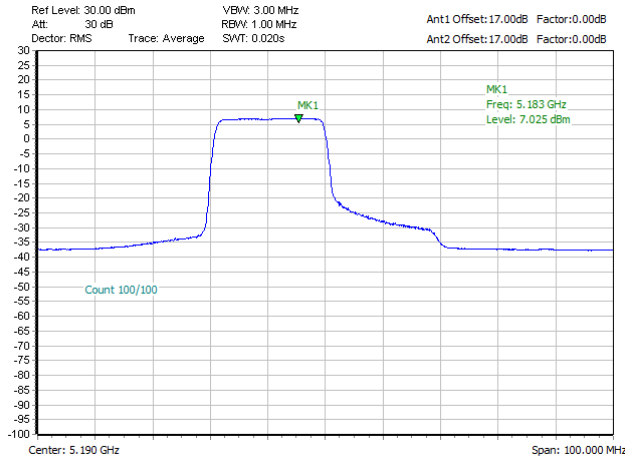
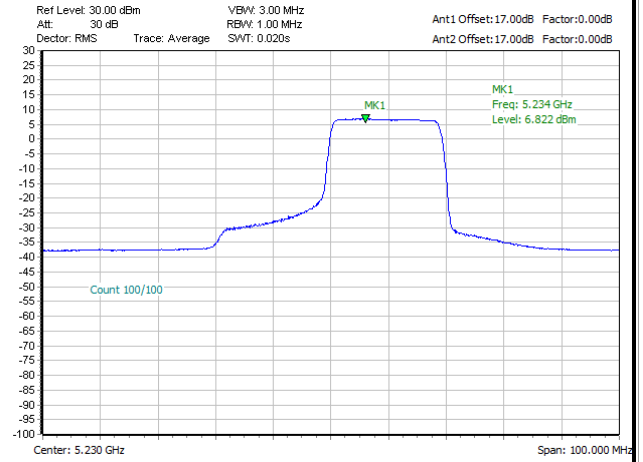




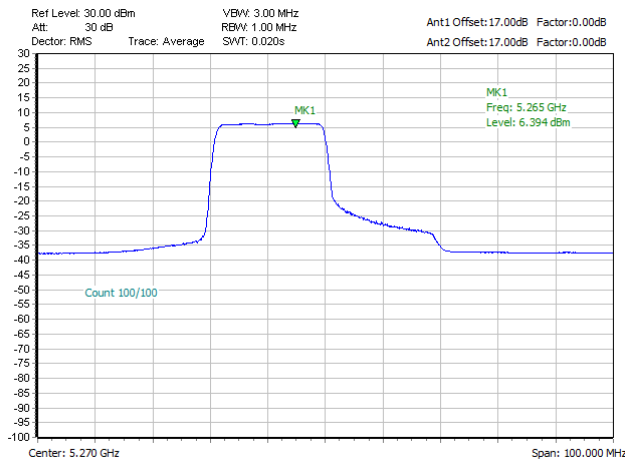
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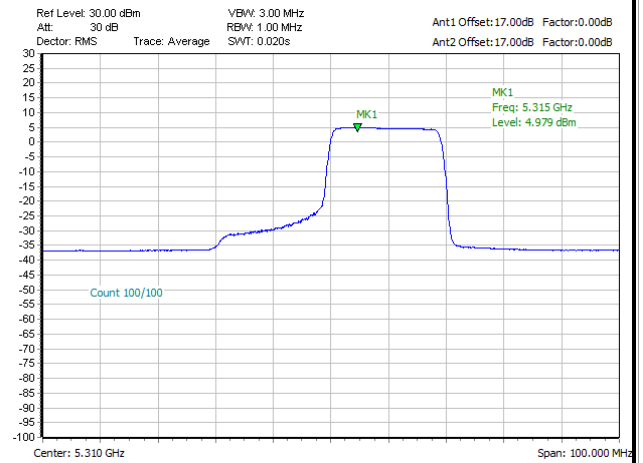
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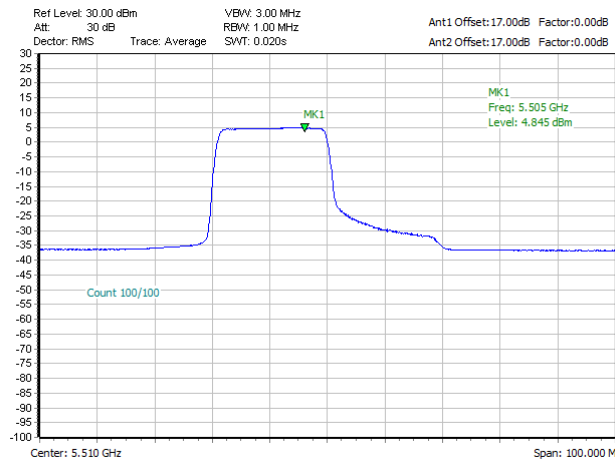


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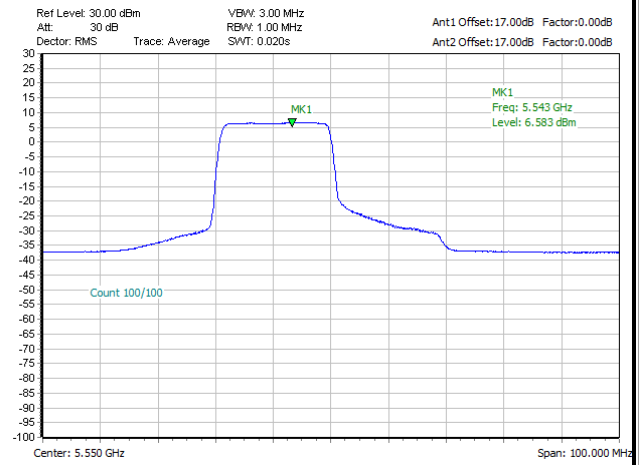




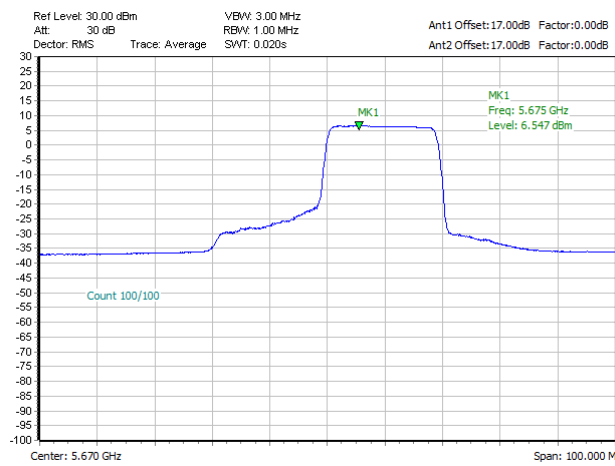
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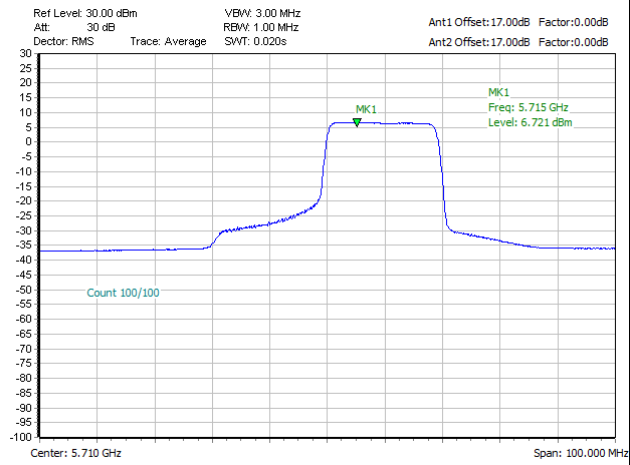


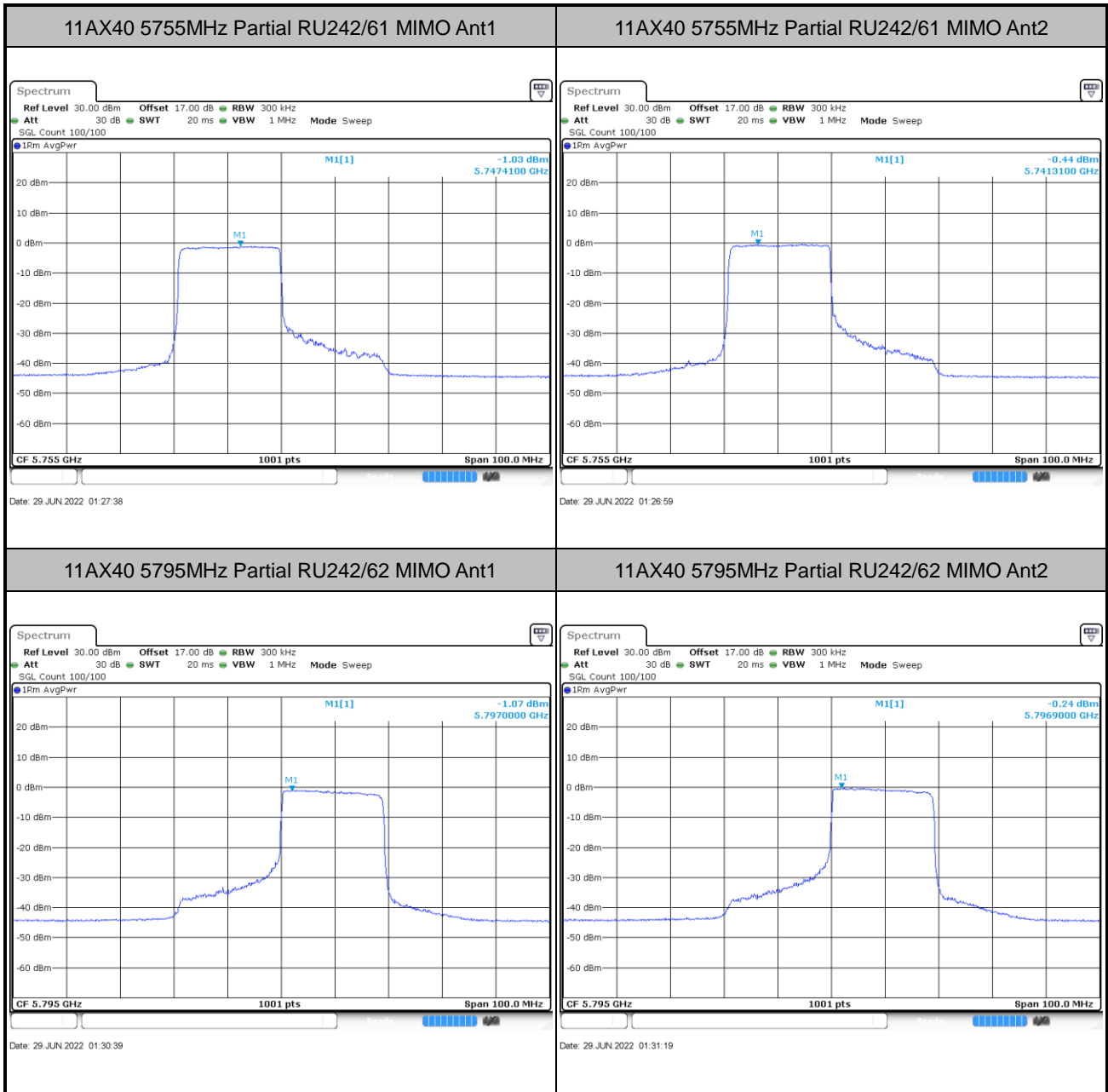
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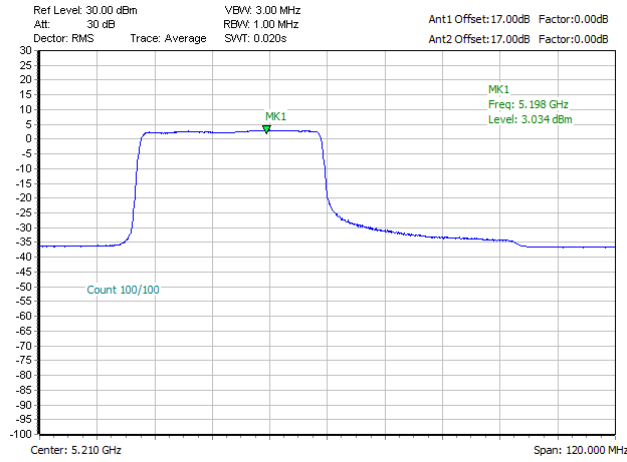
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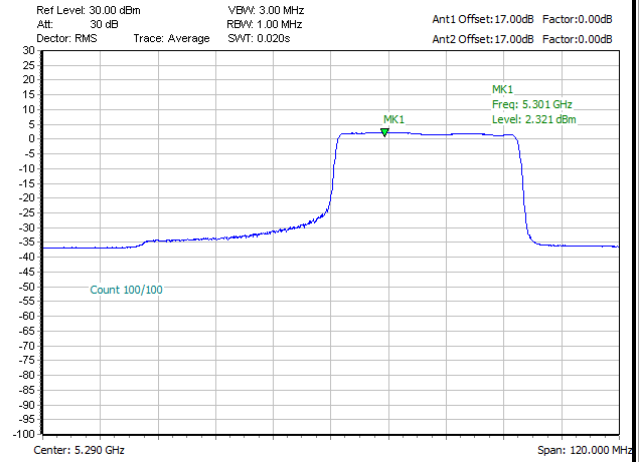




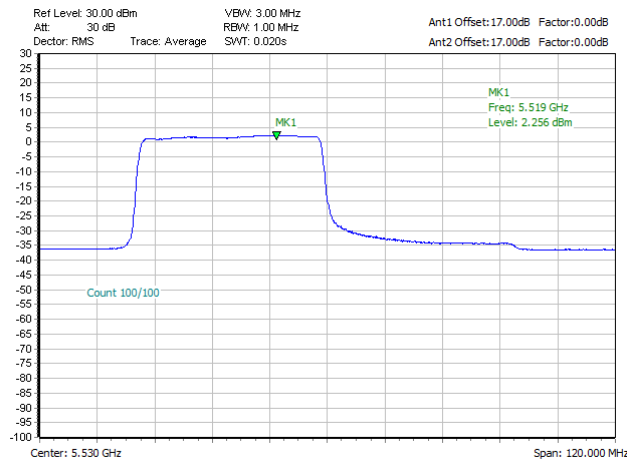
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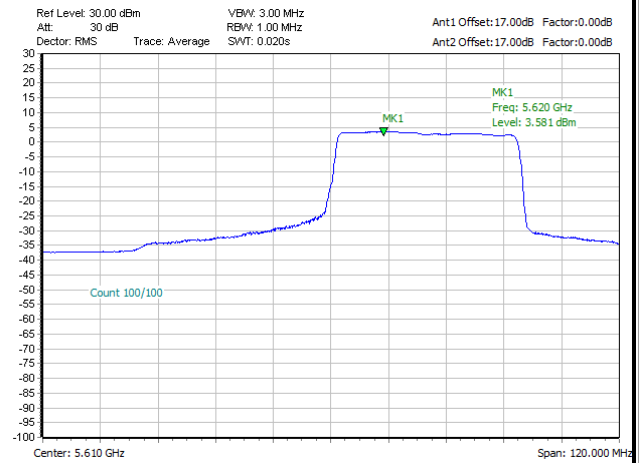
11AX80_MIMO Ant1+2_5290MHz Partial RU484/66

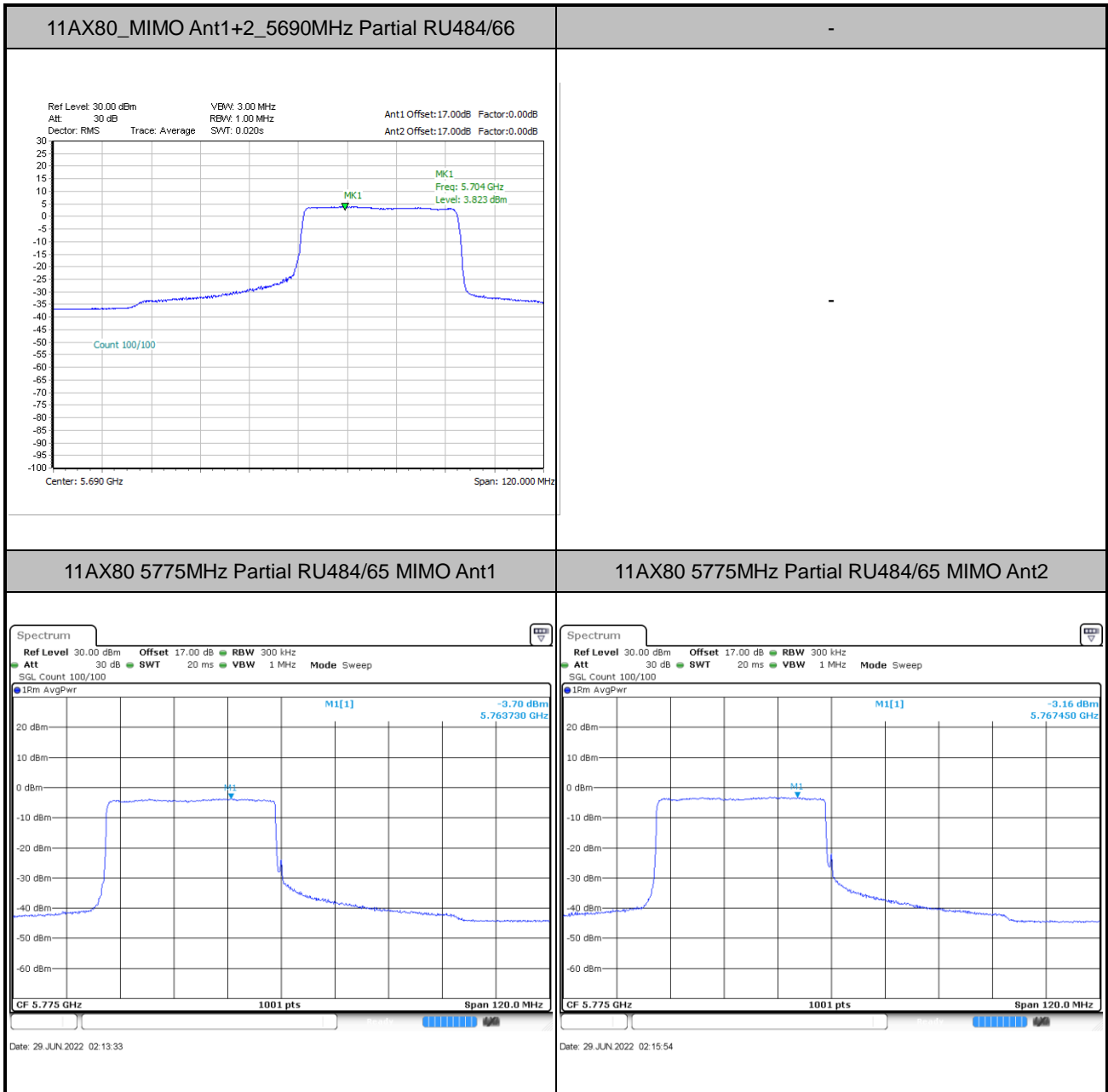


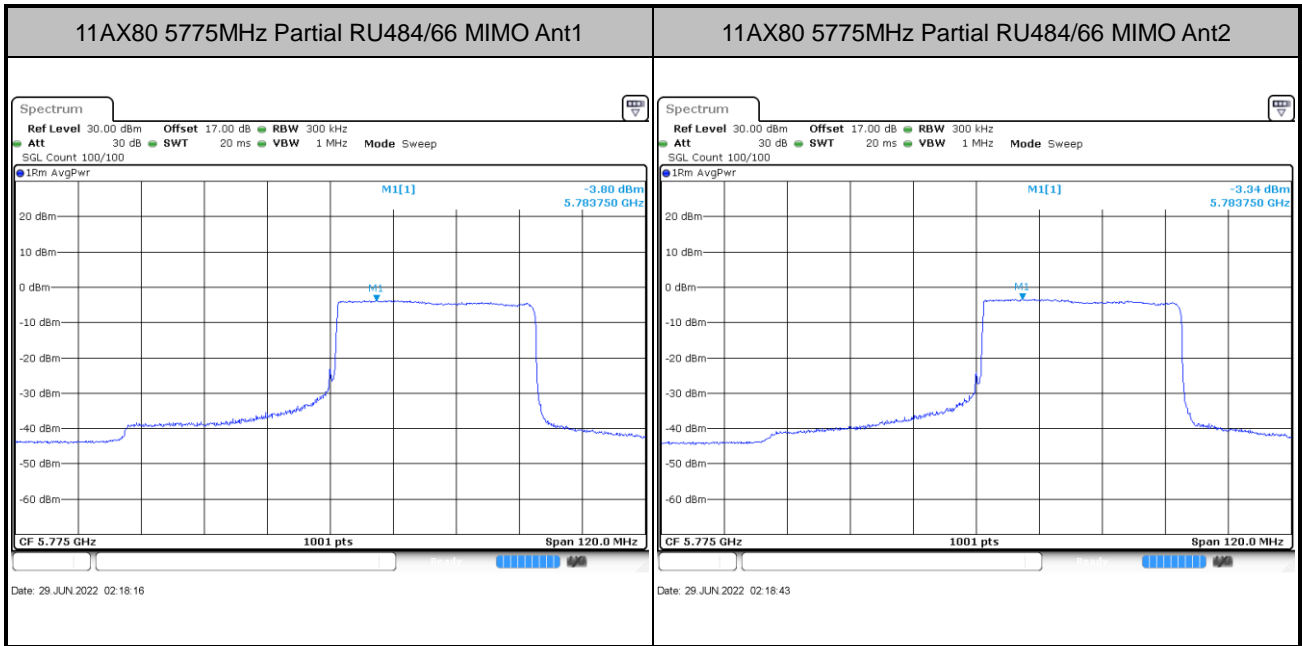
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11AX80_MIMO Ant1+2_5610MHz Partial RU484/66

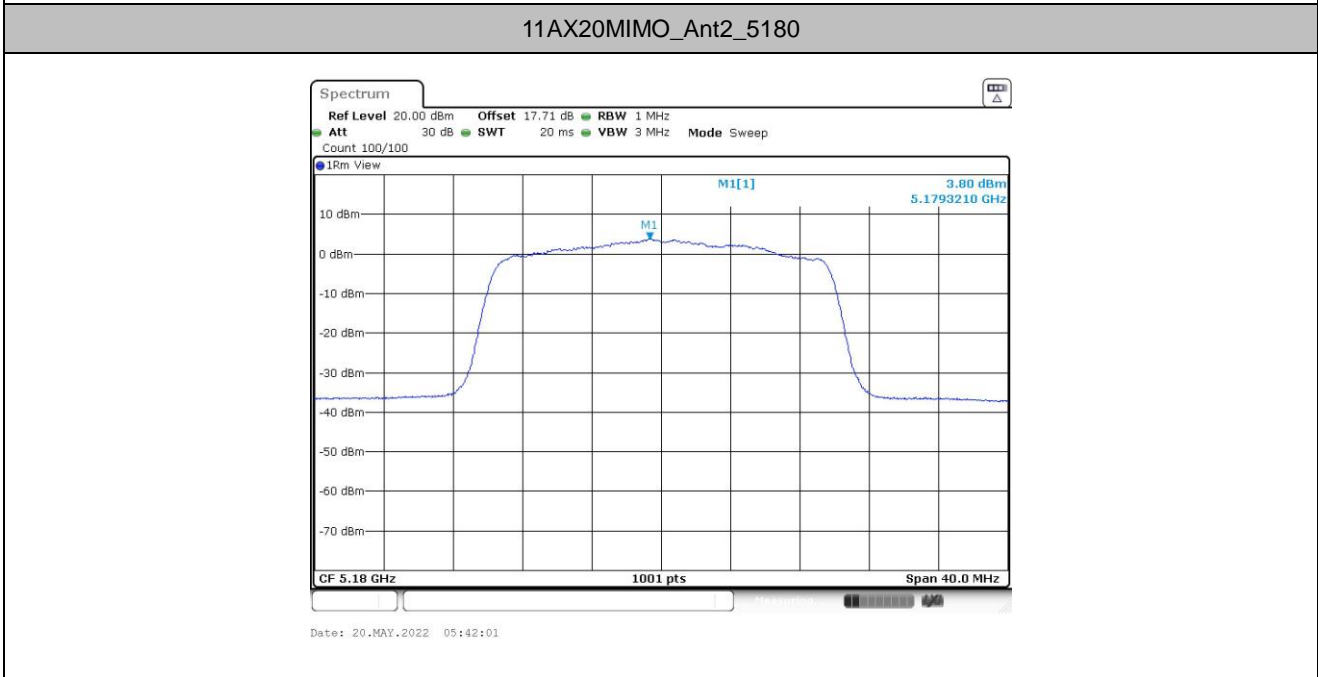
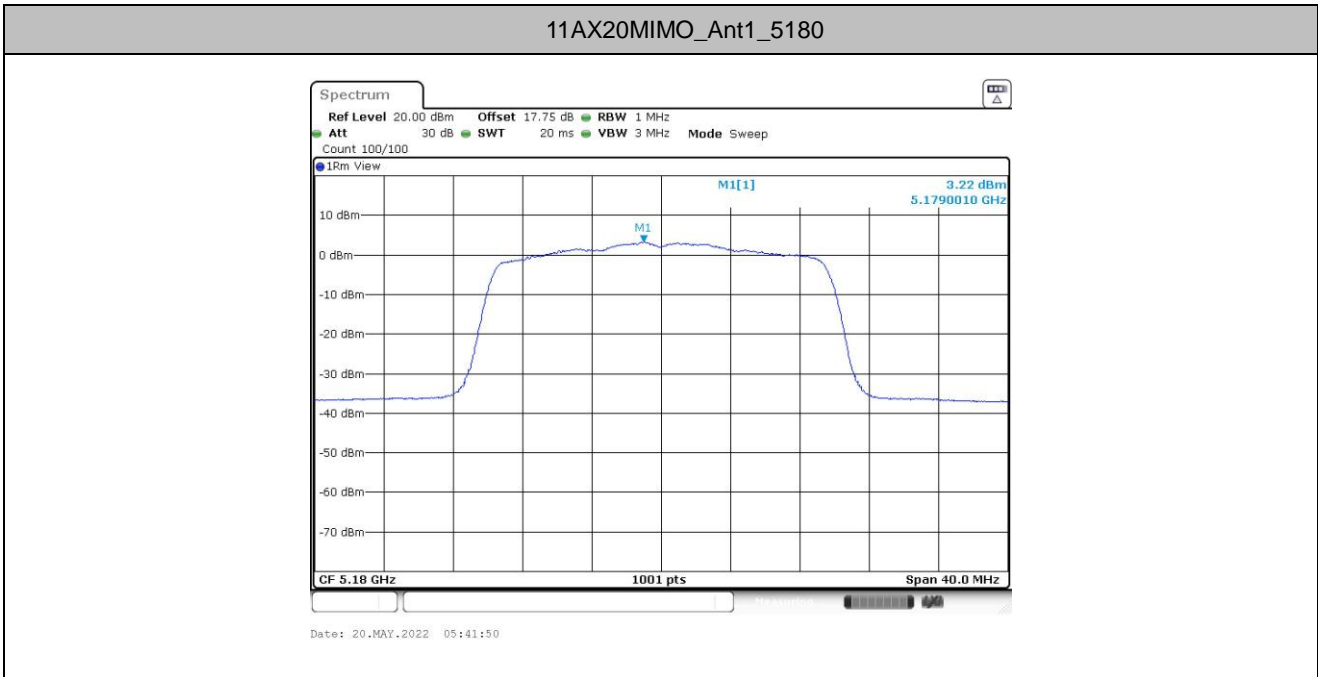






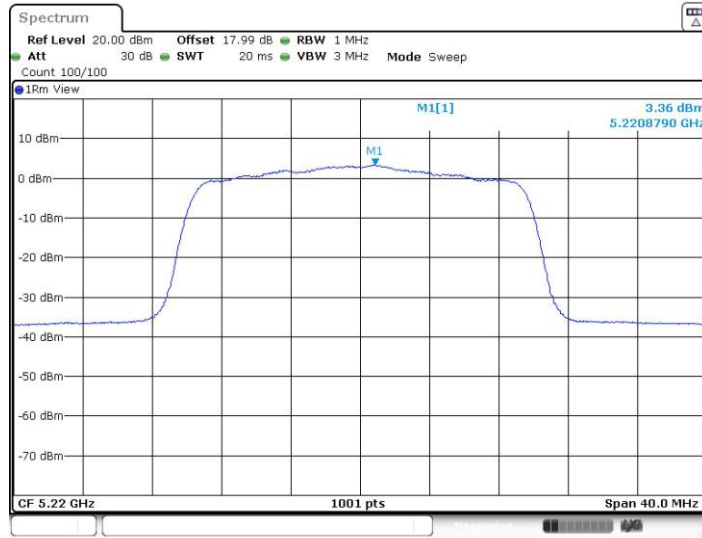


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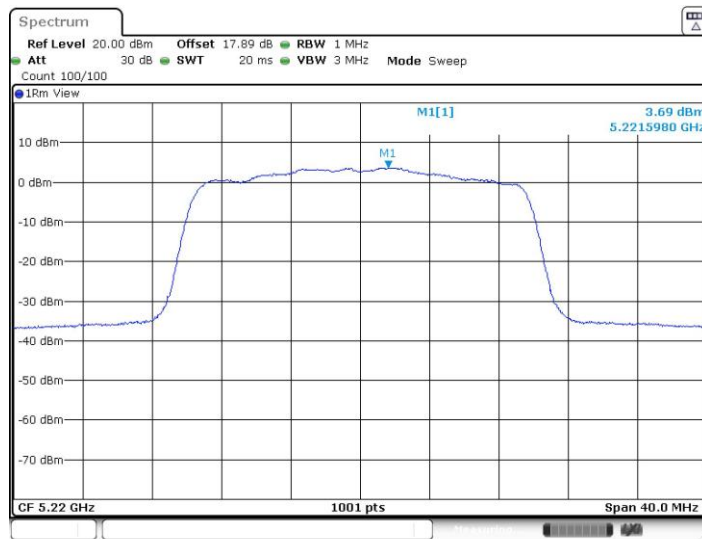




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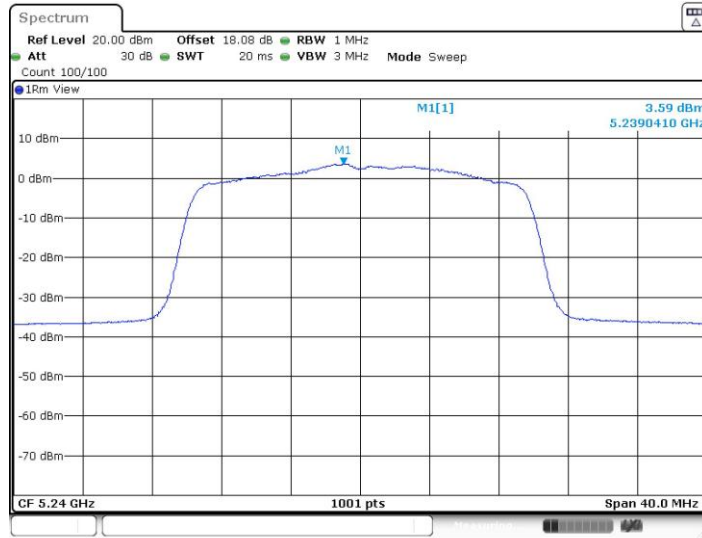


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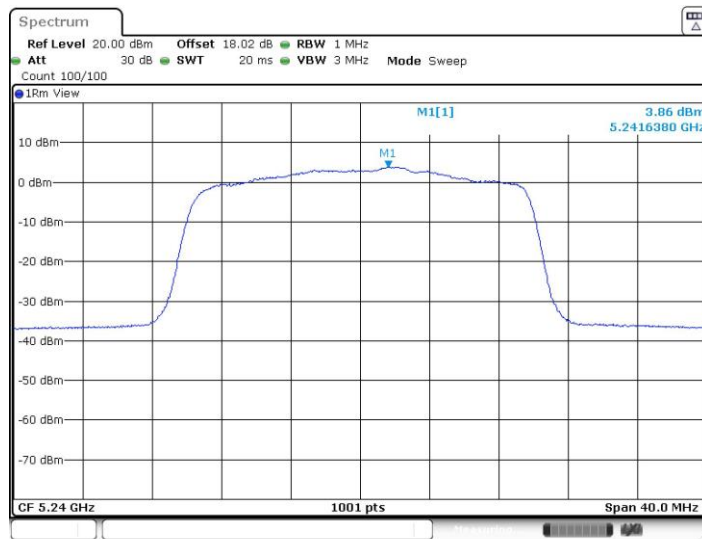




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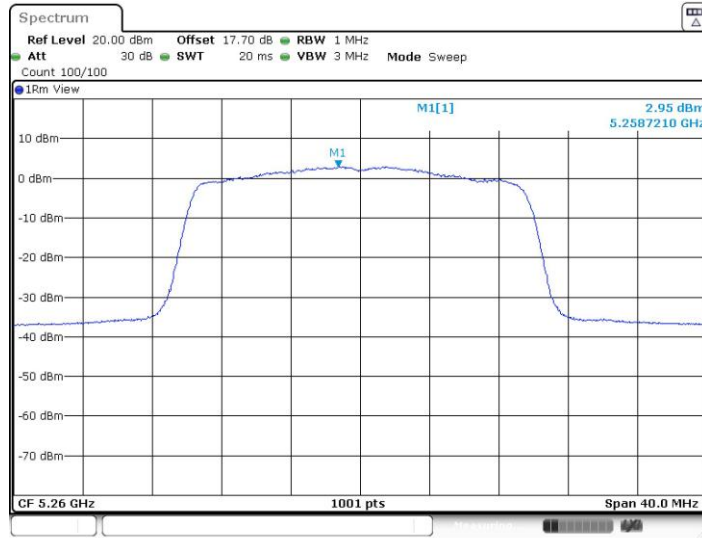


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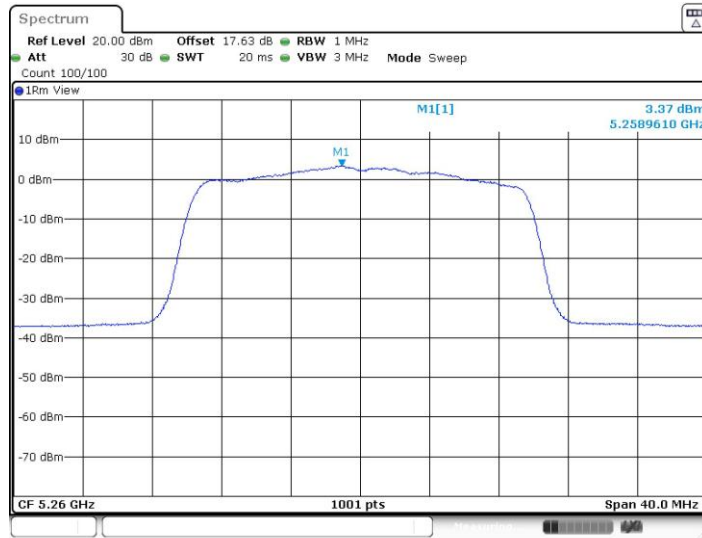


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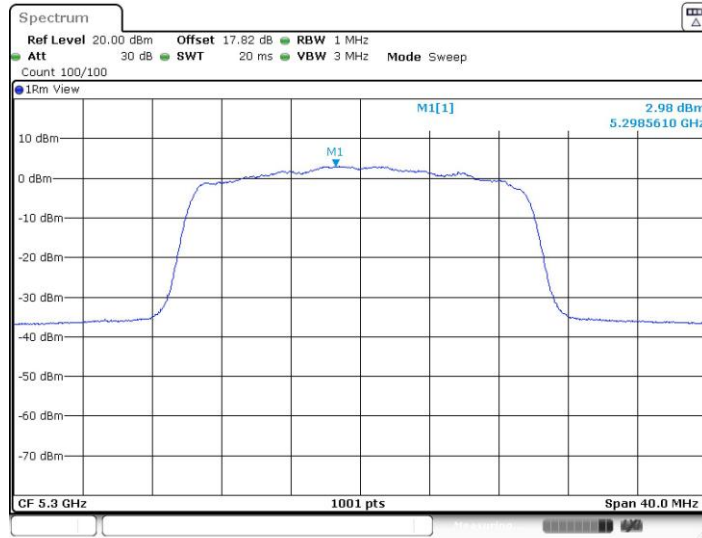
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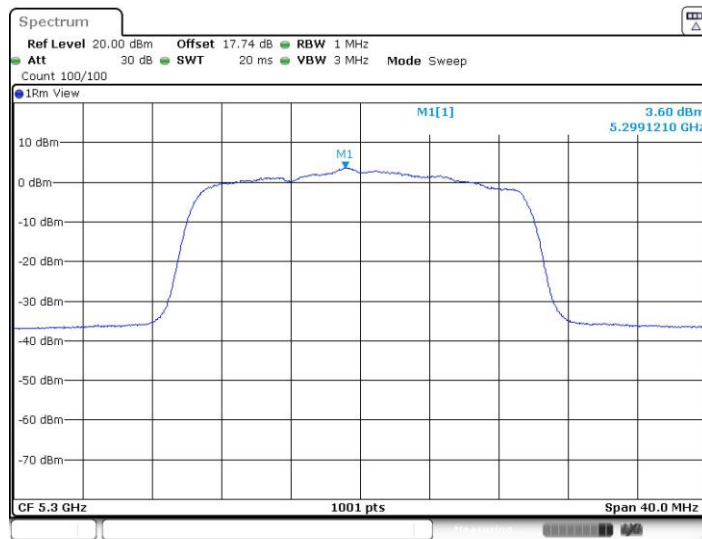


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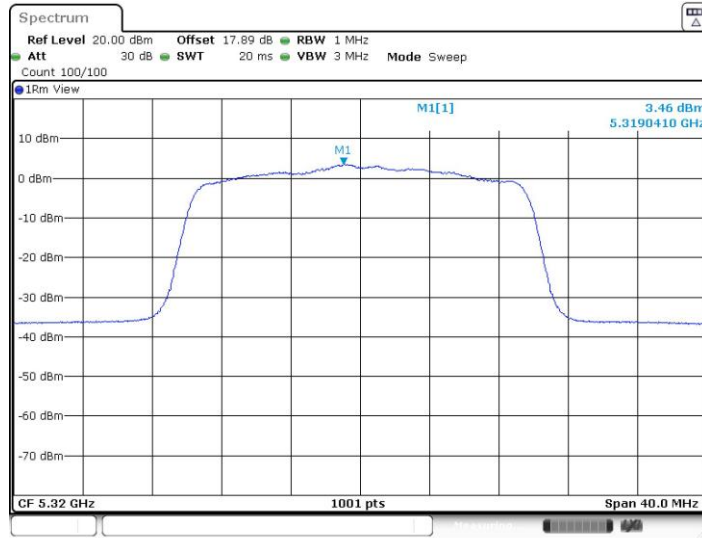
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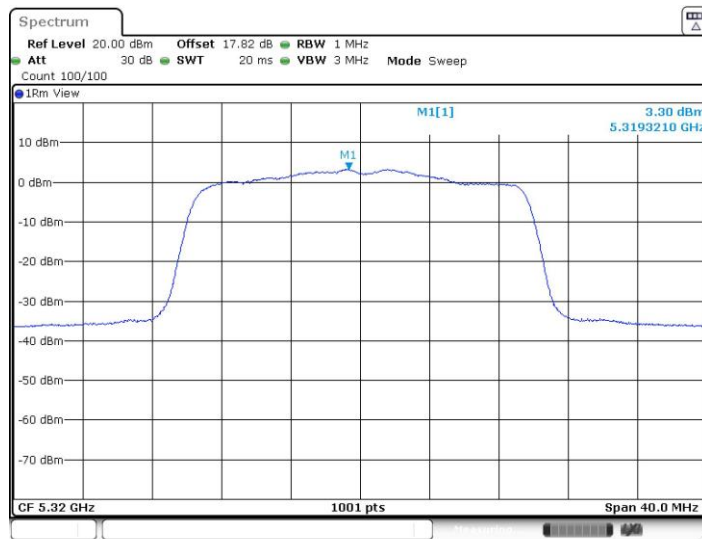
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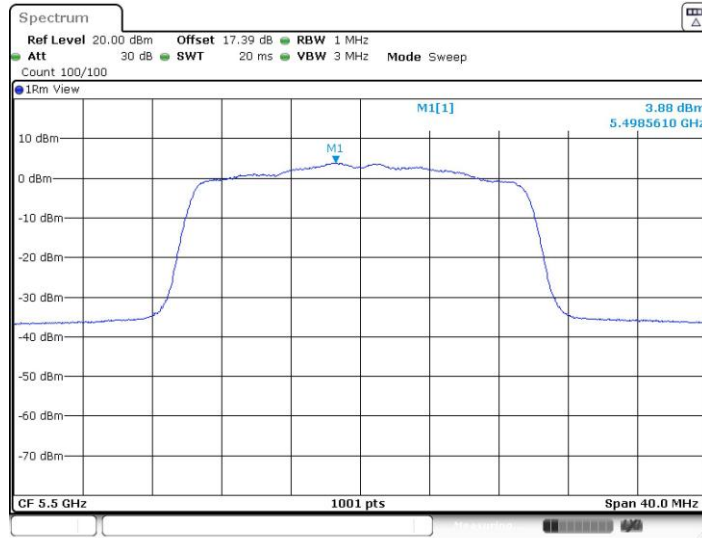


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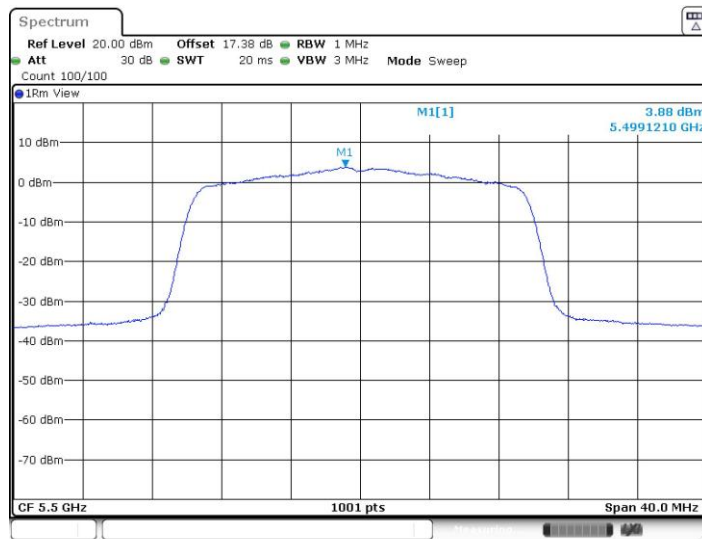


11AX20MIMO_Ant1_5500



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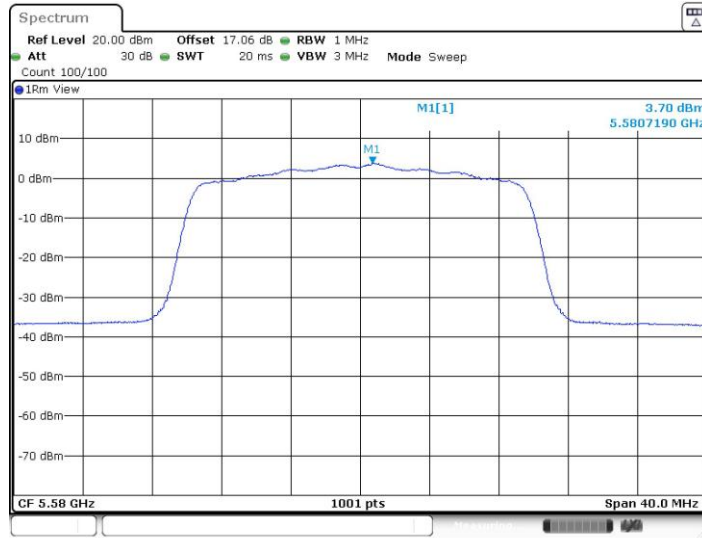
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11AX20MIMO_Ant1_5580



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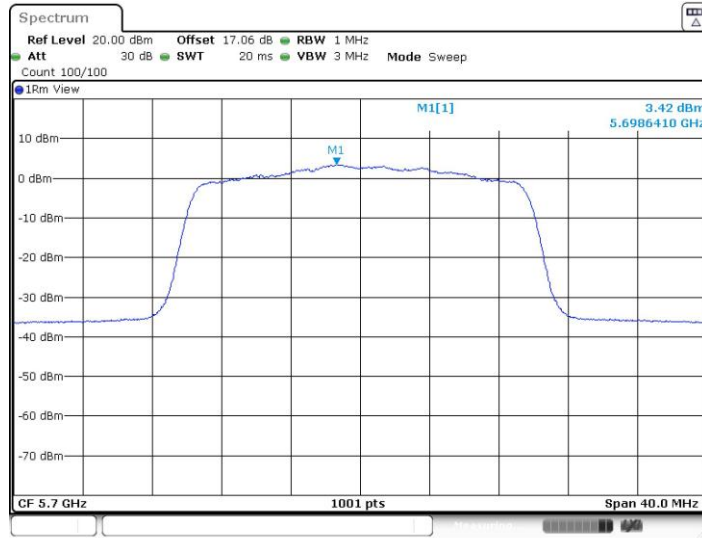
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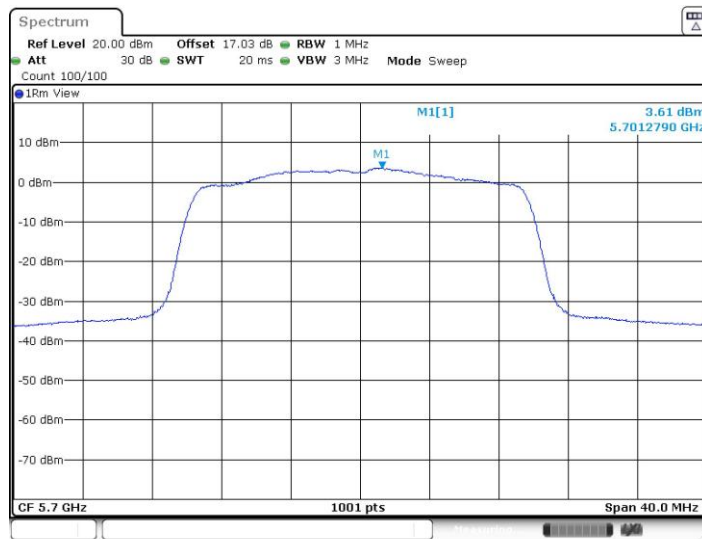


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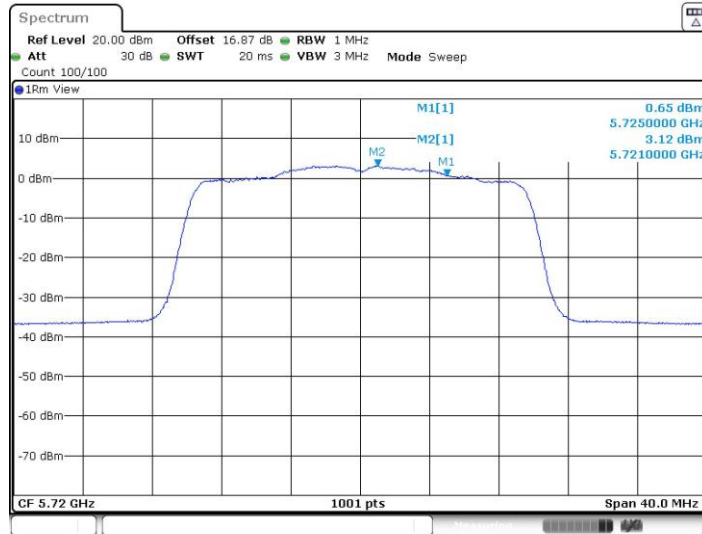
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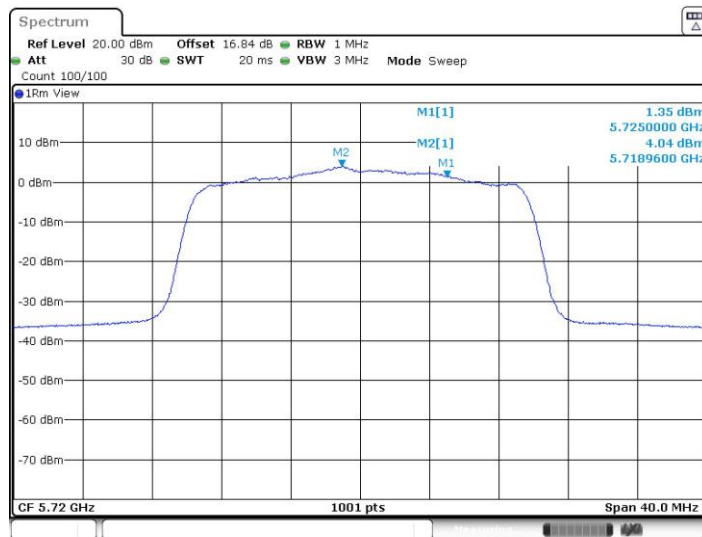


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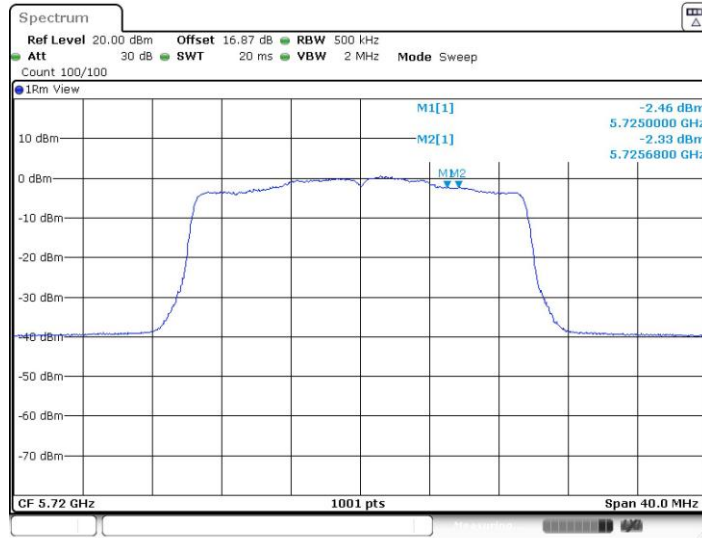
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Date: 20.MAY.2022 07:29:26

11AX20MIMO_Ant2_5720_UNII-3



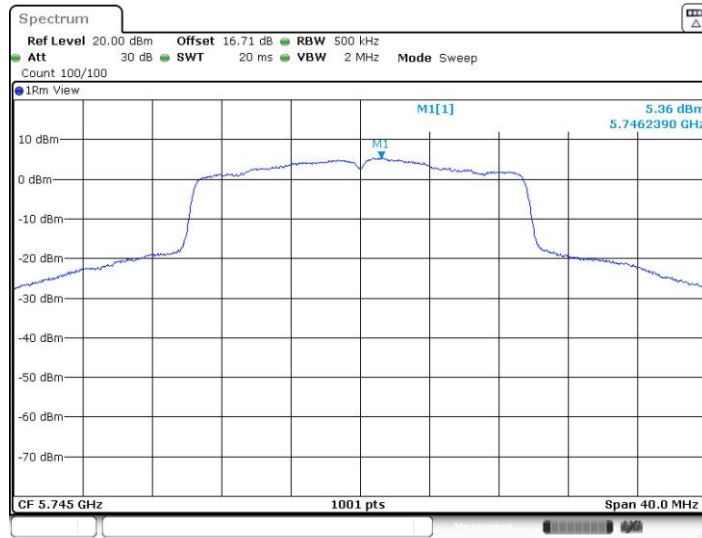
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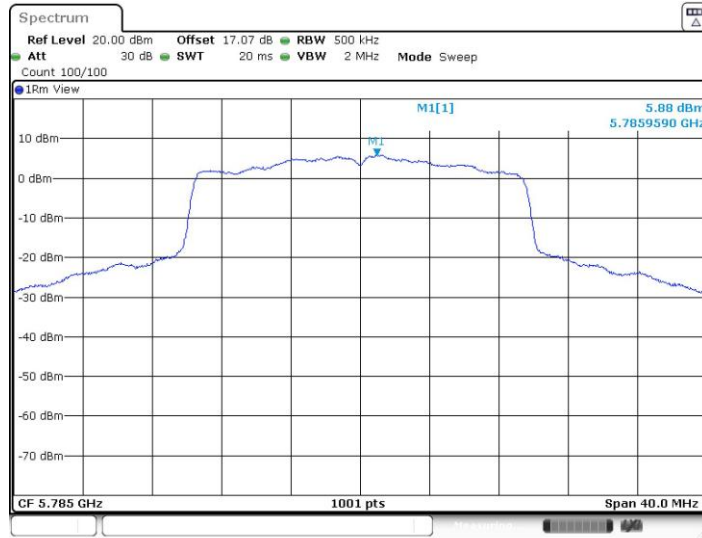


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11AX20MIMO_Ant1_5785



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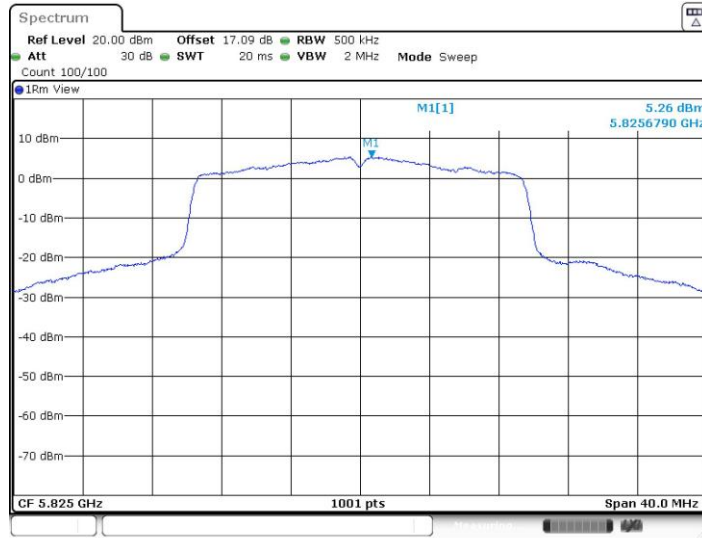
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Date: 20.MAY.2022 10:26:10



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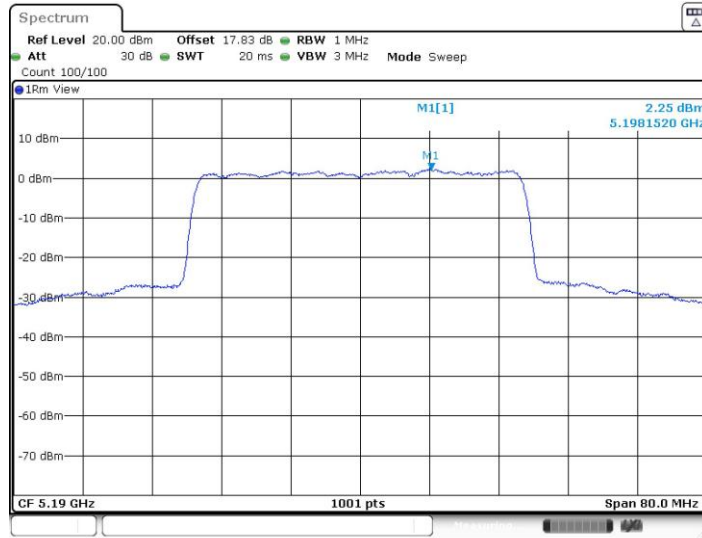


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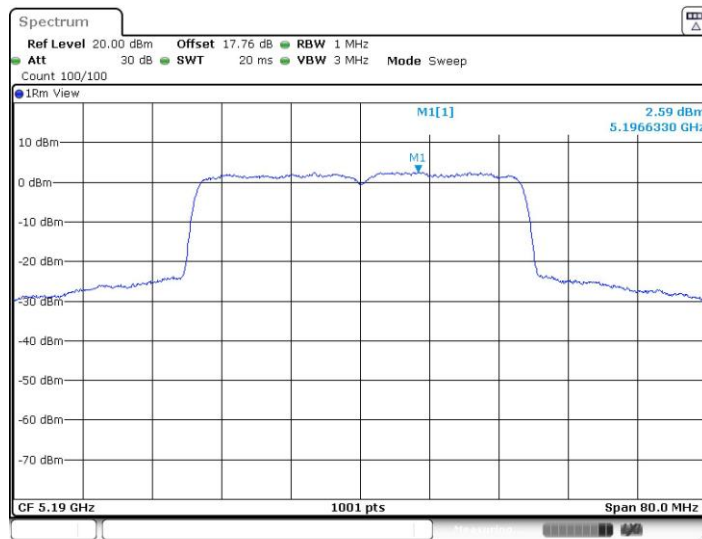




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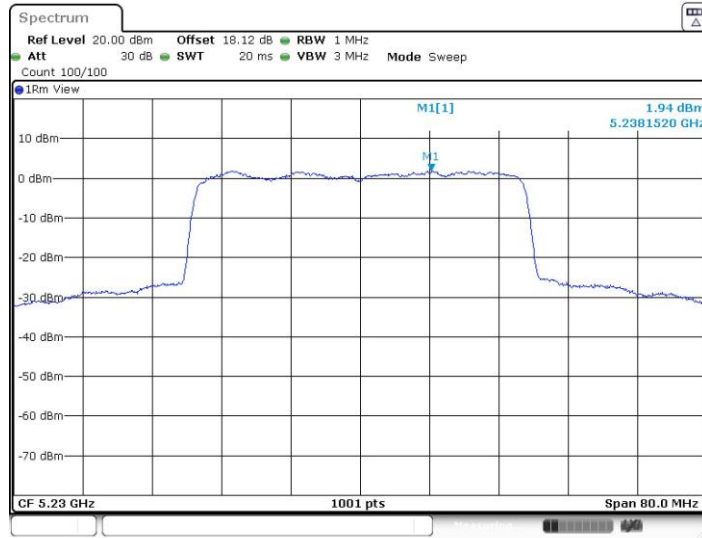


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11AX40MIMO_Ant1_5230



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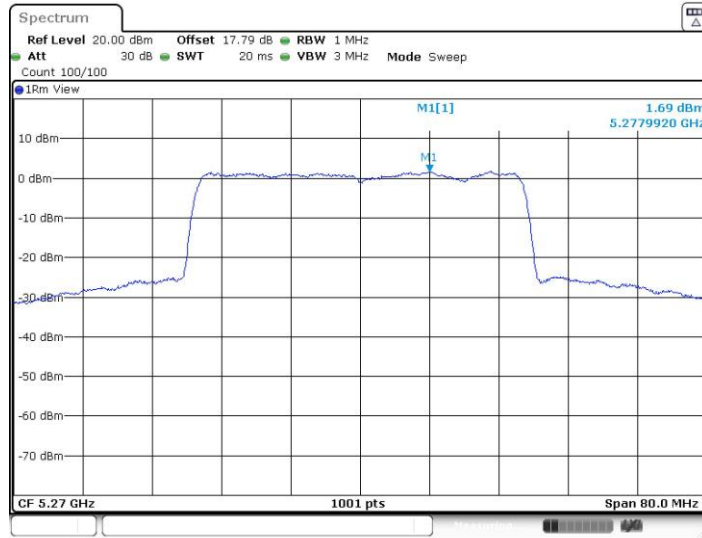
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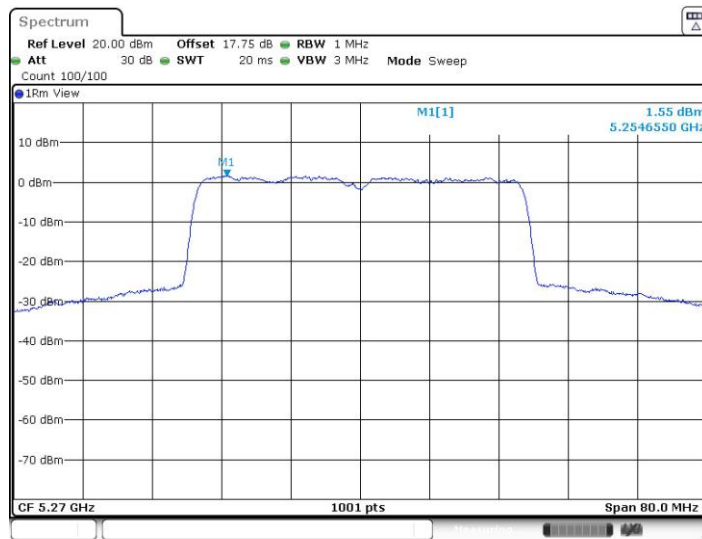


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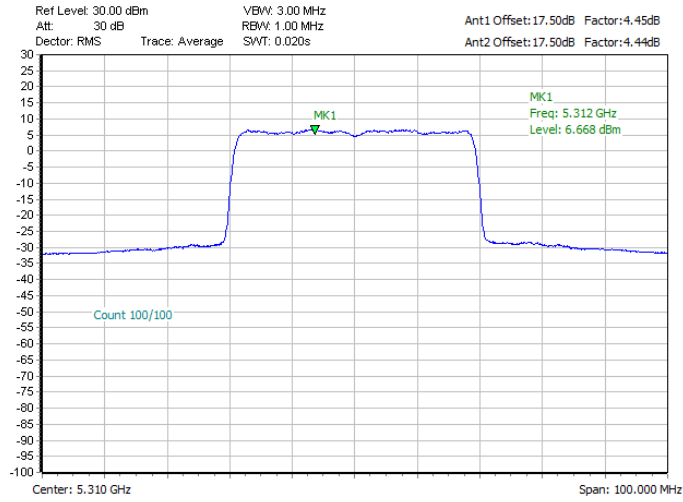
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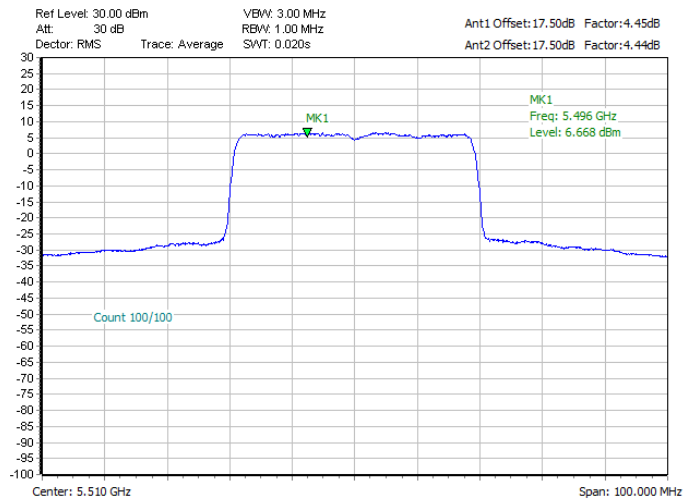
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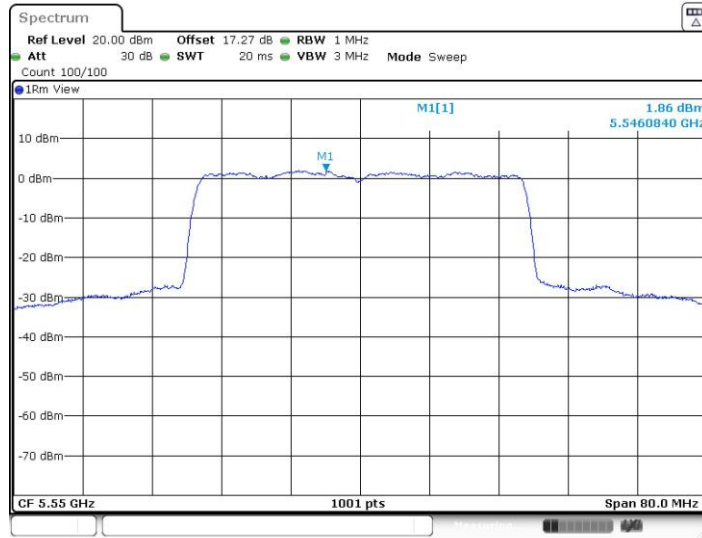


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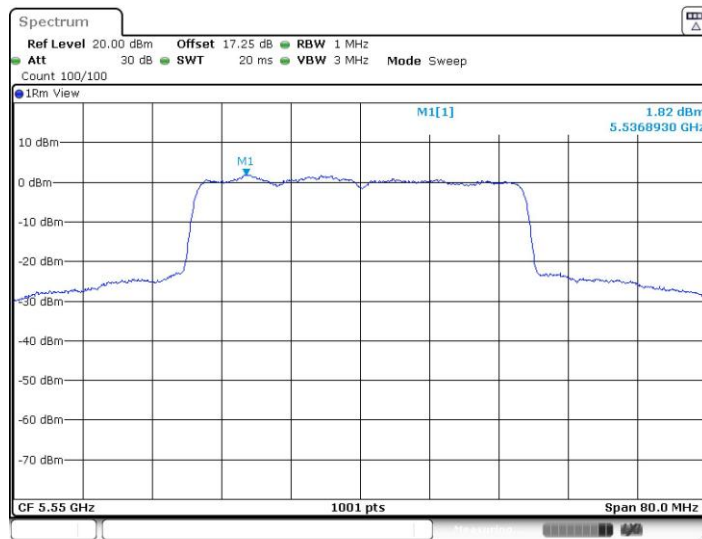




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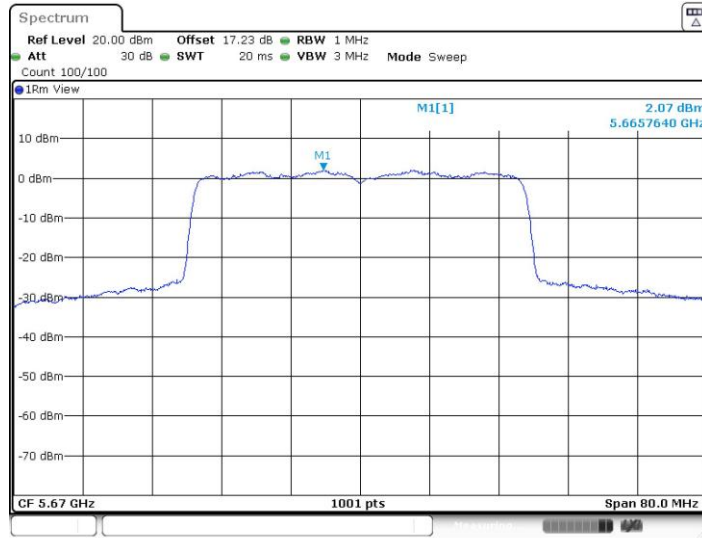


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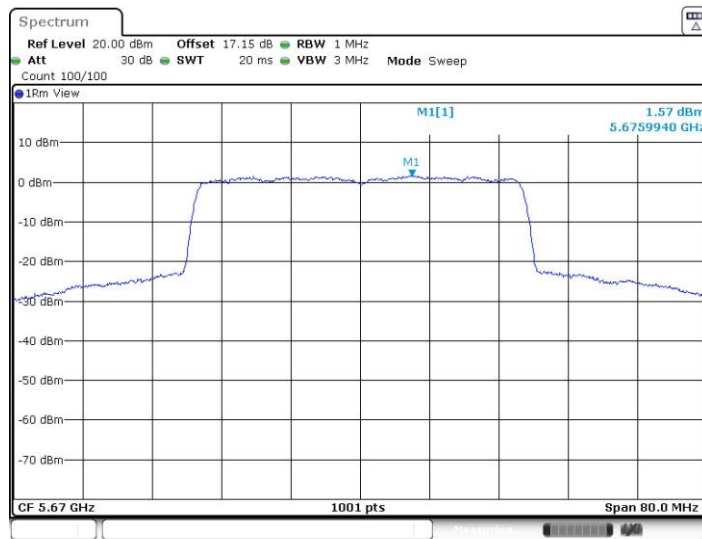




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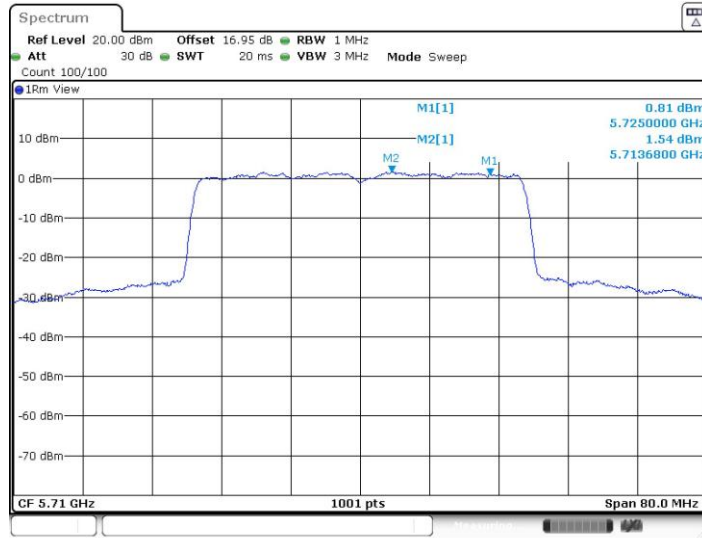


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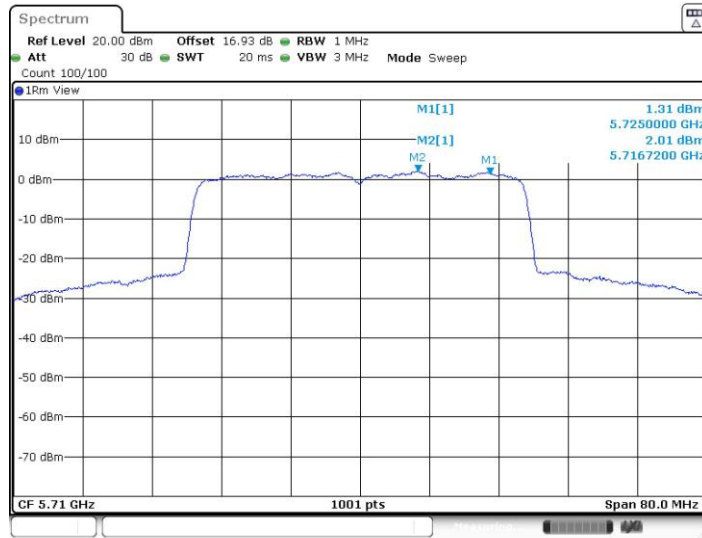




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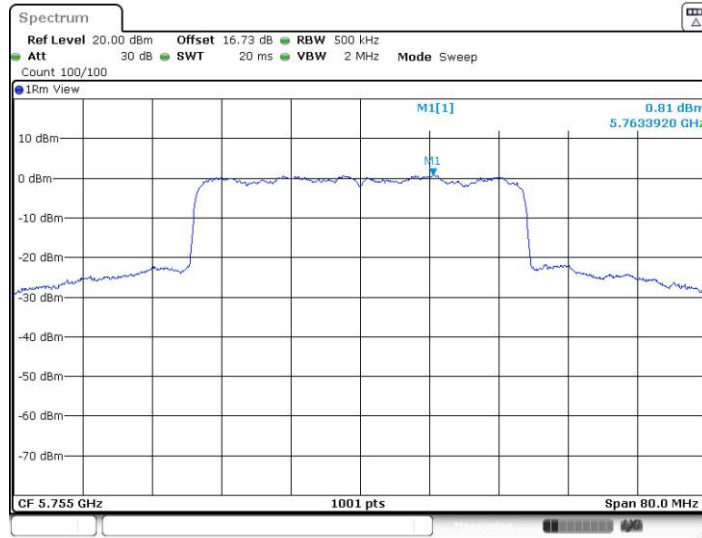


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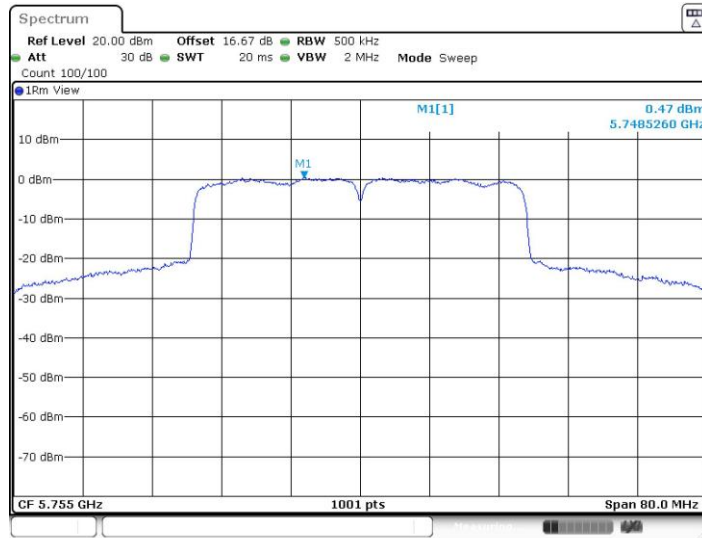




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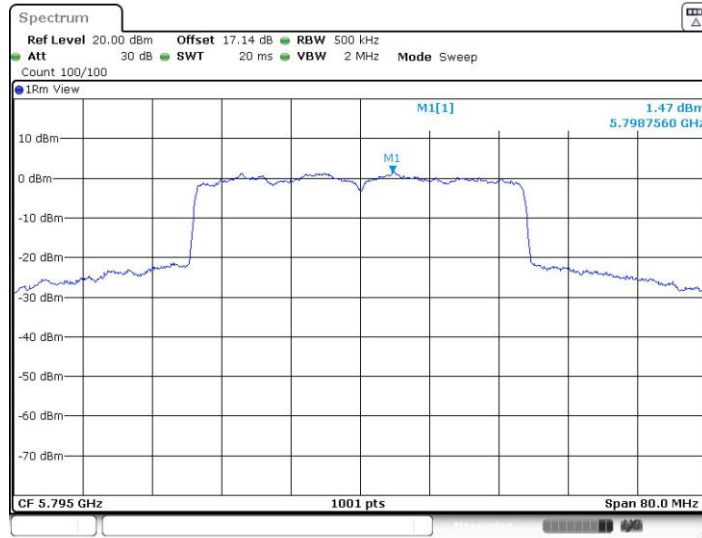


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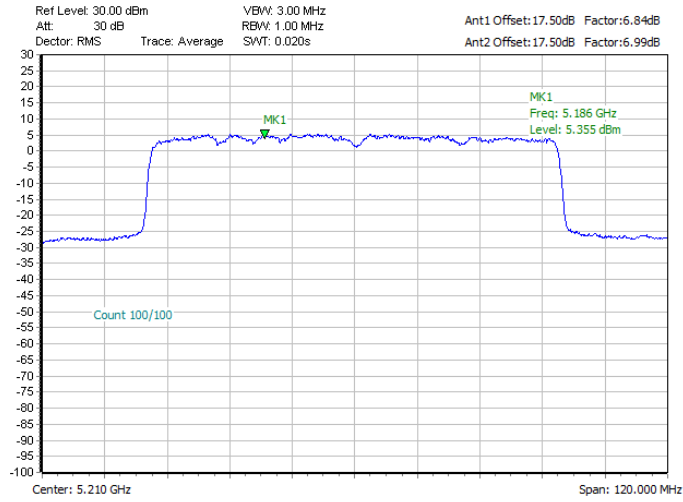


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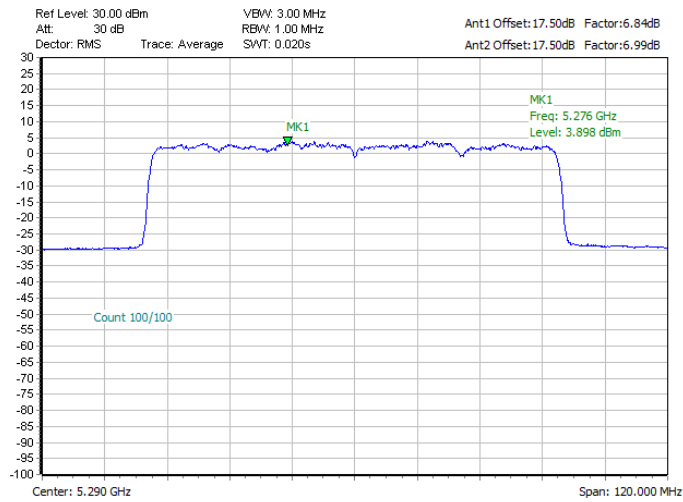




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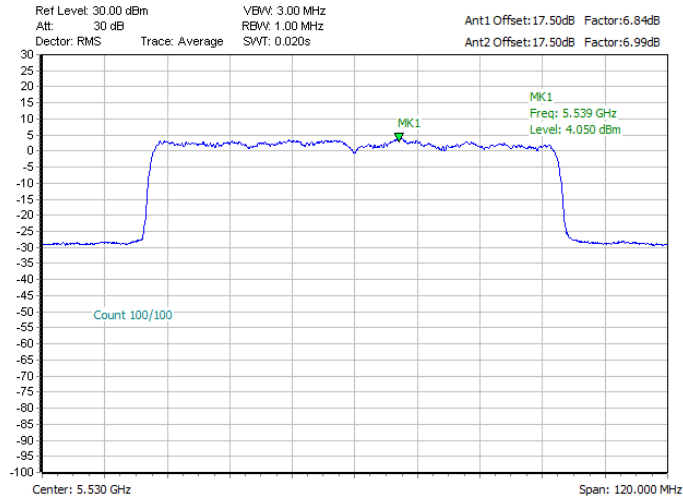


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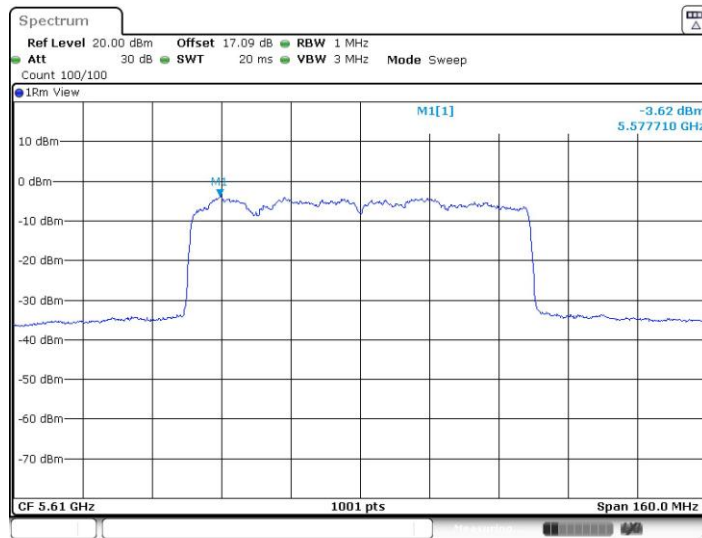




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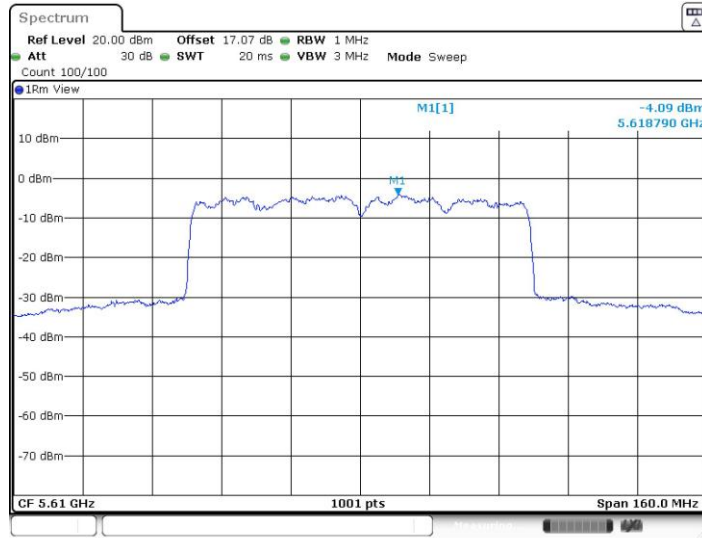
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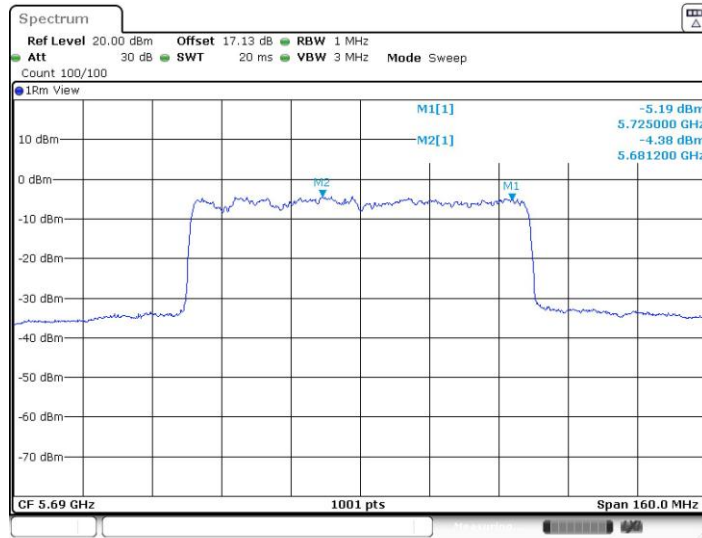


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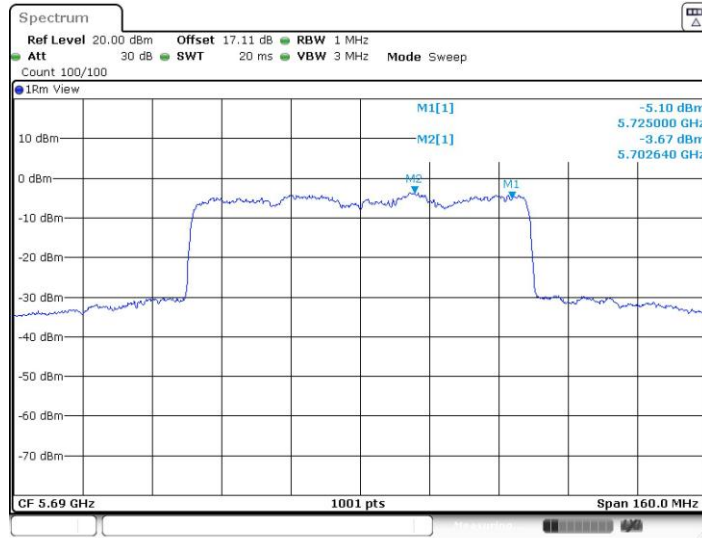
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Date: 20.MAY.2022 09:22:53



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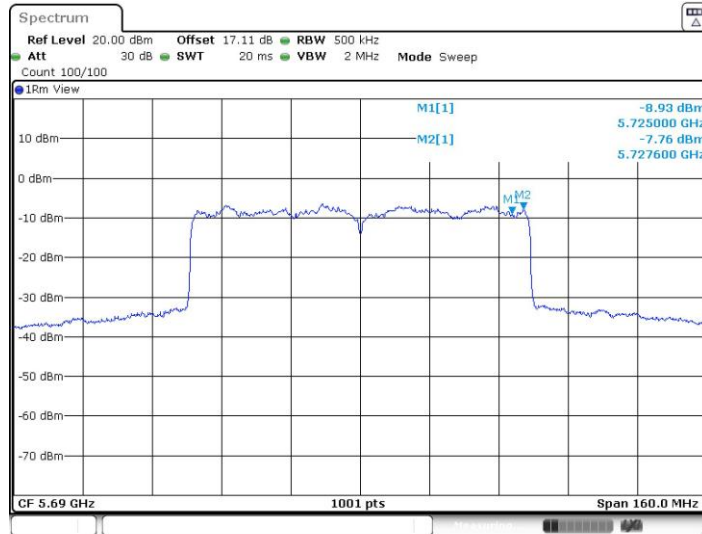
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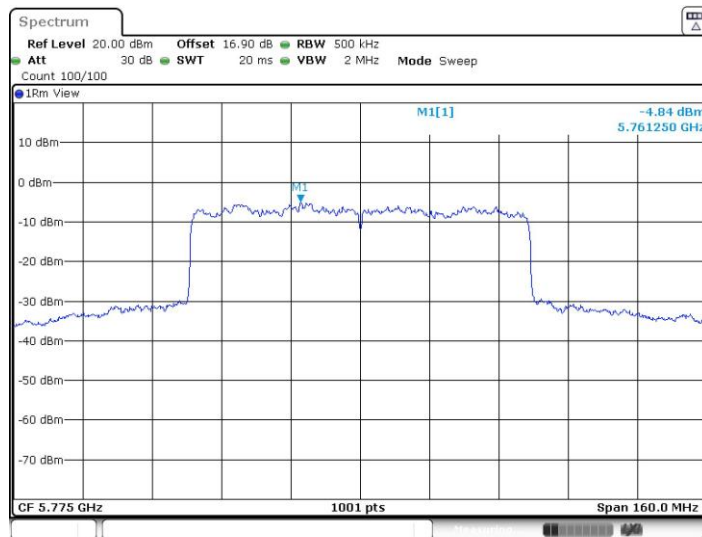


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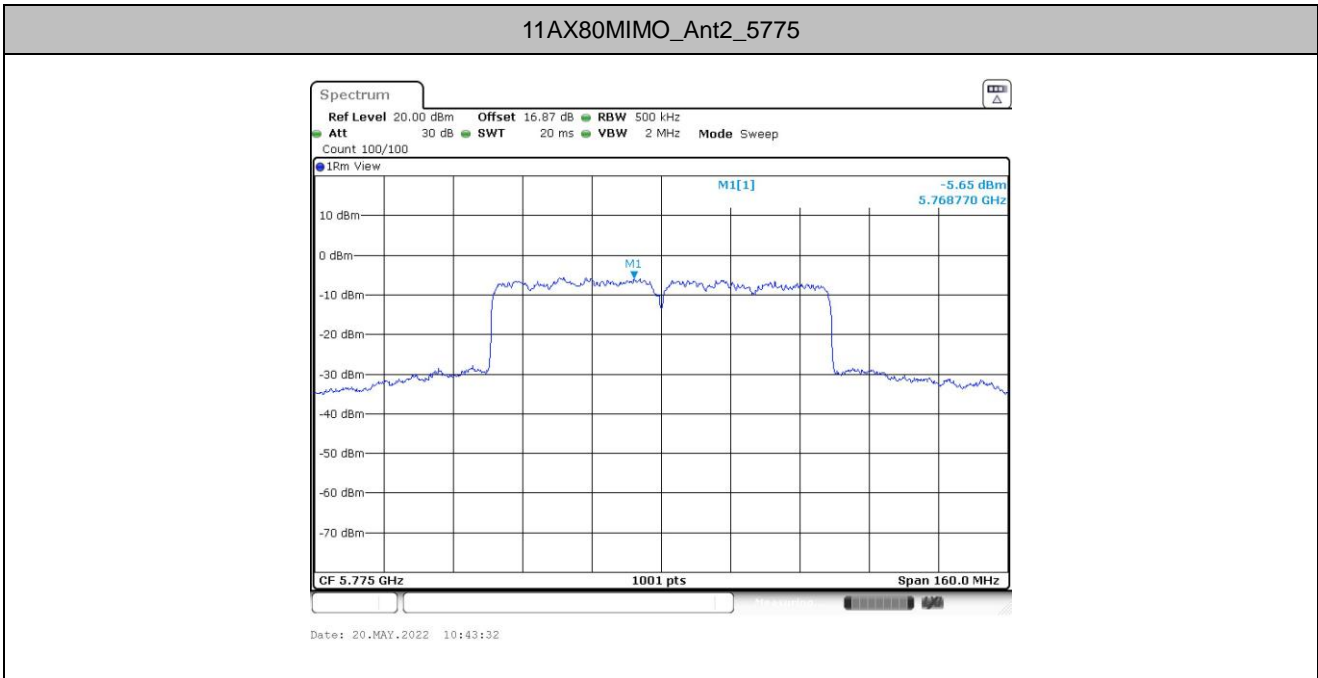


Date: 20.MAY.2022 09:23:54

11AX80MIMO_Ant1_5775



Date: 20.MAY.2022 10:42:32





3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz .

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



(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBµV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

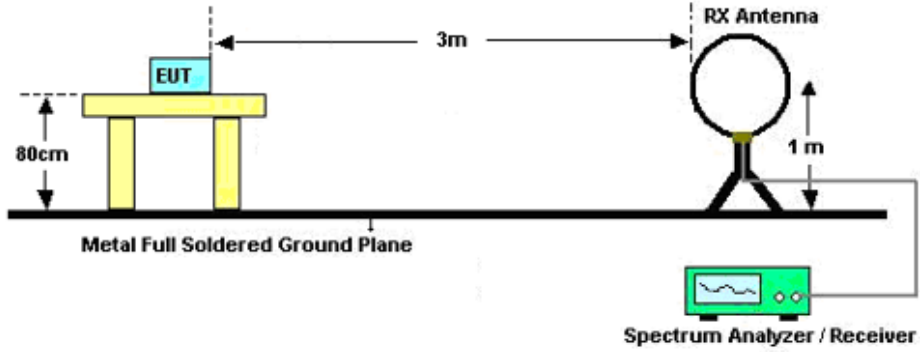


3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

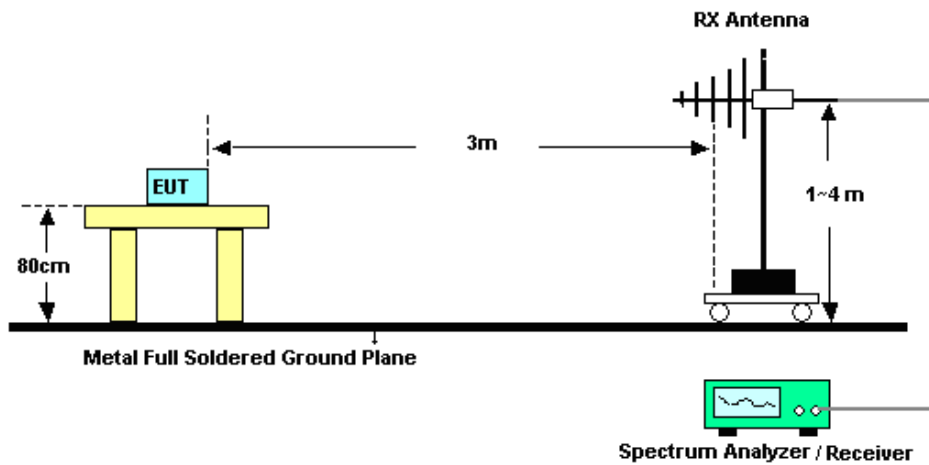
3.4.4 Test Setup

For radiated emissions below 30MHz

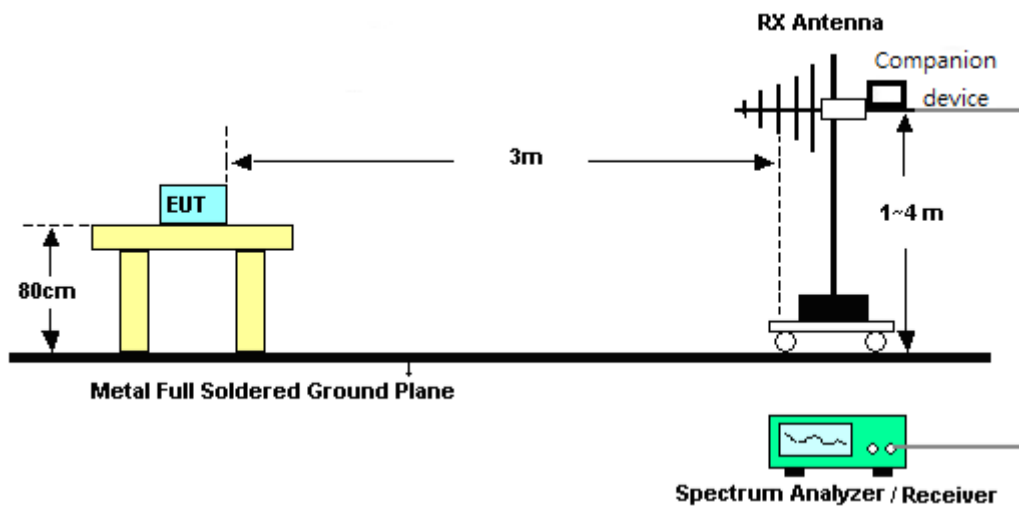


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

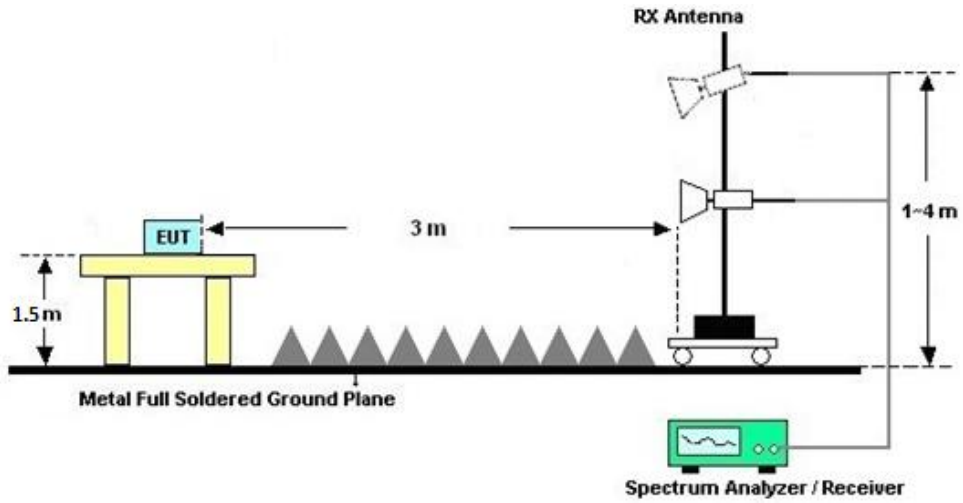


<TXBF Modes>

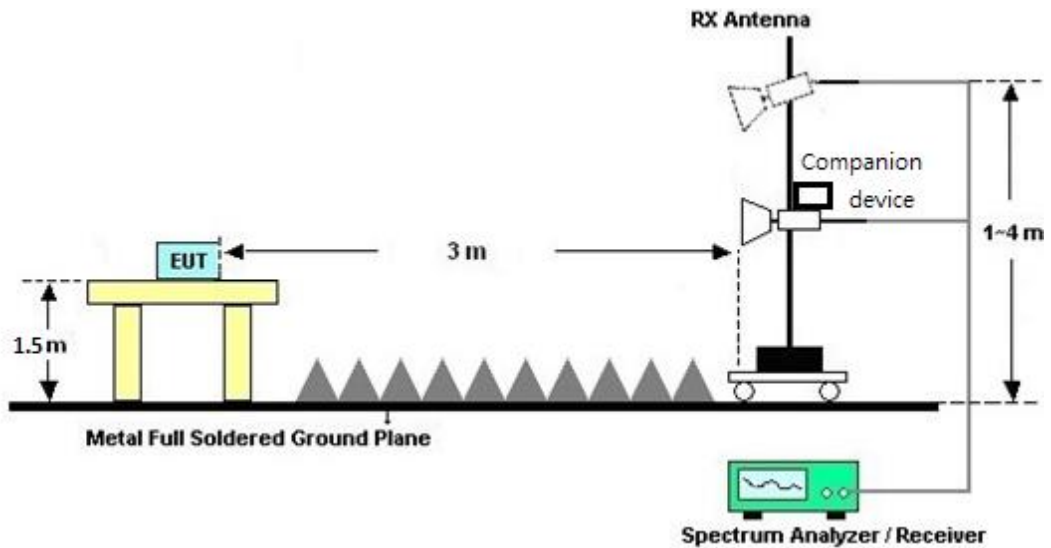


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>





3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

*Decreases with the logarithm of the frequency.

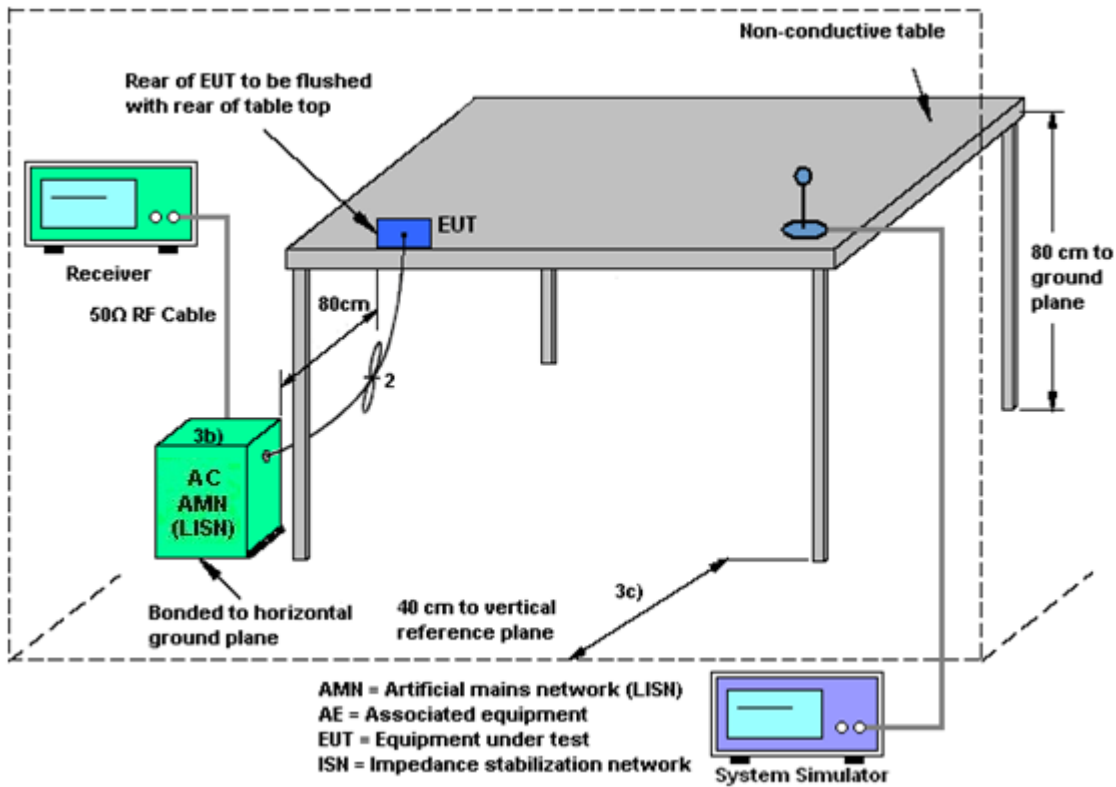
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



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 Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

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=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
UNII-1	1.80	1.40	1.80	4.61	0.00	0.00
UNII-2A	2.30	1.40	2.30	4.87	0.00	0.00
UNII-2C	2.10	-0.10	2.10	4.08	0.00	0.00
UNII-3	1.80	-0.90	1.80	3.56	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11n/ax modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
UNII-1	1.80	1.40	4.61	4.61	0.00	0.00
UNII-2A	2.30	1.40	4.87	4.87	0.00	0.00
UNII-2C	2.10	-0.10	4.08	4.08	0.00	0.00
UNII-3	1.80	-0.90	3.56	3.56	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	May 17, 2022~ Jul. 12, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	May 17, 2022~ Jul. 12, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	May 17, 2022~ Jul. 12, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	May 17, 2022~ Jul. 12, 2022	Jul. 11, 2022	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 11, 2022		Jul. 10, 2023	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max x 30dBm	Oct. 16, 2021	Jul. 17, 2022	Oct. 15, 2022	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 16, 2021	Jul. 17, 2022	Oct. 15, 2022	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jul. 17, 2022	Oct. 29, 2022	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Sep. 07, 2021	Jul. 17, 2022	Sep. 06, 2022	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jul. 19, 2021	Jul. 17, 2022	Jul. 18, 2022	Radiation (03CH07-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Jul. 17, 2022	Jul. 29, 2023	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Jul. 17, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 05, 2022	Jul. 17, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 16, 2021	Jul. 17, 2022	Oct. 15, 2022	Radiation (03CH07-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Jul. 17, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Jul. 17, 2022	NCR	Radiation (03CH07-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 17, 2022	NCR	Radiation (03CH07-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 17, 2022	NCR	Radiation (03CH07-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Jul. 26, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Jul. 26, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Jul. 26, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Jul. 26, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %
Conducted Power Spectral Density	±0.54 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

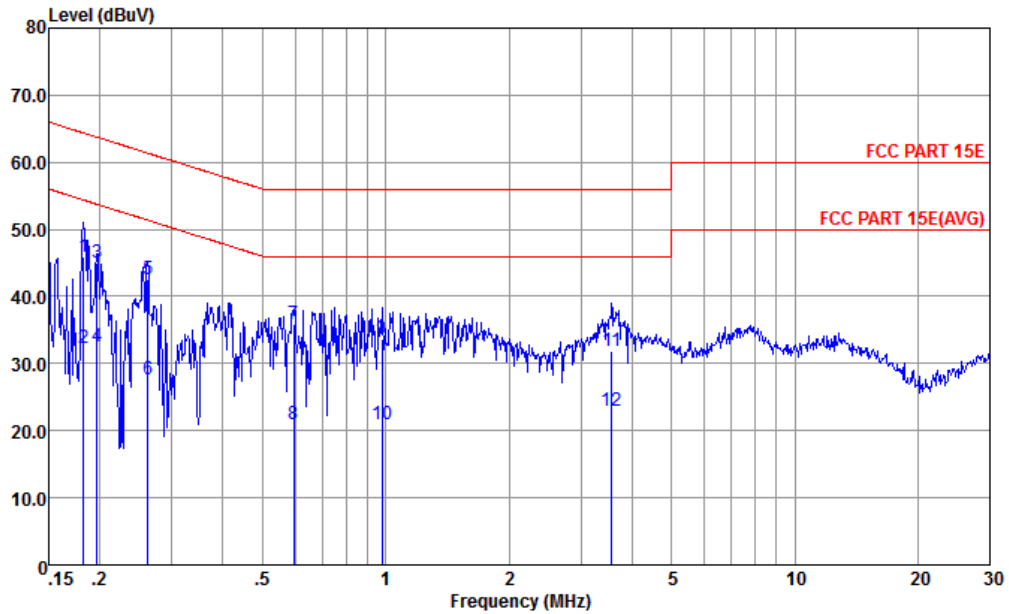
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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----- THE END -----



Appendix A. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

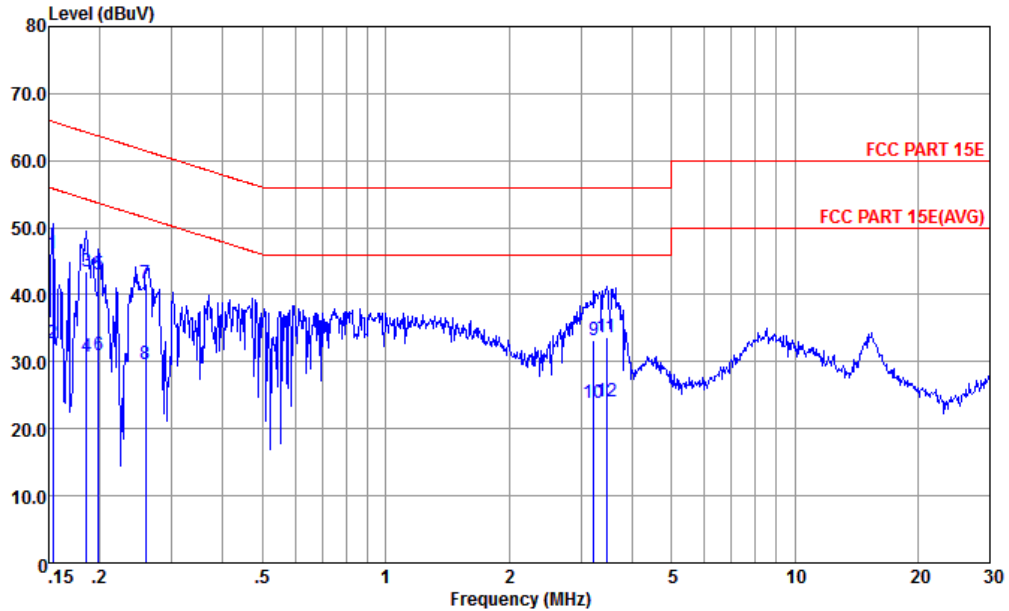


Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.182	45.93	-18.44	64.37	35.50	0.03	10.40	QP
2	0.182	32.33	-22.04	54.37	21.90	0.03	10.40	Average
3	0.197	44.91	-18.85	63.76	34.50	0.04	10.37	QP
4	0.197	32.61	-21.15	53.76	22.20	0.04	10.37	Average
5	0.262	42.59	-18.79	61.38	32.20	0.06	10.33	QP
6	0.262	27.69	-23.69	51.38	17.30	0.06	10.33	Average
7	0.595	35.84	-20.16	56.00	25.49	0.11	10.24	QP
8	0.595	20.84	-25.16	46.00	10.49	0.11	10.24	Average
9	0.979	33.56	-22.44	56.00	23.20	0.13	10.23	QP
10	0.979	20.86	-25.14	46.00	10.50	0.13	10.23	Average
11	3.565	31.91	-24.09	56.00	21.50	0.16	10.25	QP
12	3.565	22.91	-23.09	46.00	12.50	0.16	10.25	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
		dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.153	46.08	-19.74	65.82	35.50	0.11	10.47	QP
2	0.153	32.78	-23.04	55.82	22.20	0.11	10.47	Average
3	0.185	43.40	-20.84	64.24	32.91	0.10	10.39	QP
4	0.185	30.70	-23.54	54.24	20.21	0.10	10.39	Average
5	0.199	43.07	-20.60	63.67	32.60	0.10	10.37	QP
6	0.199	31.07	-22.60	53.67	20.60	0.10	10.37	Average
7	0.259	41.63	-19.84	61.47	31.20	0.10	10.33	QP
8	0.259	29.73	-21.74	51.47	19.30	0.10	10.33	Average
9	3.224	33.20	-22.80	56.00	22.81	0.15	10.24	QP
10	3.224	23.90	-22.10	46.00	13.51	0.15	10.24	Average
11	3.472	33.71	-22.29	56.00	23.30	0.16	10.25	QP
12	3.472	24.01	-21.99	46.00	13.60	0.16	10.25	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix B. Radiated Spurious Emission

Test Engineer :	Carry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C



Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	CDD 1+2	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	CDD 1+2	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	CDD 1+2	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE20 RU106/53	36	5180	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE20	44	5220	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE20	48	5240	MCS0	-	-
Mode 8	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE40	38	5190	MCS0	-	-
Mode 9	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE40	46	5230	MCS0	-	-
Mode 10	U-NII-1	5.15-5.25	CDD 1+2	802.11ax HE80	42	5210	MCS0	-	-
Mode 11	U-NII-2A	5.25-5.35	CDD 1+2	802.11a	52	5260	6Mbps	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-2A	5.25-5.35	CDD 1+2	802.11a	60	5300	6Mbps	-	-
Mode 13	U-NII-2A	5.25-5.35	CDD 1+2	802.11a	64	5320	6Mbps	-	-
Mode 14	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE20	52	5260	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE20	60	5300	MCS0	-	-
Mode 16	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE20	64	5320	MCS0	-	-
Mode 17	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE20 RU106/54	64	5320	MCS0	-	-
Mode 18	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE40	54	5270	MCS0	-	-
Mode 19	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE40	62	5310	MCS0	-	-
Mode 20	U-NII-2A	5.25-5.35	CDD 1+2	802.11ax HE80	58	5290	MCS0	-	-
Mode 21	U-NII-2C	5.47-5.725	CDD 1+2	802.11a	100	5500	6Mbps	-	-
Mode 22	U-NII-2C	5.47-5.725	CDD 1+2	802.11a	116	5580	6Mbps	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 23	U-NII-2C	5.47-5.725	CDD 1+2	802.11a	140	5700	6Mbps	-	-
Mode 24	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE20	100	5500	MCS0	-	-
Mode 25	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE20 RU106/53	100	5500	MCS0	-	-
Mode 26	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE20	116	5580	MCS0	-	-
Mode 27	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE20	140	5700	MCS0	-	-
Mode 28	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE20 RU106/54	140	5700	MCS0	-	-
Mode 29	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE40	102	5510	MCS0	-	-
Mode 30	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE40	110	5550	MCS0	-	-
Mode 31	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE40	134	5670	MCS0	-	-
Mode 32	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE80	106	5530	MCS0	-	-
Mode 33	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE80	122	5610	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 34	U-NII-2C	5.47-5.85	CDD 1+2	802.11a	144	5720	6Mbps	-	-
Mode 35	U-NII-2C	5.47-5.85	CDD 1+2	802.11ax HE20	144	5720	MCS0	-	-
Mode 36	U-NII-2C	5.47-5.85	CDD 1+2	802.11ax HE40	142	5710	MCS0	-	-
Mode 37	U-NII-2C	5.47-5.85	CDD 1+2	802.11ax HE80	138	5690	MCS0	-	-
Mode 38	U-NII-3	5.725-5.85	CDD 1+2	802.11a	149	5745	6Mbps	-	-
Mode 39	U-NII-3	5.725-5.85	CDD 1+2	802.11a	157	5785	6Mbps	-	-
Mode 40	U-NII-3	5.725-5.85	CDD 1+2	802.11a	165	5825	6Mbps	-	-
Mode 41	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE20	149	5745	MCS0	-	-
Mode 42	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE20 RU106/53	149	5745	MCS0	-	-
Mode 43	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE20	157	5785	MCS0	-	-
Mode 44	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE20	165	5825	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 45	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE20 RU106/54	165	5825	MCS0	-	-
Mode 46	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE40	151	5755	MCS0	-	-
Mode 47	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE40	159	5795	MCS0	-	-
Mode 48	U-NII-3	5.725-5.85	CDD 1+2	802.11ax HE80	155	5775	MCS0	-	-
Mode 49	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE20	36	5180	MCS0	-	-
Mode 50	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE20	44	5220	MCS0	-	-
Mode 51	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE20	48	5240	MCS0	-	-
Mode 52	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE20	52	5260	MCS0	-	-
Mode 53	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE20	60	5300	MCS0	-	-
Mode 54	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE20	64	5320	MCS0	-	-
Mode 55	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE20	100	5500	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 56	U-NII-2C	5.47-5.725	TxBF 1+2	802.11ax HE20	116	5580	MCS0	-	-
Mode 57	U-NII-2C	5.47-5.725	TxBF 1+2	802.11ax HE20	140	5700	MCS0	-	-
Mode 58	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE40	38	5190	MCS0	-	-
Mode 59	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE40	46	5230	MCS0	-	-
Mode 60	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE40	54	5270	MCS0	-	-
Mode 61	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE40	62	5310	MCS0	-	-
Mode 62	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE40	102	5510	MCS0	-	-
Mode 63	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE40	110	5500	MCS0	-	-
Mode 64	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE40	134	5670	MCS0	-	-
Mode 65	U-NII-1	5.15-5.25	TxBF 1+2	802.11ax HE80	42	5210	MCS0	-	-
Mode 66	U-NII-2A	5.25-5.35	TxBF 1+2	802.11ax HE80	58	5290	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 67	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE80	106	5530	MCS0	-	-
Mode 68	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE80	122	5610	MCS0	-	-
Mode 69	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE20	144	5720	MCS0	-	-
Mode 70	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE40	142	5710	MCS0	-	-
Mode 71	U-NII-2C	5.25-5.35	TxBF 1+2	802.11ax HE80	138	5690	MCS0	-	-
Mode 72	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE20	149	5745	MCS0	-	-
Mode 73	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE20	157	5785	MCS0	-	-
Mode 74	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE20	165	5825	MCS0	-	-
Mode 75	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE40	151	5755	MCS0	-	-
Mode 76	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE40	159	5795	MCS0	-	-
Mode 77	U-NII-3	5.725-5.85	TxBF 1+2	802.11ax HE80	155	5775	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
78	-	-	1	Bluetooth LE	39	2480	2Mbps	-	-
	U-NII-2C	5.47-5.725	CDD 1+2	802.11ax HE80	106	5530	MCS0	-	-
	-	-	3	LTE B48 CA	-	-	-	-	-



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.9	51.33	54.00	-2.67	H	AVERAGE	Pass	Band Edge
2	802.11a	44	5148.76	47.85	54.00	-6.15	H	AVERAGE	Pass	Band Edge
3	802.11a	48	5146.77	48.12	54.00	-5.88	H	AVERAGE	Pass	Band Edge
4	802.11ax HE20	36	5149.94	52.86	54.00	-1.14	H	AVERAGE	Pass	Band Edge
5	802.11ax HE20 RU106/53	36	5149.98	47.50	54.00	-6.50	H	AVERAGE	Pass	Band Edge
6	802.11ax HE20	44	5147.08	48.28	54.00	-5.72	H	AVERAGE	Pass	Band Edge
7	802.11ax HE20	48	5148.21	47.79	54.00	-6.21	H	AVERAGE	Pass	Band Edge
8	802.11ax HE40	38	5149.91	53.03	54.00	-1.17	V	AVERAGE	Pass	Band Edge
9	802.11ax HE40	46	5049.56	49.53	54.00	-4.47	H	AVERAGE	Pass	Band Edge
10	802.11ax HE80	42	5149.21	51.93	54.00	-2.07	H	AVERAGE	Pass	Band Edge
11	802.11a	52	5145.48	47.29	54.00	-6.71	H	AVERAGE	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
12	802.11a	60	5118.96	47.16	54.00	-6.84	H	AVERAGE	Pass	Band Edge
13	802.11a	64	5350.01	50.94	54.00	-3.06	H	AVERAGE	Pass	Band Edge
14	802.11ax HE20	52	5078.36	47.48	54.00	-6.52	V	AVERAGE	Pass	Band Edge
15	802.11ax HE20	60	5116.86	47.56	54.00	-6.44	H	AVERAGE	Pass	Band Edge
16	802.11ax HE20	64	5350.18	50.82	54.00	-3.18	H	AVERAGE	Pass	Band Edge
17	802.11ax HE20 RU106/54	64	5350.01	47.04	54.00	-6.96	H	AVERAGE	Pass	Band Edge
18	802.11ax HE40	54	5148.34	48.25	54.00	-5.75	H	AVERAGE	Pass	Band Edge
19	802.11ax HE40	62	5350.58	52.77	54.00	-1.23	H	AVERAGE	Pass	Band Edge
20	802.11ax HE80	58	5350.01	52.63	54.00	-1.37	H	AVERAGE	Pass	Band Edge
21	802.11a	100	5458.99	49.19	54.00	-4.81	H	AVERAGE	Pass	Band Edge
22	802.11a	116	5450.63	46.13	54.00	-7.87	V	AVERAGE	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11a	140	5725.19	62.18	68.30	-6.12	V	PEAK	Pass	Band Edge
24	802.11ax HE20	100	5458.15	51.37	54.00	-2.63	H	AVERAGE	Pass	Band Edge
25	802.11ax HE20 RU106/53	100	5459.87	46.8	54.00	-7.2	H	AVERAGE	Pass	Band Edge
26	802.11ax HE20	116	5458.91	46.38	54.00	-7.62	H	AVERAGE	Pass	Band Edge
27	802.11ax HE20	140	5726.95	65.73	68.30	-2.57	V	PEAK	Pass	Band Edge
28	802.11ax HE20 RU106/54	140	5725.81	58.64	68.30	-9.66	H	AVERAGE	Pass	Band Edge
29	802.11ax HE40	102	5469.77	67.13	68.30	-1.17	H	PEAK	Pass	Band Edge
30	802.11ax HE40	110	5374.11	48.51	54.00	-5.49	V	AVERAGE	Pass	Band Edge
31	802.11ax HE40	134	5731.52	63.29	68.30	-5.01	V	PEAK	Pass	Band Edge
32	802.11ax HE80	106	5464.94	67.29	68.30	-1.01	H	PEAK	Pass	Band Edge
33	802.11ax HE80	122	5395.26	50.88	54.00	-3.12	V	AVERAGE	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
34	802.11a	144	11440.00	45.51	74.00	-28.49	H	PEAK	Pass	Harmonic
35	802.11ax HE20	144	11440.00	45.55	74.00	-28.45	H	PEAK	Pass	Harmonic
36	802.11ax HE40	142	11420.00	46.17	74.00	-27.83	H	PEAK	Pass	Harmonic
37	802.11ax HE80	138	11380.00	45.51	74.00	-28.49	V	PEAK	Pass	Harmonic
38	802.11a	149	5624.87	58.76	68.30	-9.54	H	PEAK	Pass	Band Edge
39	802.11a	157	5927.98	57.94	68.30	-10.36	H	PEAK	Pass	Band Edge
40	802.11a	165	5947.18	58.25	68.30	-10.05	H	PEAK	Pass	Band Edge
41	802.11ax HE20	149	5648.65	59.10	68.30	-9.20	H	PEAK	Pass	Band Edge
42	802.11ax HE20 RU106/53	149	5622.26	57.68	68.30	-10.62	V	PEAK	Pass	Band Edge
43	802.11ax HE20	157	5645.23	59.18	68.30	-9.12	H	PEAK	Pass	Band Edge
44	802.11ax HE20	165	5941.73	59.77	68.3	-8.53	H	PEAK	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
45	802.11ax HE20 RU106/54	165	5933.69	58.56	68.30	-9.74	V	PEAK	Pass	Band Edge
46	802.11ax HE40	151	5619.77	58.92	68.30	-9.38	H	PEAK	Pass	Band Edge
47	802.11ax HE40	159	5940.47	57.66	68.30	-10.64	V	PEAK	Pass	Band Edge
48	802.11ax HE80	155	5609.37	60.90	68.30	-7.40	H	PEAK	Pass	Band Edge
49	802.11ax HE20	36	5114.40	51.62	54.00	-2.38	V	Average	Pass	Band Edge
50	802.11ax HE20	44	5126.88	51.56	54.00	-2.44	V	Average	Pass	Band Edge
51	802.11ax HE20	48	5386.50	49.36	54.00	-4.64	V	Average	Pass	Band Edge
52	802.11ax HE20	52	5120.32	51.37	54.00	-2.63	V	Average	Pass	Band Edge
53	802.11ax HE20	60	5116.32	51.36	54.00	-2.64	H	Average	Pass	Band Edge
54	802.11ax HE20	64	5355.100	49.47	54.00	-4.53	H	Average	Pass	Band Edge
55	802.11ax HE20	100	5459.12	50.18	54.00	-3.82	H	Average	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
56	802.11ax HE20	116	5455.44	50.01	54.00	-3.99	H	Average	Pass	Band Edge
57	802.11ax HE20	140	5725.80	67.09	68.30	-1.21	H	Peak	Pass	Band Edge
58	802.11ax HE40	38	5121.60	52.74	54.00	-1.26	H	Average	Pass	Band Edge
59	802.11ax HE40	46	5119.84	52.96	54.00	-1.04	H	Average	Pass	Band Edge
60	802.11ax HE40	54	5113.12	52.96	54.00	-1.04	V	Average	Pass	Band Edge
61	802.11ax HE40	62	5121.28	52.88	54.00	-1.12	H	Average	Pass	Band Edge
62	802.11ax HE40	102	5457.52	51.88	54.00	-2.12	H	Average	Pass	Band Edge
63	802.11ax HE40	110	5457.20	51.52	54.00	-2.48	H	Average	Pass	Band Edge
64	802.11ax HE40	134	5449.36	51.26	54.00	-2.74	H	Average	Pass	Band Edge
65	802.11ax HE80	42	5350.14	52.89	54.00	-1.11	V	Average	Pass	Band Edge
66	802.11ax HE80	58	5113.92	52.89	54.00	-1.11	V	Average	Pass	Band Edge

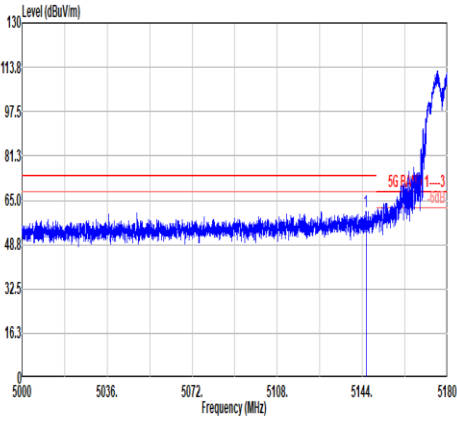
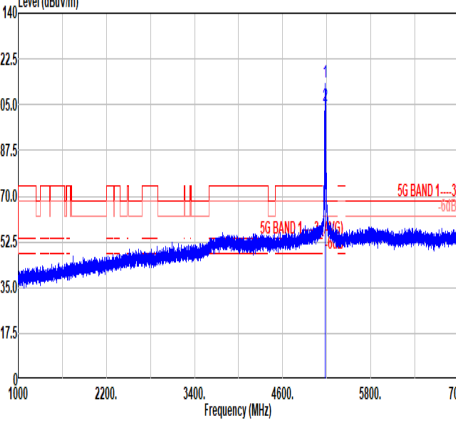
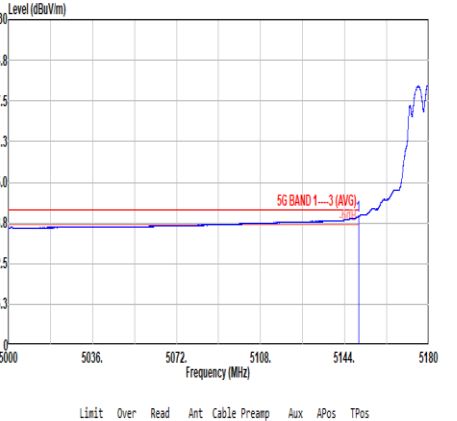


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
67	802.11ax HE80	106	5453.68	52.87	54.00	-1.13	V	Average	Pass	Band Edge
68	802.11ax HE80	122	5452.56	52.92	54.00	-1.08	V	Average	Pass	Band Edge
69	802.11ax HE20	144	11444	45.07	74.00	-28.93	H	Peak	Pass	Harmonic
70	802.11ax HE40	142	11420.00	45.37	74.00	-28.63	V	Peak	Pass	Harmonic
71	802.11ax HE80	138	11380.00	45.76	74.00	-28.24	H	Peak	Pass	Harmonic
72	802.11ax HE20	149	5634	56.88	68.3	-11.42	V	Peak	Pass	Band Edge
73	802.11ax HE20	157	5952.80	59.25	68.30	-9.05	H	Peak	Pass	Band Edge
74	802.11ax HE20	165	5966.40	58.19	68.30	-10.11	V	Peak	Pass	Band Edge
75	802.11ax HE40	151	5950	58.07	68.30	-10.23	V	Peak	Pass	Band Edge
76	802.11ax HE40	159	5971.20	57.99	68.30	-10.31	V	Peak	Pass	Band Edge
77	802.11ax HE80	155	5974.40	58.88	68.30	-9.42	V	Peak	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
78	Bluetooth LE	39	2492.14	40.28	54	-13.72	V	Average	Pass	Band Edge
	802.11ax HE80	106	5460.00	52.18	54	-1.82	V	Average	Pass	Band Edge
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Peak	 <table border="1" data-bbox="316 1198 774 1310"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5145.55</td> <td>60.94</td> <td>74.00</td> <td>-13.06</td> <td>44.60</td> <td>35.03</td> <td>10.62</td> <td>29.31</td> <td>0.00</td> <td>213</td> <td>0 PEAK</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5145.55	60.94	74.00	-13.06	44.60	35.03	10.62	29.31	0.00	213	0 PEAK	 <table border="1" data-bbox="954 1198 1412 1332"> <thead> <tr> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5180.00</td> <td>113.45</td> <td>68.30</td> <td>45.15</td> <td>97.10</td> <td>35.06</td> <td>10.63</td> <td>29.34</td> <td>0.00</td> <td>213</td> <td>0 PEAK</td> </tr> <tr> <td>2</td> <td>5180.00</td> <td>104.86</td> <td>-----</td> <td>-----</td> <td>88.51</td> <td>35.06</td> <td>10.63</td> <td>29.34</td> <td>0.00</td> <td>213</td> <td>0 AVERAGE</td> </tr> </tbody> </table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5180.00	113.45	68.30	45.15	97.10	35.06	10.63	29.34	0.00	213	0 PEAK	2	5180.00	104.86	-----	-----	88.51	35.06	10.63	29.34	0.00	213	0 AVERAGE
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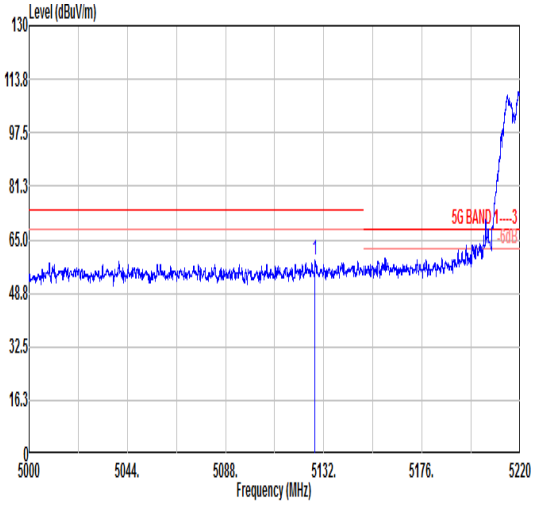
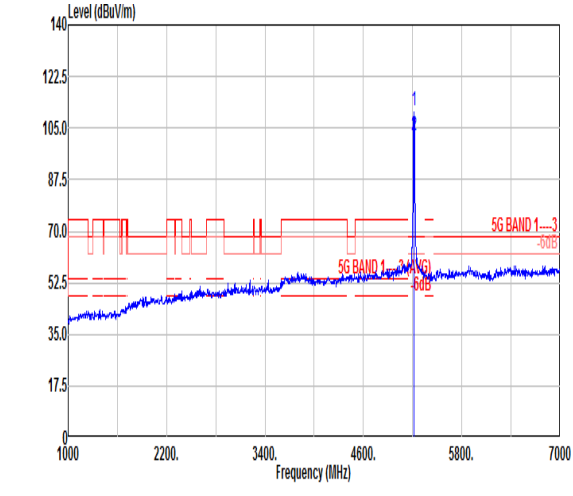
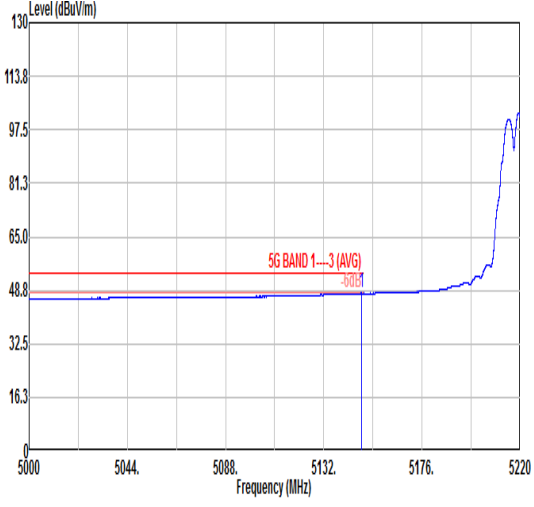


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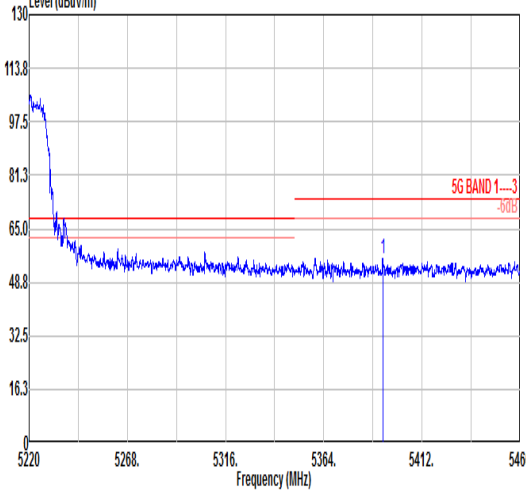
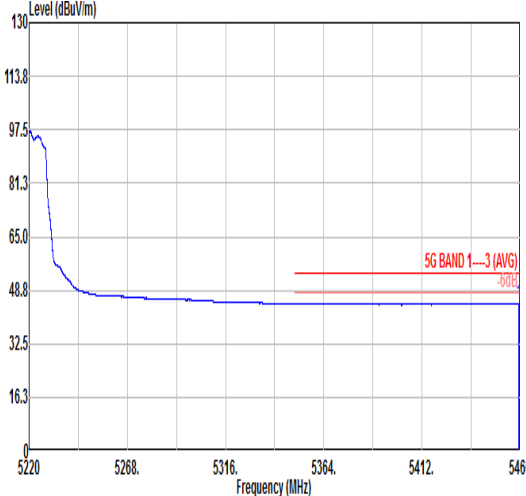


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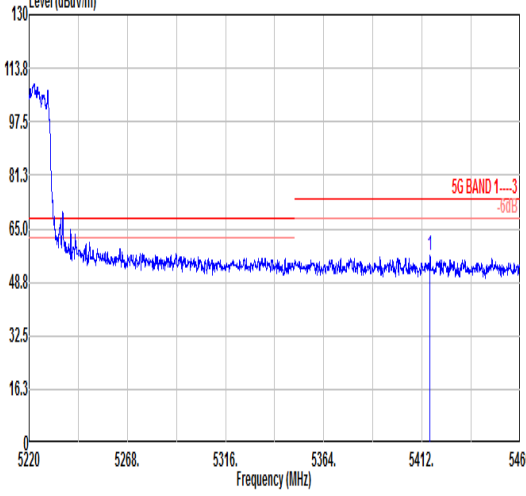
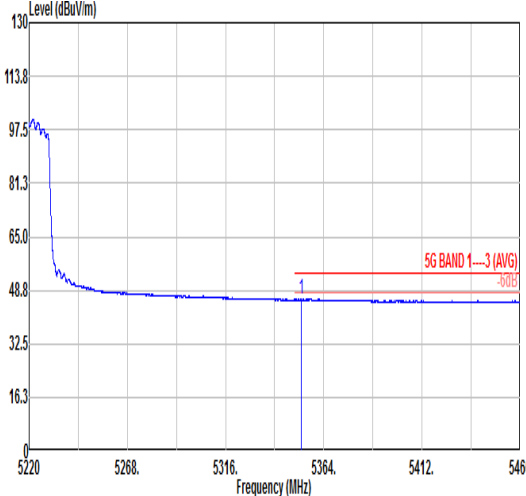


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1	5039.50	47.49	54.00	-6.51	31.95	34.18	10.58	29.22	0.00	319	31	AVERAGE																																																																																			



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