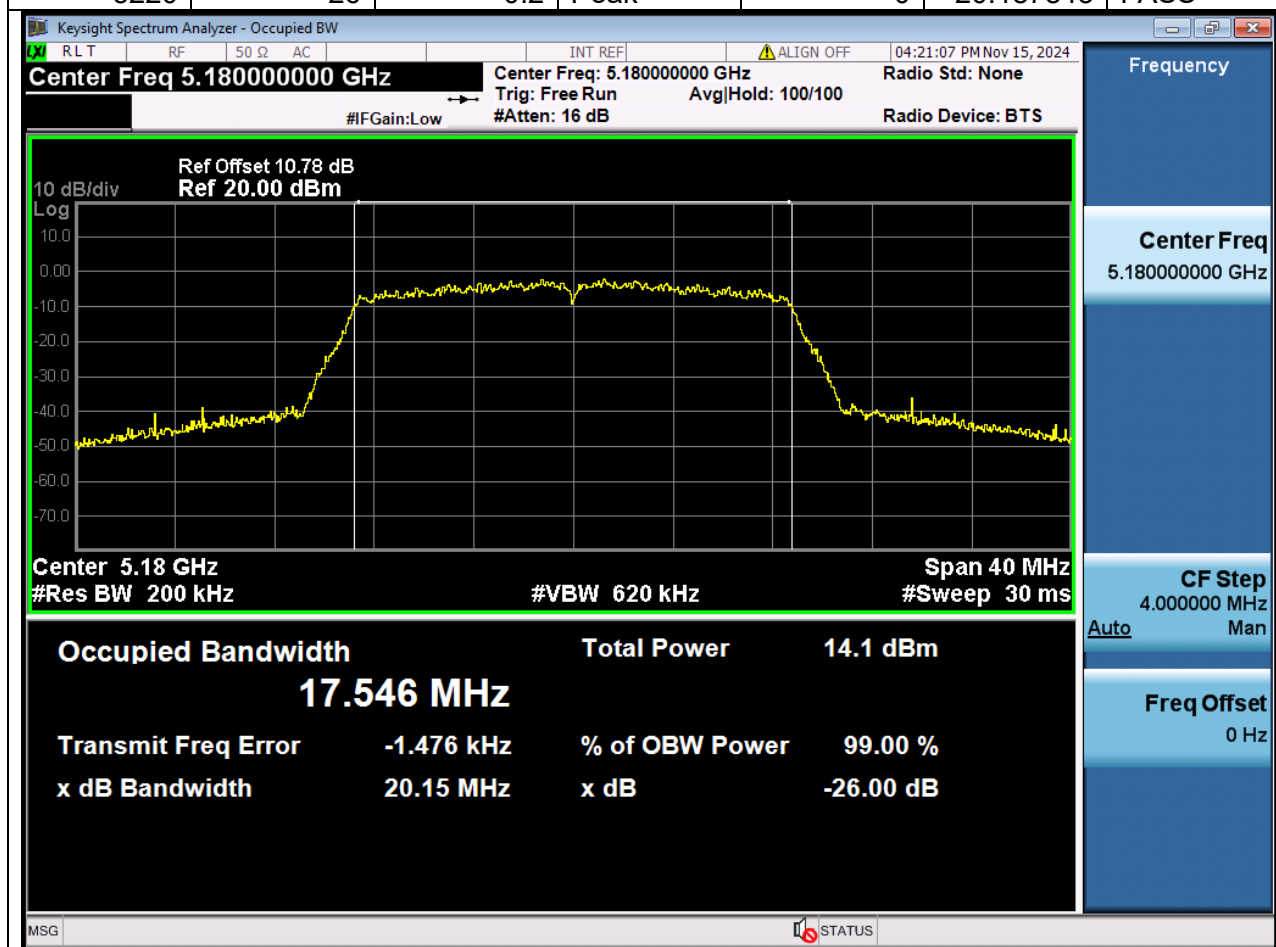
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5180	26	0.2	Peak	0	20.153708	PASS





4.2. A.2-26DB BANDWIDTH(NTNV)

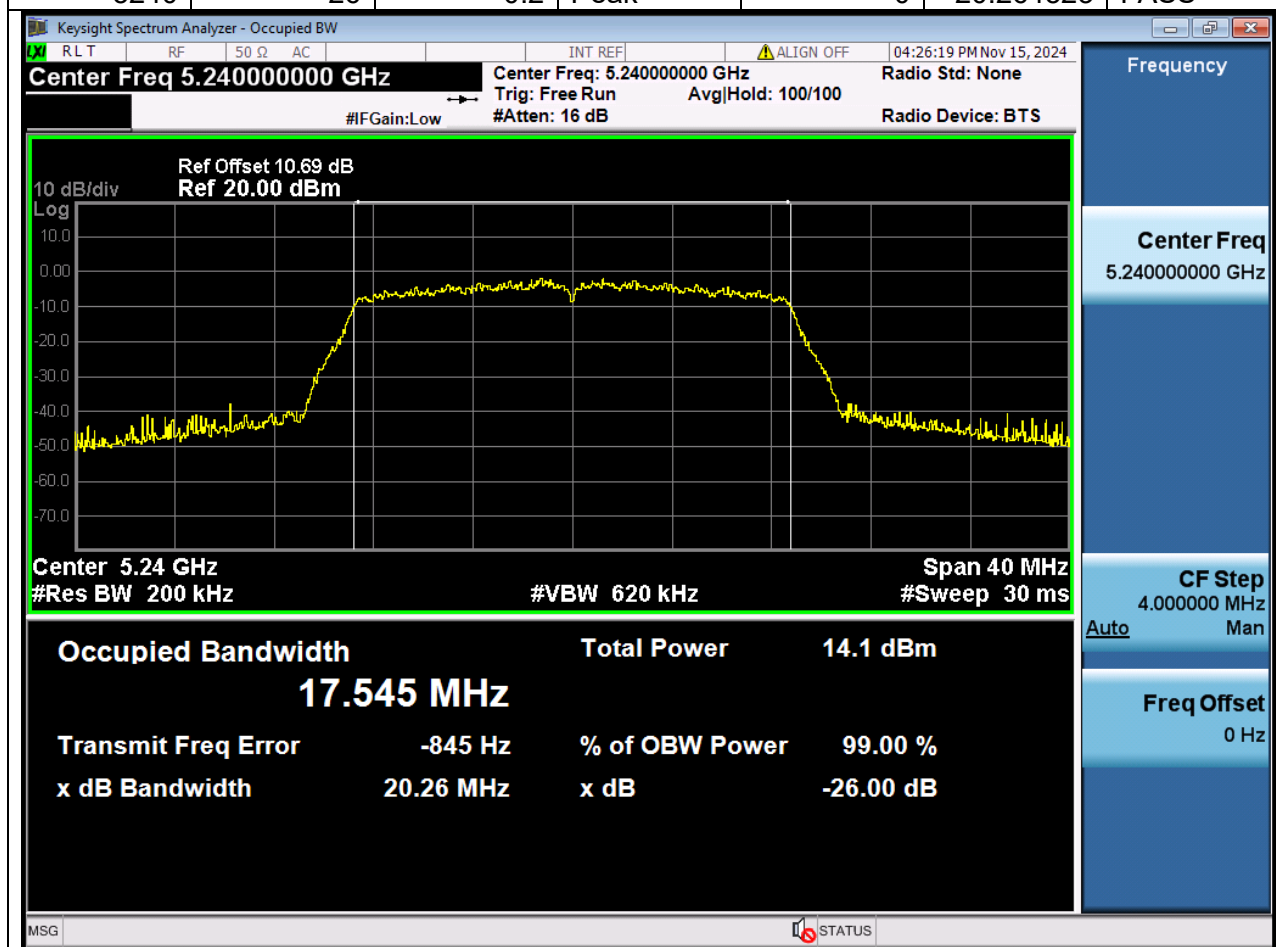
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5220	26	0.2	Peak	0	20.187843	PASS





4.3. A.2-26DB BANDWIDTH(NTNV)

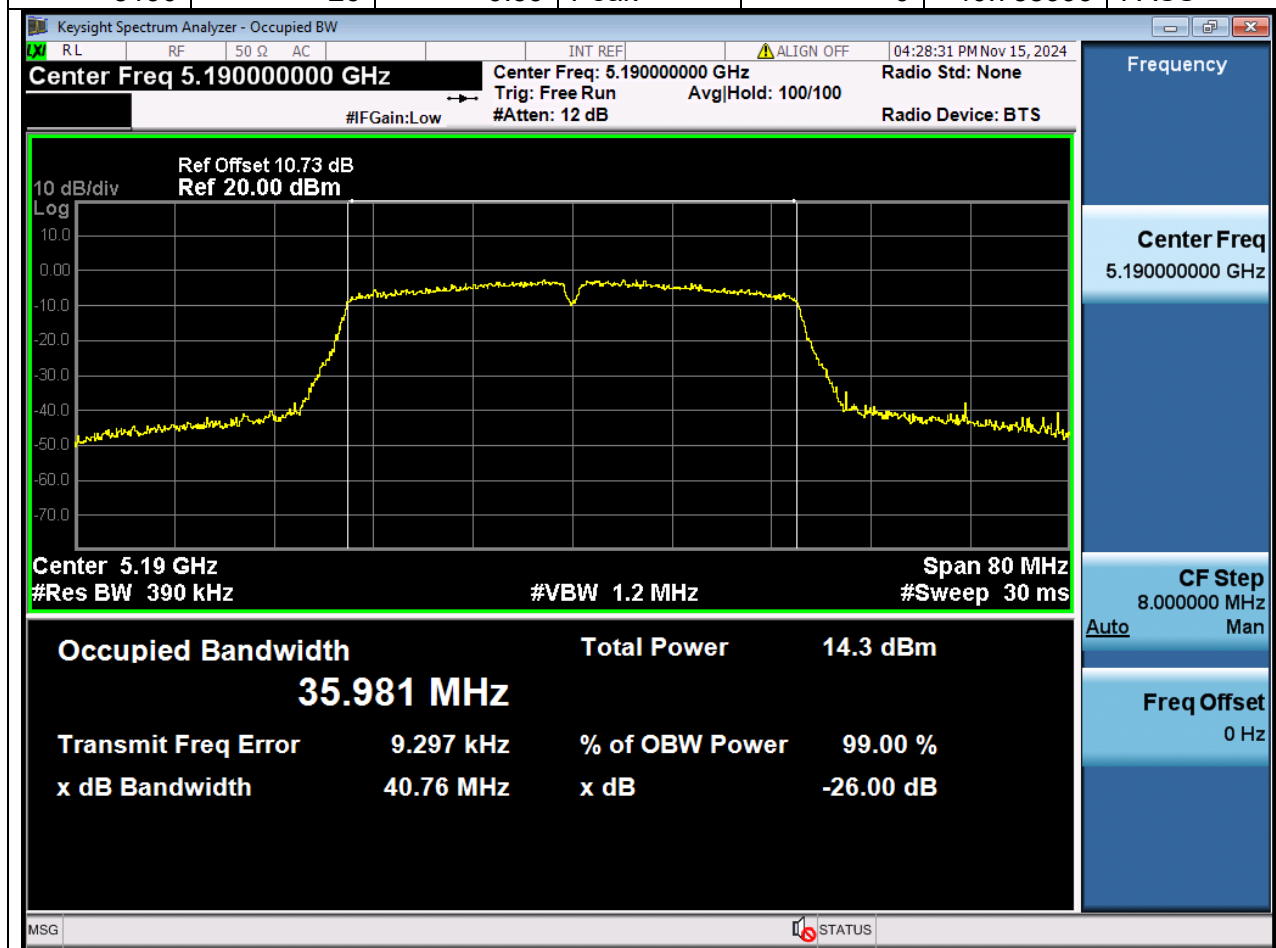
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5240	26	0.2	Peak	0	20.264523	PASS





5. 802.11AC_BAND1_BW40MHZ
5.1. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5190	26	0.39	Peak	0	40.758999	PASS





5.2. A.2-26DB BANDWIDTH(NTNV)

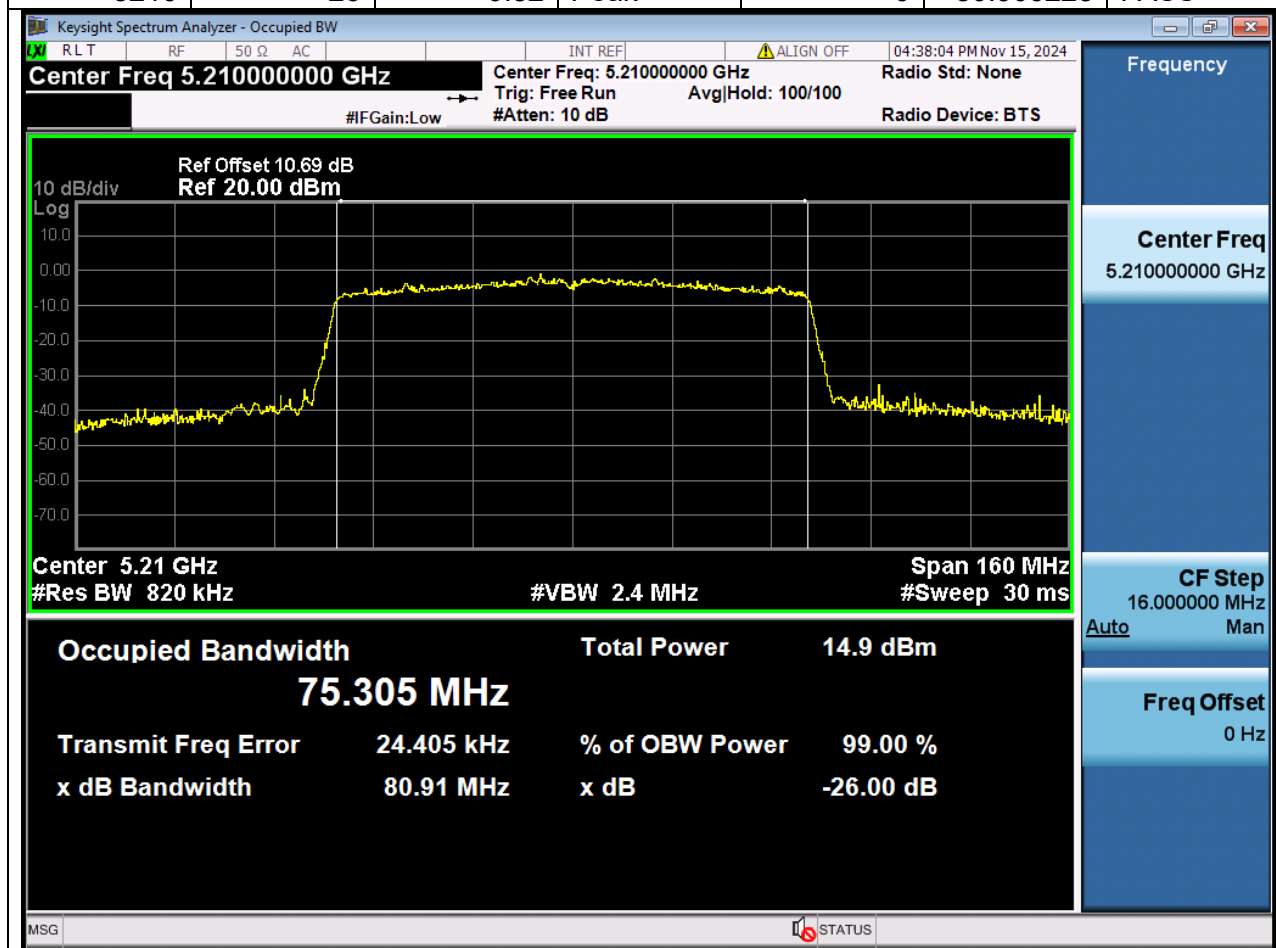
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5230	26	0.39	Peak	0	40.445519	PASS





6. 802.11AC_BAND1_BW80MHZ
6.1. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5210	26	0.82	Peak	0	80.906225	PASS

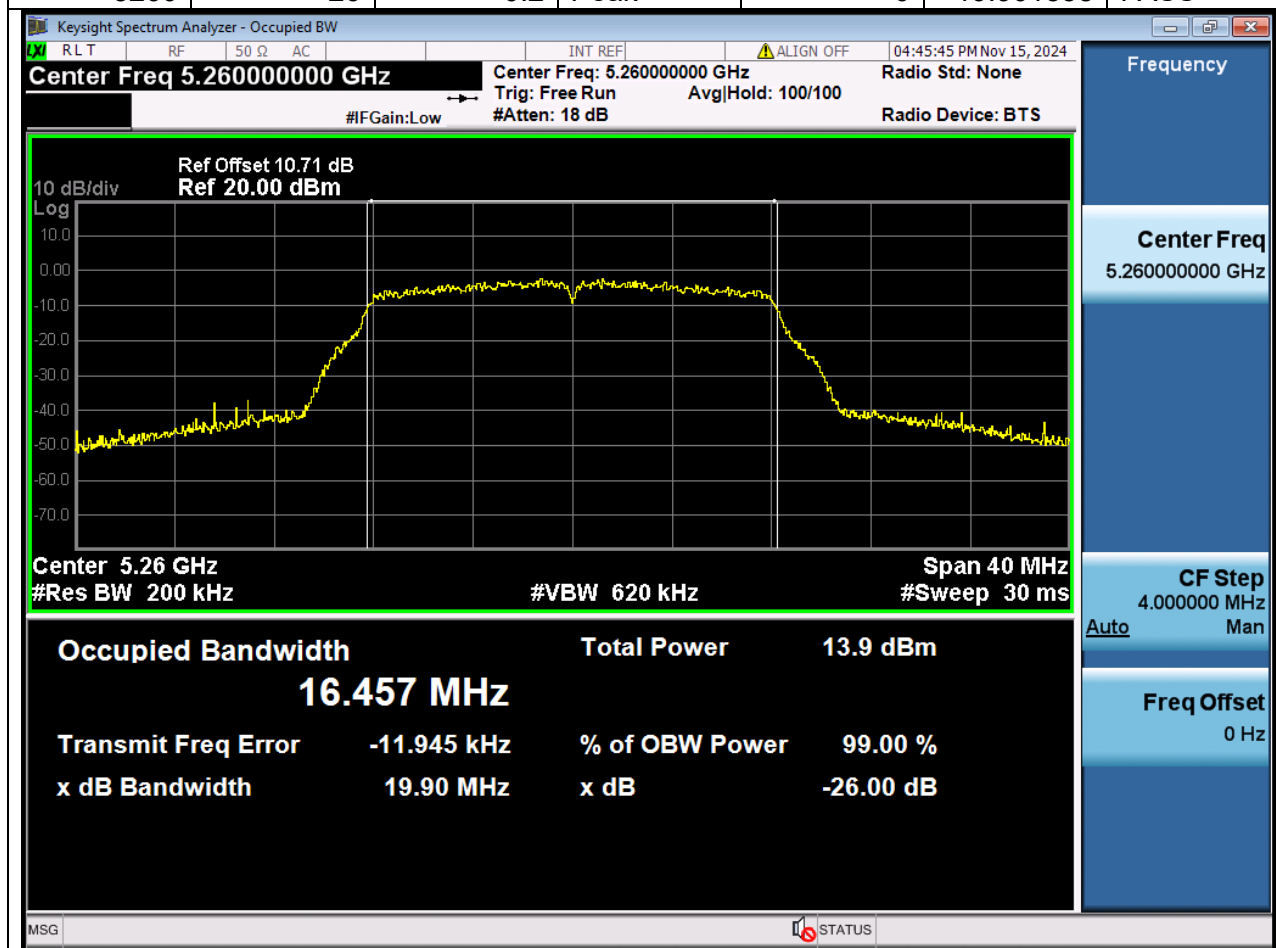




7. 802.11A_BAND2_BW20MHZ

7.1. A.2-26DB BANDWIDTH(NTNV)

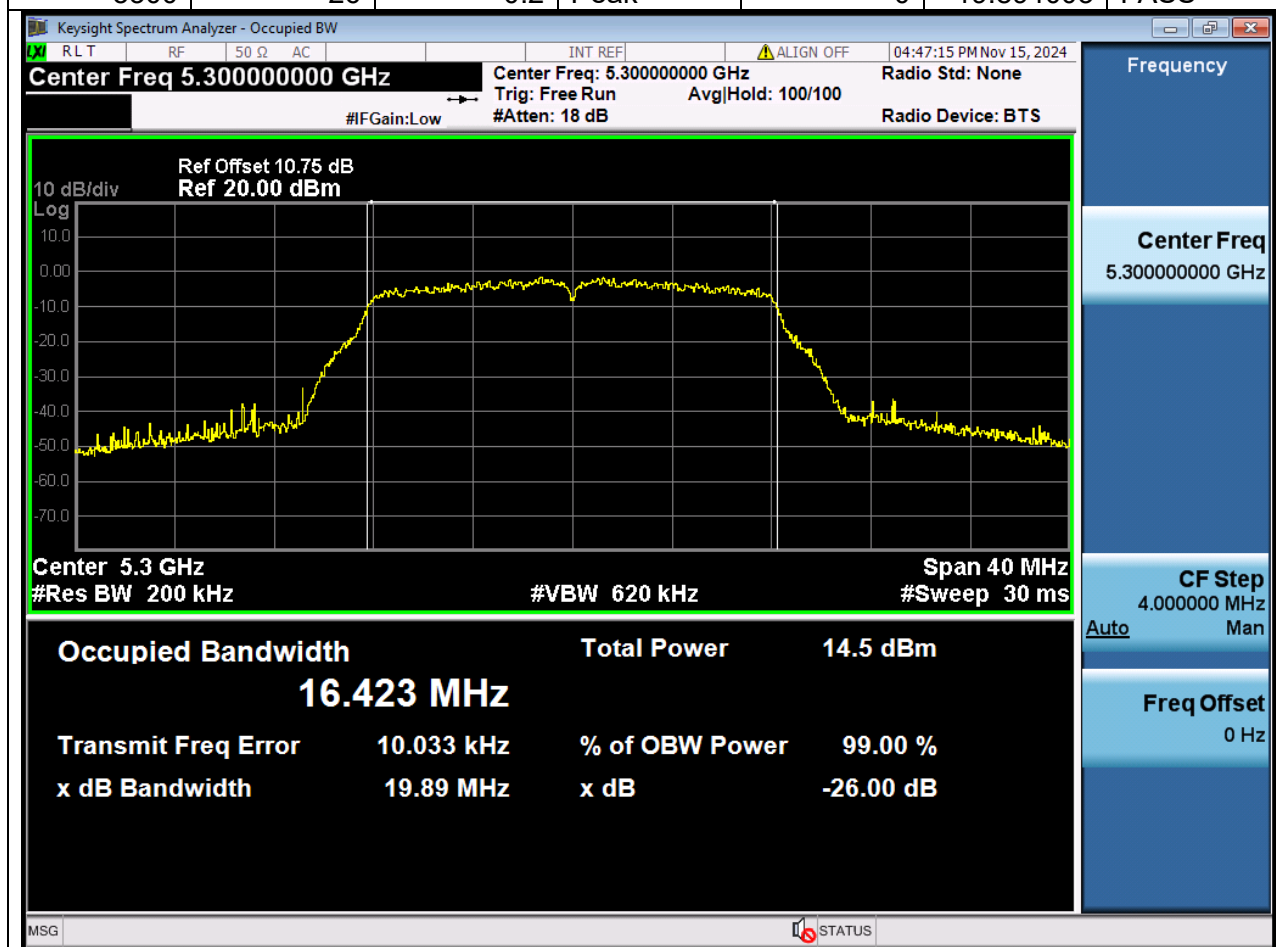
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5260	26	0.2	Peak	0	19.901558	PASS





7.2. A.2-26DB BANDWIDTH(NTNV)

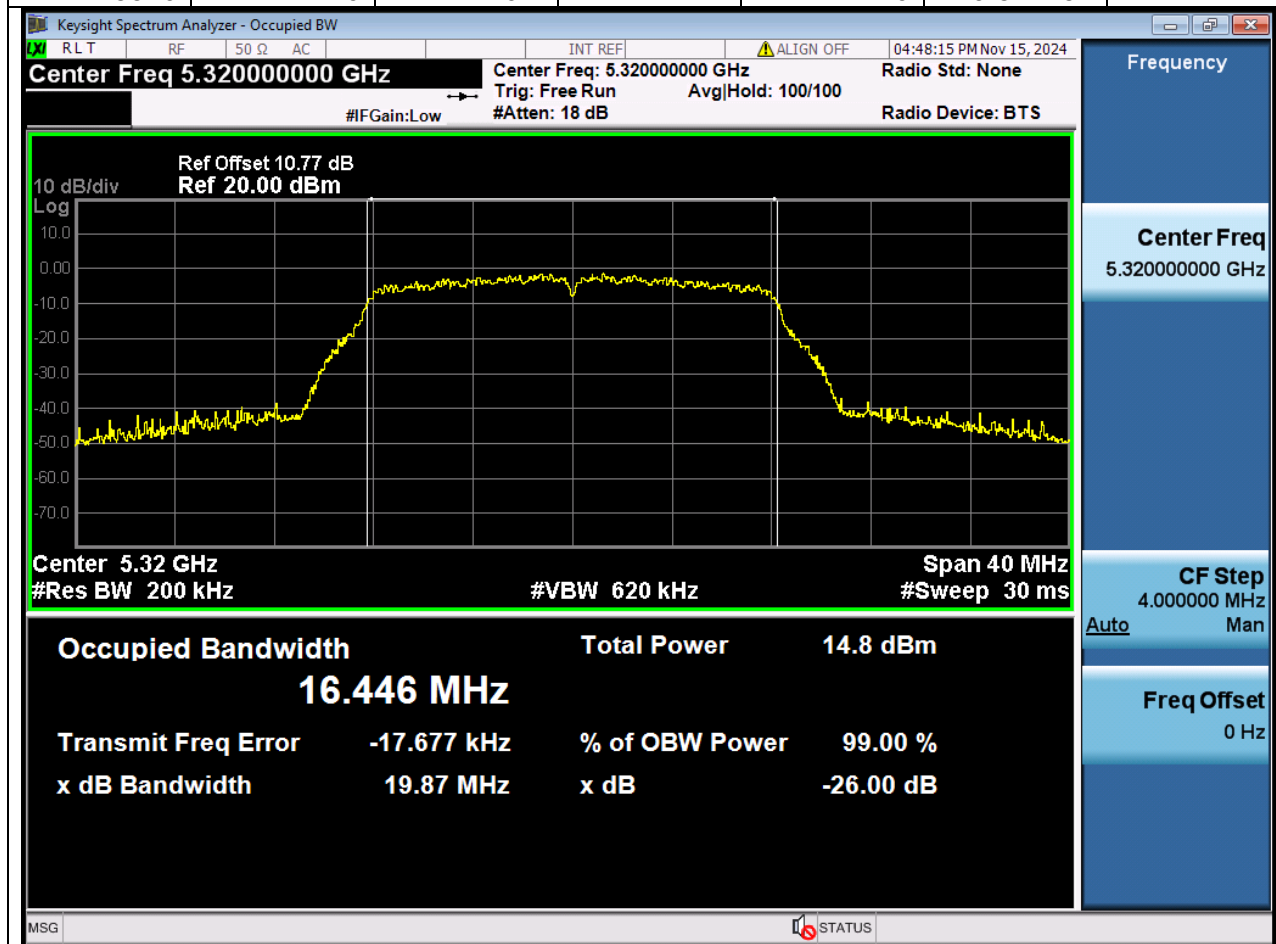
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5300	26	0.2	Peak	0	19.894003	PASS





7.3. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5320	26	0.2	Peak	0	19.871454	PASS

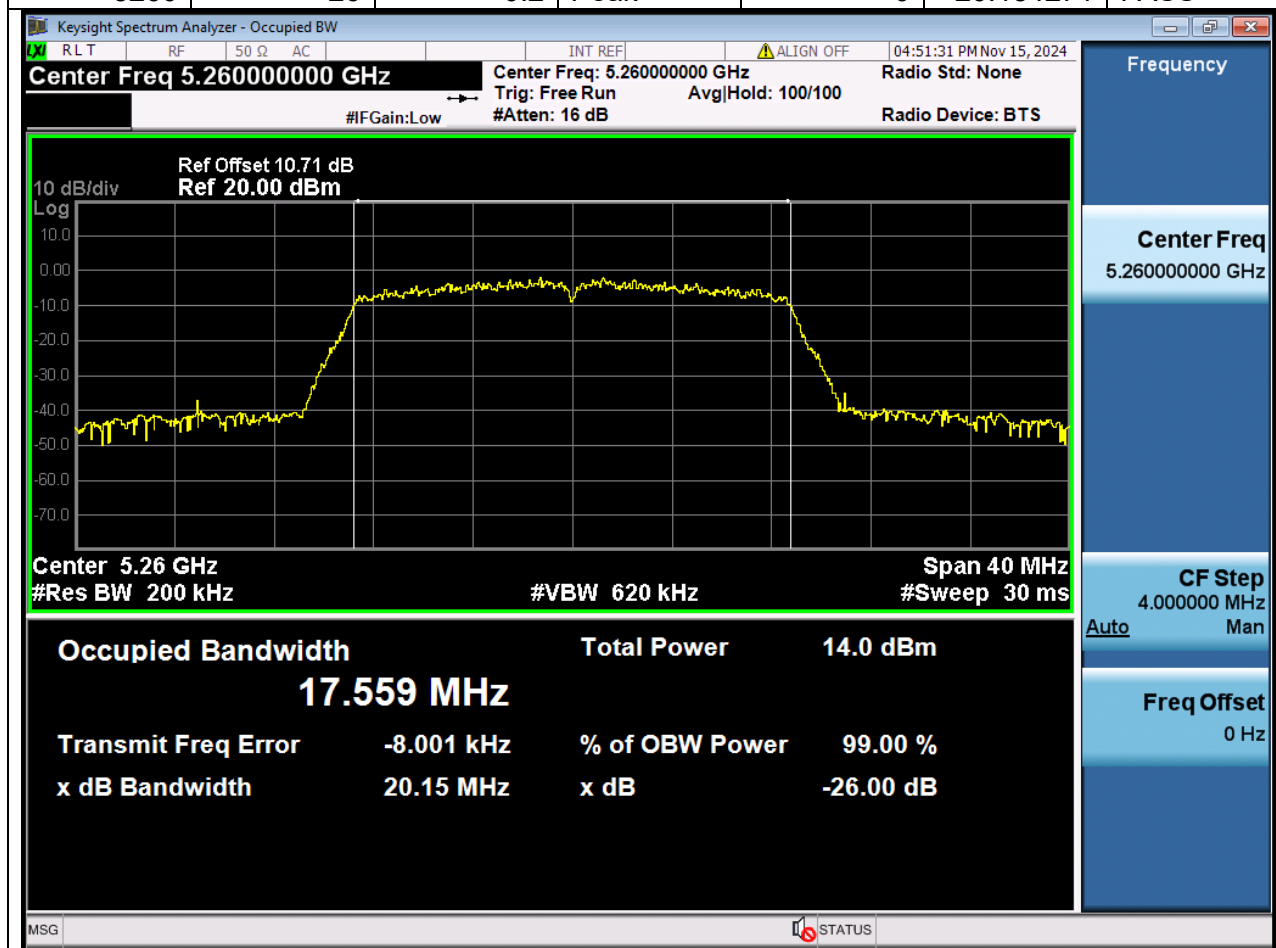




8. 802.11N_BAND2_BW20MHZ

8.1. A.2-26DB BANDWIDTH(NTNV)

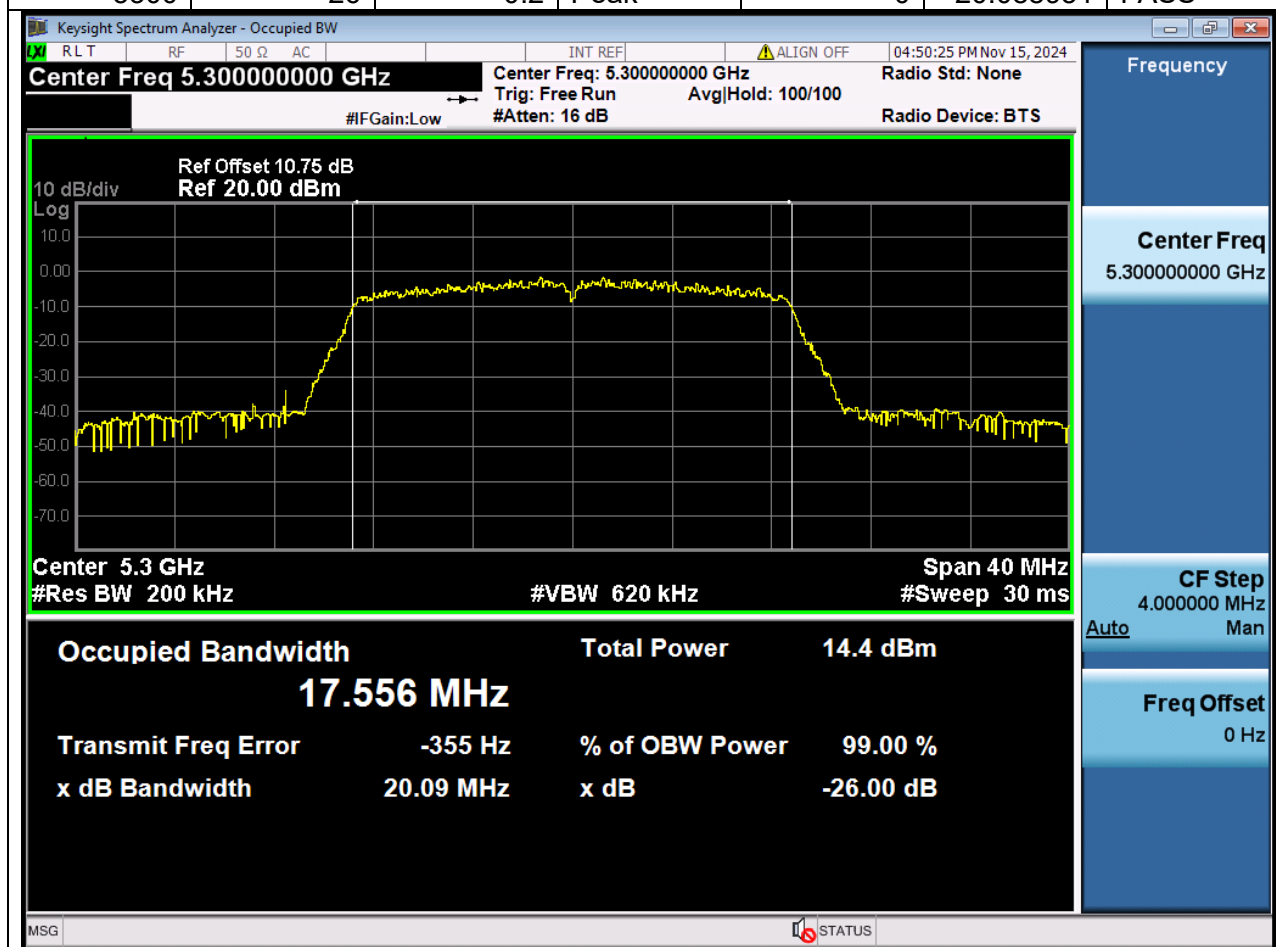
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5260	26	0.2	Peak	0	20.154271	PASS





8.2. A.2-26DB BANDWIDTH(NTNV)

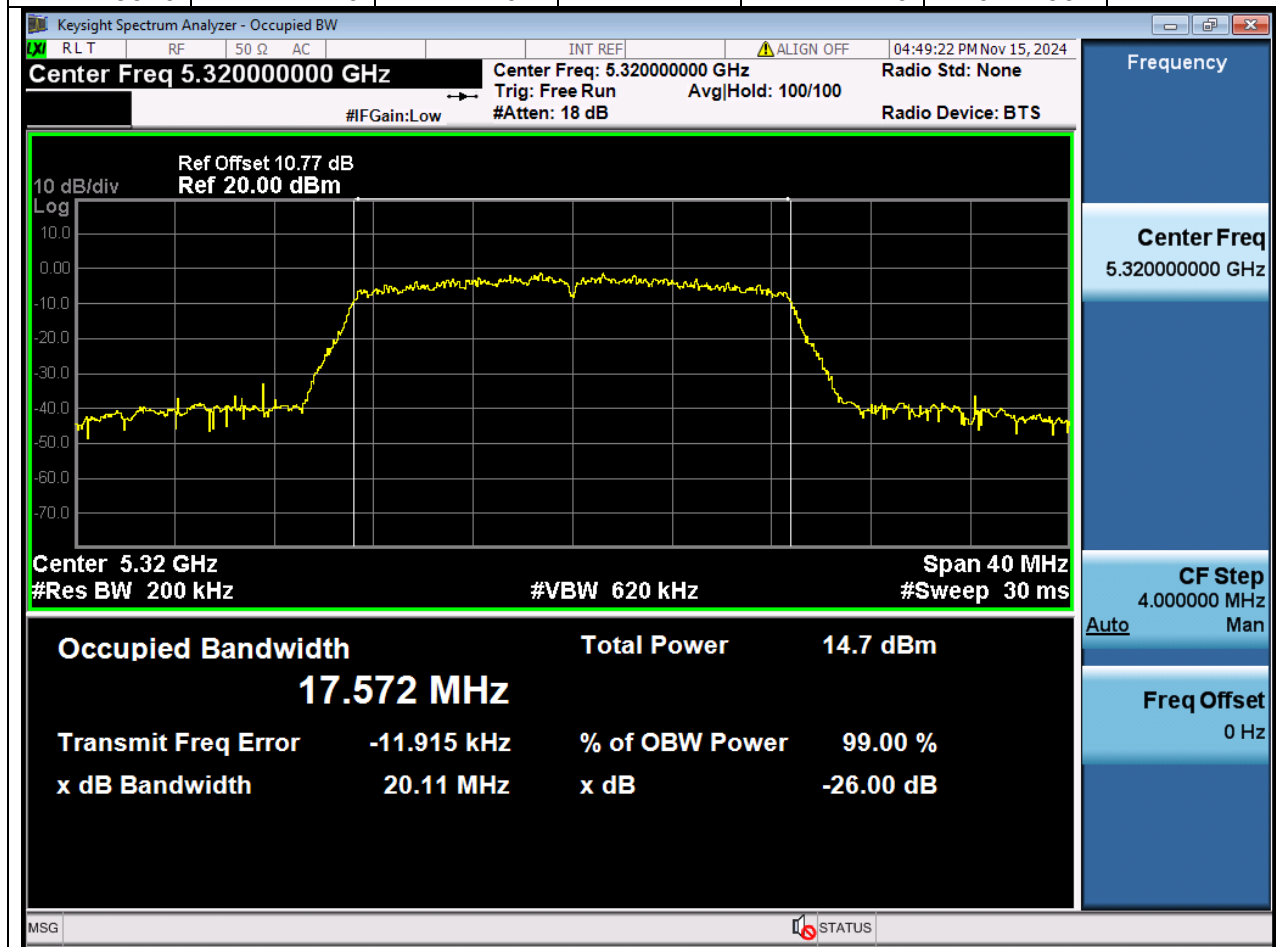
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5300	26	0.2	Peak	0	20.088951	PASS





8.3. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5320	26	0.2	Peak	0	20.111362	PASS





9. 802.11N_BAND2_BW40MHZ

9.1. A.2-26DB BANDWIDTH(NTNV)

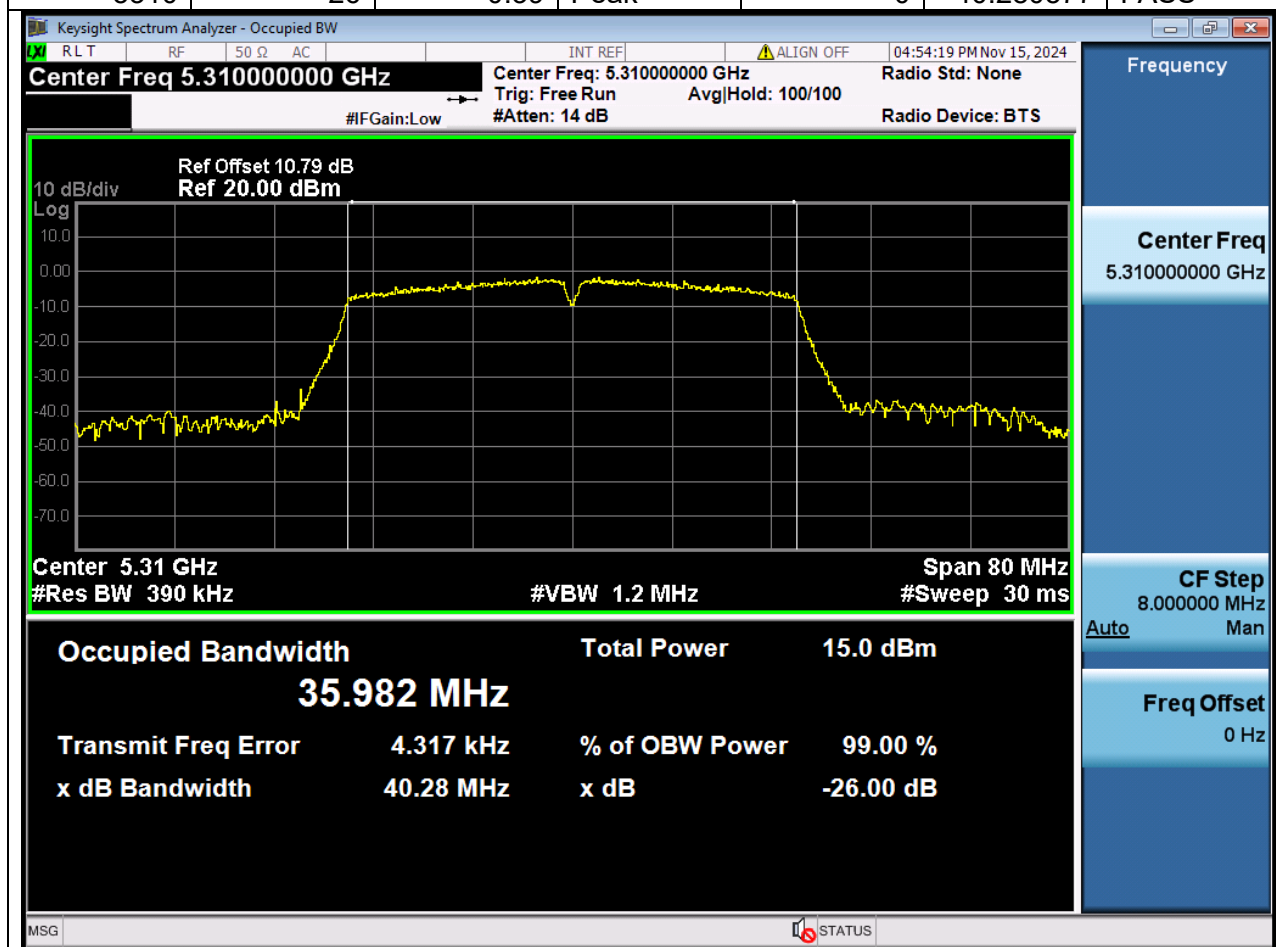
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5270	26	0.39	Peak	0	40.512637	PASS





9.2. A.2-26DB BANDWIDTH(NTNV)

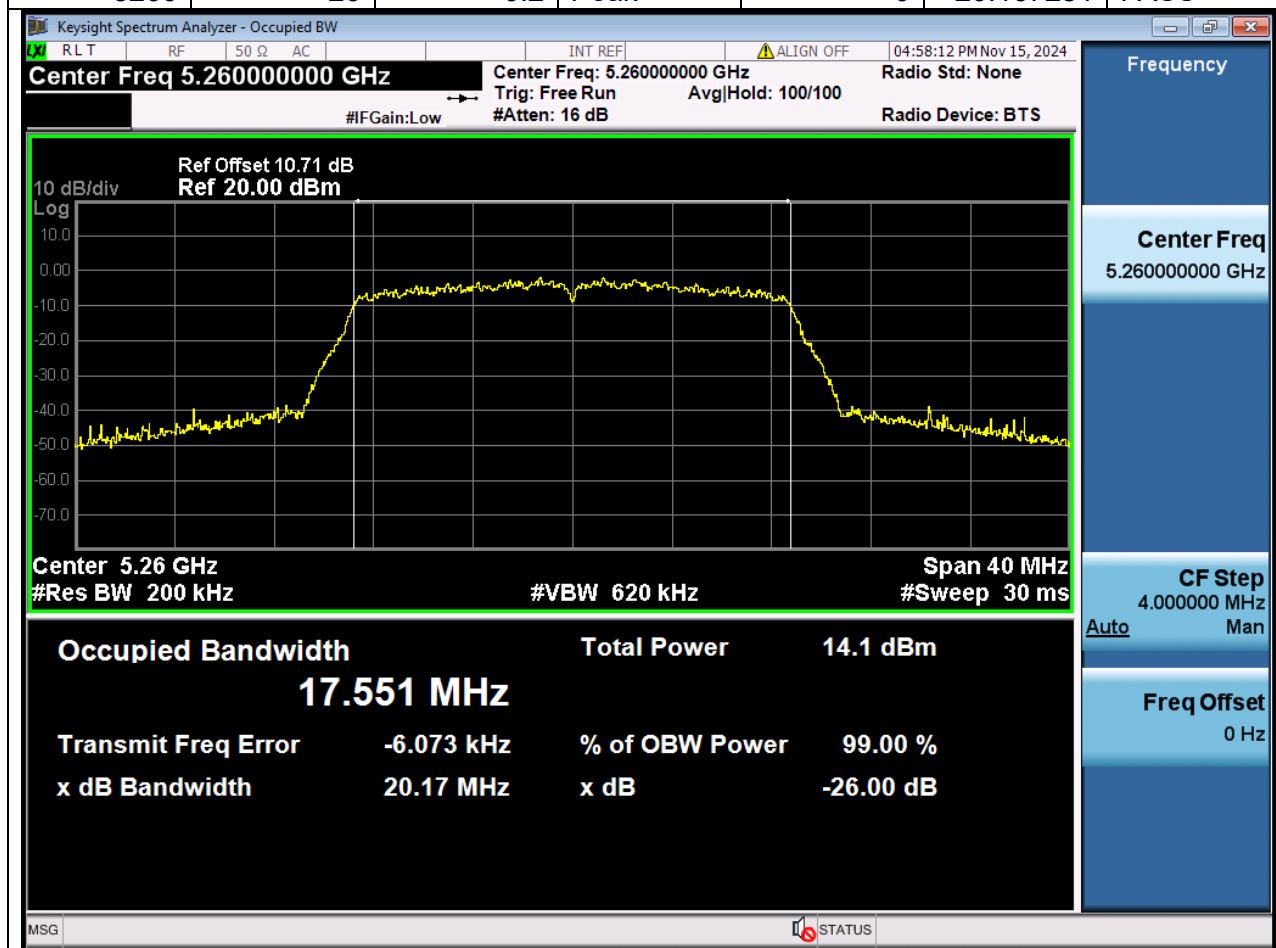
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5310	26	0.39	Peak	0	40.280577	PASS





10. 802.11AC_BAND2_BW20MHZ
10.1. A.2-26DB BANDWIDTH(NTNV)

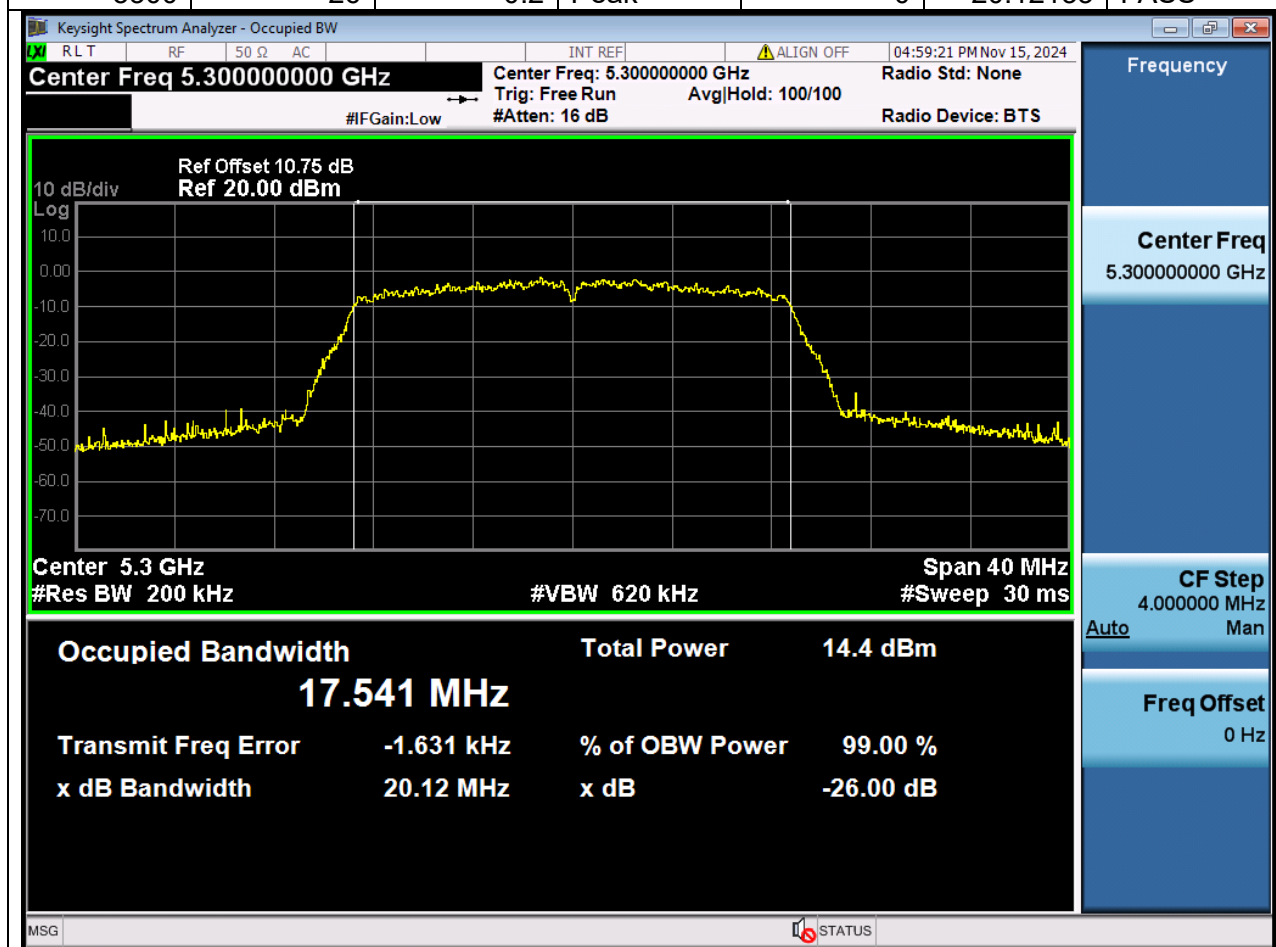
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5260	26	0.2	Peak	0	20.167281	PASS





10.2. A.2-26DB BANDWIDTH(NTNV)

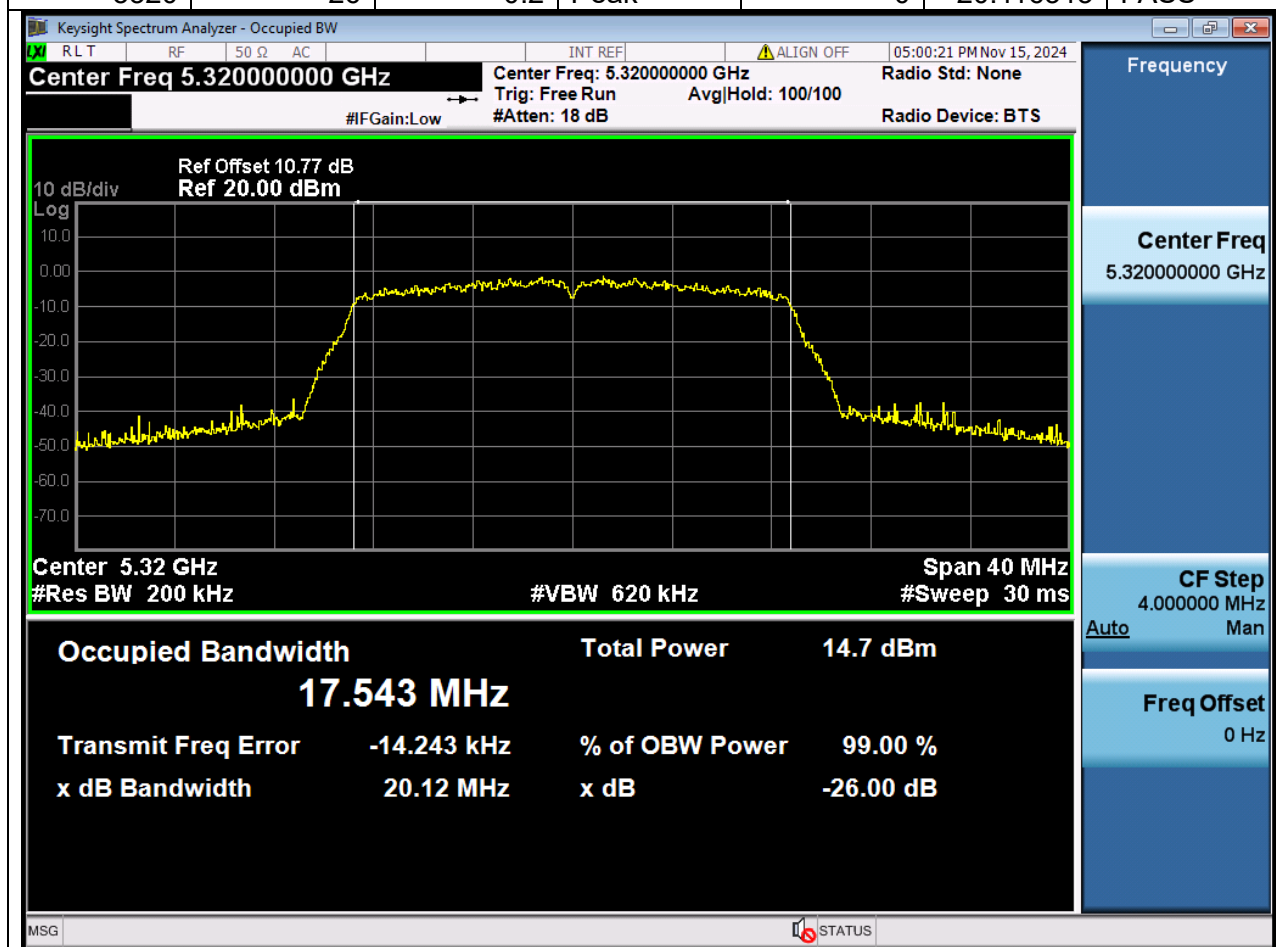
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5300	26	0.2	Peak	0	20.12133	PASS





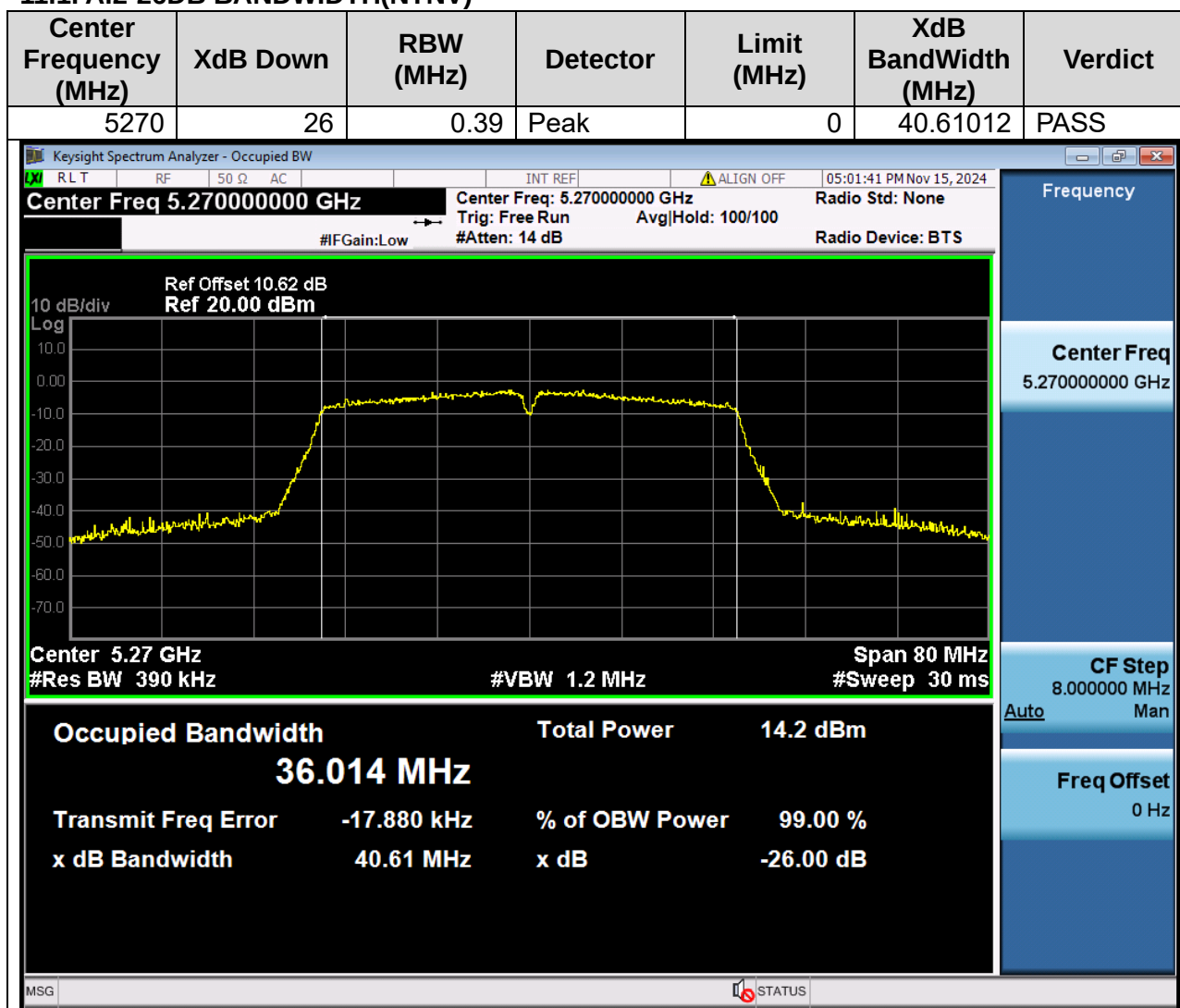
10.3. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5320	26	0.2	Peak	0	20.116313	PASS





11. 802.11AC_BAND2_BW40MHZ 11.1. A.2-26DB BANDWIDTH(NTNV)





11.2. A.2-26DB BANDWIDTH(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5310	26	0.39	Peak	0	40.394218	PASS

