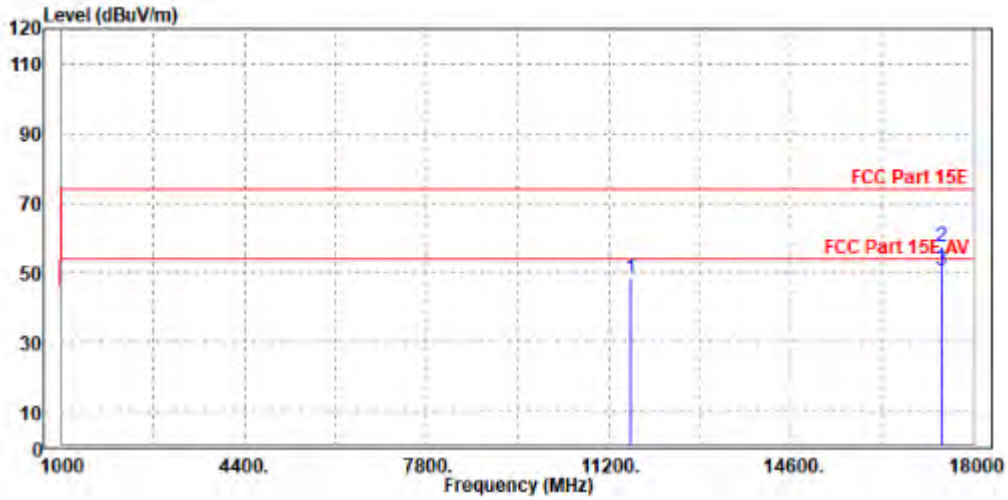
802.11ax (40MHz) (RU484):

Worst case harmonic:

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

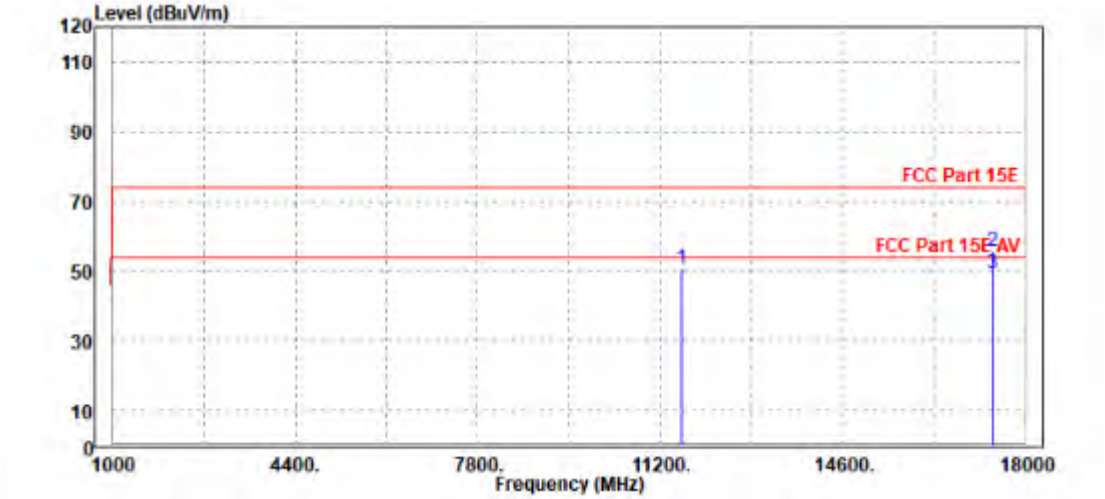
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11591.000	48.45	39.11	74.00	-25.55	9.34	Peak	Horizontal
2	PK17385.000	57.68	39.35	74.00	-16.32	18.33	Peak	Horizontal
3	PP17385.000	50.81	32.48	54.00	-3.19	18.33	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	11590.000	50.83	41.00	74.00	-23.17	9.83	Peak	Vertical
2	PK17388.000	55.56	38.41	74.00	-18.44	17.15	Peak	Vertical
3	PP17388.000	49.23	32.08	54.00	-4.77	17.15	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: 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 (dBμV)	
	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. 15,22	Feb. 14,23
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 04,22	Mar. 03,23

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.

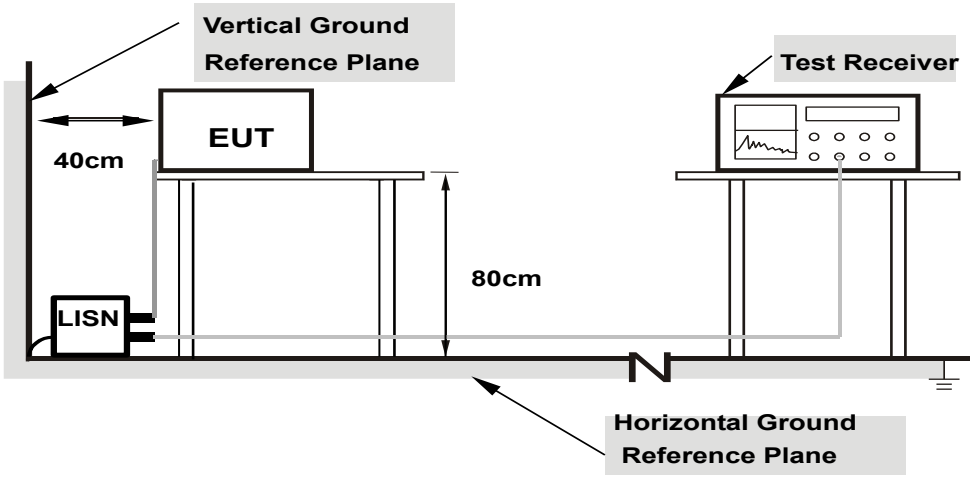
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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.

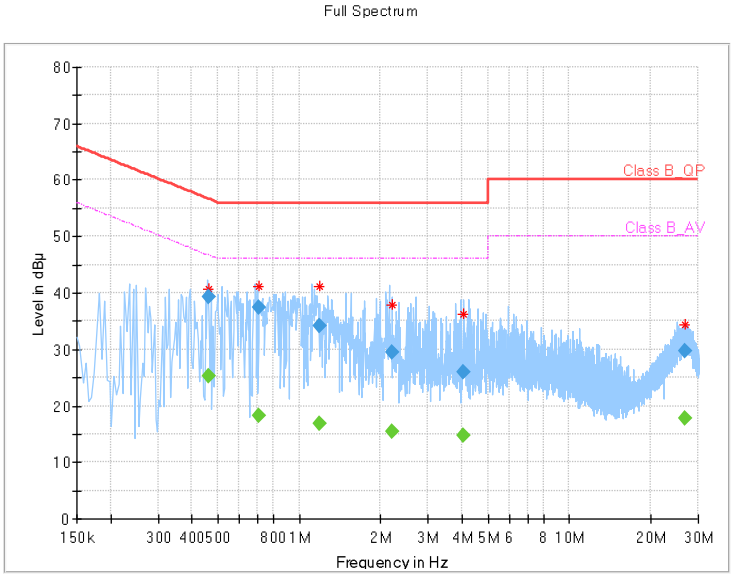
3.2.7 TEST RESULTS

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)
0.460000	---	25.21	46.69	21.48	L1	ON	9.7
0.460000	39.34	---	56.69	17.35	L1	ON	9.7
0.712000	---	18.32	46.00	27.68	L1	ON	9.7
0.712000	37.52	---	56.00	18.48	L1	ON	9.7
1.188000	---	16.78	46.00	29.22	L1	ON	9.7
1.188000	34.11	---	56.00	21.89	L1	ON	9.7
2.208000	---	15.50	46.00	30.50	L1	ON	9.7
2.208000	29.41	---	56.00	26.59	L1	ON	9.7
4.044000	---	14.67	46.00	31.33	L1	ON	9.7
4.044000	25.99	---	56.00	30.01	L1	ON	9.7
26.868000	---	17.89	50.00	32.11	L1	ON	9.8
26.868000	29.68	---	60.00	30.32	L1	ON	9.8

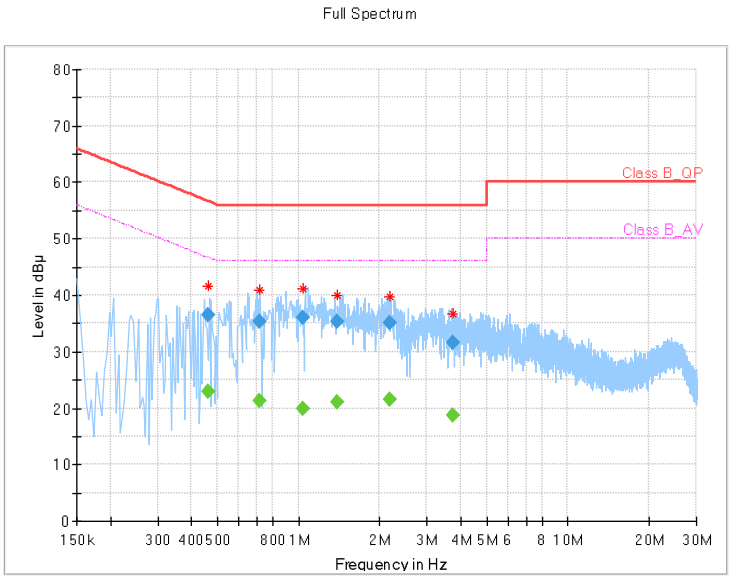
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit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



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)
0.460000	---	22.92	46.69	23.77	N	ON	9.7
0.460000	36.40	---	56.69	20.29	N	ON	9.7
0.714000	---	21.35	46.00	24.65	N	ON	9.7
0.714000	35.21	---	56.00	20.79	N	ON	9.7
1.044000	---	19.86	46.00	26.14	N	ON	9.8
1.044000	36.12	---	56.00	19.88	N	ON	9.8
1.396000	---	20.96	46.00	25.04	N	ON	9.8
1.396000	35.34	---	56.00	20.66	N	ON	9.8
2.192000	---	21.41	46.00	24.59	N	ON	9.8
2.192000	35.17	---	56.00	20.83	N	ON	9.8
3.740000	---	18.70	46.00	27.30	N	ON	9.8
3.740000	31.65	---	56.00	24.35	N	ON	9.8

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.



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

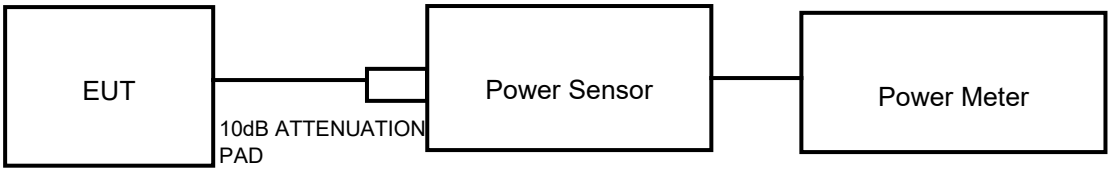
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	B	Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
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.

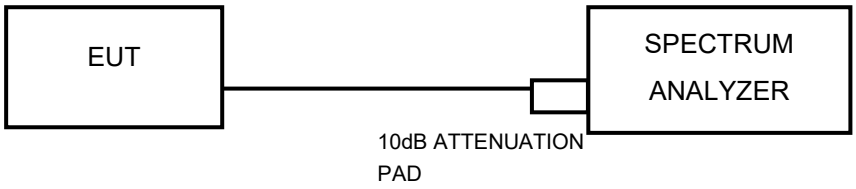
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

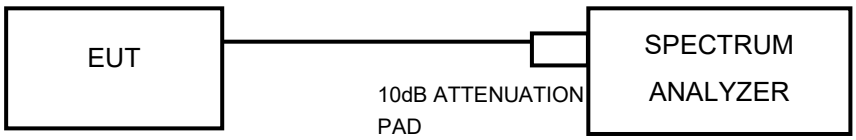
802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) TEST CONFIGURATION



802.11ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 06,22	May. 05,23

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, 802.11 n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz)

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 802.11ac/ax (80MHz)

1. Measure the duty cycle, x, of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add 10 log (1/x), where x is the duty cycle, to the measured power 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). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is 25%.

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 ≥ 3 · 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%.

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.

3.3.7 TEST RESULTS

Please Refer to Appendix A/B Of this test report.

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 ≥ 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 ≥ 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(500kHz/RBW) to the test result. 10 log(500kHz/300KHZ) = 2.22dBm
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.

3.4.7 TEST RESULTS

Please Refer to Appendix A/B Of this test report.

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 signalling 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 transmit 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

Accoring 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≤ 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.

5GHz Band1/2 3/4	Ant 1 (dBi)	Ant 2 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	-3.00	-1.80	-1.80	0.63	0.00	0.00

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.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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.

6 APPENDIX A: RLAN

EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	19.160	5170.400	5189.560	---	---
	Ant2	5180	19.240	5170.320	5189.560	---	---
	Ant1	5200	19.200	5190.360	5209.560	---	---
	Ant2	5200	19.480	5190.320	5209.800	---	---
	Ant1	5240	18.960	5230.600	5249.560	---	---
	Ant2	5240	19.480	5230.480	5249.960	---	---
	Ant1	5260	19.440	5250.160	5269.600	---	---
	Ant2	5260	19.240	5250.400	5269.640	---	---
	Ant1	5300	19.240	5290.240	5309.480	---	---
	Ant2	5300	19.200	5290.400	5309.600	---	---
	Ant1	5320	19.240	5310.160	5329.400	---	---
	Ant2	5320	19.400	5310.240	5329.640	---	---
	Ant1	5500	19.480	5490.040	5509.520	---	---
	Ant2	5500	19.160	5490.440	5509.600	---	---
	Ant1	5580	19.400	5570.000	5589.400	---	---
	Ant2	5580	19.080	5570.520	5589.600	---	---
	Ant1	5700	19.120	5690.480	5709.600	---	---
	Ant2	5700	19.080	5690.520	5709.600	---	---
	Ant1	5720	19.320	5710.240	5729.560	---	---
	Ant2	5720	19.320	5710.280	5729.600	---	---
	Ant1	5720_UNII-2C	14.76	5710.240	5725	---	---
	Ant2	5720_UNII-2C	14.72	5710.280	5725	---	---
	Ant1	5720_UNII-3	4.56	5725	5729.560	---	---
	Ant2	5720_UNII-3	4.6	5725	5729.600	---	---
	Ant1	5745	19.400	5735.160	5754.560	---	---
	Ant2	5745	19.440	5735.160	5754.600	---	---
	Ant1	5785	19.360	5775.280	5794.640	---	---
	Ant2	5785	19.200	5775.280	5794.480	---	---
	Ant1	5825	19.160	5815.360	5834.520	---	---
	Ant2	5825	19.040	5815.440	5834.480	---	---

	Ant1	5180	20.600	5169.840	5190.440	---	---
	Ant2	5180	20.400	5169.800	5190.200	---	---
	Ant1	5200	20.960	5189.400	5210.360	---	---
	Ant2	5200	20.280	5189.920	5210.200	---	---
	Ant1	5240	20.480	5229.760	5250.240	---	---
	Ant2	5240	20.240	5229.880	5250.120	---	---
	Ant1	5260	20.600	5249.800	5270.400	---	---
	Ant2	5260	20.320	5249.680	5270.000	---	---
	Ant1	5300	20.200	5289.880	5310.080	---	---
	Ant2	5300	20.120	5290.000	5310.120	---	---
	Ant1	5320	20.120	5309.960	5330.080	---	---
	Ant2	5320	20.200	5309.800	5330.000	---	---
	Ant1	5500	20.320	5489.880	5510.200	---	---
	Ant2	5500	20.280	5489.840	5510.120	---	---
	Ant1	5580	20.400	5569.880	5590.280	---	---
11N20MIMO	Ant2	5580	20.320	5569.720	5590.040	---	---
	Ant1	5700	20.440	5689.840	5710.280	---	---
	Ant2	5700	20.280	5689.760	5710.040	---	---
	Ant1	5720	20.600	5709.640	5730.240	---	---
	Ant2	5720	20.360	5709.960	5730.320	---	---
	Ant1	5720_UNII-2C	15.36	5709.640	5725	---	---
	Ant2	5720_UNII-2C	15.04	5709.960	5725	---	---
	Ant1	5720_UNII-3	5.24	5725	5730.240	---	---
	Ant2	5720_UNII-3	5.32	5725	5730.320	---	---
	Ant1	5745	20.320	5734.880	5755.200	---	---
	Ant2	5745	20.120	5734.840	5754.960	---	---
	Ant1	5785	20.280	5774.880	5795.160	---	---
	Ant2	5785	20.080	5775.000	5795.080	---	---
	Ant1	5825	20.440	5814.720	5835.160	---	---
	Ant2	5825	20.080	5815.000	5835.080	---	---
	Ant1	5190	40.080	5169.760	5209.840	---	---
	Ant2	5190	39.920	5170.240	5210.160	---	---
11N40MIMO	Ant1	5230	40.240	5209.840	5250.080	---	---
	Ant2	5230	40.080	5210.000	5250.080	---	---
	Ant1	5270	39.920	5250.000	5289.920	---	---

	Ant2	5270	40.240	5249.760	5290.000	---	---
	Ant1	5310	40.160	5289.920	5330.080	---	---
	Ant2	5310	40.000	5289.760	5329.760	---	---
	Ant1	5510	40.080	5490.000	5530.080	---	---
	Ant2	5510	40.160	5490.240	5530.400	---	---
	Ant1	5550	39.440	5530.480	5569.920	---	---
	Ant2	5550	40.400	5529.680	5570.080	---	---
	Ant1	5670	40.000	5650.160	5690.160	---	---
	Ant2	5670	39.840	5649.920	5689.760	---	---
	Ant1	5710	40.080	5690.240	5730.320	---	---
	Ant2	5710	39.680	5689.920	5729.600	---	---
	Ant1	5710_UNII-2C	34.76	5690.240	5725	---	---
	Ant2	5710_UNII-2C	35.08	5689.920	5725	---	---
	Ant1	5710_UNII-3	5.32	5725	5730.320	---	---
	Ant2	5710_UNII-3	4.6	5725	5729.600	---	---
	Ant1	5755	40.240	5735.320	5775.560	---	---
	Ant2	5755	39.760	5735.000	5774.760	---	---
	Ant1	5795	39.920	5775.080	5815.000	---	---
	Ant2	5795	39.600	5775.000	5814.600	---	---
11AC20MIMO	Ant1	5180	20.760	5169.480	5190.240	---	---
	Ant2	5180	20.440	5169.760	5190.200	---	---
	Ant1	5200	20.080	5190.080	5210.160	---	---
	Ant2	5200	19.960	5190.000	5209.960	---	---
	Ant1	5240	20.440	5229.800	5250.240	---	---
	Ant2	5240	20.360	5229.880	5250.240	---	---
	Ant1	5260	20.200	5249.840	5270.040	---	---
	Ant2	5260	20.680	5249.600	5270.280	---	---
	Ant1	5300	20.080	5290.000	5310.080	---	---
	Ant2	5300	19.960	5290.040	5310.000	---	---
	Ant1	5320	20.480	5309.880	5330.360	---	---
	Ant2	5320	20.640	5309.720	5330.360	---	---
	Ant1	5500	20.440	5489.760	5510.200	---	---
	Ant2	5500	20.360	5489.840	5510.200	---	---
	Ant1	5580	20.360	5569.760	5590.120	---	---
	Ant2	5580	20.360	5569.800	5590.160	---	---

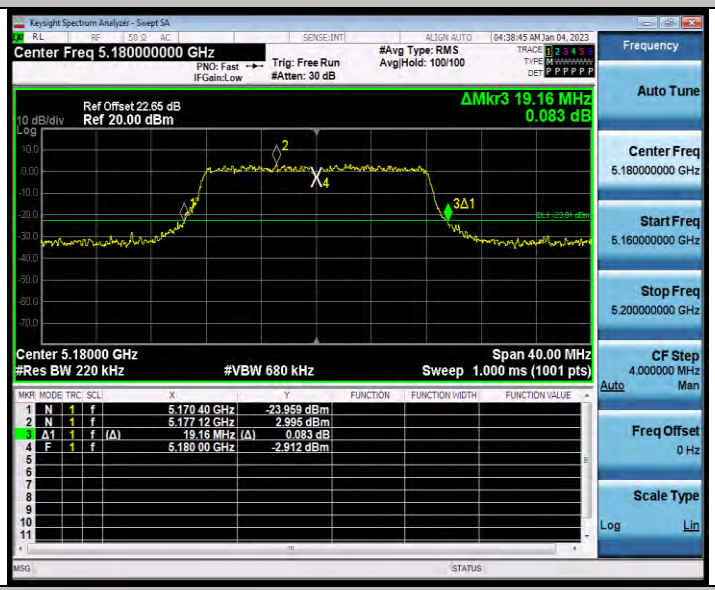
	Ant1	5700	20.240	5689.960	5710.200	---	---
	Ant2	5700	20.600	5689.760	5710.360	---	---
	Ant1	5720	20.040	5710.200	5730.240	---	---
	Ant2	5720	20.000	5709.960	5729.960	---	---
	Ant1	5720_UNII-2C	14.8	5710.200	5725	---	---
	Ant2	5720_UNII-2C	15.04	5709.960	5725	---	---
	Ant1	5720_UNII-3	5.24	5725	5730.240	---	---
	Ant2	5720_UNII-3	4.96	5725	5729.960	---	---
	Ant1	5745	19.960	5735.040	5755.000	---	---
	Ant2	5745	20.240	5734.680	5754.920	---	---
	Ant1	5785	20.920	5774.520	5795.440	---	---
	Ant2	5785	20.400	5774.640	5795.040	---	---
	Ant1	5825	20.280	5815.080	5835.360	---	---
	Ant2	5825	19.960	5815.040	5835.000	---	---
11AC40MIMO	Ant1	5190	40.560	5169.760	5210.320	---	---
	Ant2	5190	40.000	5170.080	5210.080	---	---
	Ant1	5230	40.160	5210.000	5250.160	---	---
	Ant2	5230	39.840	5210.160	5250.000	---	---
	Ant1	5270	41.120	5249.520	5290.640	---	---
	Ant2	5270	40.080	5249.840	5289.920	---	---
	Ant1	5310	41.120	5288.880	5330.000	---	---
	Ant2	5310	39.760	5290.240	5330.000	---	---
	Ant1	5510	51.600	5489.600	5541.200	---	---
	Ant2	5510	40.240	5489.840	5530.080	---	---
	Ant1	5550	40.000	5529.920	5569.920	---	---
	Ant2	5550	40.000	5530.080	5570.080	---	---
	Ant1	5670	40.400	5650.160	5690.560	---	---
	Ant2	5670	40.080	5649.840	5689.920	---	---
	Ant1	5710	40.000	5690.000	5730.000	---	---
	Ant2	5710	40.160	5690.240	5730.400	---	---
	Ant1	5710_UNII-2C	35	5690.000	5725	---	---
	Ant2	5710_UNII-2C	34.76	5690.240	5725	---	---
	Ant1	5710_UNII-3	5	5725	5730.000	---	---
	Ant2	5710_UNII-3	5.4	5725	5730.400	---	---
	Ant1	5755	40.320	5734.760	5775.080	---	---

	Ant2	5755	39.840	5735.080	5774.920	---	---
	Ant1	5795	40.960	5774.760	5815.720	---	---
	Ant2	5795	39.760	5775.080	5814.840	---	---
11AC80MIMO	Ant1	5210	160.000	5130.000	5290.000	---	---
	Ant2	5210	159.840	5130.160	5290.000	---	---
	Ant1	5290	158.560	5210.000	5368.560	---	---
	Ant2	5290	160.000	5210.000	5370.000	---	---
	Ant1	5530	159.520	5450.480	5610.000	---	---
	Ant2	5530	160.000	5450.000	5610.000	---	---
	Ant1	5610	159.520	5530.480	5690.000	---	---
	Ant2	5610	160.000	5530.000	5690.000	---	---
	Ant1	5690	160.000	5610.000	5770.000	---	---
	Ant2	5690	156.640	5612.560	5769.200	---	---
	Ant1	5690_UNII-2C	115	5610.000	5725	---	---
	Ant2	5690_UNII-2C	112.44	5612.560	5725	---	---
	Ant1	5690_UNII-3	45	5725	5770.000	---	---
	Ant2	5690_UNII-3	44.2	5725	5769.200	---	---
	Ant1	5775	159.840	5695.000	5854.840	---	---
	Ant2	5775	154.080	5697.400	5851.480	---	---
11AX20MIMO	Ant1	5180	20.680	5169.760	5190.440	---	---
	Ant2	5180	21.360	5169.240	5190.600	---	---
	Ant1	5200	20.960	5189.640	5210.600	---	---
	Ant2	5200	21.000	5189.280	5210.280	---	---
	Ant1	5240	20.440	5229.800	5250.240	---	---
	Ant2	5240	21.000	5229.360	5250.360	---	---
	Ant1	5260	20.960	5249.480	5270.440	---	---
	Ant2	5260	20.840	5249.560	5270.400	---	---
	Ant1	5280	20.640	5269.600	5290.240	---	---
	Ant2	5280	20.760	5269.640	5290.400	---	---
	Ant1	5300	20.960	5289.640	5310.600	---	---
	Ant2	5300	21.280	5289.360	5310.640	---	---
	Ant1	5320	21.440	5309.440	5330.880	---	---
	Ant2	5320	20.760	5309.520	5330.280	---	---
	Ant1	5500	21.480	5489.040	5510.520	---	---
	Ant2	5500	20.640	5489.640	5510.280	---	---

	Ant1	5580	21.040	5569.440	5590.480	---	---
	Ant2	5580	20.680	5569.800	5590.480	---	---
	Ant1	5700	21.160	5689.360	5710.520	---	---
	Ant2	5700	20.720	5689.720	5710.440	---	---
	Ant1	5720	20.880	5709.440	5730.320	---	---
	Ant2	5720	20.800	5709.600	5730.400	---	---
	Ant1	5720_UNII-2C	15.56	5709.440	5725	---	---
	Ant2	5720_UNII-2C	15.4	5709.600	5725	---	---
	Ant1	5720_UNII-3	5.32	5725	5730.320	---	---
	Ant2	5720_UNII-3	5.4	5725	5730.400	---	---
	Ant1	5745	20.600	5734.680	5755.280	---	---
	Ant2	5745	20.480	5734.720	5755.200	---	---
	Ant1	5785	21.200	5774.360	5795.560	---	---
	Ant2	5785	20.800	5774.640	5795.440	---	---
	Ant1	5825	21.160	5814.480	5835.640	---	---
	Ant2	5825	20.440	5814.720	5835.160	---	---
11AX40MIMO	Ant1	5190	40.880	5169.600	5210.480	---	---
	Ant2	5190	40.240	5169.760	5210.000	---	---
	Ant1	5230	40.080	5210.000	5250.080	---	---
	Ant2	5230	40.240	5209.920	5250.160	---	---
	Ant1	5270	40.240	5250.000	5290.240	---	---
	Ant2	5270	40.800	5249.440	5290.240	---	---
	Ant1	5310	40.880	5289.680	5330.560	---	---
	Ant2	5310	40.080	5289.760	5329.840	---	---
	Ant1	5510	40.480	5489.920	5530.400	---	---
	Ant2	5510	40.240	5489.920	5530.160	---	---
	Ant1	5550	40.320	5530.000	5570.320	---	---
	Ant2	5550	48.160	5530.080	5578.240	---	---
	Ant1	5670	40.720	5650.000	5690.720	---	---
	Ant2	5670	40.400	5649.680	5690.080	---	---
	Ant1	5710	40.160	5690.080	5730.240	---	---
	Ant2	5710	42.880	5687.440	5730.320	---	---
	Ant1	5710_UNII-2C	34.92	5690.080	5725	---	---
	Ant2	5710_UNII-2C	37.56	5687.440	5725	---	---
	Ant1	5710_UNII-3	5.24	5725	5730.240	---	---

	Ant2	5710_UNII-3	5.32	5725	5730.320	---	---
	Ant1	5755	40.880	5734.680	5775.560	---	---
	Ant2	5755	40.800	5734.600	5775.400	---	---
	Ant1	5795	40.240	5775.000	5815.240	---	---
	Ant2	5795	40.160	5774.840	5815.000	---	---
11AX80MIMO	Ant1	5210	118.400	5133.520	5251.920	---	---
	Ant2	5210	154.720	5134.640	5289.360	---	---
	Ant1	5290	159.520	5210.000	5369.520	---	---
	Ant2	5290	138.240	5219.440	5357.680	---	---
	Ant1	5530	159.840	5450.160	5610.000	---	---
	Ant2	5530	160.000	5450.000	5610.000	---	---
	Ant1	5610	156.000	5532.400	5688.400	---	---
	Ant2	5610	146.080	5533.200	5679.280	---	---
	Ant1	5690	157.760	5611.280	5769.040	---	---
	Ant2	5690	157.920	5610.000	5767.920	---	---
	Ant1	5690_UNII-2C	113.72	5611.280	5725	---	---
	Ant2	5690_UNII-2C	115	5610.000	5725	---	---
	Ant1	5690_UNII-3	44.04	5725	5769.040	---	---
	Ant2	5690_UNII-3	42.92	5725	5767.920	---	---
	Ant1	5775	159.200	5695.800	5855.000	---	---
	Ant2	5775	130.880	5719.640	5850.520	---	---

TEST GRAPHS

11A-CDD_Ant1_5180

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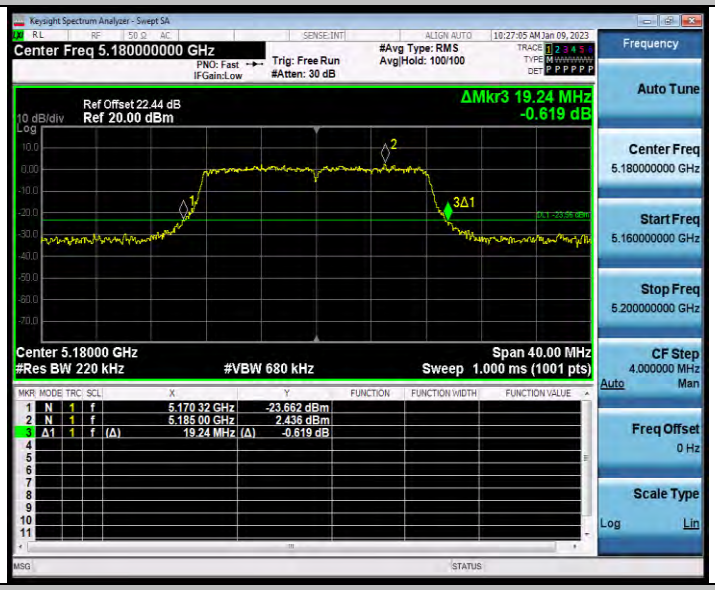
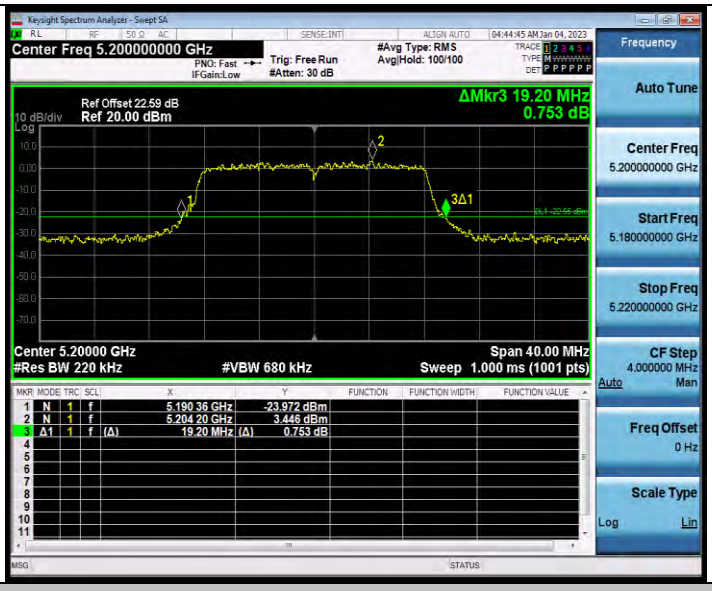

11A-CDD_Ant1_5200



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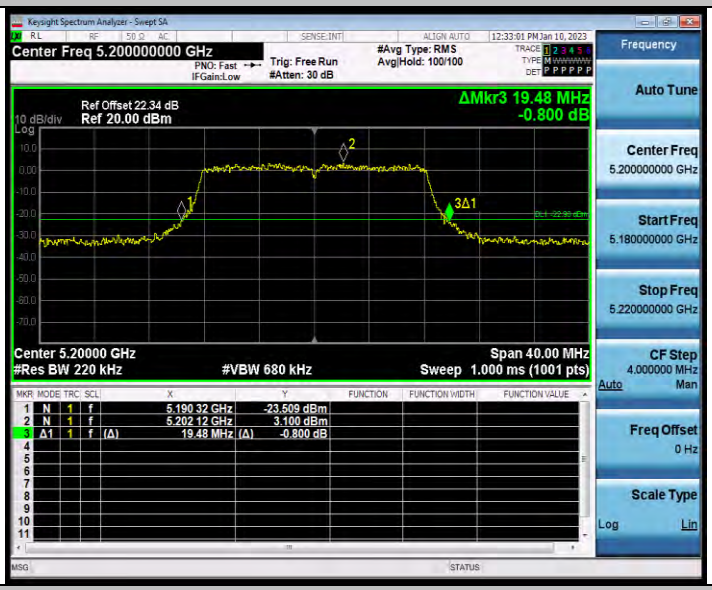

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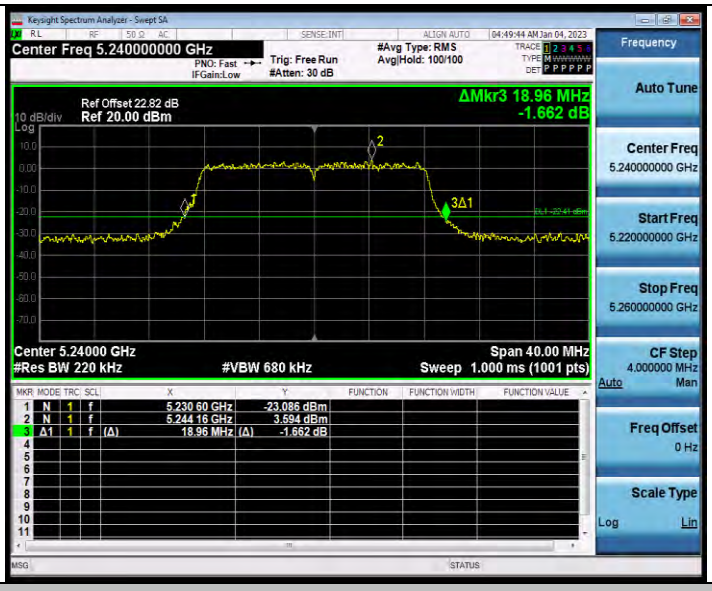

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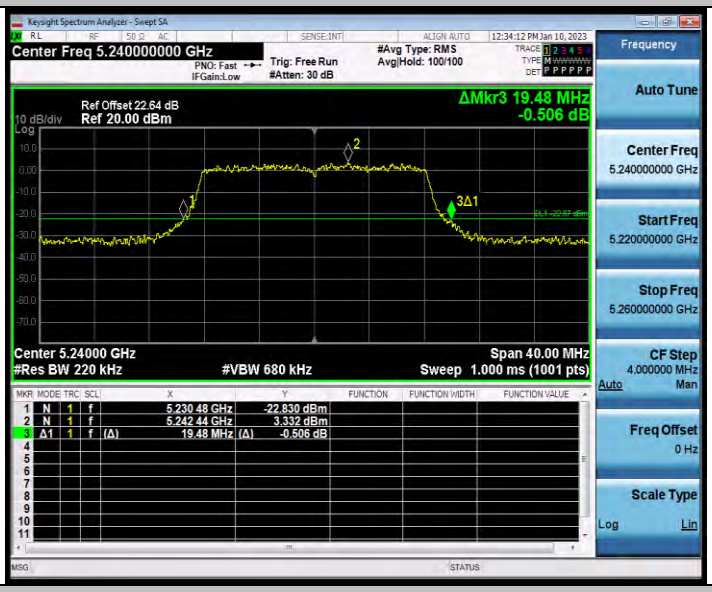

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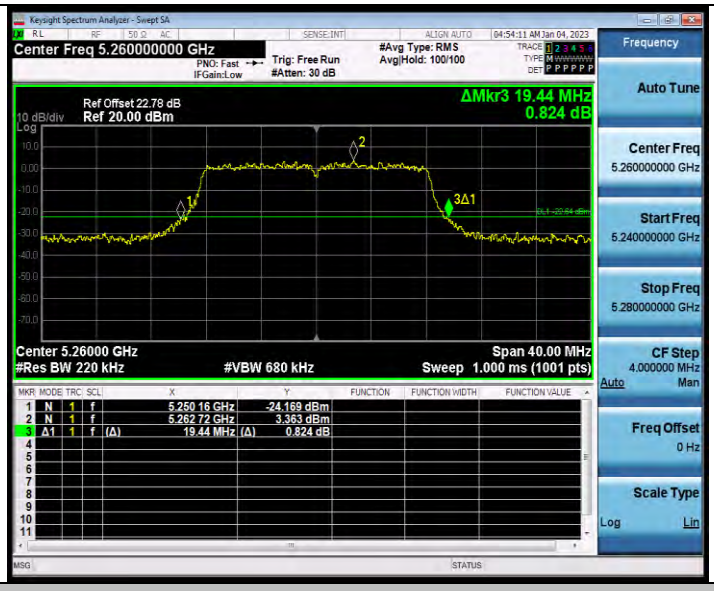

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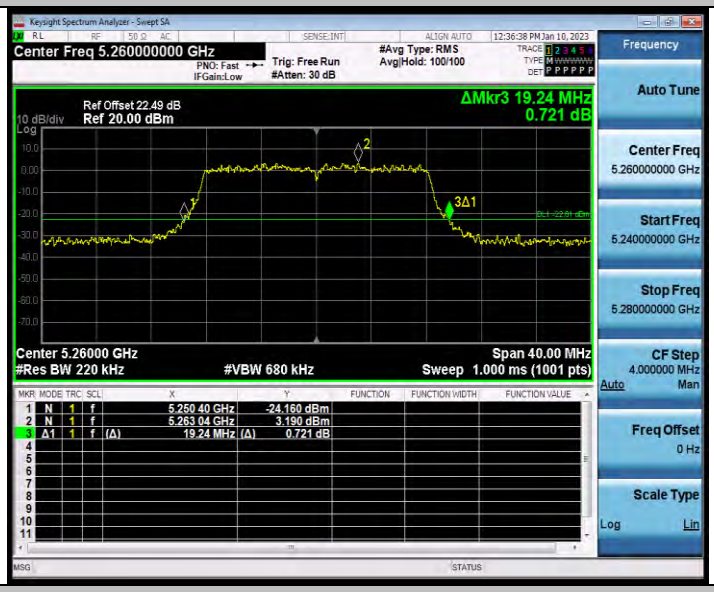
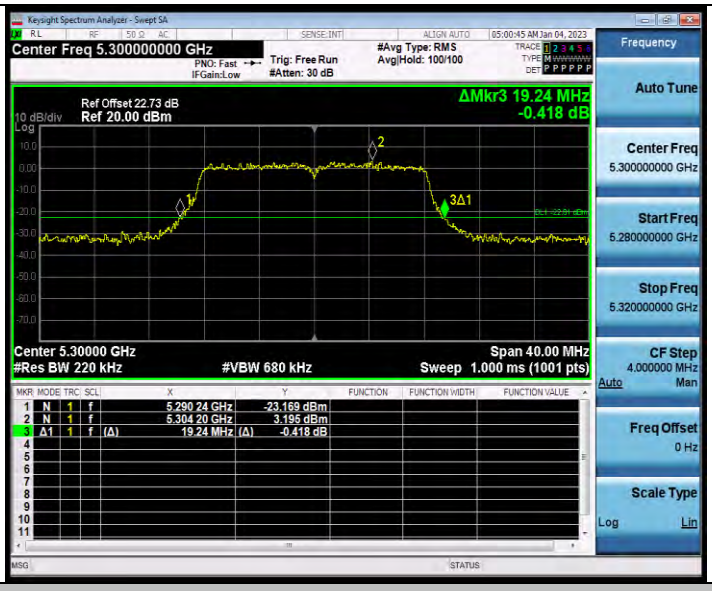
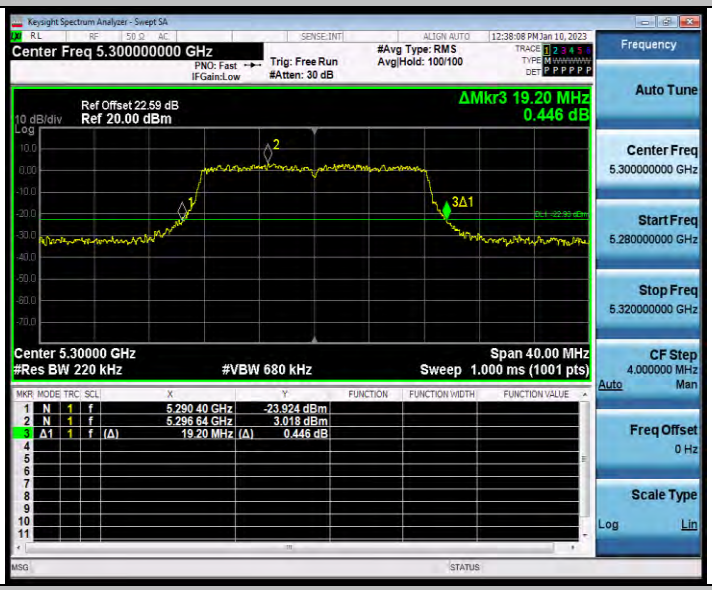


11A-CDD_Ant1_5300



11A-CDD_Ant2_5300



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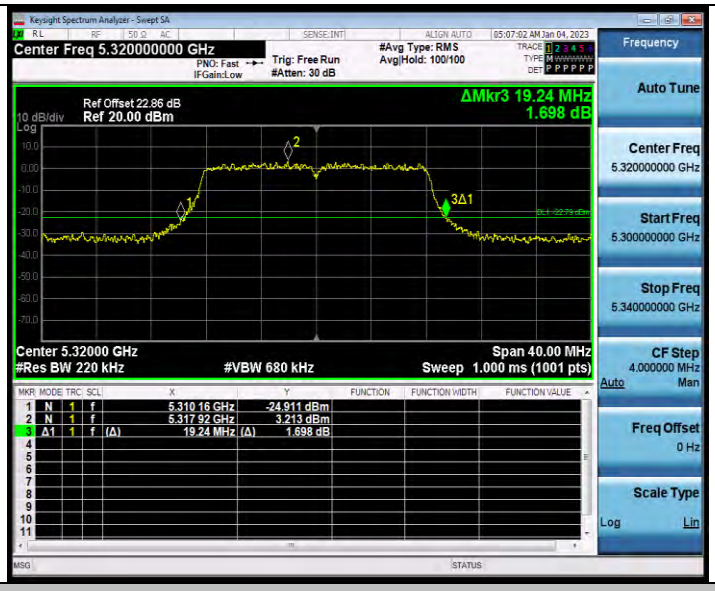
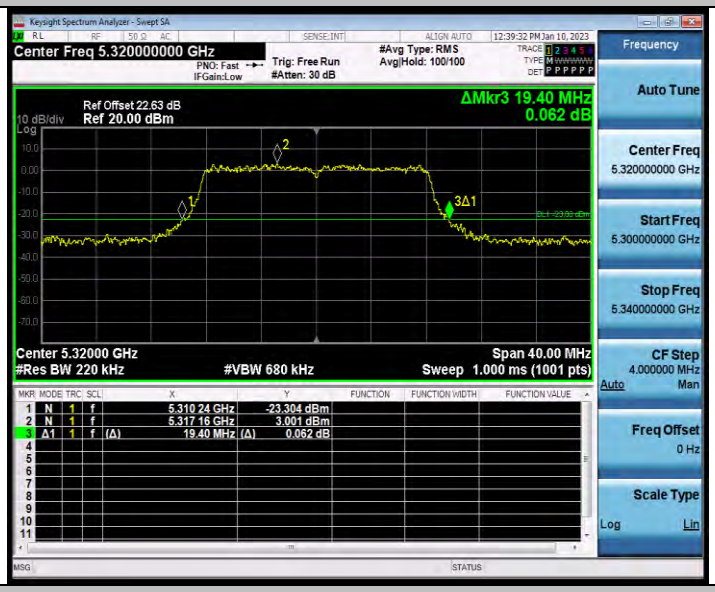


11A-CDD_Ant2_5320



11A-CDD_Ant1_5500