

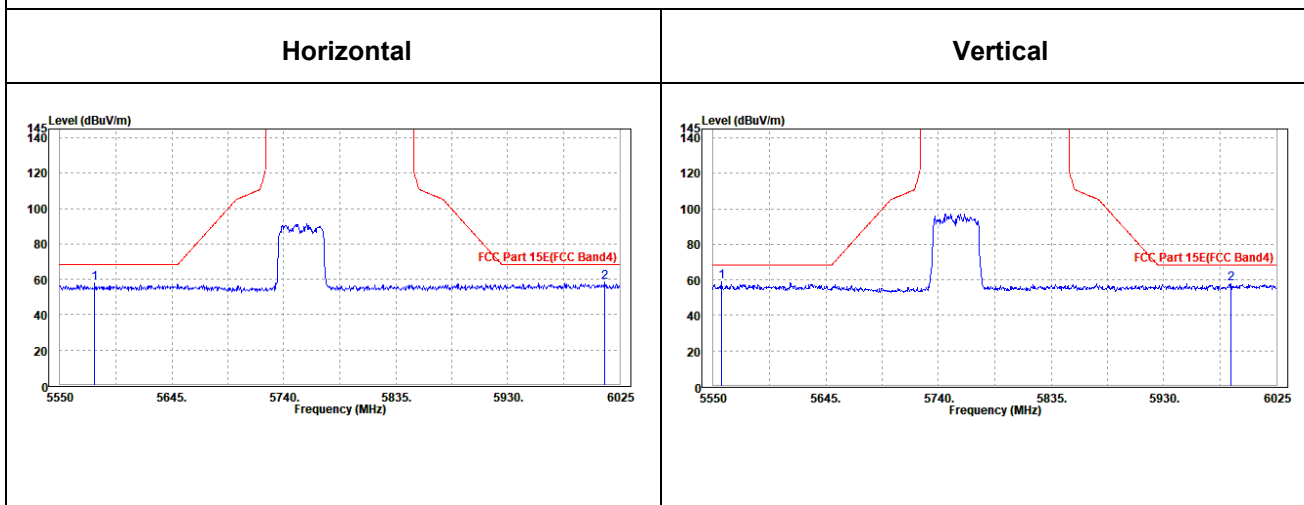


OOBE DATA

802.11ax (40MHz) (RU484):

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5579.45	58.03	58.63	68.2	-10.17	34.3	11.59	46.49	100	360	Peak
6012.175	58.23	57.72	68.2	-9.97	35.12	11.77	46.38	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5556.65	58.72	58.88	68.2	-9.48	34.75	11.58	46.49	100	0	Peak
5986.525	58.06	57.73	68.2	-10.14	34.97	11.74	46.38	100	0	Peak

CH 151





CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	93.05	93.13	/	/	34.68	11.67	46.43	100	195	Peak
5795	84.21	84.29	/	/	34.68	11.67	46.43	100	195	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	97.79	97.7	/	/	34.85	11.67	46.43	100	260	Peak
5795	89.07	88.98	/	/	34.85	11.67	46.43	100	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.



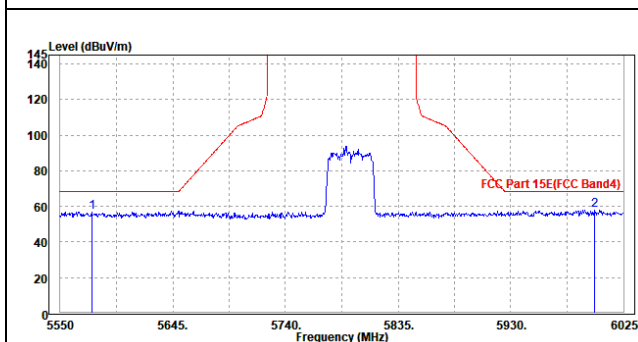
Oobe Data

802.11ax (40MHz) (RU484):

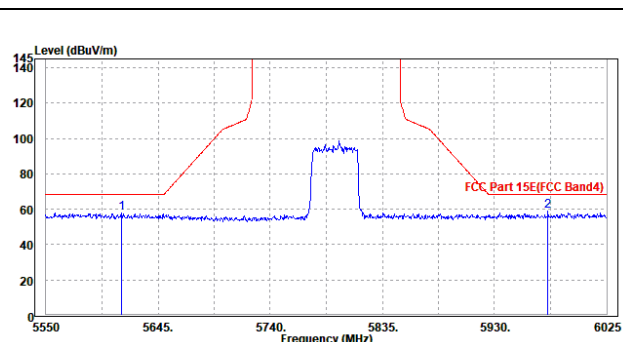
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5576.6	56.87	57.47	68.2	-11.33	34.3	11.59	46.49	100	0	Peak
6000.3	58.14	57.67	68.2	-10.06	35.1	11.75	46.38	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5613.65	57.99	57.93	68.2	-10.21	34.94	11.6	46.48	100	360	Peak
5975.125	58.96	58.66	68.2	-9.24	34.95	11.74	46.39	100	360	Peak

CH 159

Horizontal



Vertical





802.11ax (80MHz) (RU996):

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	88.09	88.27	/	/	34.6	11.66	46.44	100	195	Peak
5775	80.98	81.16	/	/	34.6	11.66	46.44	100	195	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	92.72	92.85	/	/	34.65	11.66	46.44	100	260	Peak
5775	84.96	85.09	/	/	34.65	11.66	46.44	100	260	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5775MHz: Fundamental frequency.

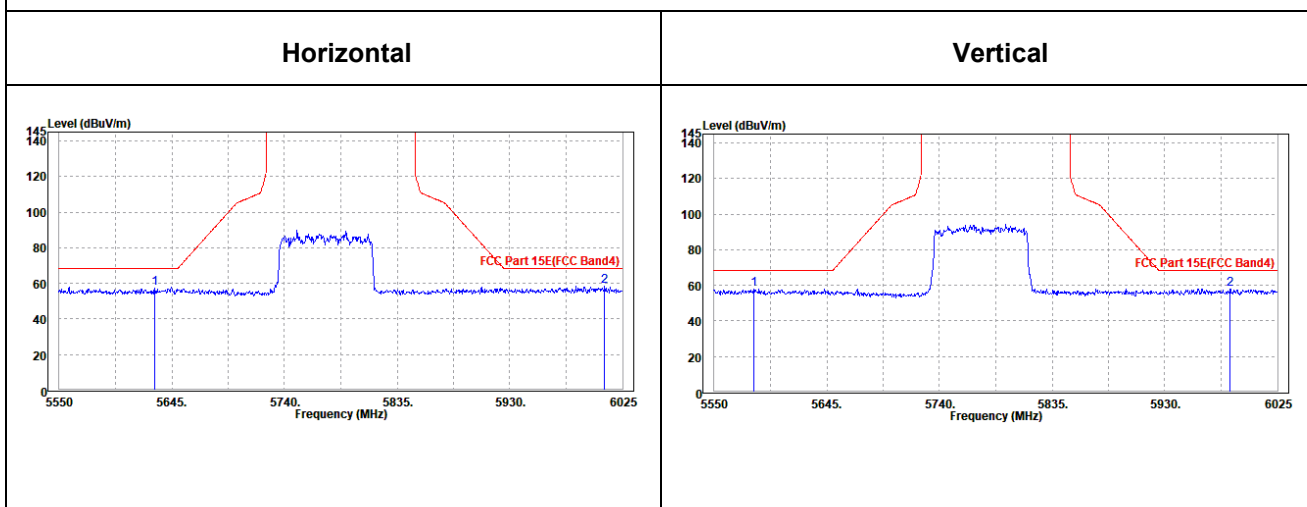


OOBE DATA

802.11ax (80MHz) (RU996):

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5630.275	57.17	57.55	68.2	-11.03	34.48	11.61	46.47	100	360	Peak
6009.8	58.24	57.74	68.2	-9.96	35.12	11.76	46.38	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5583.25	57.74	57.66	68.2	-10.46	34.97	11.59	46.48	100	0	Peak
5985.1	57.87	57.54	68.2	-10.33	34.97	11.74	46.38	100	0	Peak

CH 155





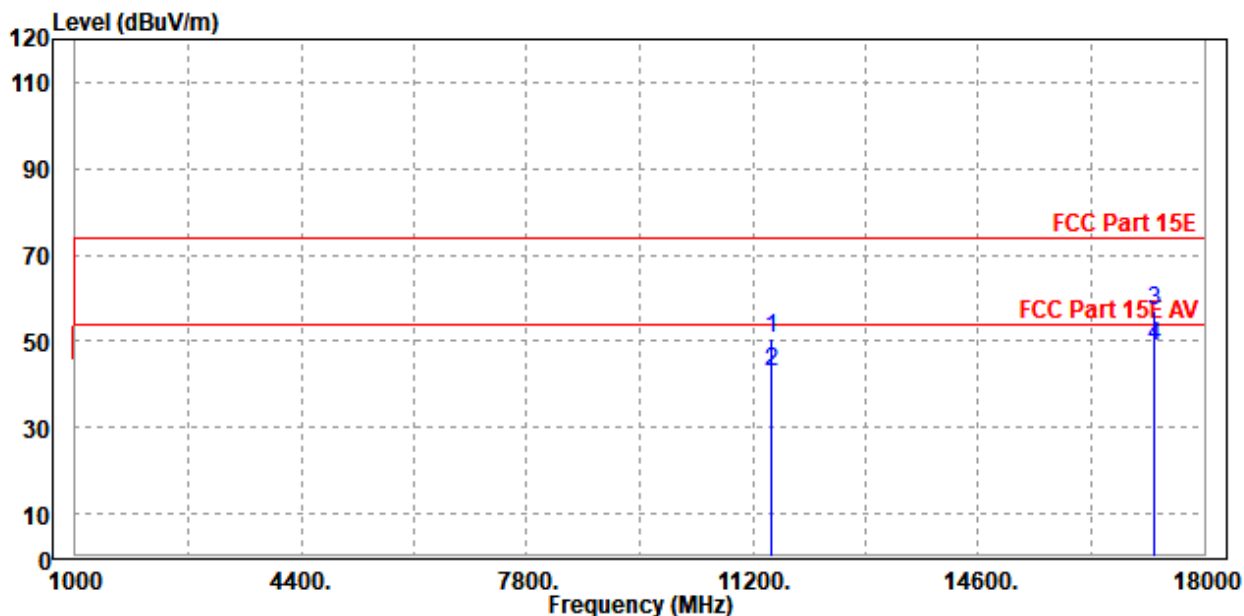
802.11ax (20MHz):

Worst case harmonic:

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

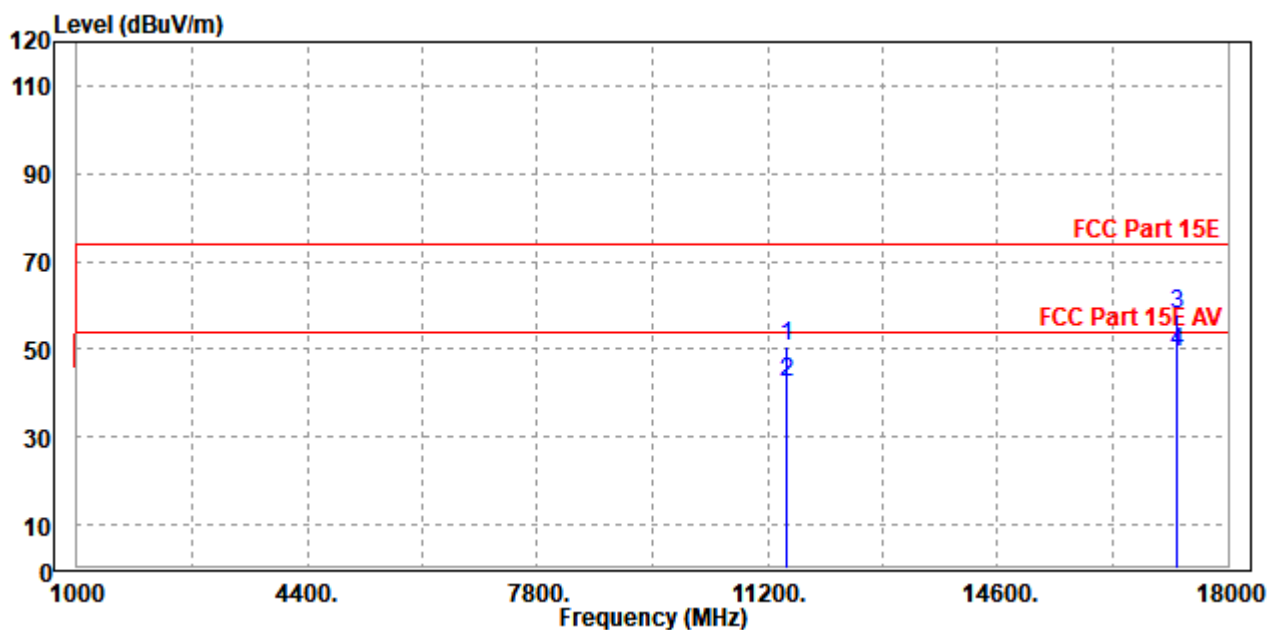
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11489.000	50.75	43.10	74.00	-23.25	7.65	Peak	Horizontal
2	11489.000	42.68	35.03	54.00	-11.32	7.65	Average	Horizontal
3	PK17235.000	57.12	40.26	74.00	-16.88	16.86	Peak	Horizontal
4	PP17235.000	48.99	32.13	54.00	-5.01	16.86	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11490.000	50.85	43.58	74.00	-23.15	7.27	Peak	Vertical
2	11490.000	42.51	35.24	54.00	-11.49	7.27	Average	Vertical
3	PK17235.000	58.13	42.14	74.00	-15.87	15.99	Peak	Vertical
4	PP17235.000	49.24	33.25	54.00	-4.76	15.99	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- 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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,24	Feb. 13,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,24	Mar. 09,25

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

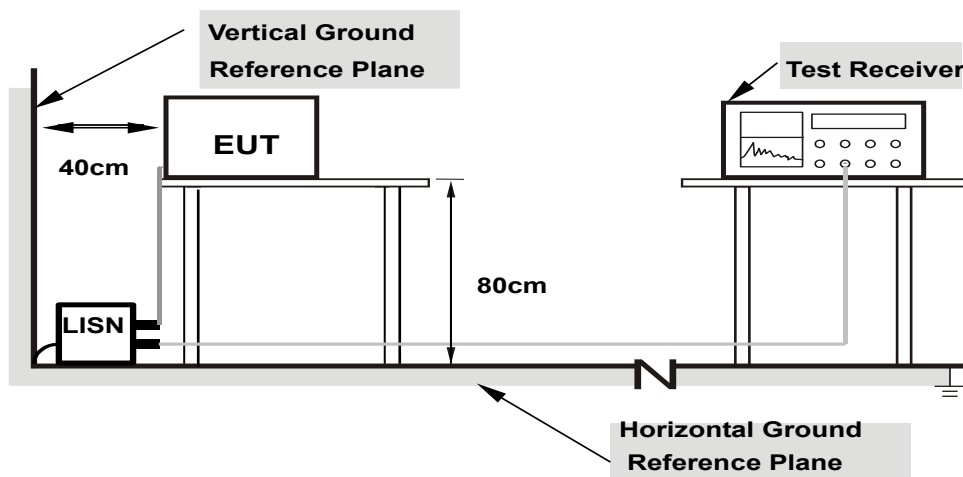
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



3.2.7 TEST RESULTS

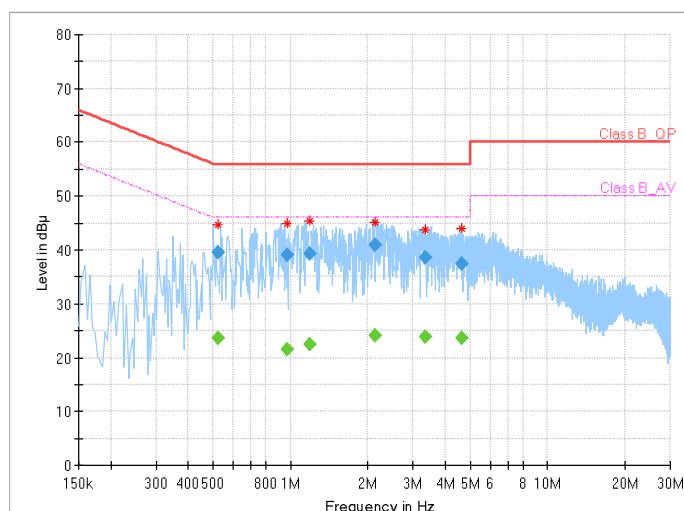
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.520000	---	23.69	46.00	22.31	L1	ON	9.8
0.520000	39.49	---	56.00	16.51	L1	ON	9.8
0.976000	---	21.51	46.00	24.49	L1	ON	9.8
0.976000	39.11	---	56.00	16.89	L1	ON	9.8
1.188000	---	22.50	46.00	23.50	L1	ON	9.8
1.188000	39.34	---	56.00	16.66	L1	ON	9.8
2.140000	---	24.17	46.00	21.83	L1	ON	9.8
2.140000	40.87	---	56.00	15.13	L1	ON	9.8
3.336000	---	23.90	46.00	22.10	L1	ON	9.8
3.336000	38.68	---	56.00	17.32	L1	ON	9.8
4.648000	---	23.69	46.00	22.31	L1	ON	9.7
4.648000	37.34	---	56.00	18.66	L1	ON	9.7

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



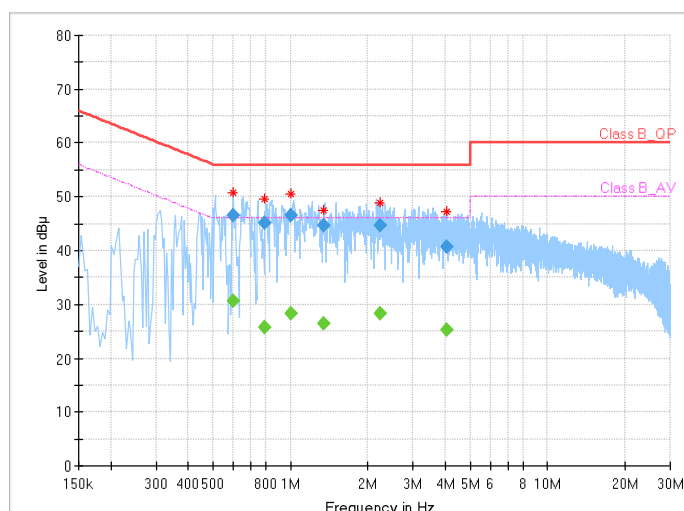


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.600000	---	30.68	46.00	15.32	N	ON	9.7
0.600000	46.64	---	56.00	9.36	N	ON	9.7
0.792000	---	25.81	46.00	20.19	N	ON	9.7
0.792000	45.20	---	56.00	10.80	N	ON	9.7
1.004000	---	28.39	46.00	17.61	N	ON	9.7
1.004000	46.51	---	56.00	9.49	N	ON	9.7
1.348000	---	26.44	46.00	19.56	N	ON	9.7
1.348000	44.72	---	56.00	11.28	N	ON	9.7
2.220000	---	28.31	46.00	17.69	N	ON	9.8
2.220000	44.77	---	56.00	11.23	N	ON	9.8
4.040000	---	25.32	46.00	20.68	N	ON	9.7
4.040000	40.76	---	56.00	15.24	N	ON	9.7

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

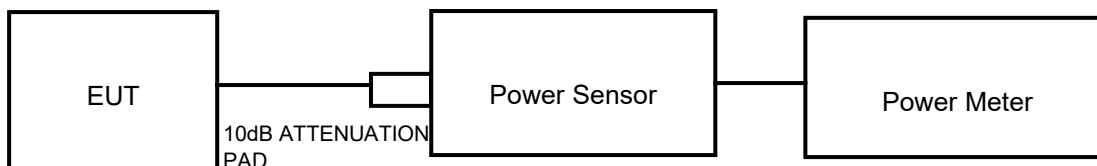
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

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

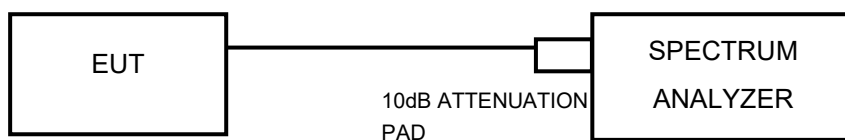
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH





Test Report No.: W7L-P24050018RF03

3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 14,24	Feb. 13,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,24	Feb. 13,25

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) ,802.11 ac/ax (80MHz)

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

FOR 99 PERCENT OCCUPIED BANDWIDTH

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.

FOR 26dB BANDWIDTH

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



Test Report No.: W7L-P24050018RF03

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



Test Report No.: W7L-P24050018RF03

3.3.7 TEST RESULTS

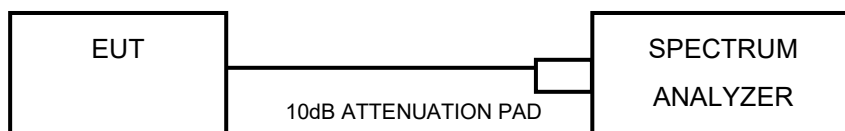
Please Refer to Appendix C.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

Using method SA-2 (Band4)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result. $10 \log(500\text{kHz}/300\text{KHZ}) = 2.22\text{dBm}$
- 7) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



Test Report No.: W7L-P24050018RF03

3.4.7 TEST RESULTS

Please Refer to Appendix C.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 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 a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmits 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.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain=GANT +Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain= $10 \log(NANT/ Nss)$ dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $NANT \leq 4$;

The EUT supports Cyclic Delay Diversity (CDD) mode,

For power measurements, the directional GANT is set equal to the antenna having the highest gain as following formulas.

Directional Gain = Max.Gain + Array Gain.

For PSD measurements, the directional GANT is calculation is following F)2)f)ii of KDB 662911 D01 v02r01.

The directional gain is calculated as following table.

	Band	Ant 8 (dBi)	Ant 9 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
5GHz	U-NII 1	-0.7	0.7	0.7	3.04	0	0
	U-NII 2A	-0.7	0.7	0.7	3.04	0	0
	U-NII 2C	-0.7	0.7	0.7	3.04	0	0
	U-NII 3	-0.7	0.7	0.7	3.04	0	0

NOTE :DG= directional gain, Power Limit Reduction = DG For Power Gain -6dbi<0

PSD Limit Reduction = DG For PSD – 6dBi<0. Therefore, it is not necessary to reduce maximum peak output power and PSD limit.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--END--

APPENDIX C: RLAN

EMISSION BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	19.240	5170.400	5189.640	---	---
	Ant2	5180	19.360	5170.320	5189.680	---	---
	Ant1	5200	19.400	5190.240	5209.640	---	---
	Ant2	5200	19.480	5190.040	5209.520	---	---
	Ant1	5240	18.920	5230.640	5249.560	---	---
	Ant2	5240	19.720	5229.960	5249.680	---	---
	Ant1	5260	19.960	5249.760	5269.720	---	---
	Ant2	5260	19.600	5250.120	5269.720	---	---
	Ant1	5280	19.760	5269.800	5289.560	---	---
	Ant2	5280	19.440	5270.200	5289.640	---	---
	Ant1	5300	19.360	5290.400	5309.760	---	---
	Ant2	5300	19.160	5290.320	5309.480	---	---
	Ant1	5320	19.920	5309.840	5329.760	---	---
	Ant2	5320	19.720	5309.960	5329.680	---	---
	Ant1	5500	19.840	5489.720	5509.560	---	---
	Ant2	5500	20.600	5489.680	5510.280	---	---
	Ant1	5580	19.800	5569.680	5589.480	---	---
	Ant2	5580	19.760	5569.880	5589.640	---	---
	Ant1	5700	19.400	5690.160	5709.560	---	---
	Ant2	5700	19.400	5690.080	5709.480	---	---
	Ant1	5720	19.840	5709.800	5729.640	---	---
	Ant2	5720	18.960	5710.560	5729.520	---	---
	Ant1	5720 UNII-2C	15.2	5709.800	5725	---	---
	Ant2	5720 UNII-2C	14.44	5710.560	5725	---	---
	Ant1	5720 UNII-3	4.64	5725	5729.640	---	---
	Ant2	5720 UNII-3	4.52	5725	5729.520	---	---
	Ant1	5745	19.760	5734.720	5754.480	---	---
	Ant2	5745	18.880	5735.560	5754.440	---	---
	Ant1	5785	19.920	5774.840	5794.760	---	---
	Ant2	5785	19.080	5775.520	5794.600	---	---
	Ant1	5825	18.920	5815.680	5834.600	---	---
	Ant2	5825	19.040	5815.520	5834.560	---	---
11N20MIMO	Ant1	5180	20.640	5169.480	5190.120	---	---
	Ant2	5180	20.360	5169.880	5190.240	---	---
	Ant1	5200	20.880	5189.560	5210.440	---	---
	Ant2	5200	20.320	5189.720	5210.040	---	---
	Ant1	5240	20.440	5229.960	5250.400	---	---
	Ant2	5240	21.200	5229.760	5250.960	---	---
	Ant1	5260	20.600	5249.560	5270.160	---	---
	Ant2	5260	20.280	5249.720	5270.000	---	---
	Ant1	5280	20.800	5269.600	5290.400	---	---



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	Ant2	5280	20.600	5269.480	5290.080	---	---
	Ant1	5300	20.680	5289.680	5310.360	---	---
	Ant2	5300	20.440	5289.680	5310.120	---	---
	Ant1	5320	20.760	5309.520	5330.280	---	---
	Ant2	5320	20.400	5309.880	5330.280	---	---
	Ant1	5500	20.520	5489.720	5510.240	---	---
	Ant2	5500	20.680	5489.600	5510.280	---	---
	Ant1	5580	20.360	5569.720	5590.080	---	---
	Ant2	5580	20.760	5569.720	5590.480	---	---
	Ant1	5700	20.840	5689.600	5710.440	---	---
	Ant2	5700	20.240	5689.920	5710.160	---	---
	Ant1	5720	20.640	5709.720	5730.360	---	---
	Ant2	5720	20.600	5709.600	5730.200	---	---
	Ant1	5720 UNII-2C	15.28	5709.720	5725	---	---
	Ant2	5720 UNII-2C	15.4	5709.600	5725	---	---
	Ant1	5720 UNII-3	5.36	5725	5730.360	---	---
	Ant2	5720 UNII-3	5.2	5725	5730.200	---	---
	Ant1	5745	20.800	5734.600	5755.400	---	---
	Ant2	5745	20.520	5734.760	5755.280	---	---
	Ant1	5785	20.800	5774.560	5795.360	---	---
	Ant2	5785	19.960	5775.120	5795.080	---	---
	Ant1	5825	20.320	5814.880	5835.200	---	---
	Ant2	5825	19.760	5815.280	5835.040	---	---
11N40MIMO	Ant1	5190	39.920	5169.920	5209.840	---	---
	Ant2	5190	39.840	5170.160	5210.000	---	---
	Ant1	5230	39.760	5210.000	5249.760	---	---
	Ant2	5230	39.680	5210.240	5249.920	---	---
	Ant1	5270	40.000	5250.080	5290.080	---	---
	Ant2	5270	39.680	5250.000	5289.680	---	---
	Ant1	5310	39.520	5290.240	5329.760	---	---
	Ant2	5310	39.680	5290.080	5329.760	---	---
	Ant1	5510	39.520	5490.240	5529.760	---	---
	Ant2	5510	39.600	5490.240	5529.840	---	---
	Ant1	5550	39.440	5530.400	5569.840	---	---
	Ant2	5550	39.920	5530.080	5570.000	---	---
	Ant1	5670	39.920	5650.080	5690.000	---	---
	Ant2	5670	39.360	5650.480	5689.840	---	---
	Ant1	5710	39.840	5689.840	5729.680	---	---
	Ant2	5710	39.680	5690.320	5730.000	---	---
	Ant1	5710 UNII-2C	35.16	5689.840	5725	---	---
	Ant2	5710 UNII-2C	34.68	5690.320	5725	---	---
	Ant1	5710 UNII-3	4.68	5725	5729.680	---	---
	Ant2	5710 UNII-3	5	5725	5730.000	---	---
	Ant1	5755	40.000	5735.080	5775.080	---	---
	Ant2	5755	39.360	5735.560	5774.920	---	---
	Ant1	5795	39.040	5775.560	5814.600	---	---
	Ant2	5795	39.440	5775.560	5815.000	---	---
11AC80MIMO	Ant1	5210	81.760	5169.360	5251.120	---	---
	Ant2	5210	81.760	5168.880	5250.640	---	---
	Ant1	5290	82.240	5248.880	5331.120	---	---
	Ant2	5290	82.240	5249.200	5331.440	---	---
	Ant1	5530	82.080	5489.040	5571.120	---	---



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	Ant2	5530	81.920	5488.880	5570.800	---	---
	Ant1	5610	82.240	5568.720	5650.960	---	---
	Ant2	5610	81.600	5569.520	5651.120	---	---
	Ant1	5690	81.920	5649.040	5730.960	---	---
	Ant2	5690	80.960	5649.520	5730.480	---	---
	Ant1	5690 UNII-2C	75.96	5649.040	5725	---	---
	Ant2	5690 UNII-2C	75.48	5649.520	5725	---	---
	Ant1	5690 UNII-3	5.96	5725	5730.960	---	---
	Ant2	5690 UNII-3	5.48	5725	5730.480	---	---
	Ant1	5775	82.400	5733.400	5815.800	---	---
	Ant2	5775	80.480	5735.000	5815.480	---	---
11AX20MIMO	Ant1	5180	21.000	5169.520	5190.520	---	---
	Ant2	5180	20.720	5169.720	5190.440	---	---
	Ant1	5200	21.240	5189.360	5210.600	---	---
	Ant2	5200	20.880	5189.560	5210.440	---	---
	Ant1	5240	21.000	5229.560	5250.560	---	---
	Ant2	5240	20.760	5229.560	5250.320	---	---
	Ant1	5260	20.760	5249.680	5270.440	---	---
	Ant2	5260	21.040	5249.600	5270.640	---	---
	Ant1	5300	21.000	5289.520	5310.520	---	---
	Ant2	5300	21.120	5289.360	5310.480	---	---
	Ant1	5320	21.200	5309.440	5330.640	---	---
	Ant2	5320	21.160	5309.320	5330.480	---	---
	Ant1	5500	20.520	5489.640	5510.160	---	---
	Ant2	5500	20.880	5489.640	5510.520	---	---
	Ant1	5580	20.840	5569.720	5590.560	---	---
	Ant2	5580	21.200	5569.280	5590.480	---	---
	Ant1	5700	21.120	5689.400	5710.520	---	---
	Ant2	5700	20.320	5689.960	5710.280	---	---
	Ant1	5720	20.600	5709.760	5730.360	---	---
	Ant2	5720	20.320	5709.920	5730.240	---	---
	Ant1	5720 UNII-2C	15.24	5709.760	5725	---	---
	Ant2	5720 UNII-2C	15.08	5709.920	5725	---	---
	Ant1	5720 UNII-3	5.36	5725	5730.360	---	---
	Ant2	5720 UNII-3	5.24	5725	5730.240	---	---
	Ant1	5745	21.280	5734.320	5755.600	---	---
	Ant2	5745	20.400	5734.840	5755.240	---	---
	Ant1	5785	20.760	5774.560	5795.320	---	---
	Ant2	5785	20.840	5774.600	5795.440	---	---
	Ant1	5825	21.000	5814.440	5835.440	---	---
	Ant2	5825	20.640	5814.760	5835.400	---	---
11AX40MIMO	Ant1	5190	40.400	5169.760	5210.160	---	---
	Ant2	5190	40.160	5169.920	5210.080	---	---
	Ant1	5230	40.640	5209.760	5250.400	---	---
	Ant2	5230	40.640	5209.840	5250.480	---	---
	Ant1	5270	40.640	5249.680	5290.320	---	---
	Ant2	5270	39.840	5250.000	5289.840	---	---
	Ant1	5310	40.160	5289.920	5330.080	---	---
	Ant2	5310	40.240	5290.000	5330.240	---	---
	Ant1	5510	40.240	5490.000	5530.240	---	---
	Ant2	5510	40.400	5489.680	5530.080	---	---
	Ant1	5550	40.240	5529.920	5570.160	---	---



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	Ant2	5550	40.080	5530.000	5570.080	---	---
	Ant1	5670	39.920	5650.000	5689.920	---	---
	Ant2	5670	40.160	5650.000	5690.160	---	---
	Ant1	5710	40.480	5689.680	5730.160	---	---
	Ant2	5710	39.920	5690.240	5730.160	---	---
	Ant1	5710 UNII-2C	35.32	5689.680	5725	---	---
	Ant2	5710 UNII-2C	34.76	5690.240	5725	---	---
	Ant1	5710 UNII-3	5.16	5725	5730.160	---	---
	Ant2	5710 UNII-3	5.16	5725	5730.160	---	---
	Ant1	5755	40.320	5734.920	5775.240	---	---
	Ant2	5755	40.400	5735.080	5775.480	---	---
	Ant1	5795	40.000	5775.000	5815.000	---	---
11AX80MIMO	Ant2	5795	39.920	5775.080	5815.000	---	---
	Ant1	5210	82.240	5168.720	5250.960	---	---
	Ant2	5210	81.920	5169.360	5251.280	---	---
	Ant1	5290	82.880	5248.560	5331.440	---	---
	Ant2	5290	81.440	5249.200	5330.640	---	---
	Ant1	5530	81.600	5489.360	5570.960	---	---
	Ant2	5530	82.400	5488.720	5571.120	---	---
	Ant1	5610	81.600	5569.200	5650.800	---	---
	Ant2	5610	81.600	5569.200	5650.800	---	---
	Ant1	5690	82.720	5648.560	5731.280	---	---
	Ant2	5690	82.400	5649.040	5731.440	---	---
	Ant1	5690 UNII-2C	76.44	5648.560	5725	---	---
	Ant2	5690 UNII-2C	75.96	5649.040	5725	---	---
	Ant1	5690 UNII-3	6.28	5725	5731.280	---	---
	Ant2	5690 UNII-3	6.44	5725	5731.440	---	---
	Ant1	5775	81.760	5734.040	5815.800	---	---
	Ant2	5775	80.960	5734.360	5815.320	---	---

TEST GRAPHS



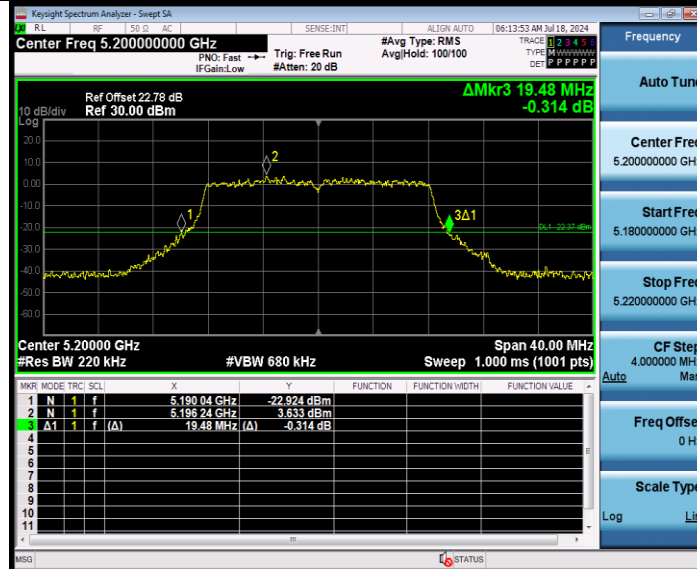


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11A-CDD Ant2 5200



11A-CDD Ant1 5240



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Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5240



11A-CDD Ant1 5260

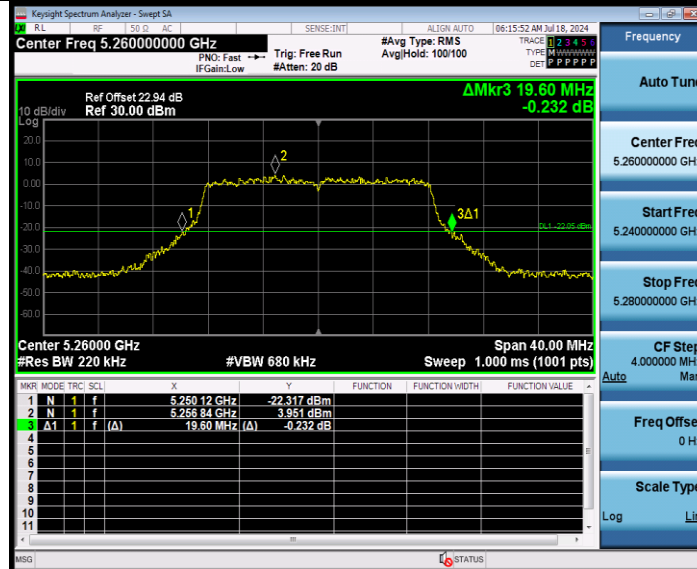


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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5260



11A-CDD Ant1 5280



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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5280



11A-CDD Ant1 5300

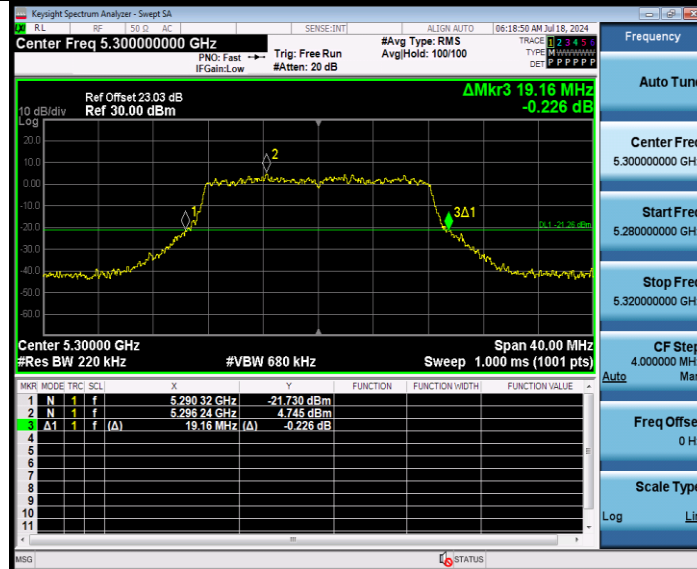


BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5300

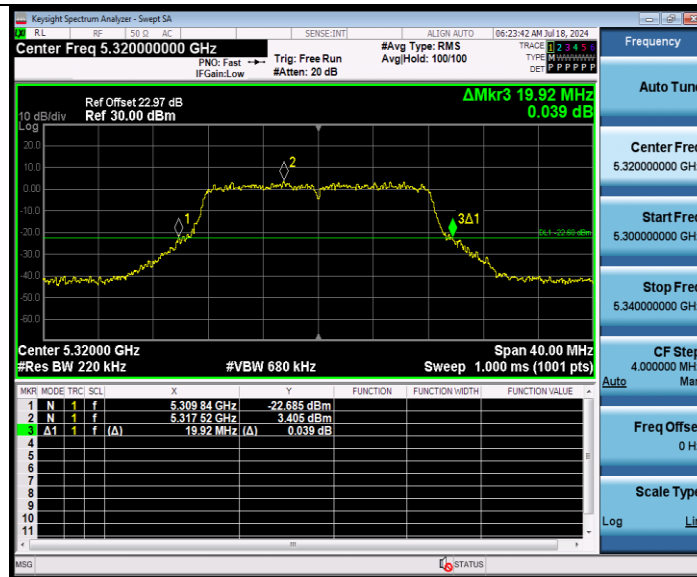


11A-CDD Ant1 5320



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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5320



11A-CDD Ant1 5500

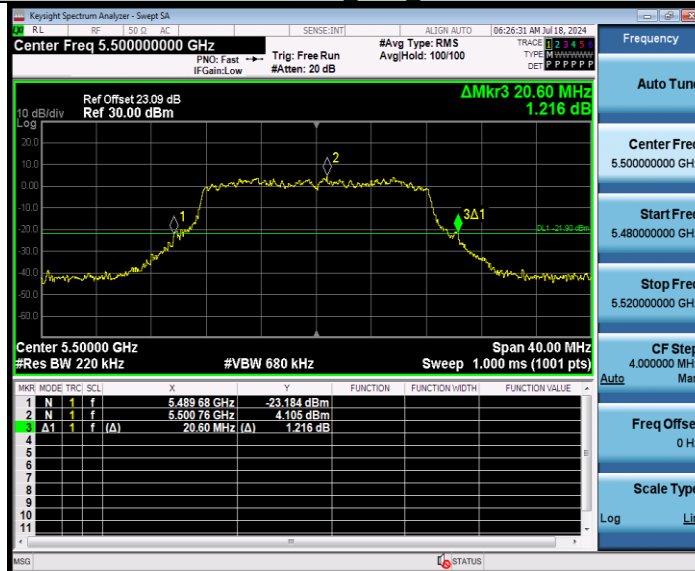


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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5500



11A-CDD Ant1 5580

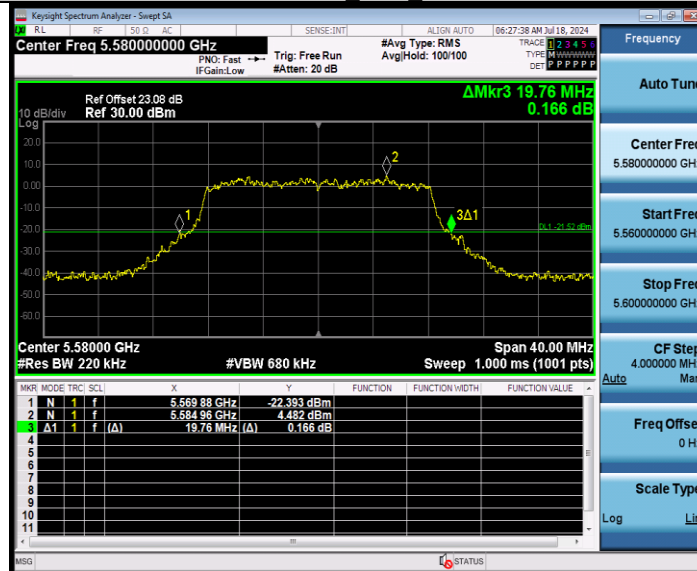


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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5580



11A-CDD Ant1 5700



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VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5700



11A-CDD Ant1 5720



BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5720

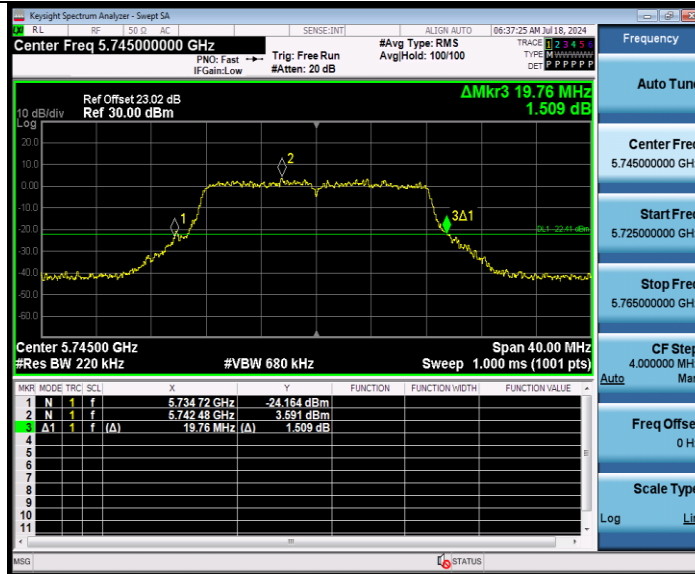


11A-CDD Ant1 5745

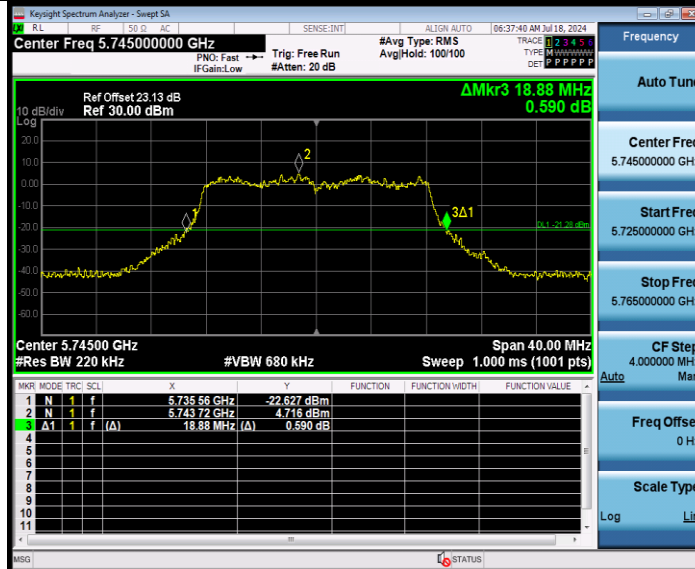


BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5745



11A-CDD Ant1 5785



BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5785



11A-CDD Ant1 5825

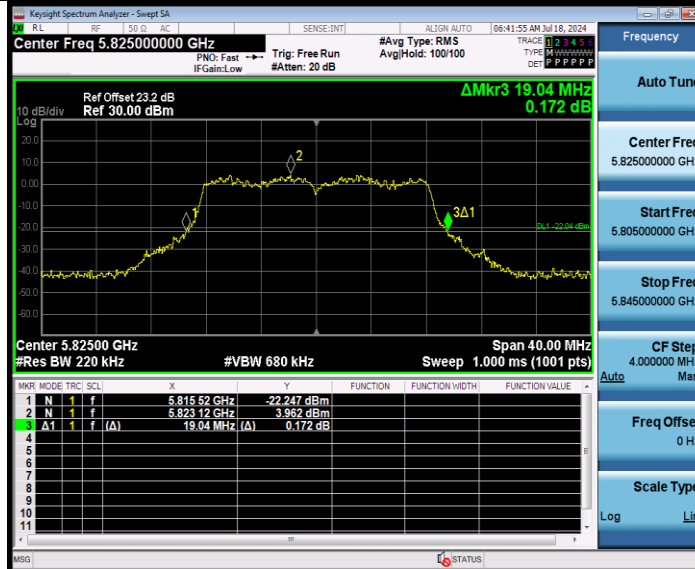


BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11A-CDD Ant2 5825



11N20MIMO Ant1 5180



BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11N20MIMO Ant2 5180



11N20MIMO Ant1 5200



BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11N20MIMO Ant2 5200



11N20MIMO Ant1 5240

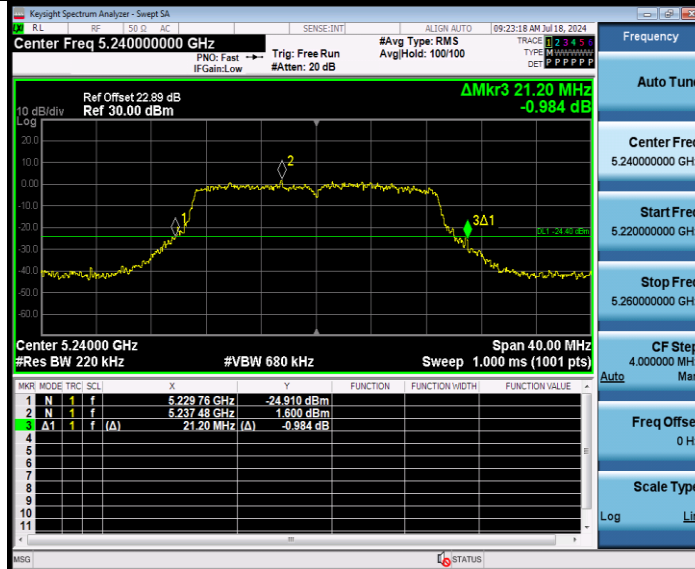


BUREAU
VERITAS

Reference No.: W7L-P24050018RF03



11N20MIMO Ant2 5240



11N20MIMO Ant1 5260