

FCC TEST REPORT

FCC ID:2AH3J-HSI-100

Product : MINI PC

Model Name : HSI-100,HSI-95,HSI-95mini,HSI-100mini,HSI-I3,
HSI-I3mini,HSI-I5,HSI-I5mini,HSI-I7,HSI-I7mini,
DR01,DR02,DR03,DR04,DR05,DR06,DR07,DR08,
DR09,DR10

Brand : N/A

Report No. : NCT24025623E

Prepared for

Shenzhen Hugsun Technology Co., Ltd.

413-415 Room, 4/F, No.6 Bldg., Tongfuyu Industrial Park, Dalang Street, Shenzhen,
China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant : Shenzhen Hugsun Technology Co., Ltd.
Address : 413-415 Room, 4/F, No.6 Bldg., Tongfuyu Industrial Park, Dalang Street, Shenzhen, China
Manufacturer : Shenzhen Hugsun Technology Co., Ltd.
Address : 413-415 Room, 4/F, No.6 Bldg., Tongfuyu Industrial Park, Dalang Street, Shenzhen, China
Product name : MINI PC
Model name : HSI-100, HSI-95, HSI-95mini, HSI-100mini, HSI-I3, HSI-I3mini, HSI-I5, HSI-I5mini, HSI-I7, HSI-I7mini, DR01, DR02, DR03, DR04, DR05, DR06, DR07, DR08, DR09, DR10
Standards : FCC CFR47 Part 15 Section 15.247
ANSI C63.10:2013
Test procedure : KDB 558074 D01 v05r02
KDB 662911 D01 v02r01
Date of test : Jun. 18, 2024- Jun. 26, 2024
Date of Issue : Jun. 26, 2024

This device described above has been tested by NCT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

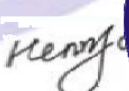
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Test Engineer:



Keven Wu / Engineer

Technical Manager:



Henry Wang / Manager

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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	FCC part 15.207	PASS
Radiated Spurious Emissions	FCC part 15.205/15.209	PASS
Conducted Spurious Emission	FCC part 15.205/15.209	PASS
Band edge	FCC part 15.247(d)	PASS
6dB&99% Bandwidth	FCC part 15.247 (a)(2)	PASS
Maximum Peak Output Power	FCC part 15.247 (b)(3)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Antenna Requirement	FCC part 15.203/15.247 (c)	PASS

Remark:

"N/A" denotes test is not applicable in this Test Report.

3 General Information

3.1 General Description of E.U.T.

Product Name	:	MINI PC
Model Name	:	HSI-100
Sample ID	:	NCT24025623-001#
Sample(s) Status:	:	Engineer sample
Series Model	:	HSI-95,HSI-95mini,HSI-100mini,HSI-I3, HSI-I3mini,HSI-I5,HSI-I5mini,HSI-I7,HSI-I7mini, DR01,DR02,DR03,DR04,DR05,DR06,DR07,DR08, DR09,DR10
Model Different.:	:	All the same except the model number.
Specification	:	802.11b/g/n HT20/n HT40
Operation Frequency	:	2412-2462MHz for 802.11b/g/n20; 2422-2452MHz for 802.11n40;
Number of Channel	:	11 channels for 802.11b/g/n20; 7 channels for 802.11n40;
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	FPCB Antenna
Antenna Gain	:	ANT1: 2.0dBi ANT2: 2.0dBi
Power supply	:	DC 12V/3A From adapter input AC 120V/60Hz
Adapter Information	:	Model:YCT36-120300UF Input:AC100-240V 50/60Hz 0.8A Output: DC 12V 3.0A
Remark : the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.		

3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0; were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 b/g/n (HT20)/n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Test Frequency and Channel for 802.11 b/g/n (HT20/HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452

3.3 Test Site

Site Description

EMC Lab. : Accredited by CNAS, 2022-09-27

The certificate is valid until 2028.01.07

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L8251

Designation Number: CN1347

Test Firm Registration Number: 894804

Accredited by A2LA, June 14, 2023

The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018

The Conformity Assessment Body Identifier is CN0150

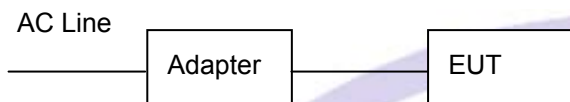
Company Number: 30806

Name of Firm : Shenzhen NCT Testing Technology Co., Ltd.

Site Location : A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China

3.4 Test Setup Configuration

Conducted Emission



Radiated Emission (30MHz-1GHz)



Radiated Emission(above 1GHz)



Conducted Spurious



3.5 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	Xshell
Power level setup	default

4 Equipment During Test

4.1 Equipments List

Conducted emission Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	944 Room	/	EMToni	2022/5/31	2025/5/30
EMI Test Receiver	ESPI	101604	Rohde & Schwarz	2024/6/21	2025/6/20
LISN	ENV 216	102796	Rohde & Schwarz	2024/6/21	2025/6/20
LISN	VN1-13S	004023	CRANAGE	2024/6/21	2025/6/20
Cable	RG223-1500MM	NA	RG	2024/6/21	2025/6/20

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESPI	101604	Rohde & Schwarz	2023/6/21	2024/6/20
LISN	ENV 216	102796	Rohde & Schwarz	2023/6/21	2024/6/20
LISN	VN1-13S	004023	CRANAGE	2023/6/21	2024/6/20
Cable	RG223-1500MM	NA	RG	2023/6/21	2024/6/20

Radiated emission & Radio Frequency Test Equipment

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2022/5/31	2025/5/30
EMI Test Receiver	ESCI	101178	Rohde & Schwarz	2024/6/21	2025/6/20
Amplifier (30MHz-1GHz)	BBV 9743 B	00374	SCHNWARZBECK	2024/6/21	2025/6/20
Bilog Antenna (30MHz-1GHz)	VULB9162	00473	SCHNWARZBECK	2023/3/19	2025/3/18
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHNWARZBECK	2023/3/19	2025/3/18
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHNWARZBECK	2024/6/21	2025/6/20
Spectrum Analyzer (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2024/6/21	2025/6/20

Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHNWARZBECK	2024/6/21	2025/6/20
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2023/3/19	2025/3/18
Loop Antenna (9KHz-30MHz)	FMZB 1513-60	00115	SCHNWARZBECK	2024/6/21	2025/6/20
Amplifier (9KHz-30MHz)	BBV 9745	00109	CHNWARZBECK	2024/6/21	2025/6/20
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2024/6/21	2025/6/20
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2024/6/21	2025/6/20
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2024/6/21	2025/6/20
Power Sensor	TR1029-2	512364	Techoy	2024/6/21	2025/6/20
RF Swith	TR1029-1	512364	Techoy	2024/6/21	2025/6/20
Cable	DA800- 4000MM	NA	DA	2024/6/21	2025/6/20
Cable	DA800- 11000MM	NA	DA	2024/6/21	2025/6/20

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESCI	101178	Rohde & Schwarz	2023/6/21	2024/6/20
Amplifi (30MHz-1GHz)	BBV 9743 B	00374	SCHNWARZBECK	2023/6/21	2024/6/20
Pream plifier (1GHz-18GHz)	BBV 9718D	0024	SCHNWARZBECK	2023/6/21	2024/6/20
Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2023/6/21	2024/6/20
Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHNWARZBECK	2023/6/21	2024/6/20
Loop Antenna (9KHz-30MHz)	FMZB 1513-60	00115	SCHNWARZBECK	2023/6/21	2024/6/20
Amplifier (9KHz-30MHz)	BBV 9745	00109	CHNWARZBECK	2023/6/21	2024/6/20

MXG Signal Analyzer	N9020A	MY50510202	Agilent	2023/6/21	2024/6/20
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2023/6/21	2024/6/20
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2023/6/21	2024/6/20
Power Sensor	TR1029-2	512364	Techoy	2023/6/21	2024/6/20
RF Swith	TR1029-1	512364	Techoy	2023/6/21	2024/6/20
Cable	DA800-4000MM	NA	DA	2023/6/21	2024/6/20
Cable	DA800-11000MM	NA	DA	2023/6/21	2024/6/20

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	AUDIX	e3	6.120718
2	EMC radiation test system	AUDIX	e3	6.120718
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9KHz~30MHz)	±4.51dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Radiated Emission(25GHz~40GHz)	±3.38dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

4.3 Description of Support Units

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	MINI PC	N/A	HSI-100	N/A	EUT
E-2	Adapter	Shenzhen YiChengTai Technology Co., LTD	YCT36-120300UF	N/A	EUT

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

5 Conducted Emission

Test Requirement: : FCC CFR 47 Part 15 Section 15.207
Test Method : ANSI C63.10: 2013
Test Result : PASS
Frequency Range : 150kHz to 30MHz
Class/Severity : Class B

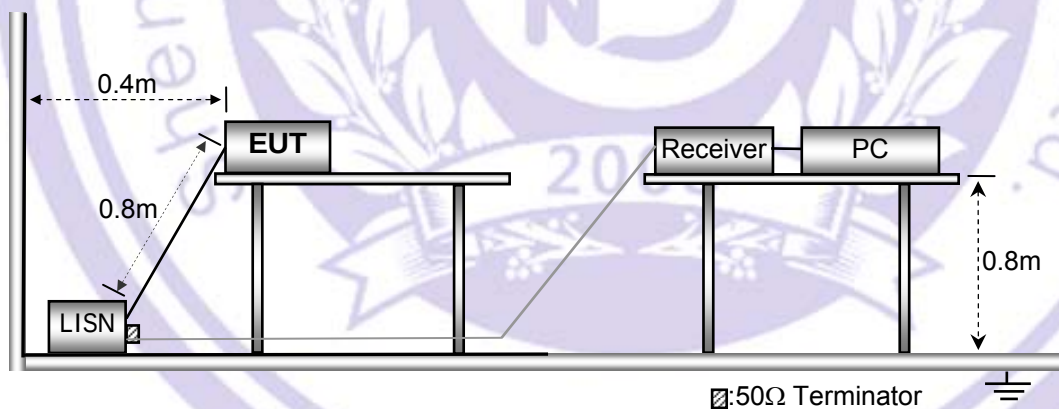
5.1 E.U.T. Operation

Operating Environment :

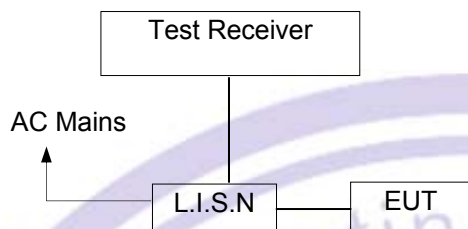
Temperature : 24.5 °C
Humidity : 51.3 % RH
Atmospheric Pressure : 101.11kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

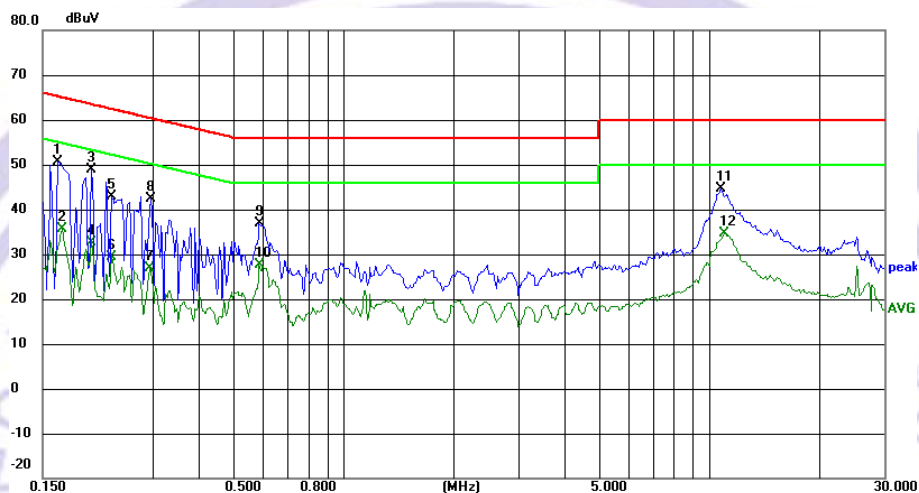
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.7 Conducted Emission Test Result

Pass.

Please refer to the following pages.

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



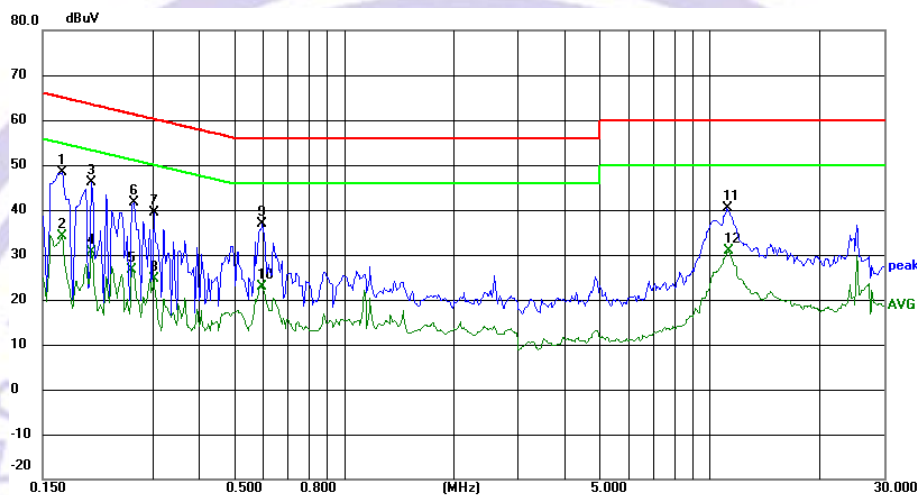
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1655	40.90	9.77	50.67	65.18	-14.51	peak	P
2	0.1695	25.96	9.77	35.73	54.98	-19.25	AVG	P
3	0.2046	39.11	9.75	48.86	63.42	-14.56	peak	P
4	0.2046	22.79	9.75	32.54	53.42	-20.88	AVG	P
5	0.2318	33.08	9.75	42.83	62.38	-19.55	peak	P
6	0.2318	19.52	9.75	29.27	52.38	-23.11	AVG	P
7	0.2943	17.15	9.76	26.91	50.40	-23.49	AVG	P
8	0.2982	32.58	9.76	42.34	60.29	-17.95	peak	P
9	0.5867	27.05	9.77	36.82	56.00	-19.18	peak	P
10	0.5867	17.80	9.77	27.57	46.00	-18.43	AVG	P
11	10.7415	34.43	10.19	44.62	60.00	-15.38	peak	P
12	10.9794	24.52	10.20	34.72	50.00	-15.28	AVG	P

Notes: 1.An initial pre-scan was performed on the line and neutral lines with peak detector.

2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3.Measurement Level = Reading level + Correct Factor

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.1695	38.54	9.77	48.31	64.98	-16.67	peak	P
2	0.1695	24.26	9.77	34.03	54.98	-20.95	AVG	P
3	0.2046	36.33	9.75	46.08	63.42	-17.34	peak	P
4	0.2046	20.80	9.75	30.55	53.42	-22.87	AVG	P
5	0.2631	16.91	9.75	26.66	51.33	-24.67	AVG	P
6	0.2670	31.87	9.75	41.62	61.21	-19.59	peak	P
7	0.3020	29.58	9.76	39.34	60.19	-20.85	peak	P
8	0.3020	14.99	9.76	24.75	50.19	-25.44	AVG	P
9	0.5985	27.09	9.77	36.86	56.00	-19.14	peak	P
10	0.5985	13.21	9.77	22.98	46.00	-23.02	AVG	P
11	11.1587	30.19	10.21	40.40	60.00	-19.60	peak	P
12	11.2600	20.66	10.22	30.88	50.00	-19.12	AVG	P

Notes: 1.An initial pre-scan was performed on the line and neutral lines with peak detector.

2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3.Measurement Level = Reading level + Correct Factor

6 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method : ANSI C63.10:2013
Test Result : PASS
Measurement Distance : 3m
Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

6.1 EUT Operation

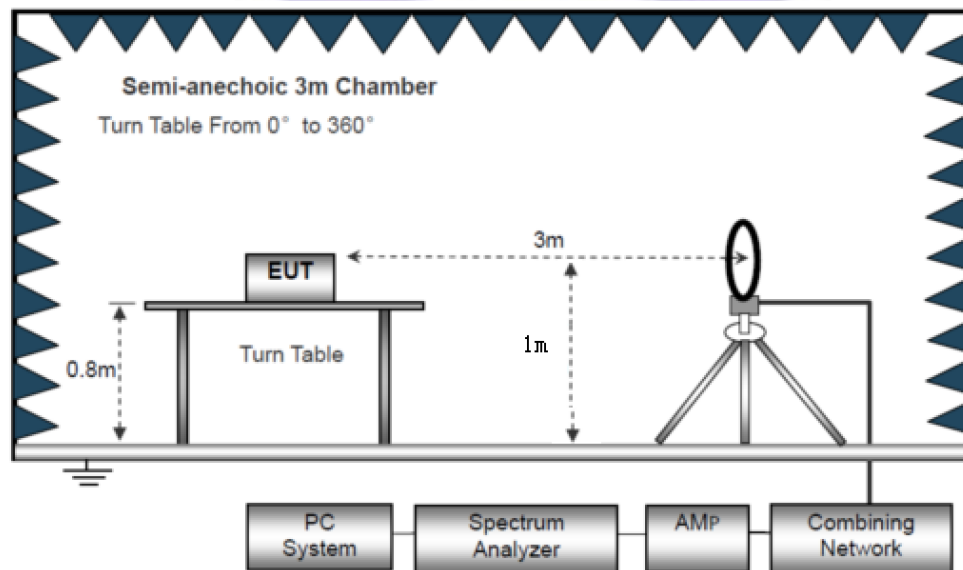
Operating Environment :

Temperature: : 24.5°C
Humidity: : 52 % RH
Atmospheric Pressure: : 101.11kPa
Test Voltage : DC 12V

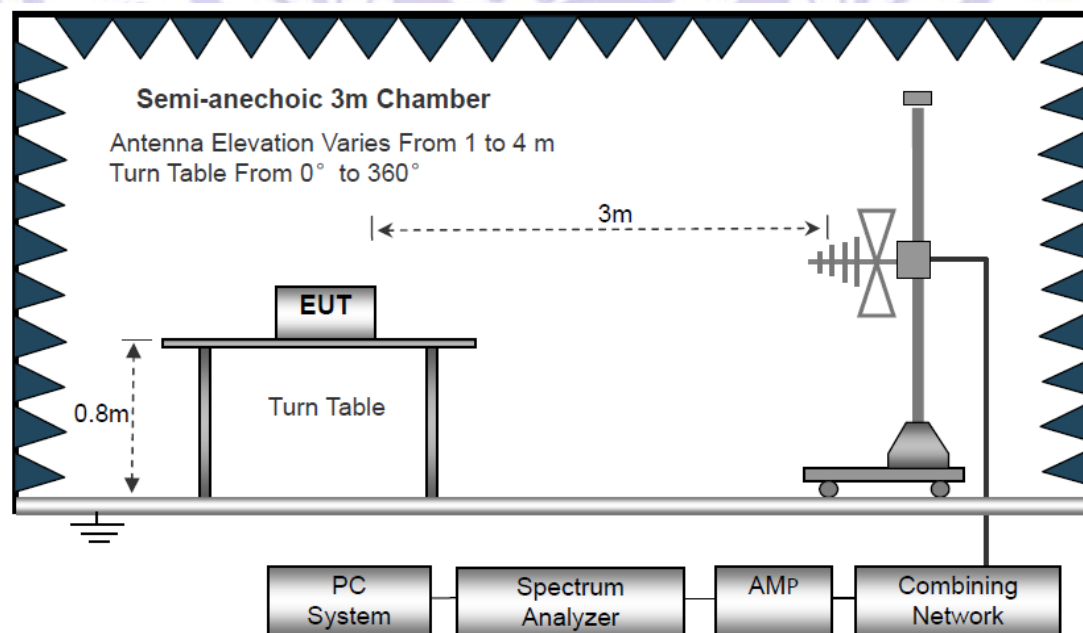
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

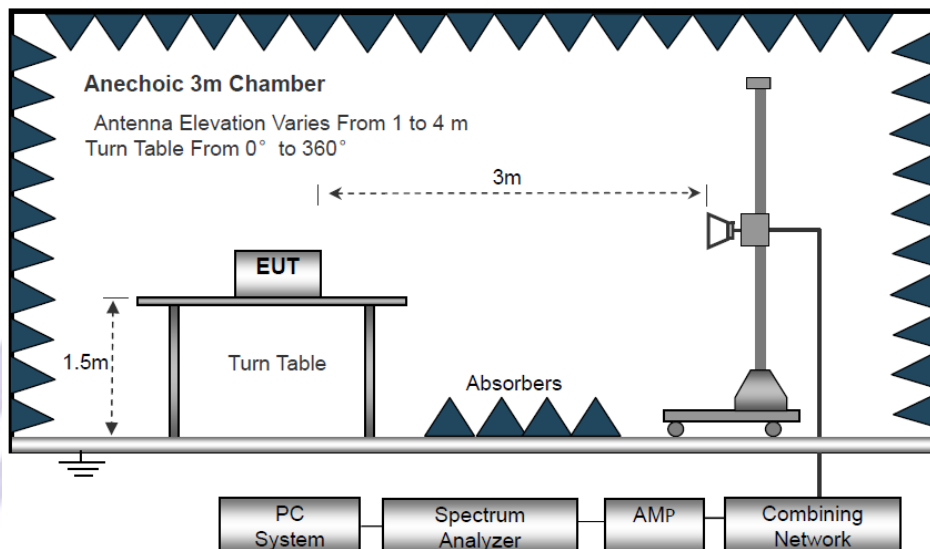
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Below 30MHz			
IF Bandwidth	:	10kHz	
Resolution Bandwidth	:	10kHz	
Video Bandwidth	:	10kHz	
30MHz ~ 1GHz			
Detector	:	PK	QP
Resolution Bandwidth	:	100kHz	120kHz
Video Bandwidth	:	300kHz	300kHz
Above 1GHz			
Detector	:	PK	AV
Resolution Bandwidth	:	1MHz	1MHz
Video Bandwidth	:	3MHz	10Hz

6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	>20

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

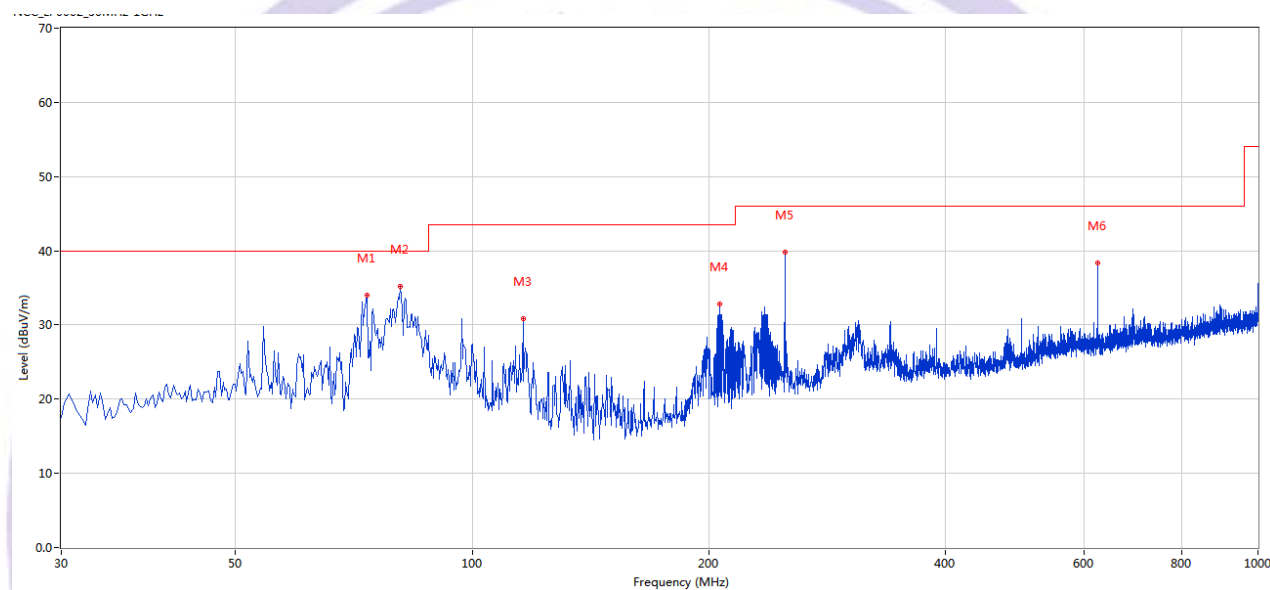
Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);
Limit line = Specific limits (dBuV) + distance extrapolation factor.

Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (TX 802.11n20 Low Channel) are recorded in the following pages and the others modulation methods do not exceed the limits.

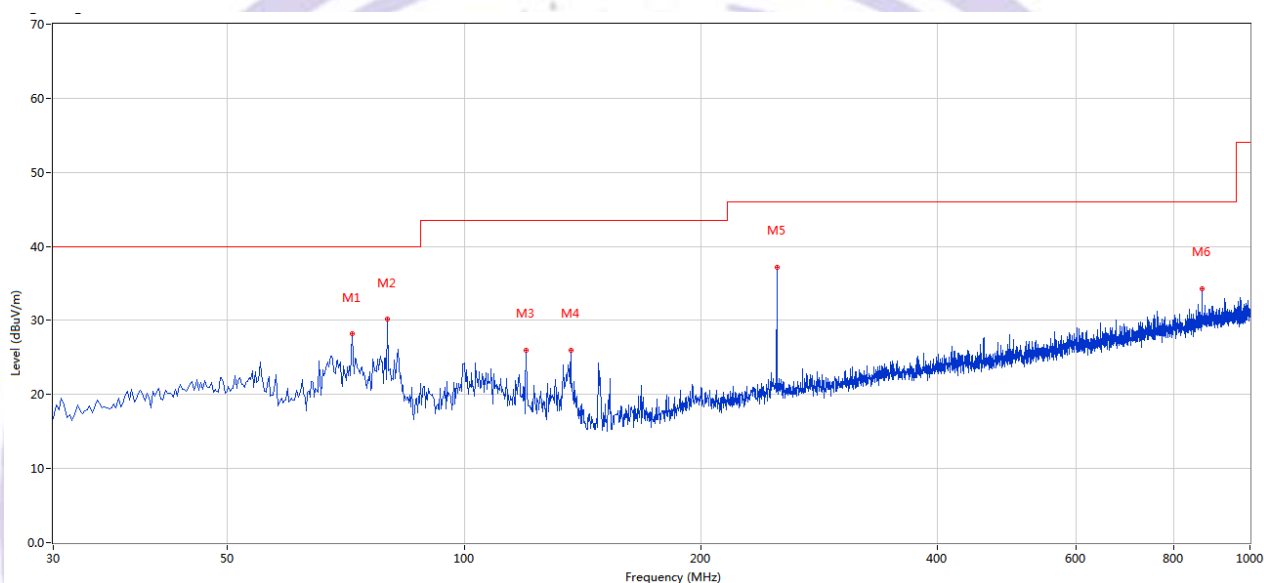
Please refer to the following test plots:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V from Adapter input AC 120V/60Hz	Mode:	802.11n20-MIMO



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna	Verdict
1	73.397	34.02	-16.96	40.0	5.98	Peak	Horizontal	Pass
2	80.912	35.18	-17.30	40.0	4.82	Peak	Horizontal	Pass
3	116.066	30.87	-14.63	43.5	12.63	Peak	Horizontal	Pass
4	206.496	32.88	-13.65	43.5	10.62	Peak	Horizontal	Pass
5	249.893	39.77	-12.08	46.0	6.23	Peak	Horizontal	Pass
6	624.946	38.32	-4.85	46.0	7.68	Peak	Horizontal	Pass

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V from Adapter input AC 120V/60Hz	Mode:	802.11n20-MIMO



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna	Verdict
1	71.942	28.26	-16.53	40.0	11.74	Peak	Vertical	Pass
2	79.943	30.12	-17.44	40.0	9.88	Peak	Vertical	Pass
3	119.945	25.96	-15.32	43.5	17.54	Peak	Vertical	Pass
4	136.673	25.96	-17.17	43.5	17.54	Peak	Vertical	Pass
5	249.893	37.23	-12.08	46.0	8.77	Peak	Vertical	Pass
6	869.325	34.31	-2.06	46.0	11.69	Peak	Vertical	Pass

Remark: Emission Level = Reading + Cable Loss + ANT Factor

Test Frequency: From 1GHz to 25GHz

Mode: 802.11n20-MIMO

Polar	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz									
V	4824.00	53.85	34.12	5.03	32.39	57.15	74.00	-16.85	PK
V	4824.00	41.62	34.12	5.03	32.39	44.92	54.00	-9.08	AV
V	7236.00	50.66	32.54	6.29	35.86	60.27	74.00	-13.73	PK
V	7236.00	36.51	32.54	6.29	35.86	46.12	54.00	-7.88	AV
V	9648.00	44.14	32.98	7.55	38.4	57.11	74.00	-16.89	PK
V	9648.00	33.32	32.98	7.55	38.4	46.29	54.00	-7.71	AV
V	12060.00	42.65	32.09	8.93	39	58.49	74.00	-15.51	PK
V	12060.00	31.33	32.09	8.93	39	47.17	54.00	-6.83	AV
H	4824.00	52.25	34.12	5.03	32.39	55.55	74.00	-18.45	PK
H	4824.00	38.59	34.12	5.03	32.39	41.89	54.00	-12.11	AV
H	7236.00	47.78	32.54	6.29	35.86	57.39	74.00	-16.61	PK
H	7236.00	35.44	32.54	6.29	35.86	45.05	54.00	-8.95	AV
H	9648.00	46.70	32.98	7.55	38.4	59.67	74.00	-14.33	PK
H	9648.00	31.63	32.98	7.55	38.4	44.6	54.00	-9.4	AV
H	12060.00	42.71	32.09	8.93	39	58.55	74.00	-15.45	PK
H	12060.00	28.91	32.09	8.93	39	44.75	54.00	-9.25	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
Middle Channel:2437MHz									
V	4874.00	54.91	34.07	5.09	32.59	58.52	74.00	-15.48	PK
V	4874.00	41.02	34.07	5.09	32.59	44.63	54.00	-9.37	AV
V	7311.00	51.63	32.63	6.34	35.96	61.3	74.00	-12.7	PK
V	7311.00	36.59	32.63	6.34	35.96	46.26	54.00	-7.74	AV
V	9748.00	44.84	32.92	7.59	38.4	57.91	74.00	-16.09	PK
V	9748.00	33.67	32.92	7.59	38.4	46.74	54.00	-7.26	AV
V	12185.00	43.30	31.96	8.88	39.04	59.26	74.00	-14.74	PK
V	12185.00	31.42	31.96	8.88	39.04	47.38	54.00	-6.62	AV
H	4874.00	52.16	34.07	5.09	32.59	55.77	74.00	-18.23	PK
H	4874.00	38.09	34.07	5.09	32.59	41.7	54.00	-12.3	AV
H	7311.00	46.41	32.63	6.34	35.96	56.08	74.00	-17.92	PK
H	7311.00	35.26	32.63	6.34	35.96	44.93	54.00	-9.07	AV
H	9748.00	46.35	32.92	7.59	38.4	59.42	74.00	-14.58	PK
H	9748.00	31.22	32.92	7.59	38.4	44.29	54.00	-9.71	AV
H	12185.00	42.58	31.96	8.88	39.04	58.54	74.00	-15.46	PK
H	12185.00	29.03	31.96	8.88	39.04	44.99	54.00	-9.01	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
High Channel:2462MHz									
V	4924.00	47.14	34.02	5.15	32.8	51.07	74.00	-22.93	PK
V	4924.00	39.24	34.02	5.15	32.8	43.17	54.00	-10.83	AV
V	7386.00	42.75	32.71	6.4	36.05	52.49	74.00	-21.51	PK
V	7386.00	34.41	32.71	6.4	36.05	44.15	54.00	-9.85	AV
V	9848.00	42.51	32.86	7.62	38.4	55.67	74.00	-18.33	PK
V	9848.00	30.74	32.86	7.62	38.4	43.9	54.00	-10.1	AV
V	12310.00	40.04	31.82	8.84	39.08	56.14	74.00	-17.86	PK
V	12310.00	30.35	31.82	8.84	39.08	46.45	54.00	-7.55	AV
H	4924.00	49.70	34.02	5.15	32.8	53.63	74.00	-20.37	PK
H	4924.00	37.45	34.02	5.15	32.8	41.38	54.00	-12.62	AV
H	7386.00	46.91	32.71	6.4	36.05	56.65	74.00	-17.35	PK
H	7386.00	33.64	32.71	6.4	36.05	43.38	54.00	-10.62	AV
H	9848.00	42.73	32.86	7.62	38.4	55.89	74.00	-18.11	PK
H	9848.00	31.16	32.86	7.62	38.4	44.32	54.00	-9.68	AV
H	12310.00	40.66	31.82	8.84	39.08	56.76	74.00	-17.24	PK
H	12310.00	28.10	31.82	8.84	39.08	44.2	54.00	-9.8	AV

Note:

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.
4. We test all the mode and recorded the worst mode (802.11n20-MIMO) in the report.

Radiated Band Emission Measurement:

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Detector Type	Result
802.11b-Ant 2	Low Channel 2412MHz									
	H	2390.00	59.06	35.17	3.48	27.49	54.86	74.00	PK	PASS
	H	2390.00	51.77	35.17	3.48	27.49	47.57	54.00	AV	PASS
	H	2400.00	62.56	35.16	3.49	27.52	58.41	74.00	PK	PASS
	H	2400.00	51.90	35.16	3.49	27.52	47.75	54.00	AV	PASS
	V	2390.00	59.35	35.17	3.48	27.49	55.15	74.00	PK	PASS
	V	2390.00	52.93	35.17	3.48	27.49	48.73	54.00	AV	PASS
	V	2400.00	62.43	35.16	3.49	27.52	58.28	74.00	PK	PASS
	V	2400.00	51.07	35.16	3.49	27.52	46.92	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	59.35	35.11	3.56	27.75	55.55	74.00	PK	PASS
	H	2483.50	50.43	35.11	3.56	27.75	46.63	54.00	AV	PASS
	H	2500.00	61.38	35.1	3.57	27.8	57.65	74.00	PK	PASS
	H	2500.00	51.37	35.1	3.57	27.8	47.64	54.00	AV	PASS
	V	2483.50	60.12	35.11	3.56	27.75	56.32	74.00	PK	PASS
	V	2483.50	52.39	35.11	3.56	27.75	48.59	54.00	AV	PASS
	V	2500.00	59.13	35.1	3.57	27.8	55.4	74.00	PK	PASS
	V	2500.00	52.16	35.1	3.57	27.8	48.43	54.00	AV	PASS
802.11g-Ant 2	Low Channel 2412MHz									
	H	2390.00	57.92	35.17	3.48	27.49	53.72	74.00	PK	PASS
	H	2390.00	51.01	35.17	3.48	27.49	46.81	54.00	AV	PASS
	H	2400.00	59.82	35.16	3.49	27.52	55.67	74.00	PK	PASS
	H	2400.00	50.03	35.16	3.49	27.52	45.88	54.00	AV	PASS

802.11 n20- MIMO	V	2390.00	57.82	35.17	3.48	27.49	53.62	74.00	PK	PASS
	V	2390.00	49.29	35.17	3.48	27.49	45.09	54.00	AV	PASS
	V	2400.00	59.28	35.16	3.49	27.52	55.13	74.00	PK	PASS
	V	2400.00	50.33	35.16	3.49	27.52	46.18	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	59.97	35.11	3.56	27.75	56.17	74.00	PK	PASS
	H	2483.50	51.47	35.11	3.56	27.75	47.67	54.00	AV	PASS
	H	2500.00	63.06	35.1	3.57	27.8	59.33	74.00	PK	PASS
	H	2500.00	52.82	35.1	3.57	27.8	49.09	54.00	AV	PASS
	V	2483.50	60.88	35.11	3.56	27.75	57.08	74.00	PK	PASS
	V	2483.50	52.33	35.11	3.56	27.75	48.53	54.00	AV	PASS
	V	2500.00	60.89	35.1	3.57	27.8	57.16	74.00	PK	PASS
	V	2500.00	52.16	35.1	3.57	27.8	48.43	54.00	AV	PASS
	Low Channel 2412MHz									
	H	2390.00	59.15	35.17	3.48	27.49	54.95	74.00	PK	PASS
	H	2390.00	51.58	35.17	3.48	27.49	47.38	54.00	AV	PASS
	H	2400.00	60.39	35.16	3.49	27.52	56.24	74.00	PK	PASS
	H	2400.00	51.53	35.16	3.49	27.52	47.38	54.00	AV	PASS
	V	2390.00	60.19	35.17	3.48	27.49	55.99	74.00	PK	PASS
	V	2390.00	53.05	35.17	3.48	27.49	48.85	54.00	AV	PASS
	V	2400.00	60.13	35.16	3.49	27.52	55.98	74.00	PK	PASS
	V	2400.00	51.39	35.16	3.49	27.52	47.24	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	59.13	35.11	3.56	27.75	55.33	74.00	PK	PASS
	H	2483.50	49.20	35.11	3.56	27.75	45.4	54.00	AV	PASS
	H	2500.00	60.75	35.1	3.57	27.8	57.02	74.00	PK	PASS

	H	2500.00	50.41	35.1	3.57	27.8	46.68	54.00	AV	PASS
	V	2483.50	59.15	35.11	3.56	27.75	55.35	74.00	PK	PASS
	V	2483.50	51.44	35.11	3.56	27.75	47.64	54.00	AV	PASS
	V	2500.00	60.67	35.1	3.57	27.8	56.94	74.00	PK	PASS
	V	2500.00	51.78	35.1	3.57	27.8	48.05	54.00	AV	PASS
802.11 n40- MIMO	Low Channel 2422MHz									
	H	2390.00	59.30	35.17	3.48	27.49	55.1	74.00	PK	PASS
	H	2390.00	51.28	35.17	3.48	27.49	47.08	54.00	AV	PASS
	H	2400.00	62.05	35.16	3.49	27.52	57.9	74.00	PK	PASS
	H	2400.00	51.61	35.16	3.49	27.52	47.46	54.00	AV	PASS
	V	2390.00	59.26	35.17	3.48	27.49	55.06	74.00	PK	PASS
	V	2390.00	53.01	35.17	3.48	27.49	48.81	54.00	AV	PASS
	V	2400.00	61.88	35.16	3.49	27.52	57.73	74.00	PK	PASS
	V	2400.00	52.16	35.16	3.49	27.52	48.01	54.00	AV	PASS
	High Channel 2452MHz									
	H	2483.50	59.85	35.11	3.56	27.75	56.05	74.00	PK	PASS
	H	2483.50	51.21	35.11	3.56	27.75	47.41	54.00	AV	PASS
	H	2500.00	60.86	35.1	3.57	27.8	57.13	74.00	PK	PASS
	H	2500.00	50.68	35.1	3.57	27.8	46.95	54.00	AV	PASS
	V	2483.50	60.16	35.11	3.56	27.75	56.36	74.00	PK	PASS
	V	2483.50	51.97	35.11	3.56	27.75	48.17	54.00	AV	PASS
	V	2500.00	58.95	35.1	3.57	27.8	55.22	74.00	PK	PASS
	V	2500.00	51.99	35.1	3.57	27.8	48.26	54.00	AV	PASS
Remark:										
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit										
2. We test all the mode and recorded the worst mode in the report.										

7 Conduct Band Edge And Spurious Emissions Measurement

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10:2013
Test Limit	:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). RSS-247 § 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

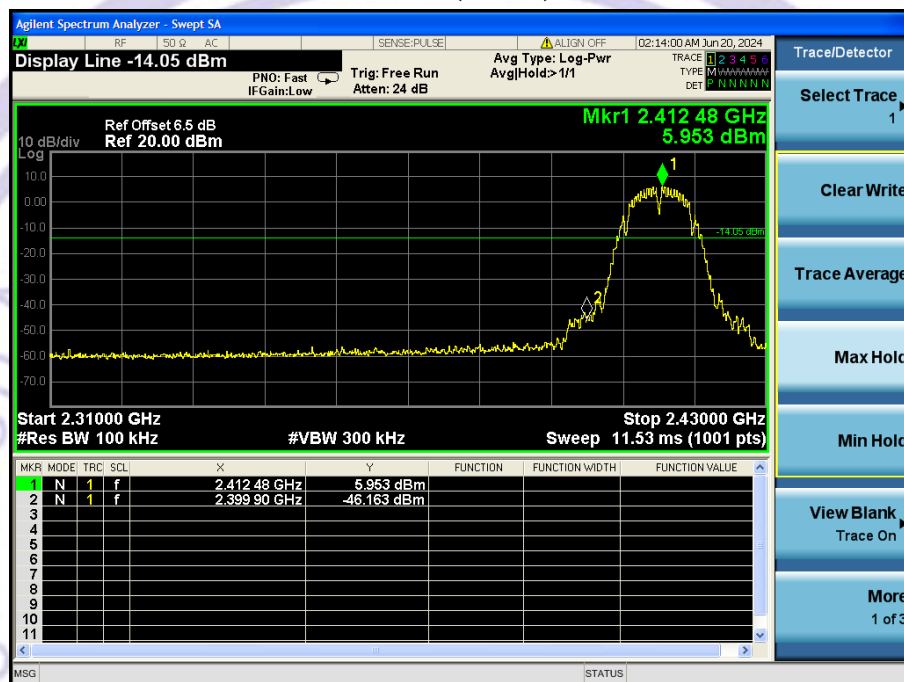
7.2 Test Result

ANT 1(2) Represent the value of antenna 1 and 2, The worst data is 2 Antenna a ,only shown

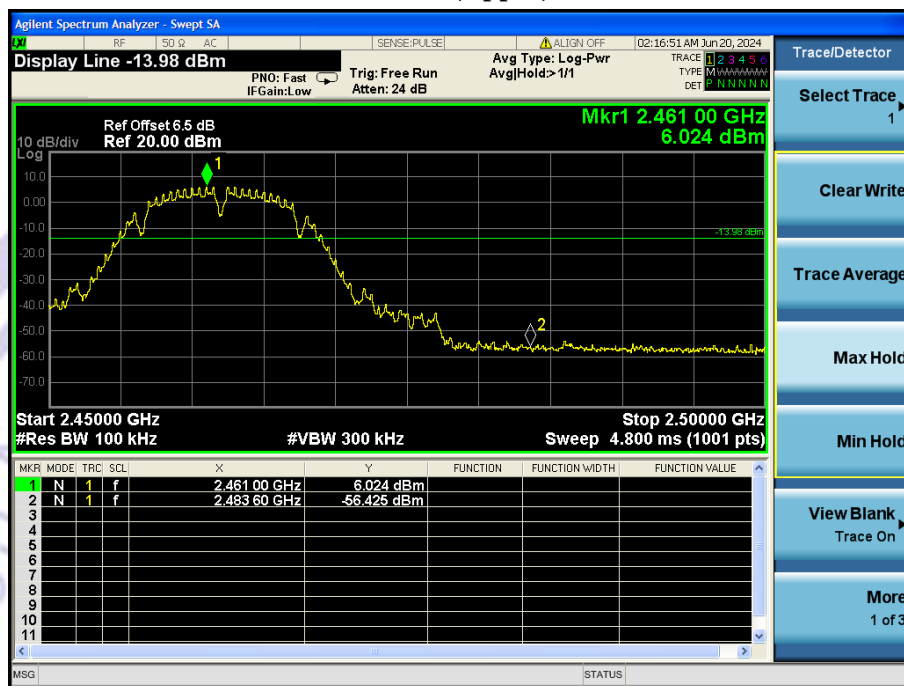
Antenna 2 Plot.

802.11b

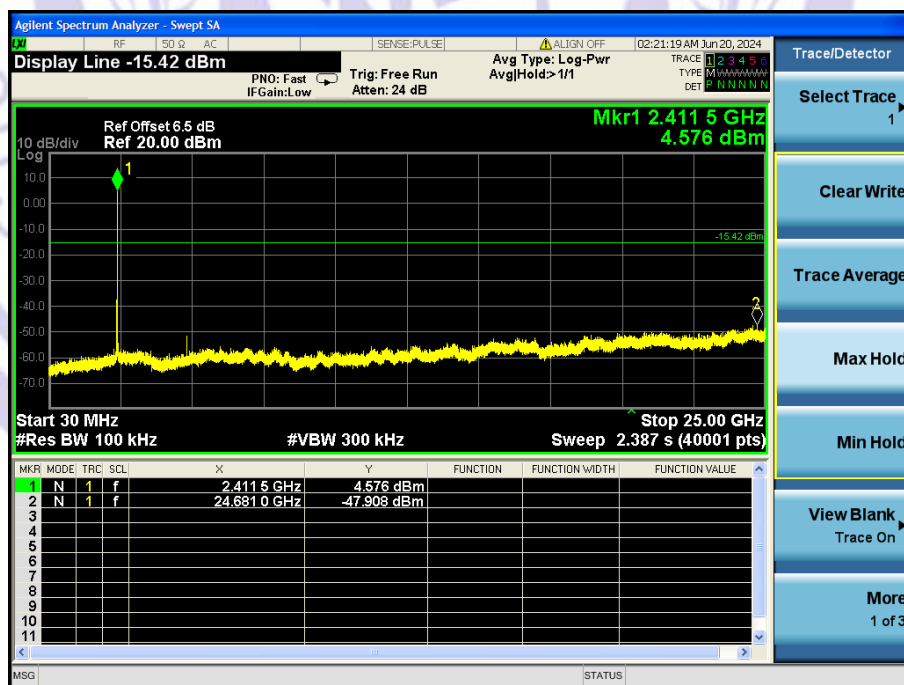
CH01 (Lower)



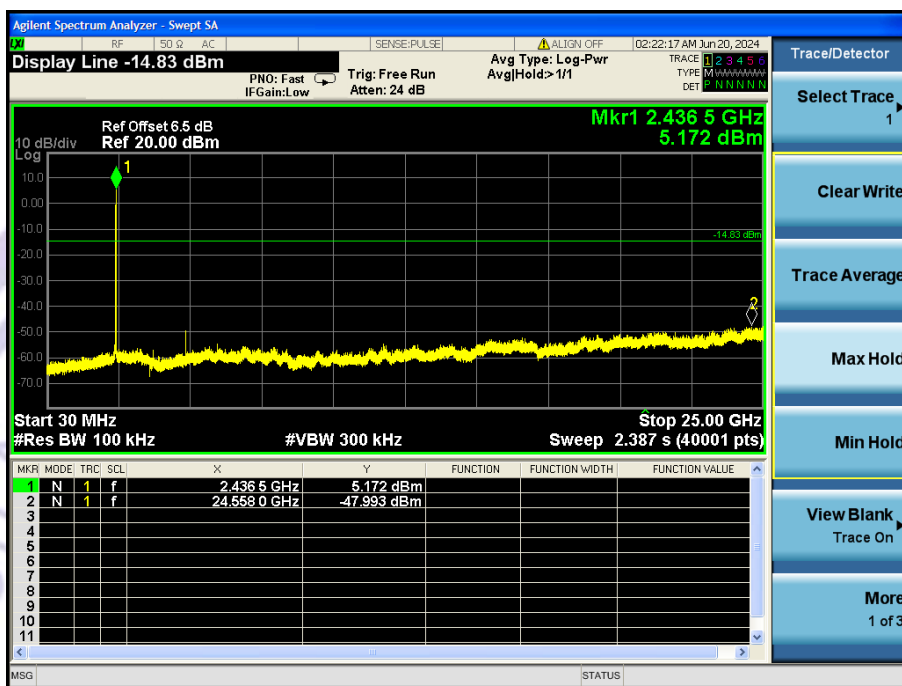
CH 11(Upper)



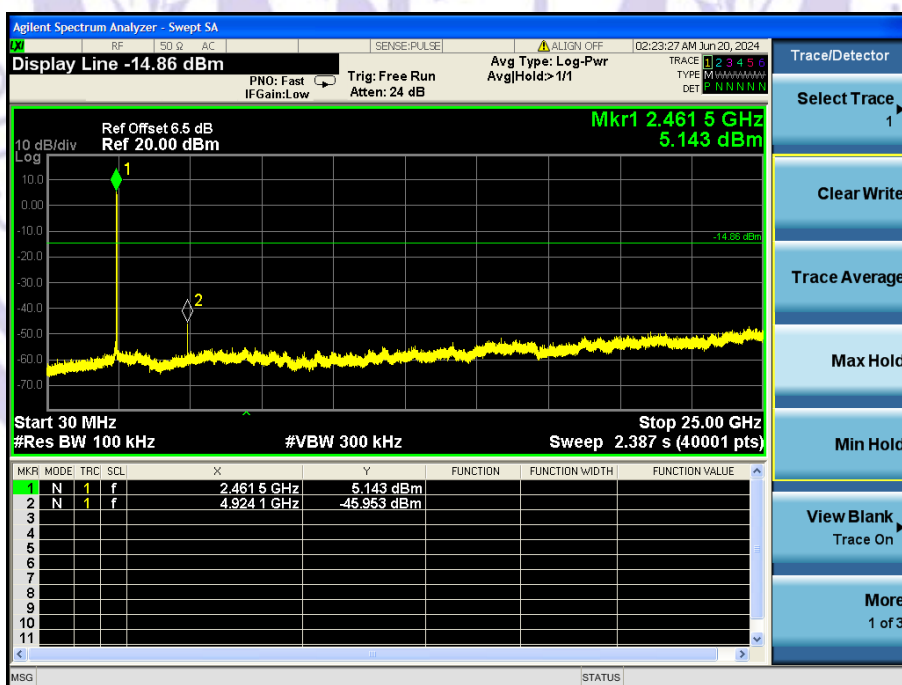
CH01



CH06

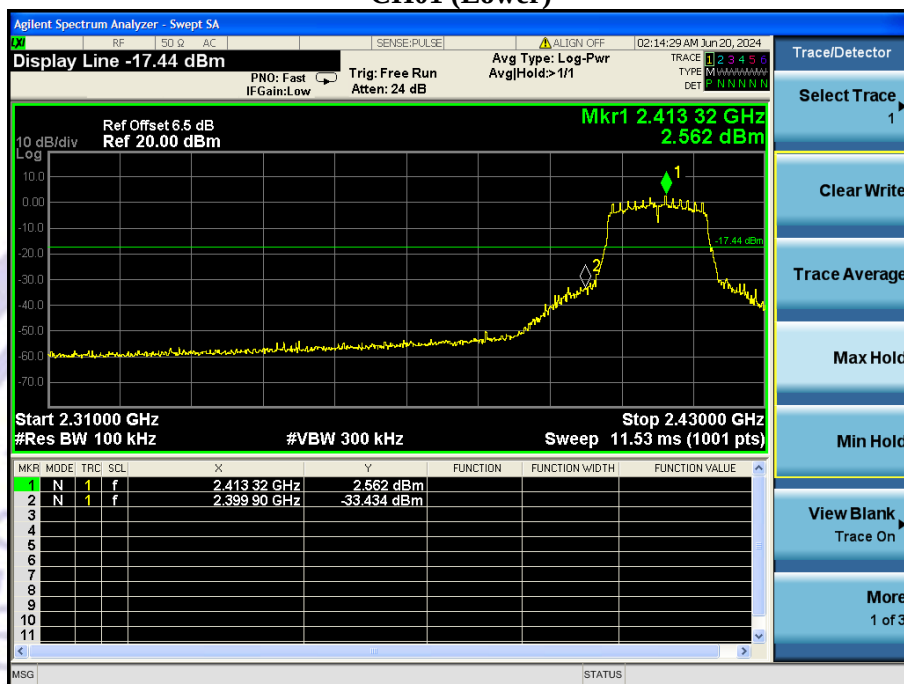


CH11



802.11g

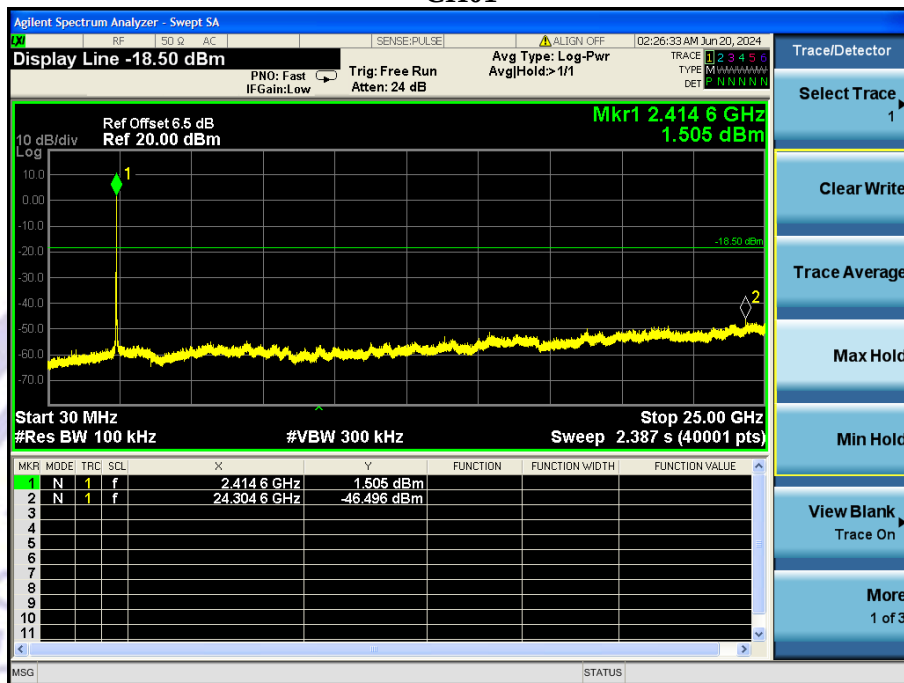
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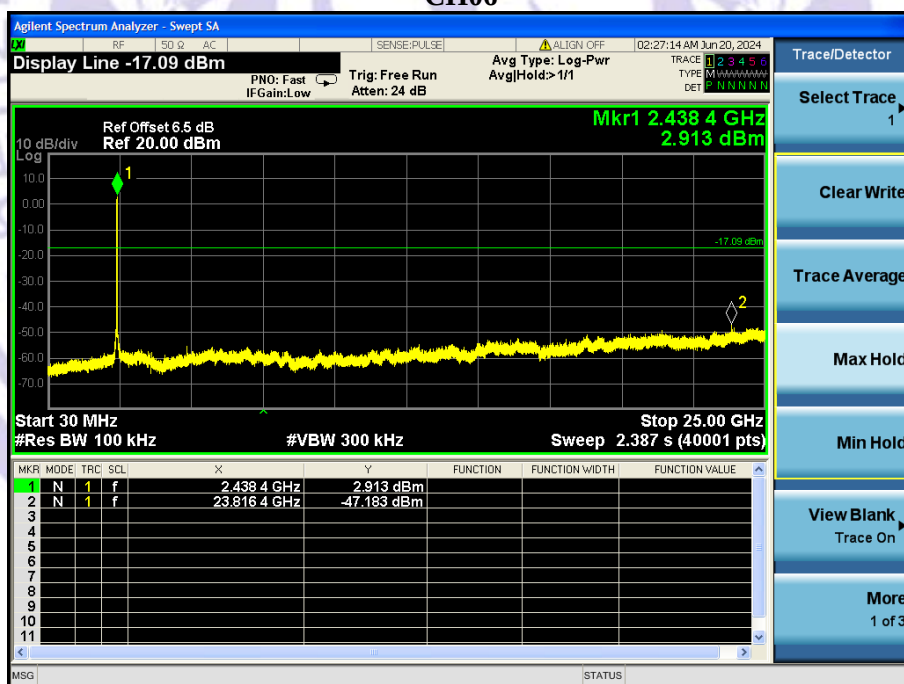
CH 11(Upper)



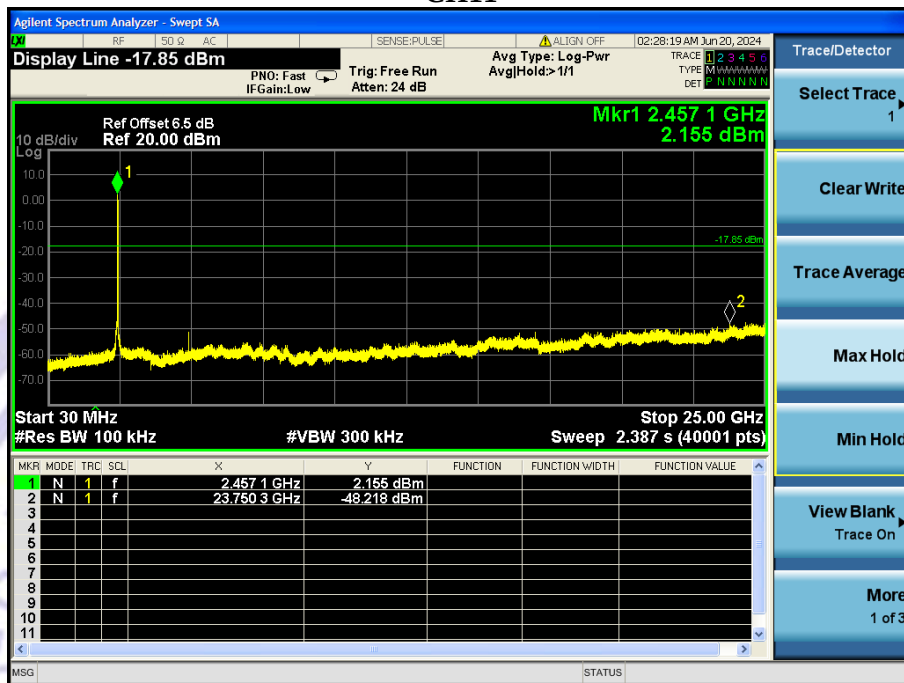
CH01



CH06

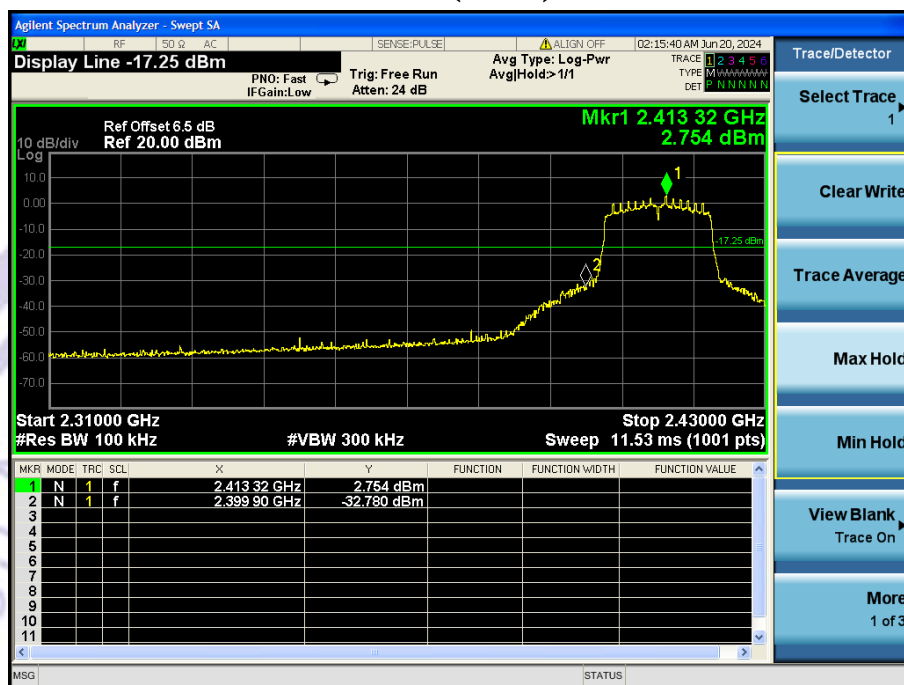


CH11



802.11n20

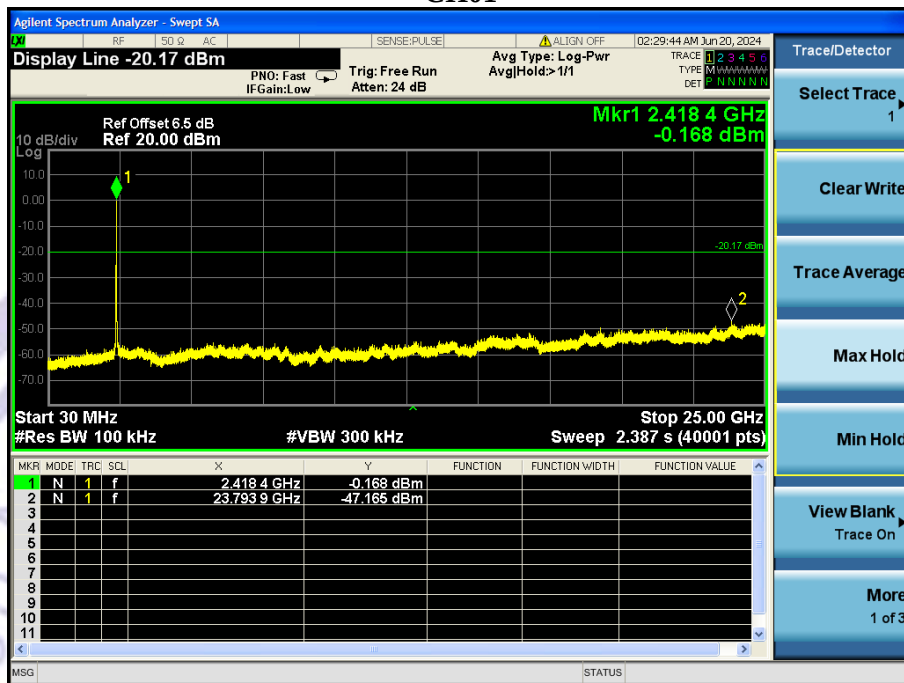
CH01 (Lower)



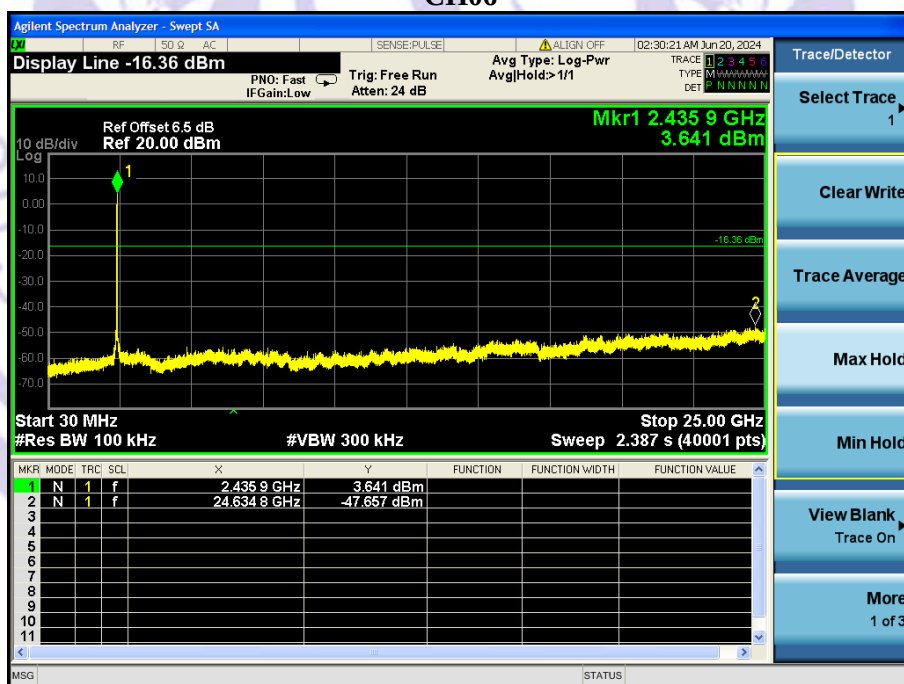
CH 11(Upper)



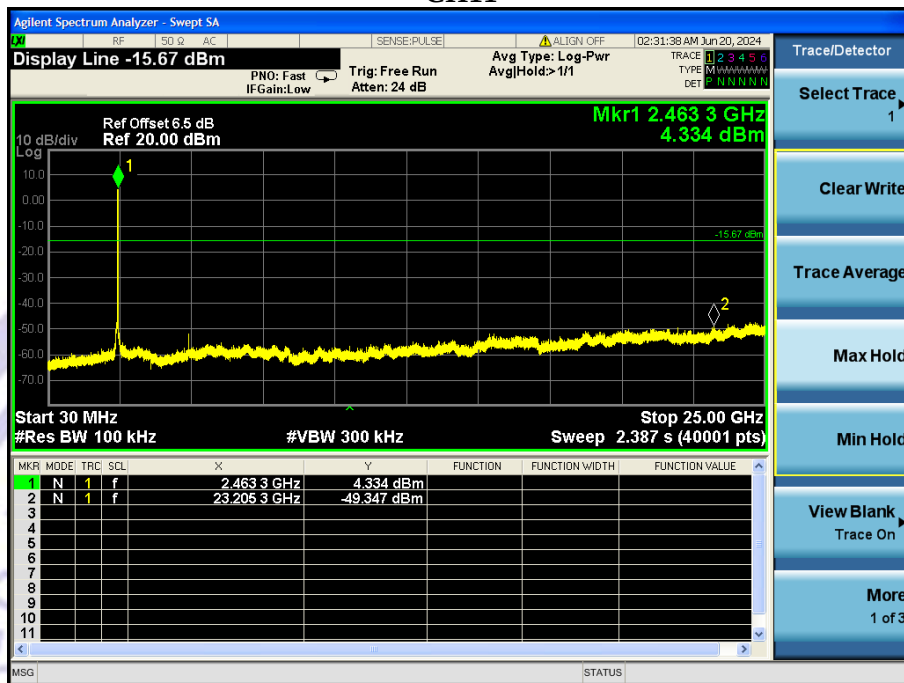
CH01



CH06

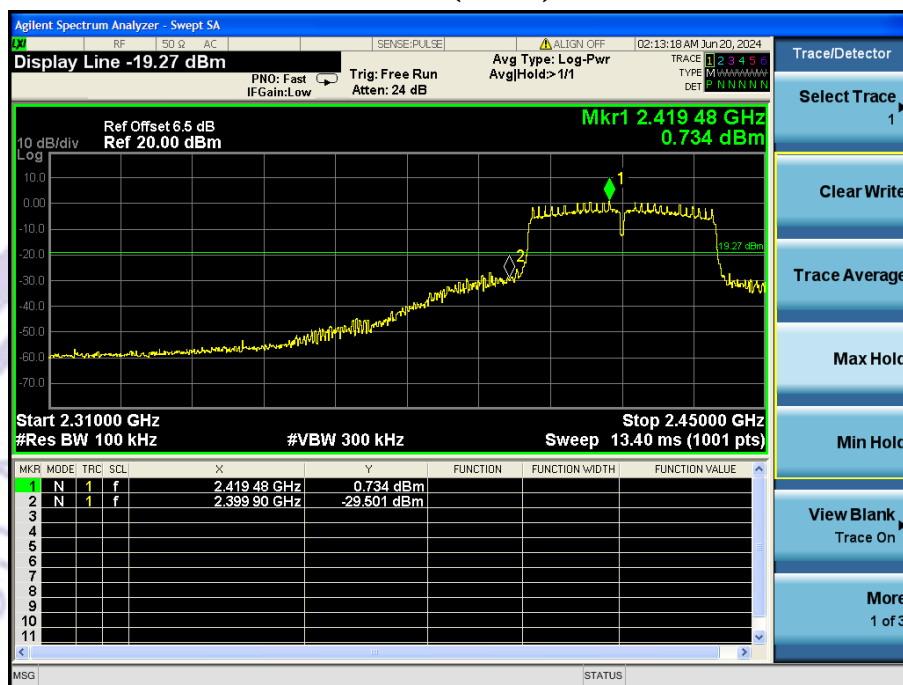


CH11



802.11n40

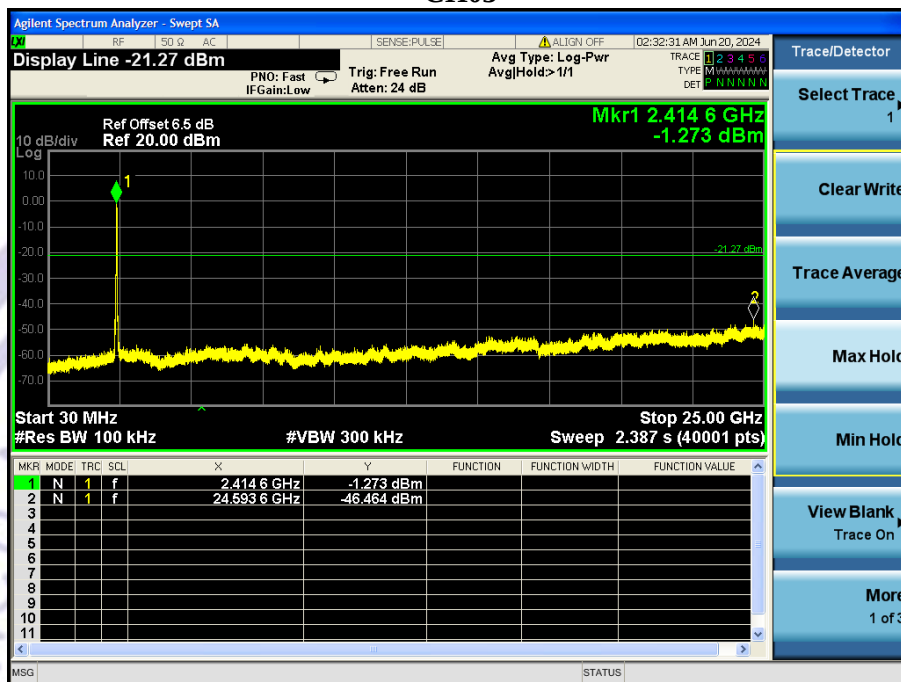
CH03 (Lower)



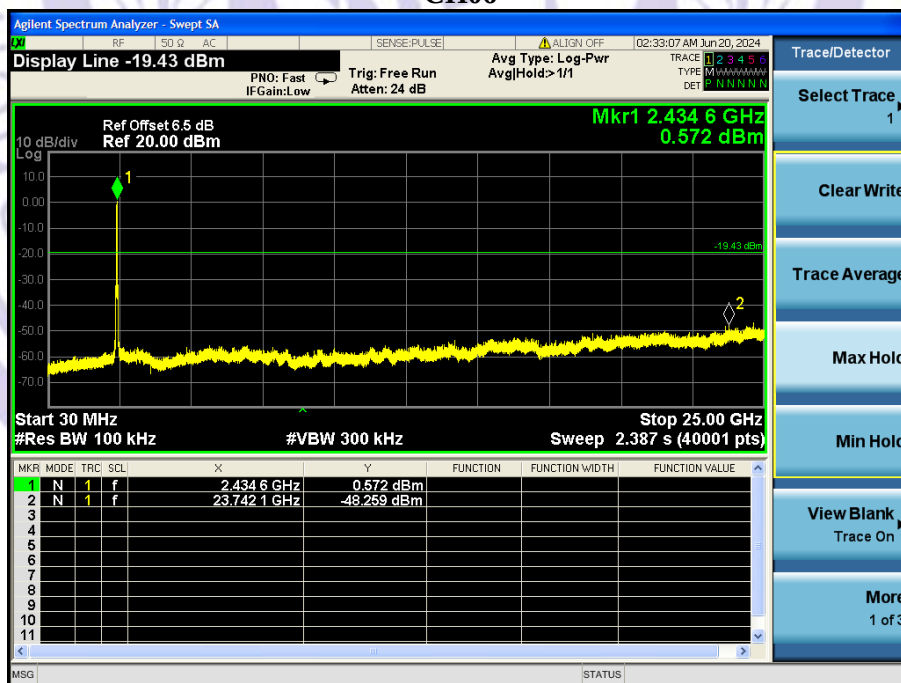
CH 09(Upper)



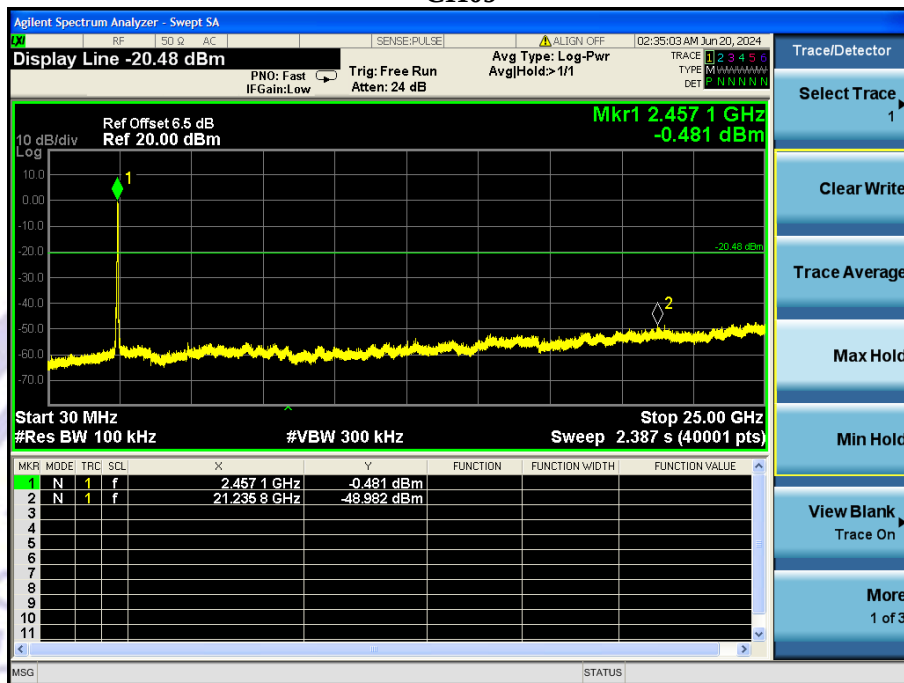
CH03



CH06



CH09



8 6dB&99% Bandwidth Measurement

Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10:2013

Test Limit : Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

8.1 Test Procedure

For 6dB Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

For 99% Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1%-5% OBW, VBW $\geq$ 3RBW

8.2 Test Result

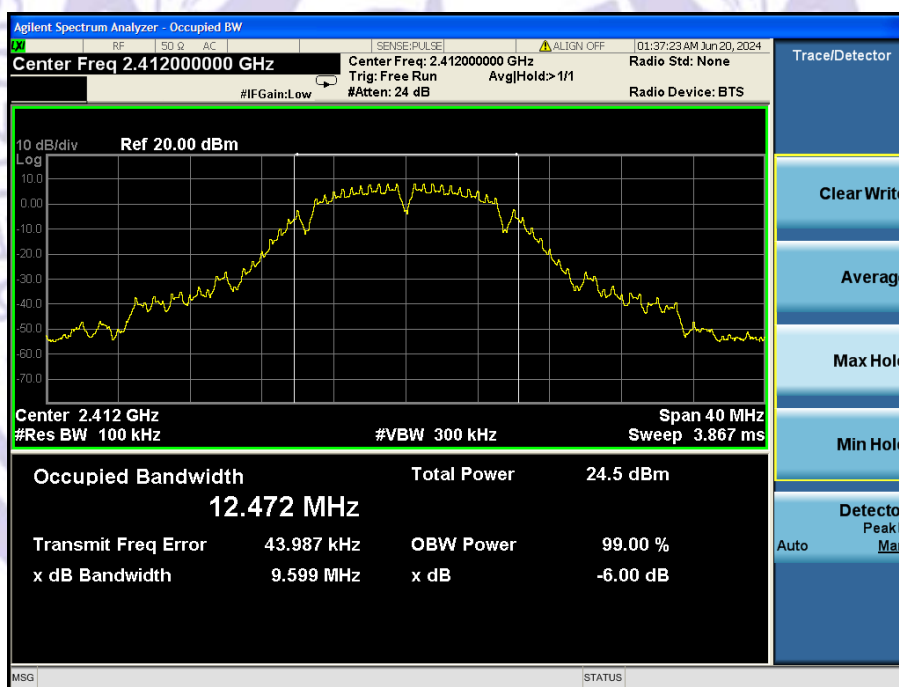
ANT 1(2) Represent the value of antenna 1 and 2, The worst data is 2 Antenna a ,only shown

Antenna 2 Plot.

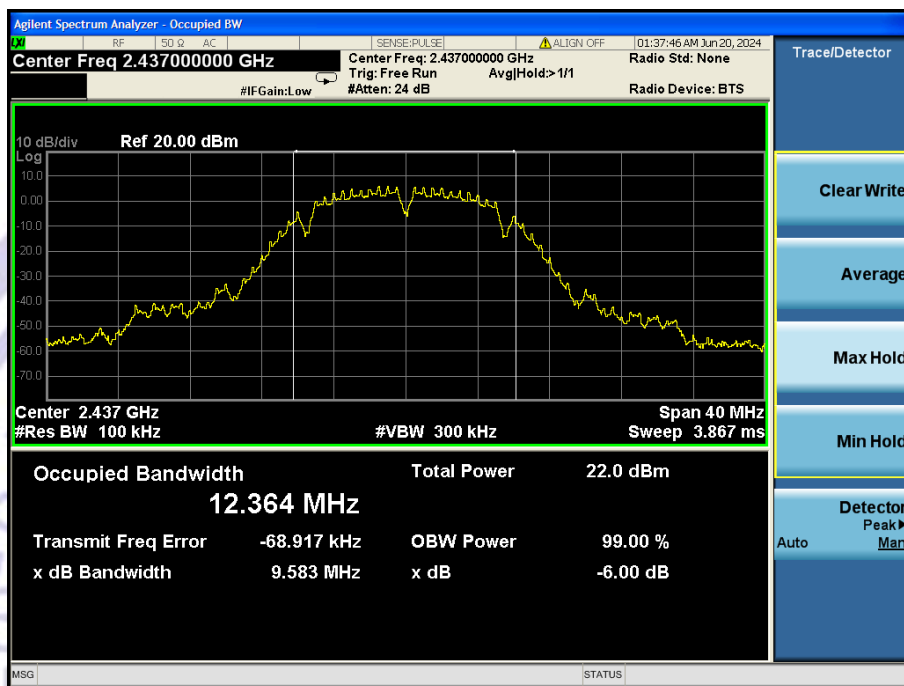
802.11b

Frequency	6dB Bandwidth (MHz) ANT 1	6dB Bandwidth (MHz) ANT 2	Limit (kHz)	Result
2412 MHz	9.112	9.599	≥ 500	Pass
2437 MHz	9.103	9.583	≥ 500	Pass
2462 MHz	9.007	9.587	≥ 500	Pass

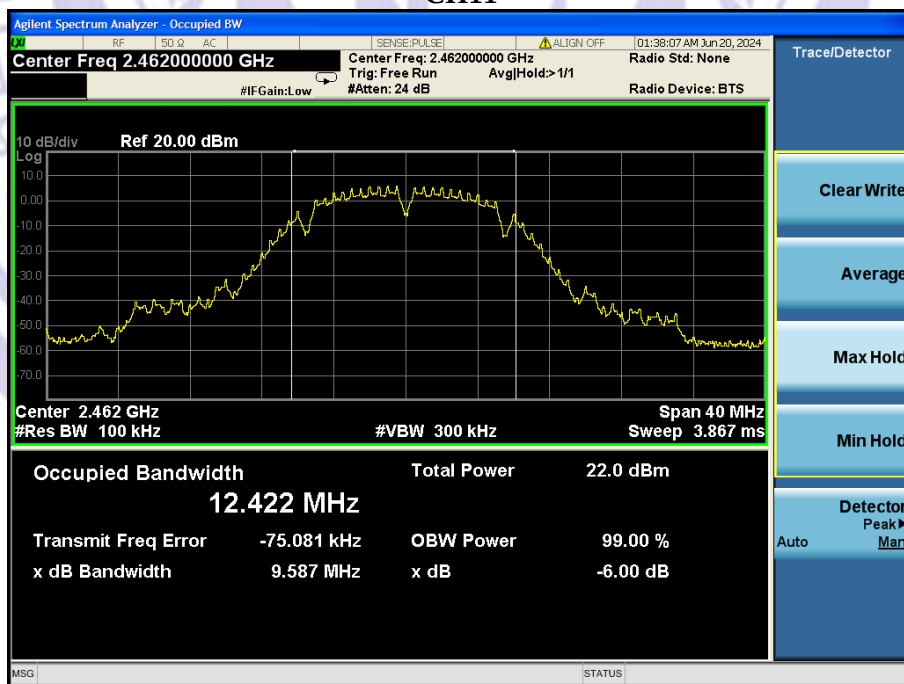
CH01



CH06



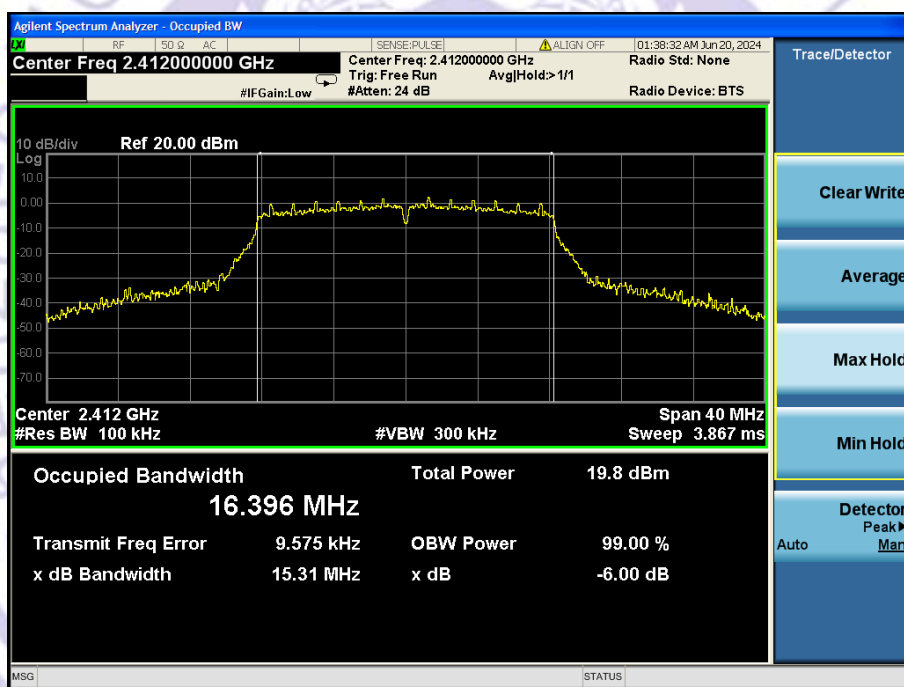
CH11



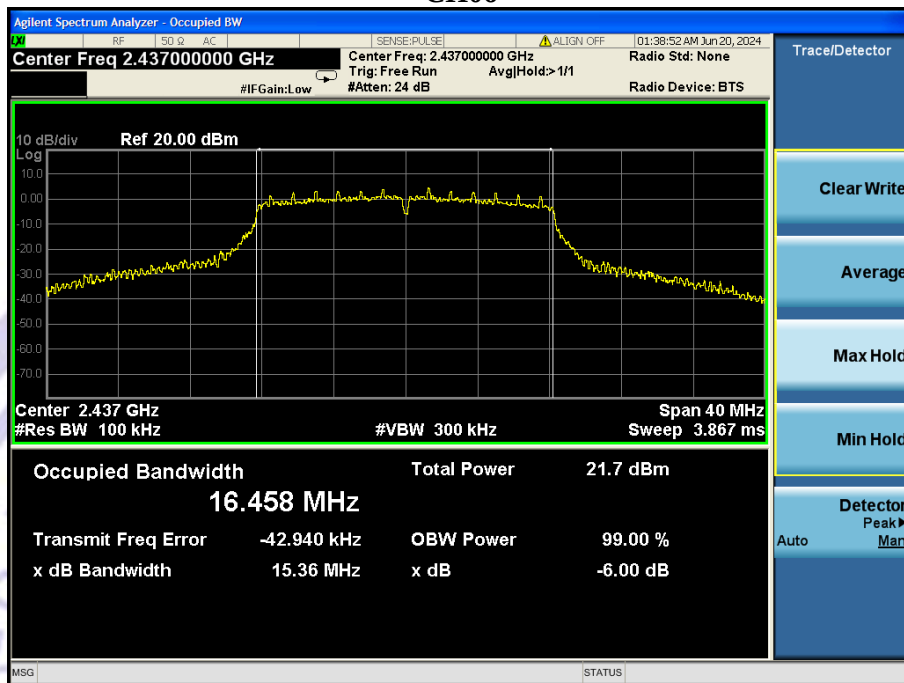
802.11g

Frequency	6dB Bandwidth (MHz) ANT 1	6dB Bandwidth (MHz) ANT 2	Limit (kHz)	Result
2412 MHz	15.22	15.31	≥ 500	Pass
2437 MHz	15.27	15.36	≥ 500	Pass
2462 MHz	15.28	15.48	≥ 500	Pass

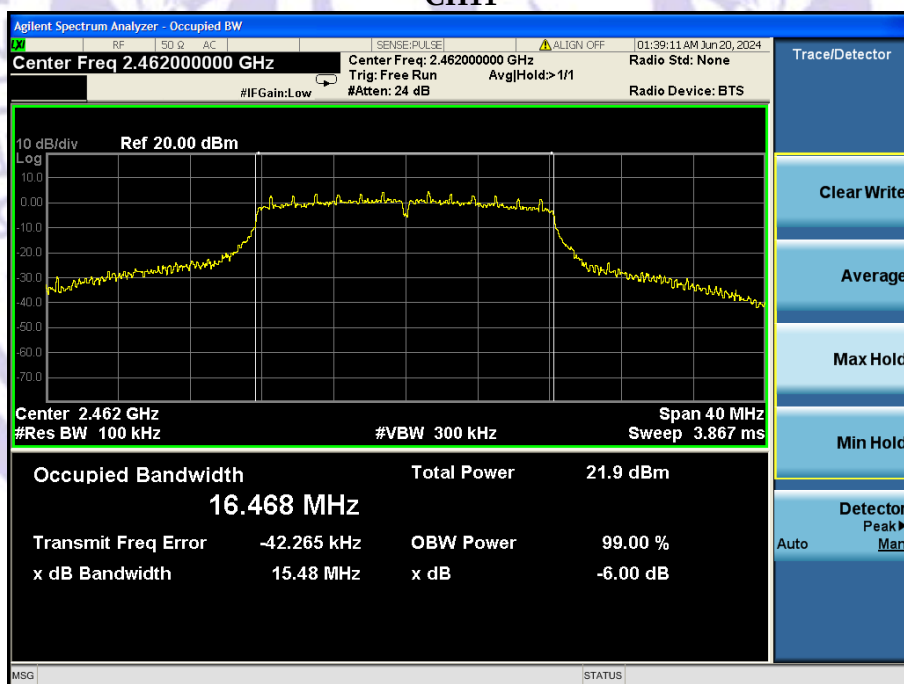
CH01



CH06



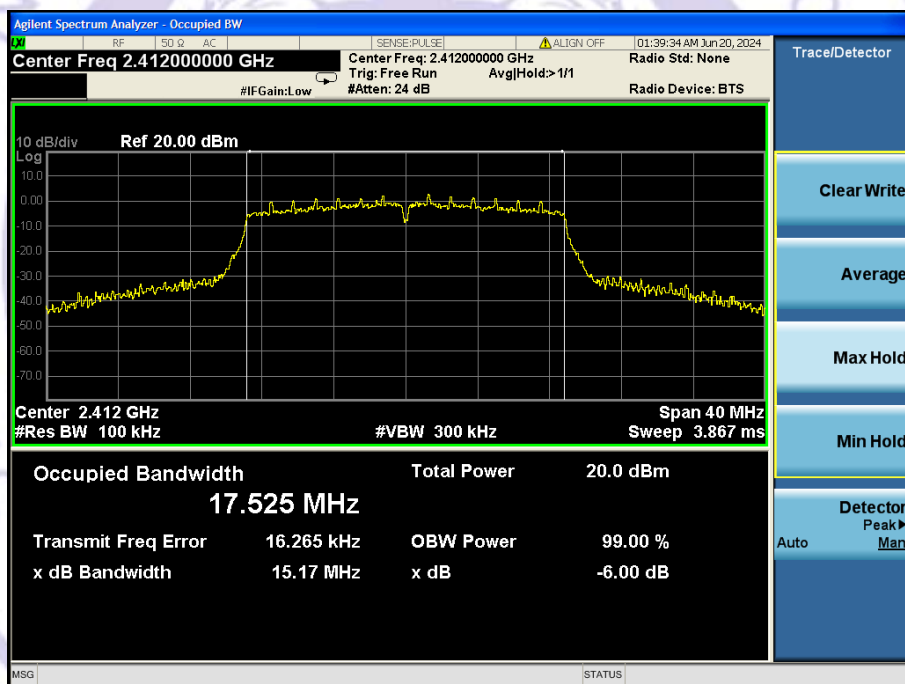
CH11



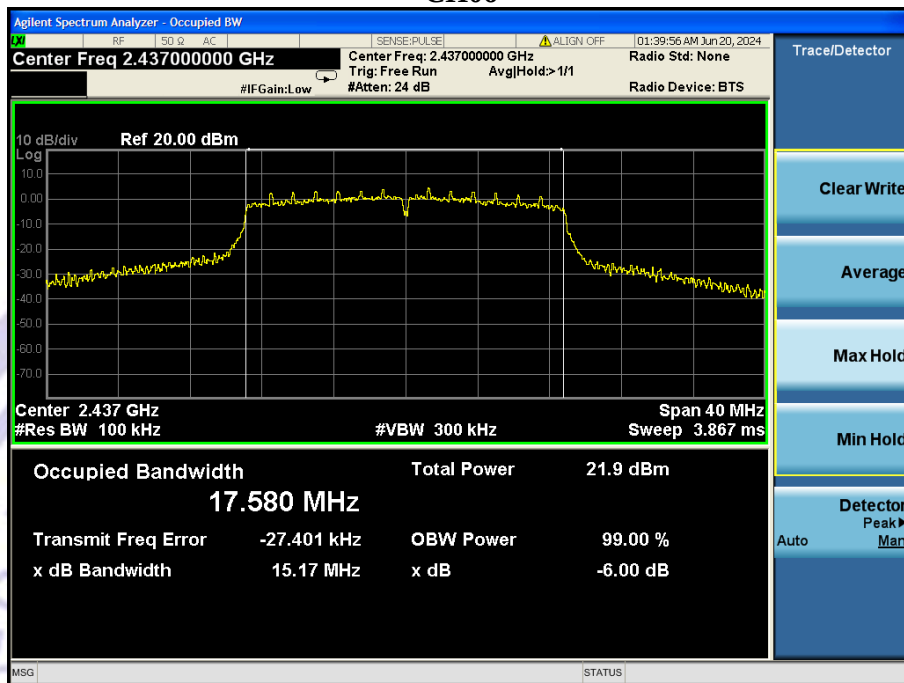
802.11n20

Frequency	6dB Bandwidth (MHz)ANT 1	6dB Bandwidth (MHz)ANT 2	Limit (kHz)	Result
2412 MHz	15.02	15.17	$\cong 500$	Pass
2437 MHz	15.03	15.17	$\cong 500$	Pass
2462 MHz	15.21	15.49	$\cong 500$	Pass

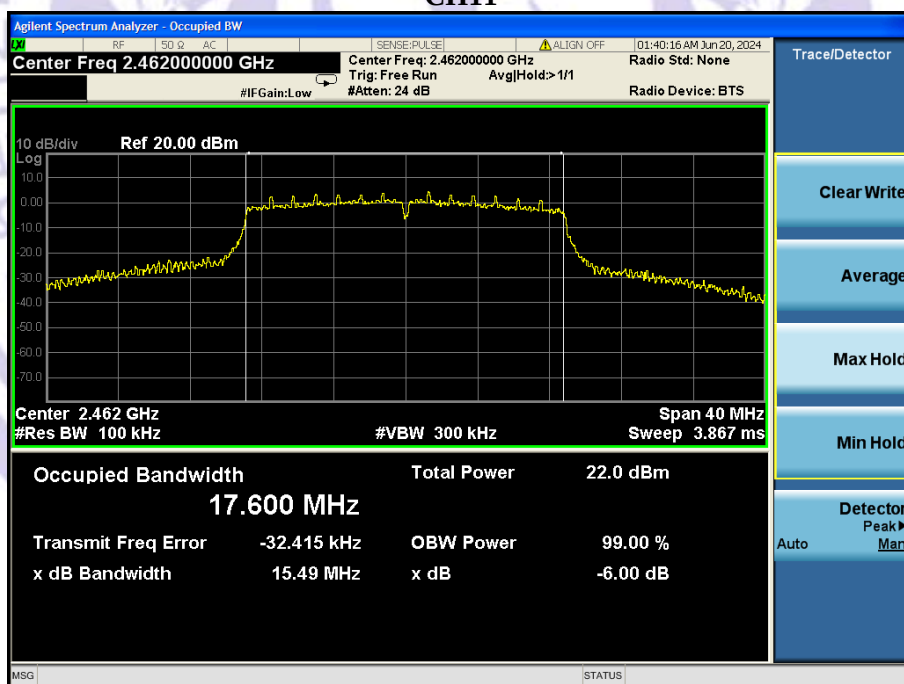
CH01



CH06



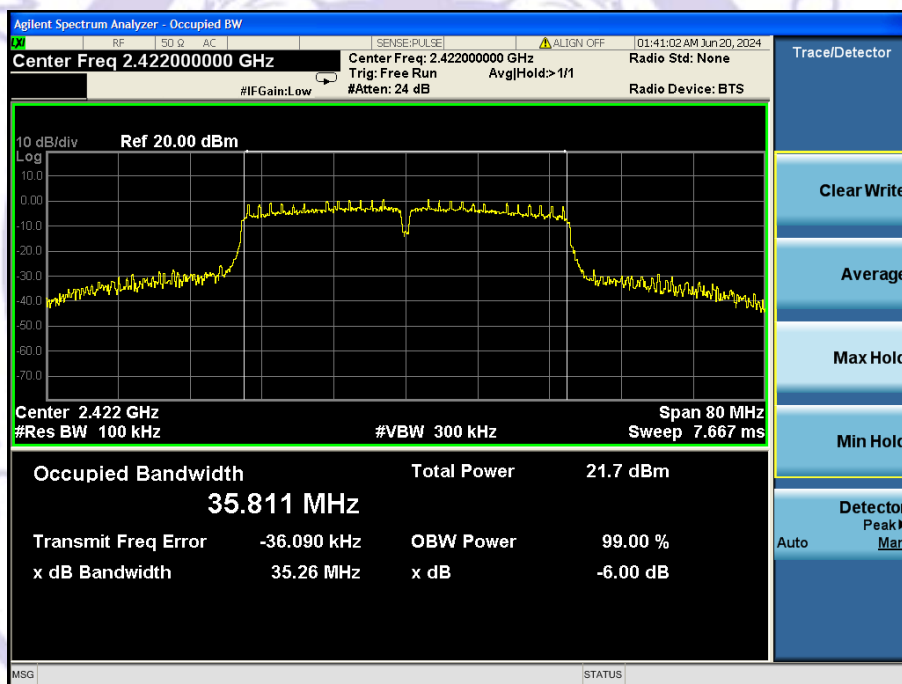
CH11



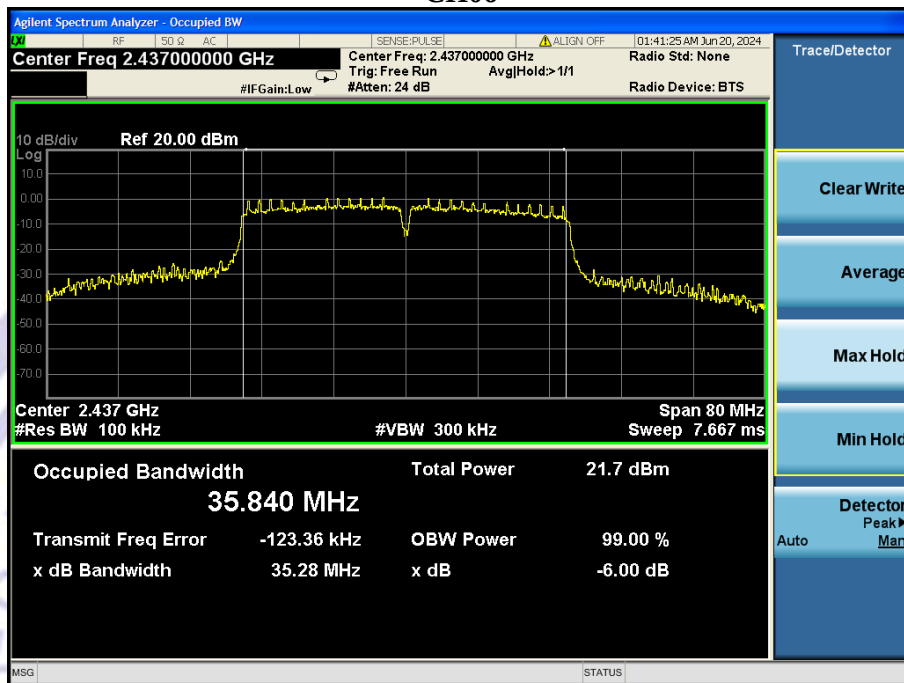
802.11n40

Frequency	6dB Bandwidth (MHz)ANT 1	6dB Bandwidth (MHz)ANT 2	Limit (kHz)	Result
2422 MHz	35.11	35.26	≥ 500	Pass
2437 MHz	35.07	35.28	≥ 500	Pass
2452 MHz	35.22	35.57	≥ 500	Pass

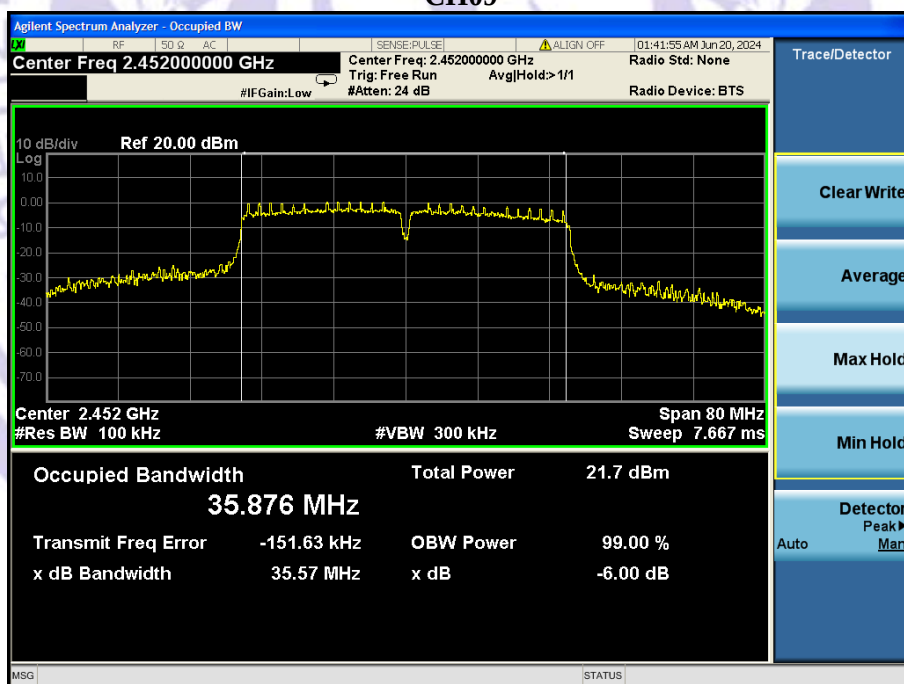
CH03



CH06



CH09



9 Maximum Peak Output Power

- Test Requirement : FCC CFR47 Part 15 Section 15.247
- Test Method : ANSI C63.10:2013
- Test Limit : Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.
- RSS-247 § 5.4 (d)
- For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

9.1 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

9.2 Test Result

802.11b

Test Channel	Frequency (MHz)	Output Power (dBm)ANT 1	Output Power (dBm)ANT 2	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	15.88	16.52	30	1
CH06	2437MHz	15.21	15.74	30	1
CH11	2462 MHz	15.09	15.17	30	1

802.11g

Test Channel	Frequency (MHz)	Output Power (dBm)ANT 1	Output Power (dBm)ANT 2	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	12.11	13.89	30	1
CH06	2437MHz	13.59	14.79	30	1
CH11	2462 MHz	14.02	14.95	30	1

802.11n20

Test Channel	Frequency (MHz)	Output Power (dBm)ANT 1	Output Power (dBm)ANT 2	Total Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412 MHz	12.51	13.77	16.20	30	1
CH06	2437MHz	13.36	14.59	17.03	30	1
CH11	2462 MHz	14.02	14.98	17.54	30	1

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =5.01dBi<6 dBi

Limit =30 dBm .

802.11n40

Test Channel	Frequency (MHz)	Output Power (dBm)ANT 1	Output Power (dBm)ANT 2	Total Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422 MHz	11.17	12.01	14.62	30	1
CH06	2437MHz	11.24	12.55	14.95	30	1
CH09	2452 MHz	11.59	12.63	15.15	30	1

Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =5.01dBi<6 dBi

Limit =30 dBm .

10 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz, Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

10.2 Test Result

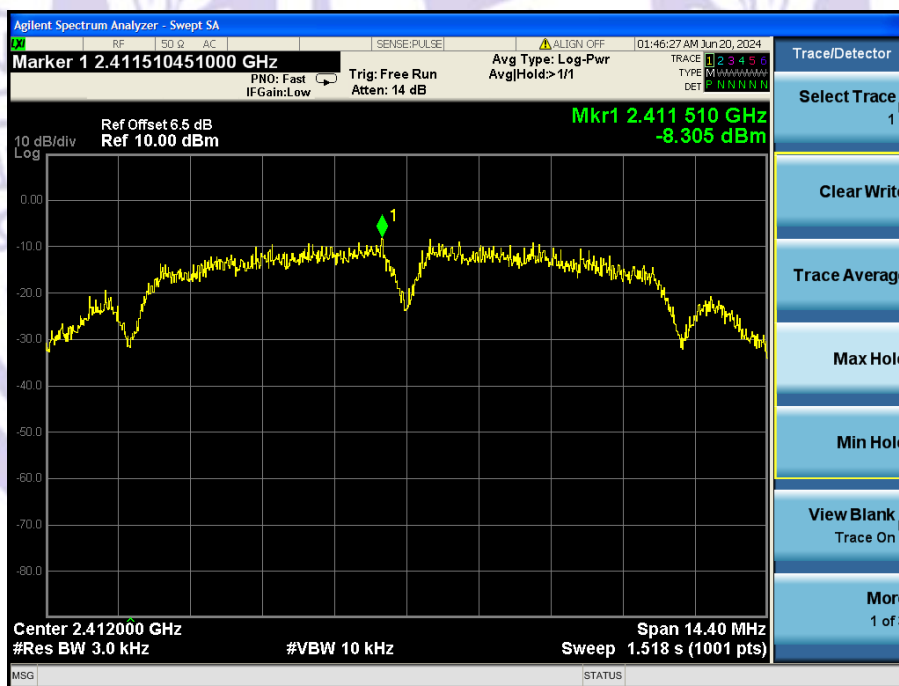
ANT 1(2) Represent the value of antenna 1 and 2, The worst data is 2Antenna a ,only shown

Antenna 2 Plot.

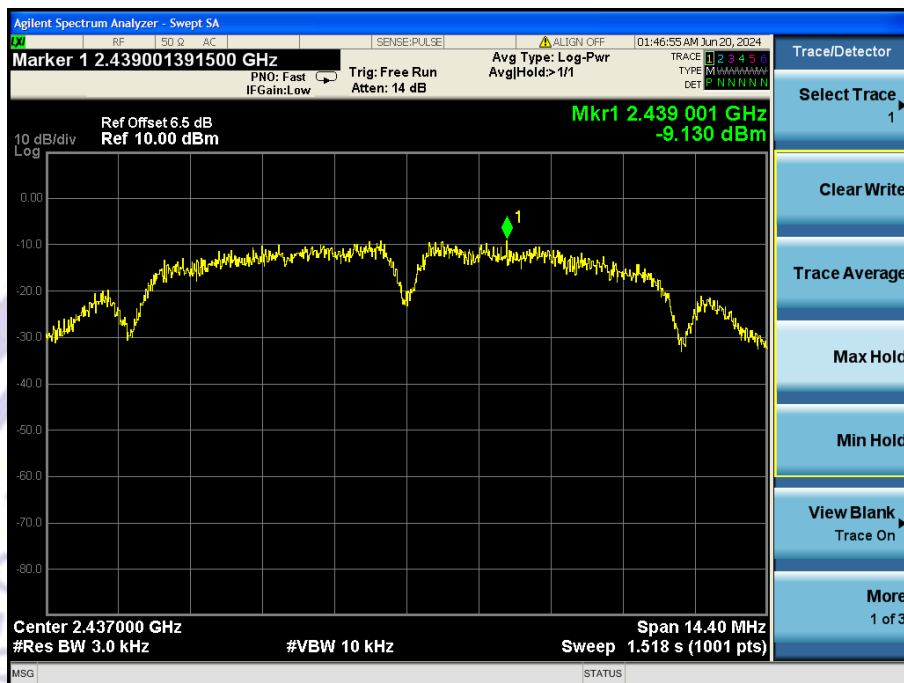
802.11b

Test Channel	Frequency (MHz)	Power Density (dBm)ANT 1	Power Density (dBm)ANT 2	Total Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-10.021	-8.305	--	8
CH06	2437 MHz	-10.228	-9.130	--	8
CH11	2462 MHz	-8.564	-6.343	--	8

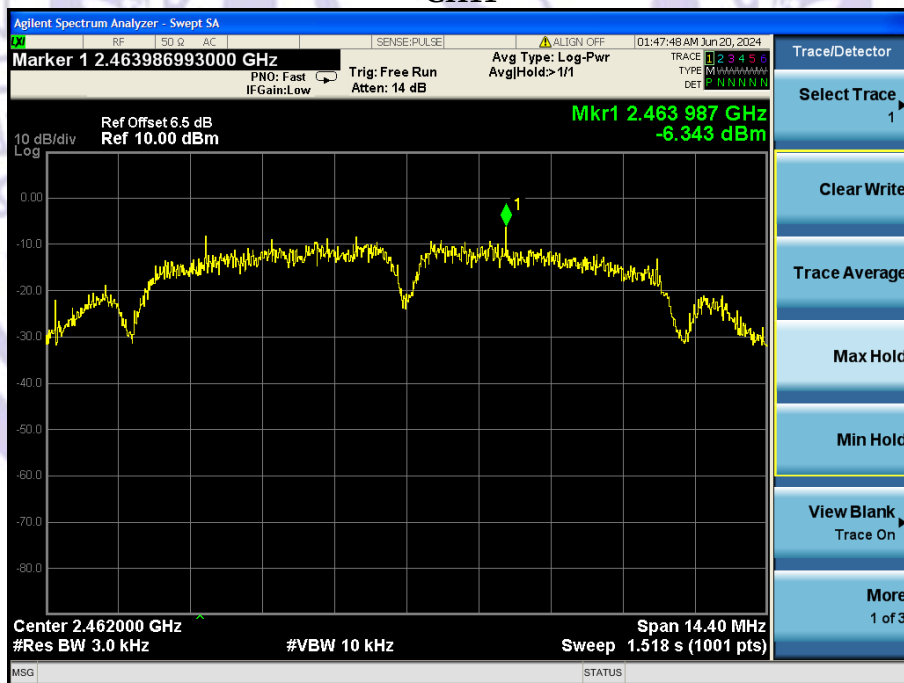
CH01



CH06



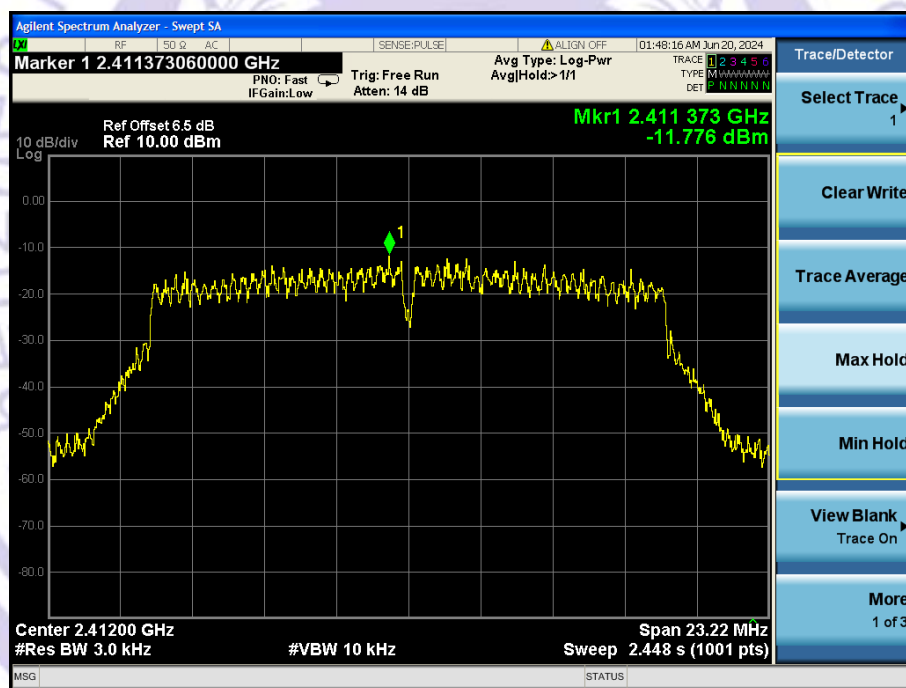
CH11



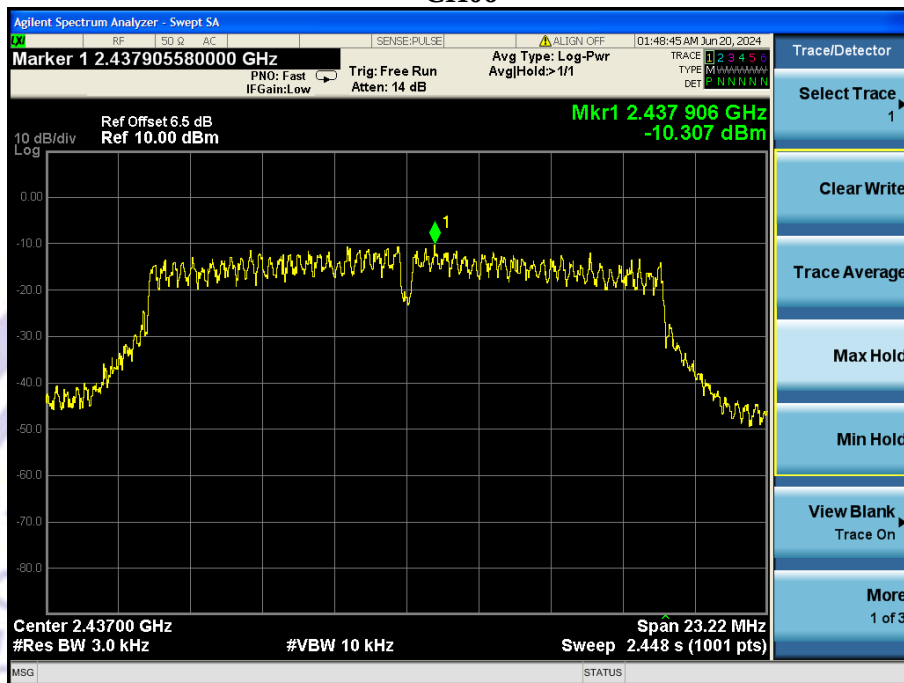
802.11g

Test Channel	Frequency (MHz)	Power Density (dBm)ANT 1	Power Density (dBm)ANT 2	Total Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-12.164	-11.776	--	8
CH06	2437 MHz	-12.047	-10.307	--	8
CH11	2462 MHz	-12.895	-11.101	--	8

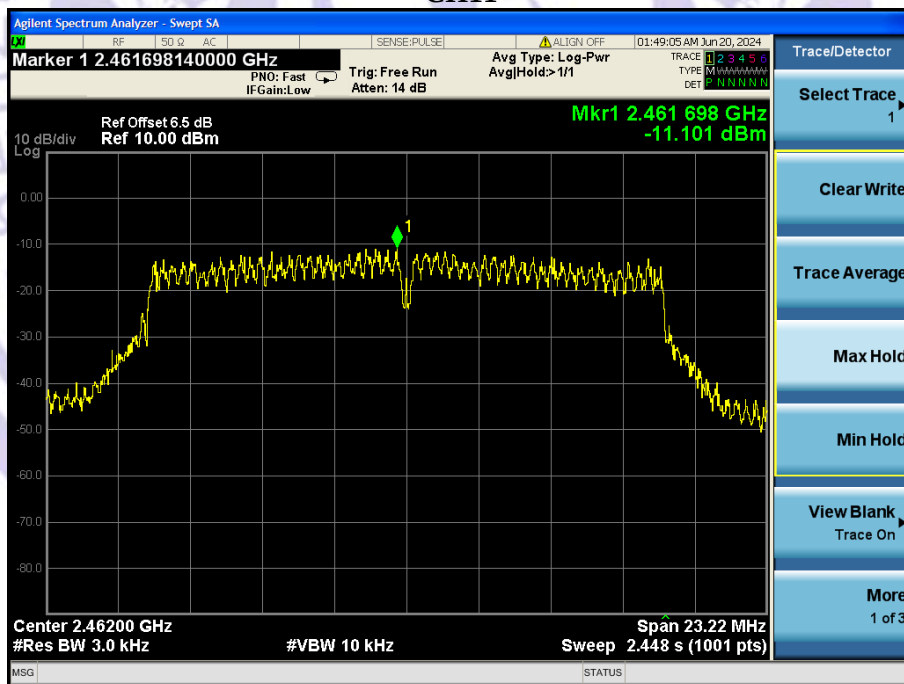
CH01



CH06



CH11



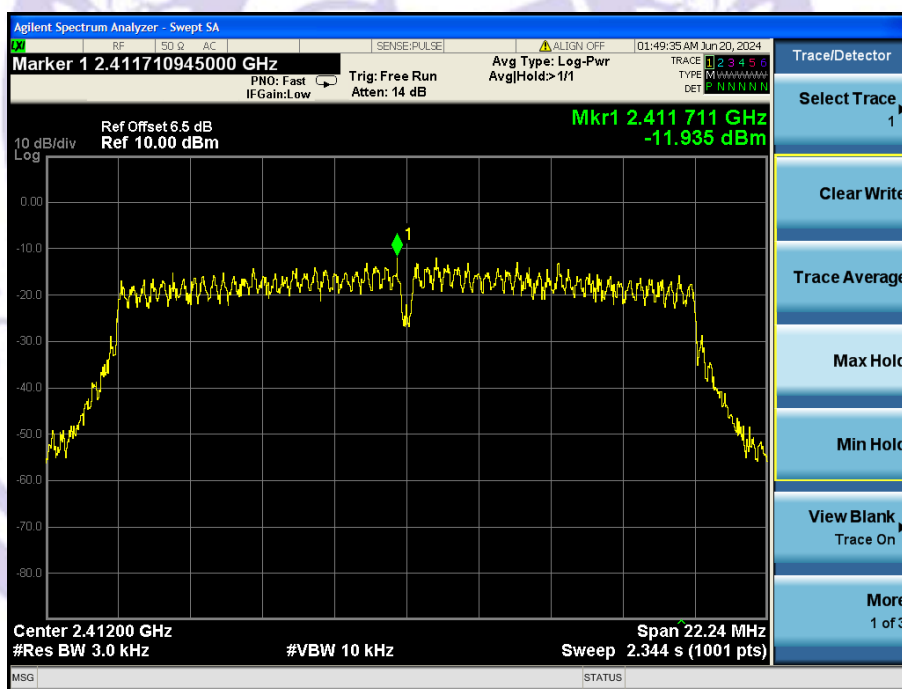
802.11n20

Test Channel	Frequency (MHz)	Power Density (dBm)ANT 1	Power Density (dBm)ANT 2	Total Power Density (dBm)	LIMIT (dBm)
CH01	2412 MHz	-12.541	-11.935	-9.22	8
CH06	2437 MHz	-13.714	-11.298	-9.33	8
CH11	2462 MHz	-11.247	-9.698	-7.39	8

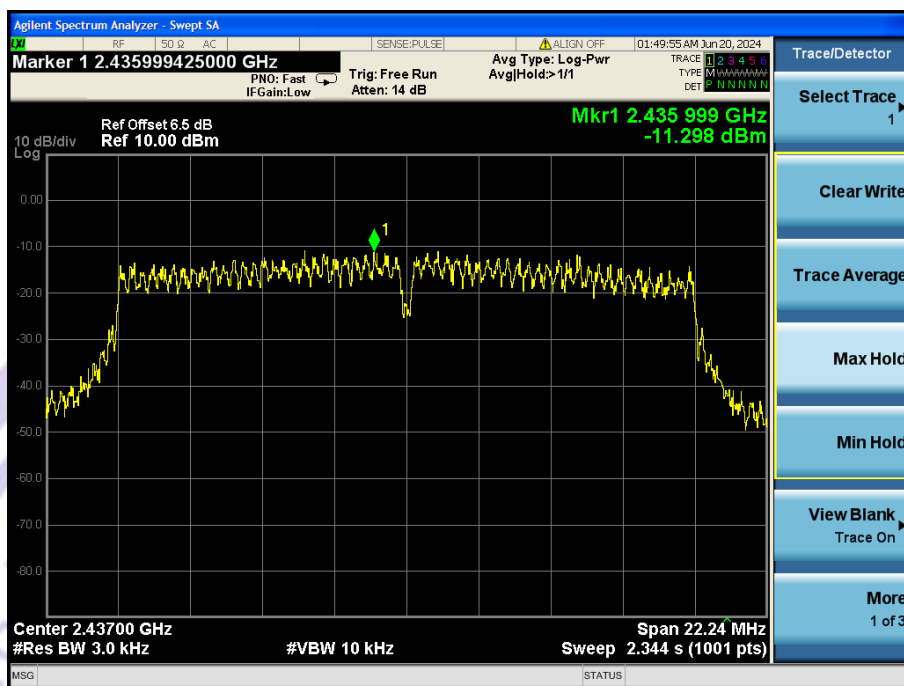
Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =5.01dBi<6 dBi

Limit =8 dBm .

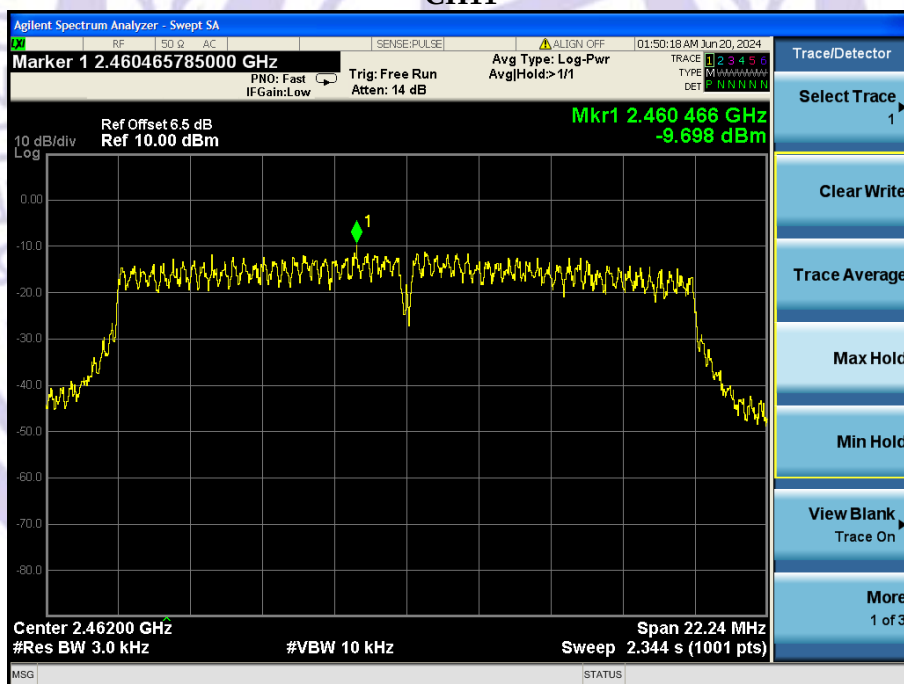
CH01



CH06



CH11



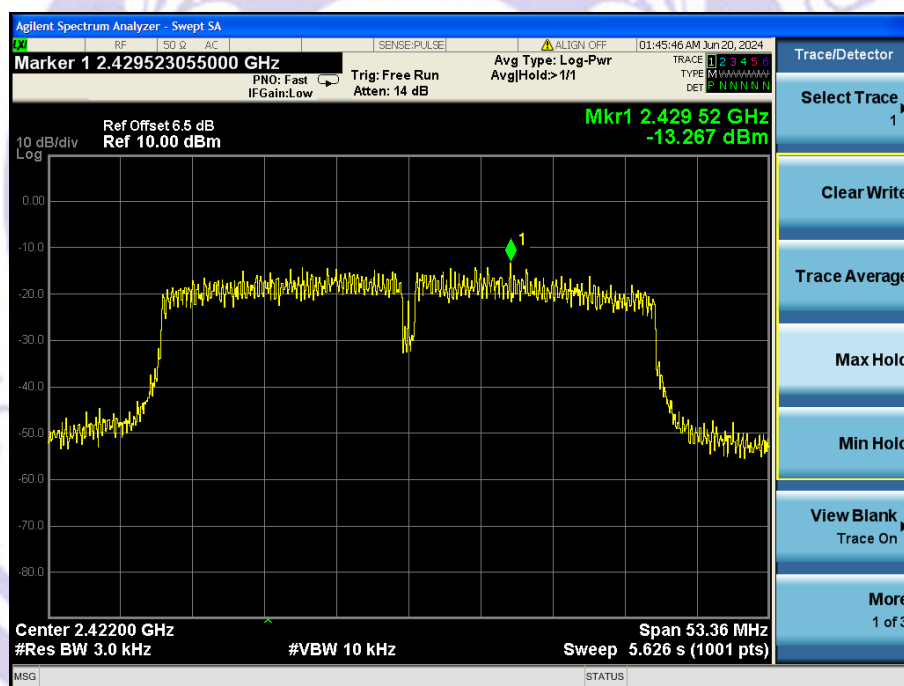
802.11n40

Test Channel	Frequency (MHz)	Power Density (dBm)ANT 1	Power Density (dBm)ANT 2	Total Power Density (dBm)	LIMIT (dBm)
CH03	2422 MHz	-14.897	-13.267	-11.00	8
CH06	2437 MHz	-14.817	-14.290	-11.54	8
CH09	2452 MHz	-15.112	-13.607	-11.28	8

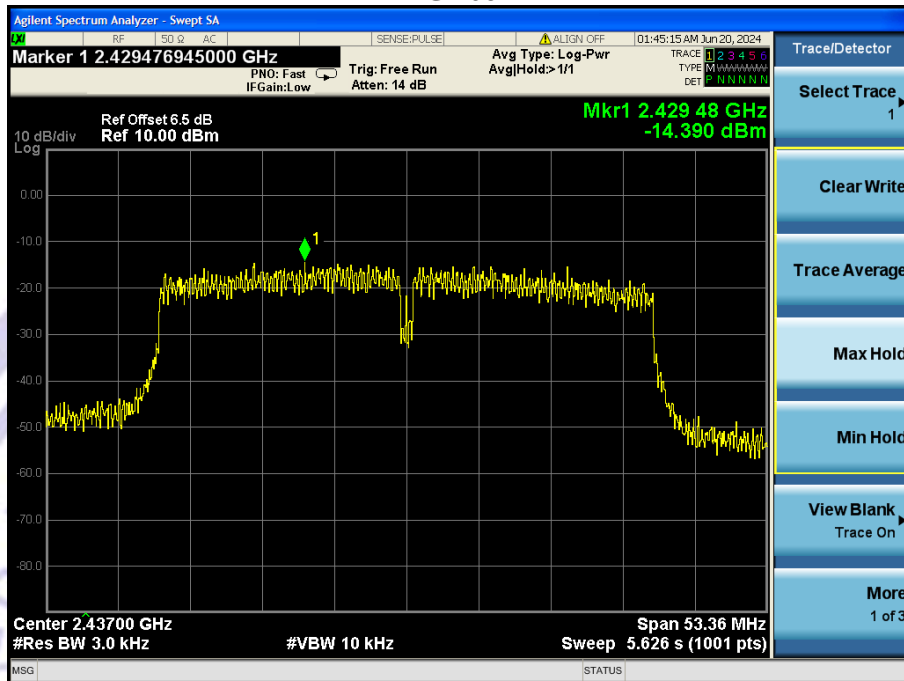
Note: For MIMO mode: Directional gain=GANT +10log(N)dBi =5.01dBi<6 dBi

Limit =8 dBm.

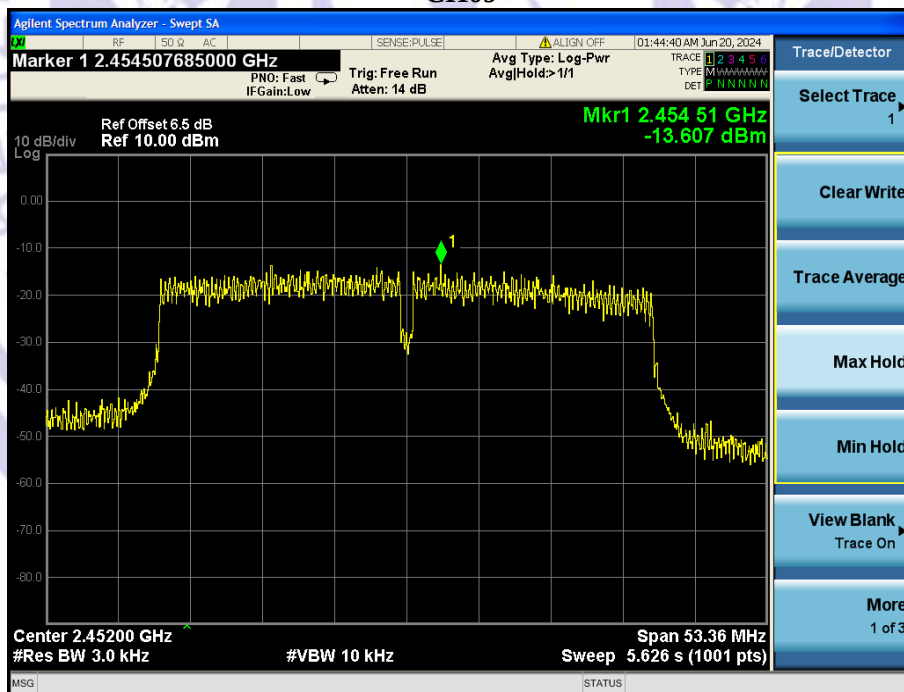
CH03



CH06



CH09



11 Antenna Application

11.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to RSS-GEN section 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

11.2 Result

The EUT'S antenna, permanent attached antenna, is FPCB Antenna . The antenna's gain is ANT1: 2.0dBi ANT2: 2.0dBi and meets the requirement.

12 Test Setup and EUT Photos

Reference to the attachment for details.

*****THE END REPORT*****

