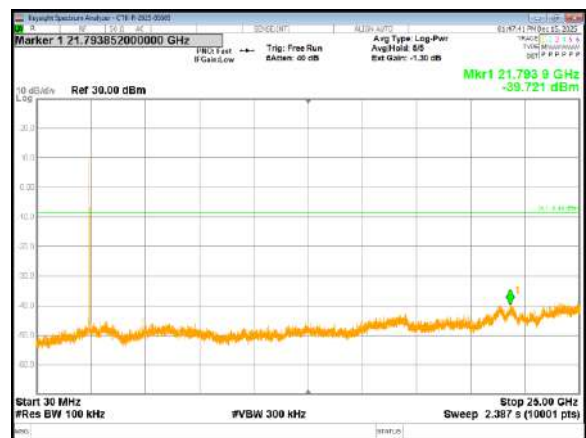
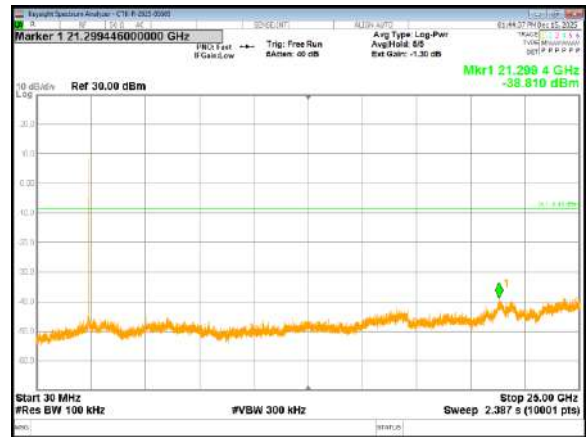




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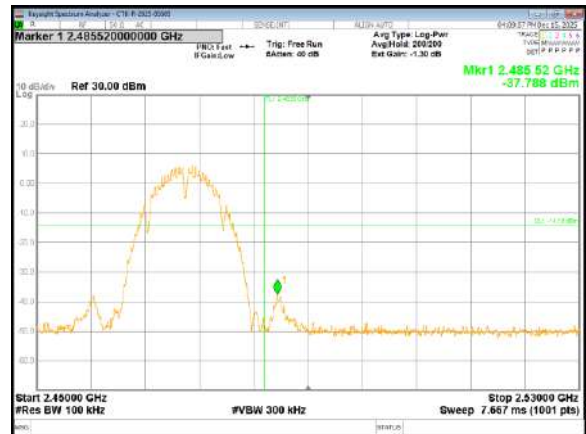
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ANT1, 802.11b, Band-edge



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ANT1, 802.11b, Spurious



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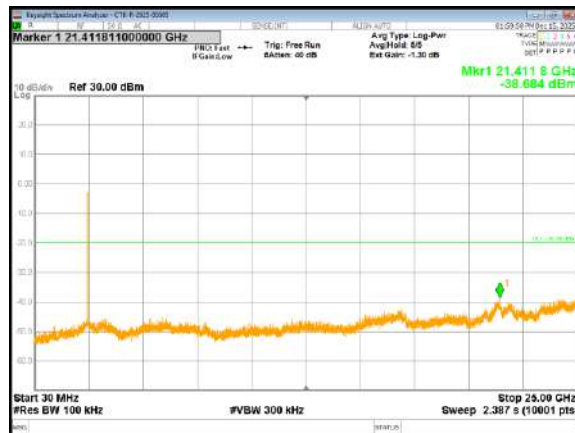
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ANT0, 802.11g, Spurious



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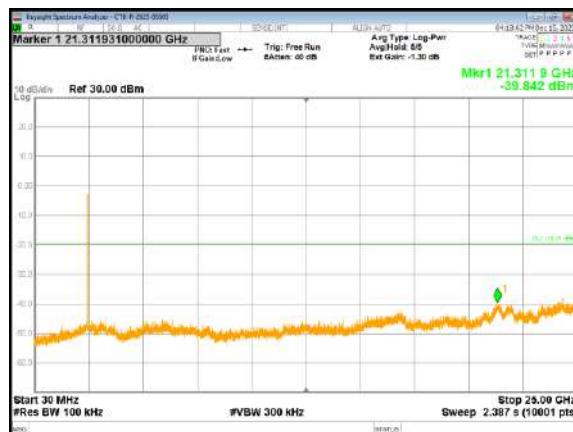
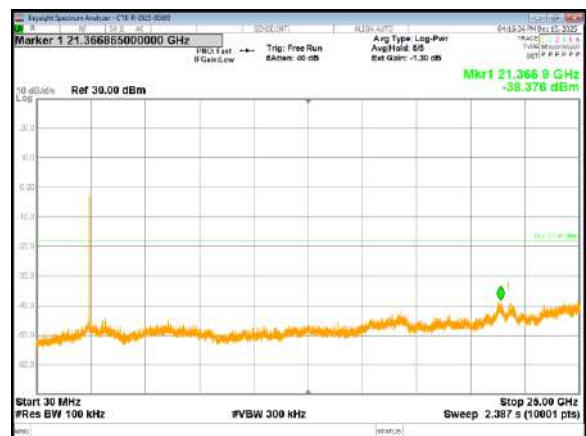
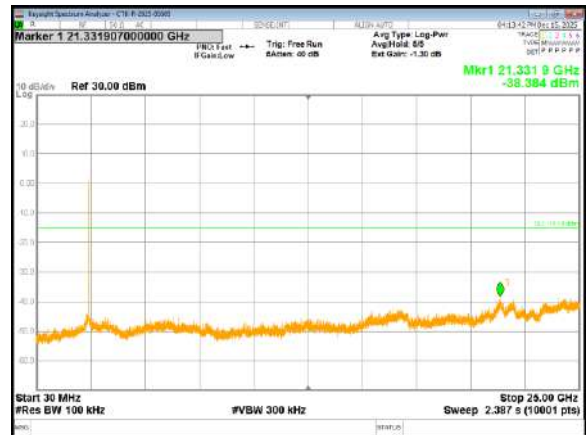
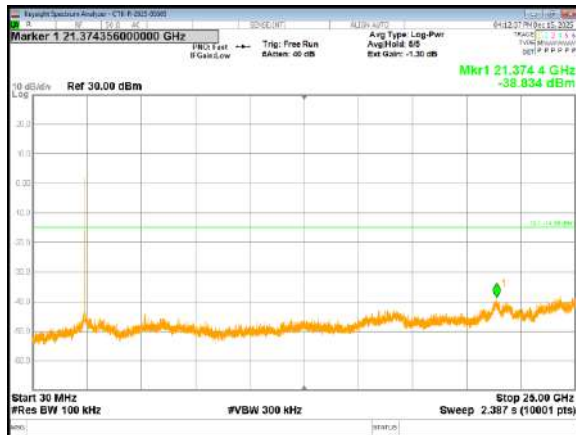
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ANT1, 802.11g, Spurious



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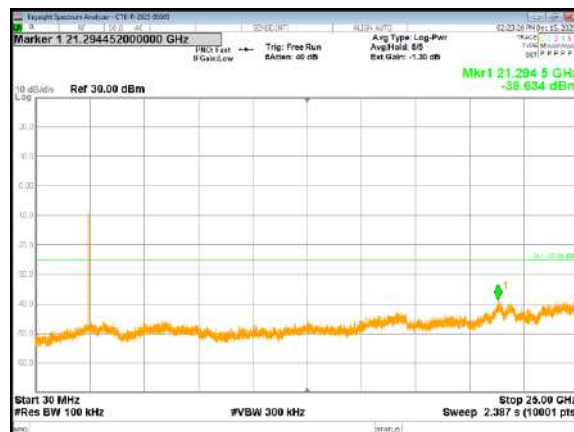
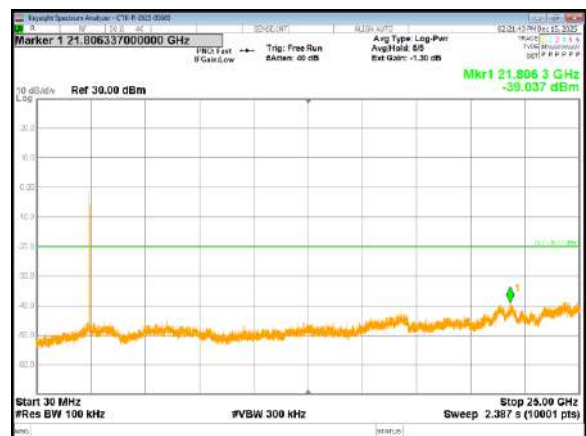
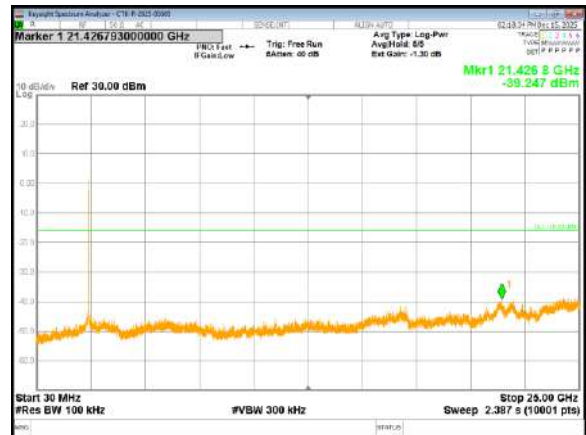
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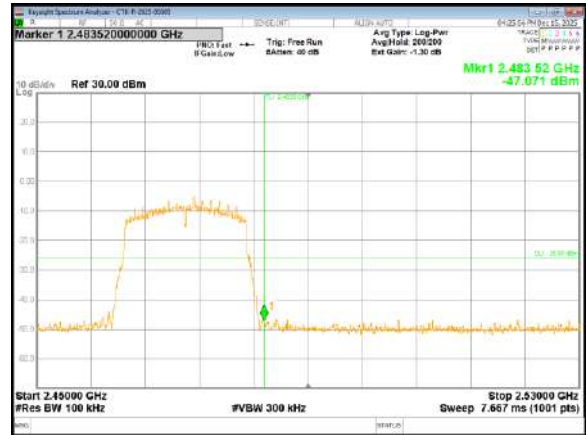
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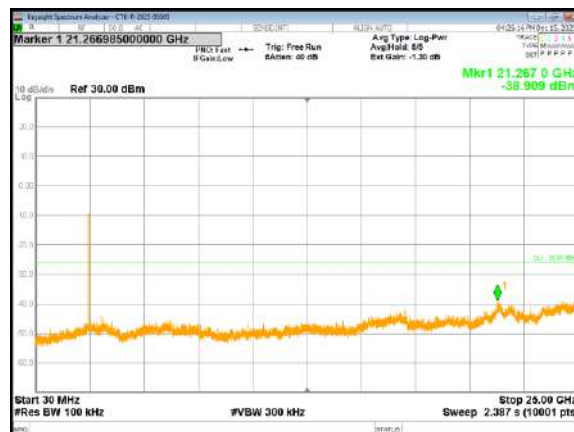
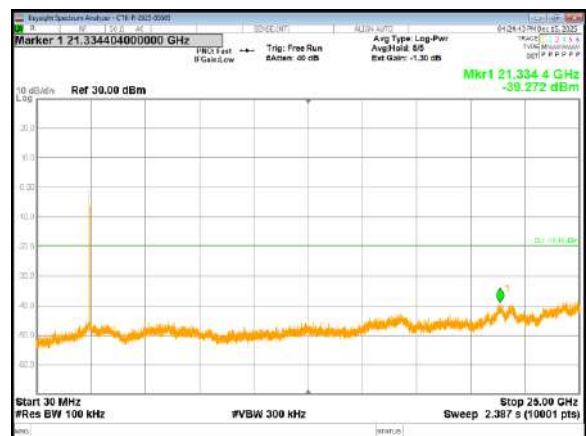
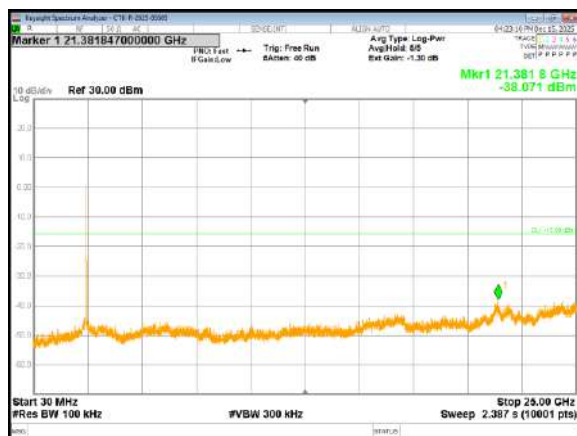
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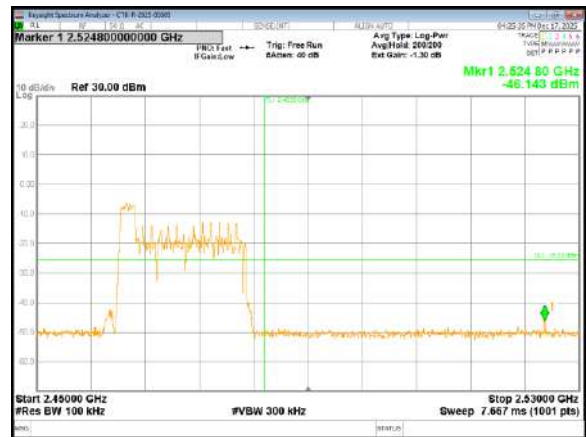
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ANT0, 802.11ax_HE20_26T_Low, Band-edge



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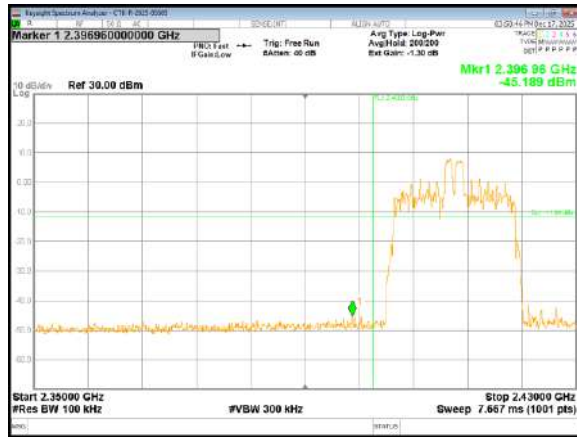
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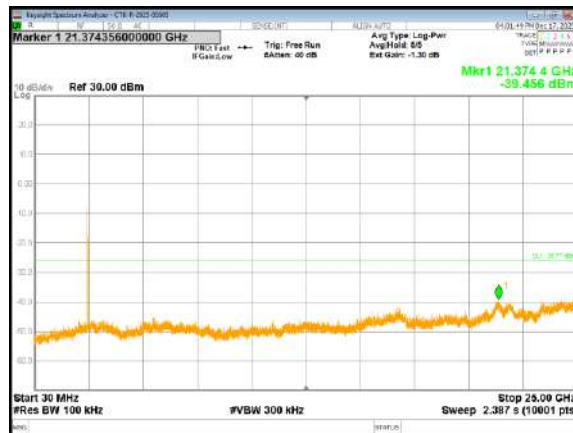
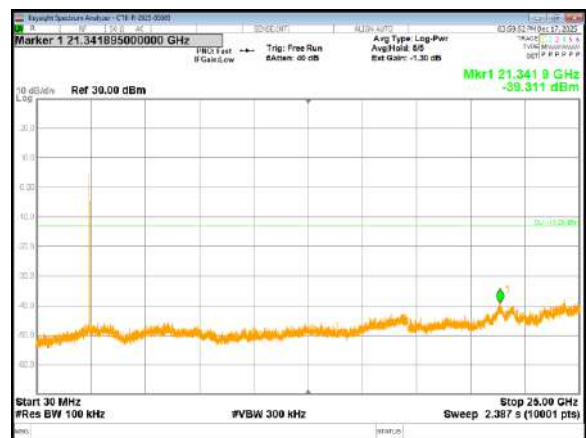
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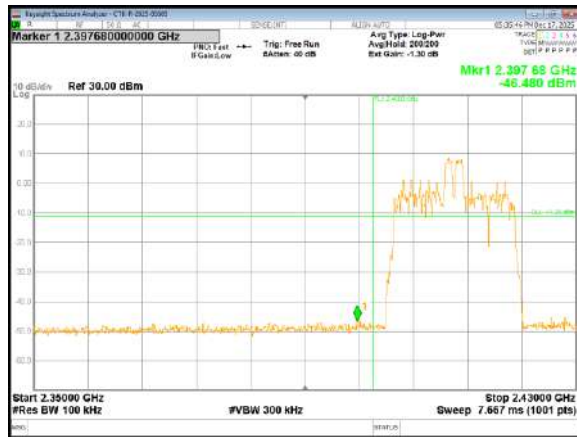
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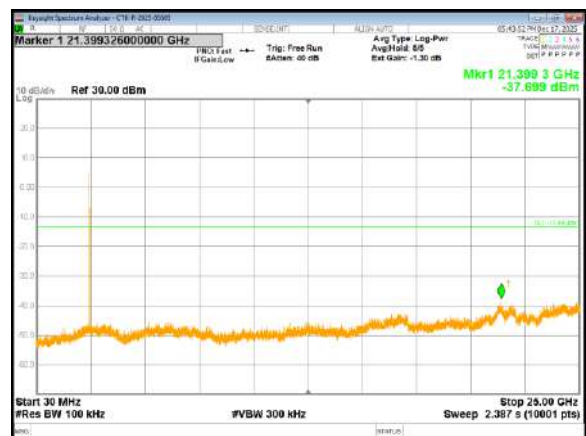
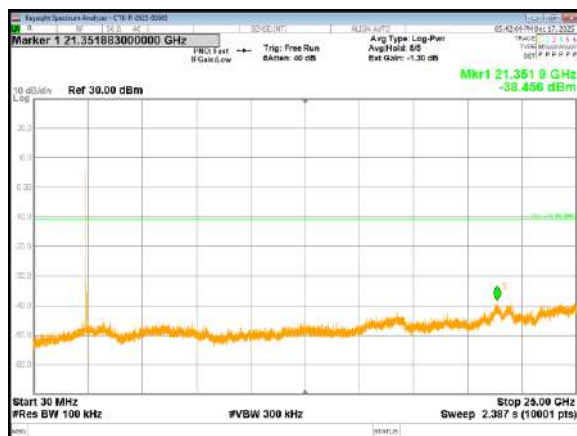
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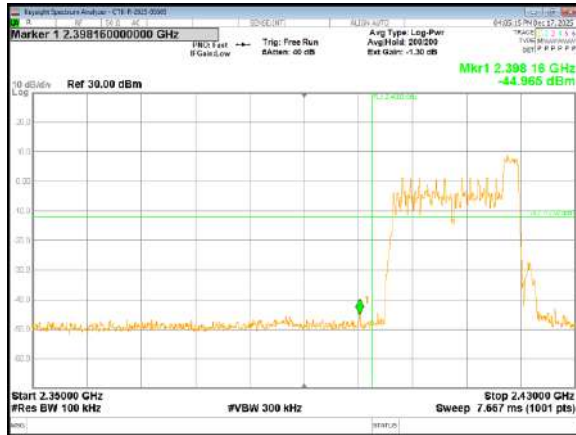
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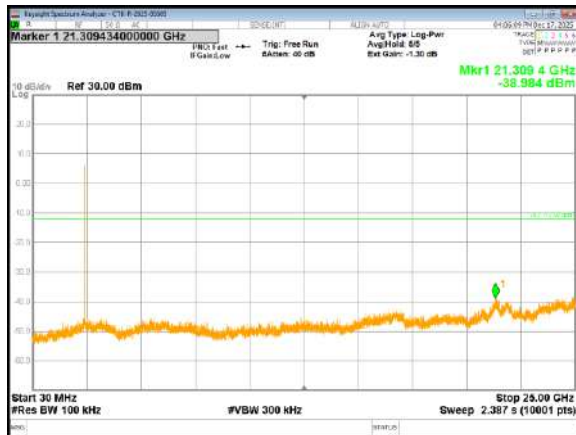
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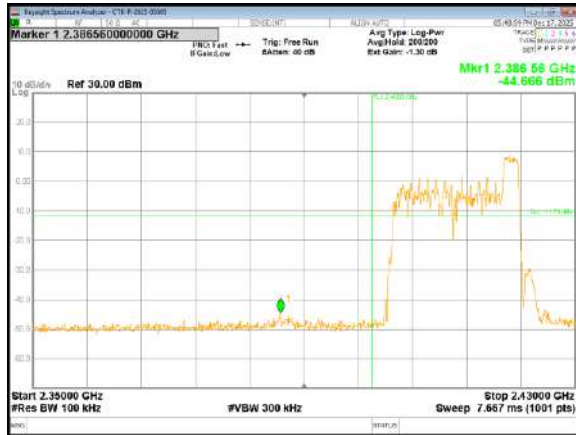
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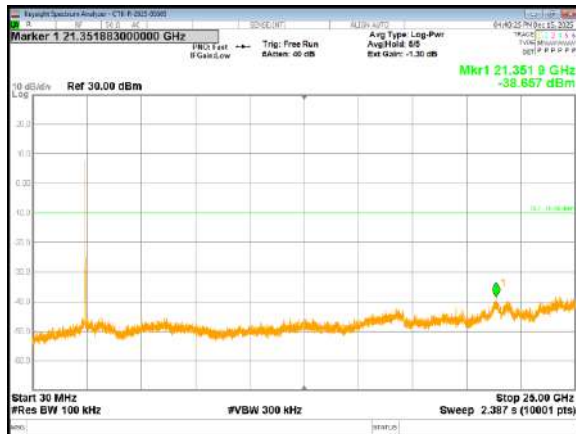
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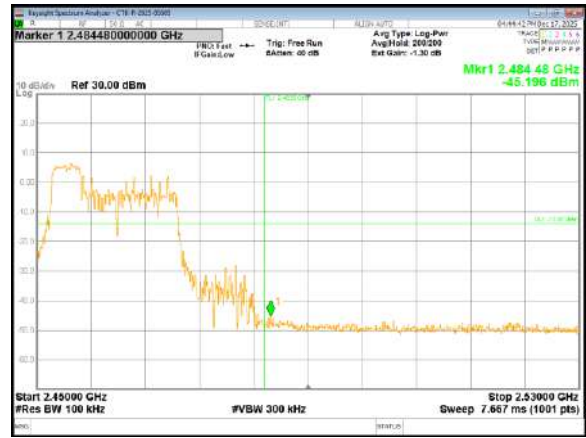
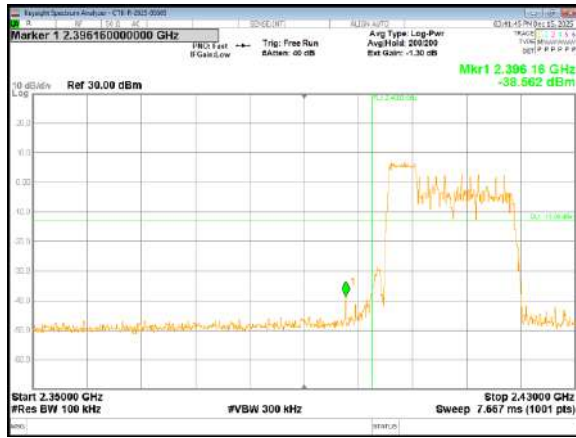
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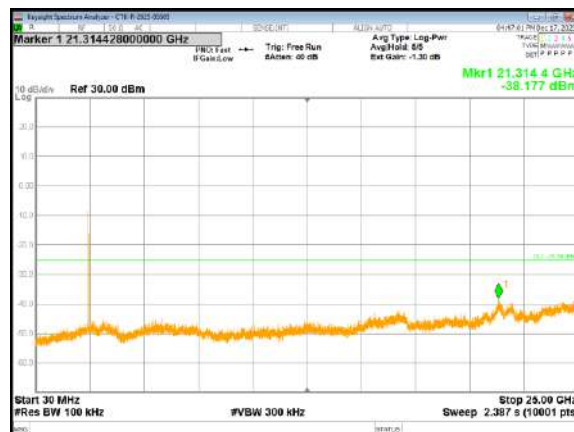
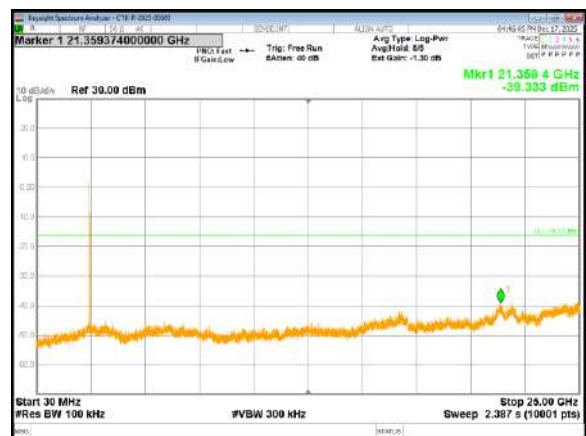
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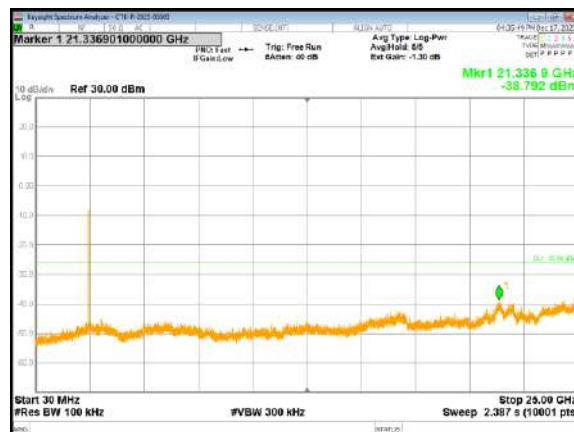
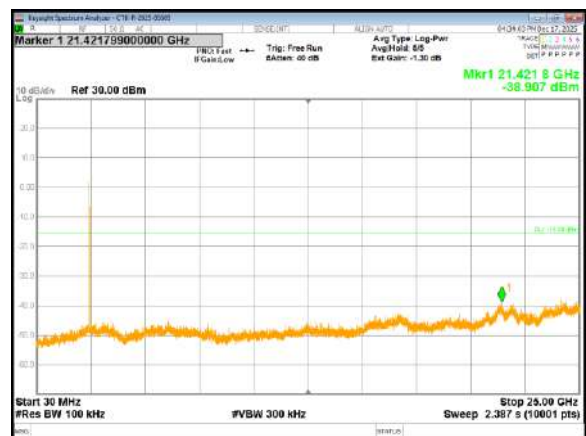
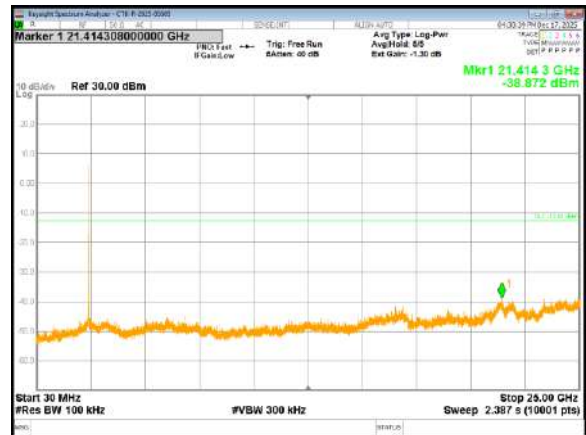
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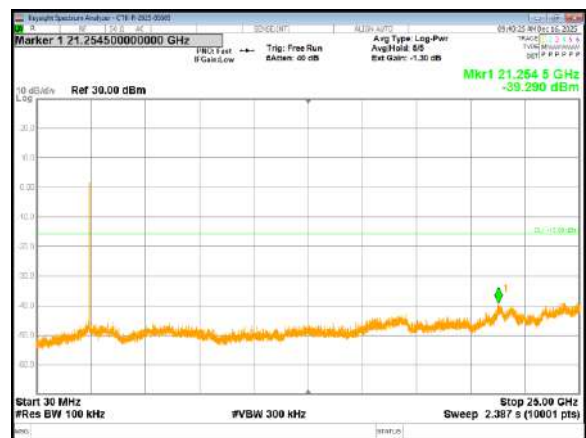
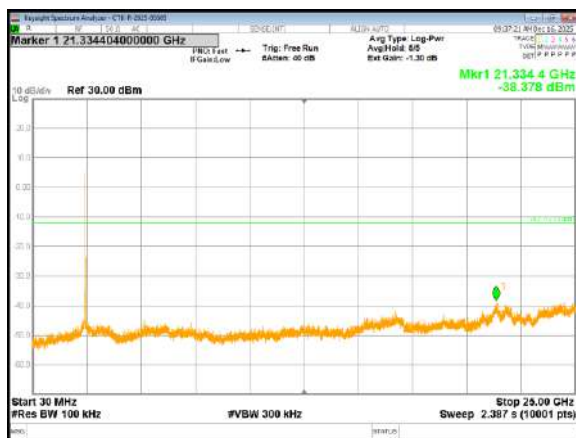
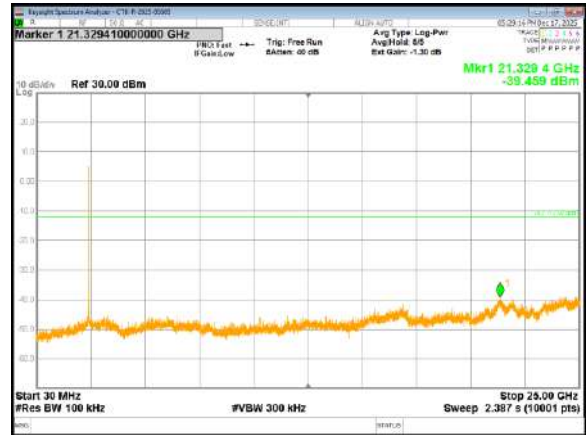
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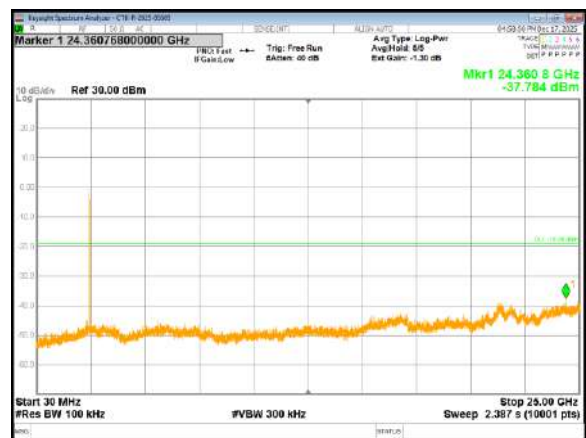
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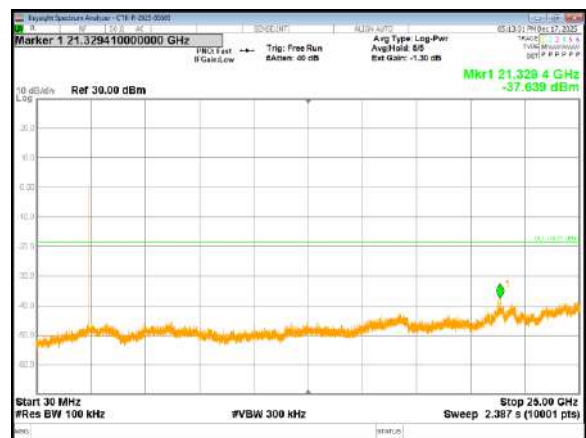
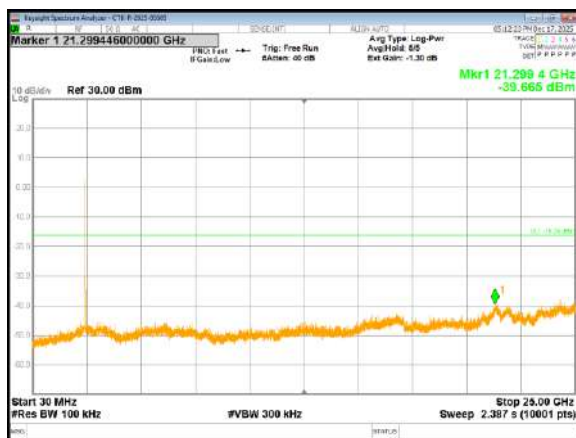
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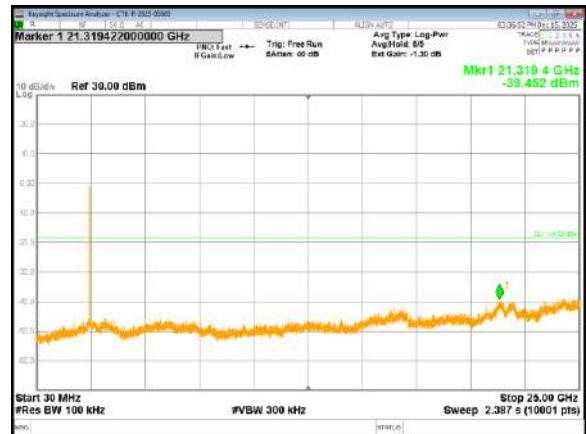
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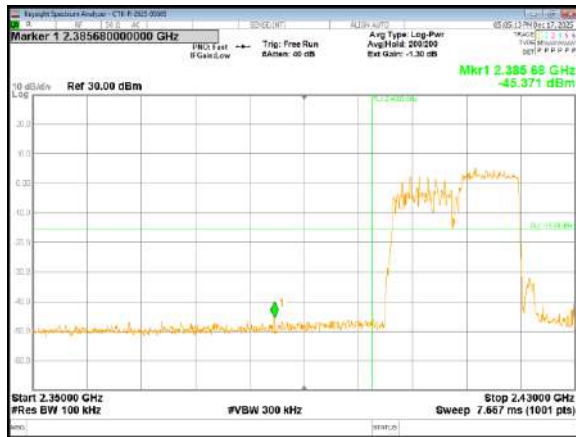
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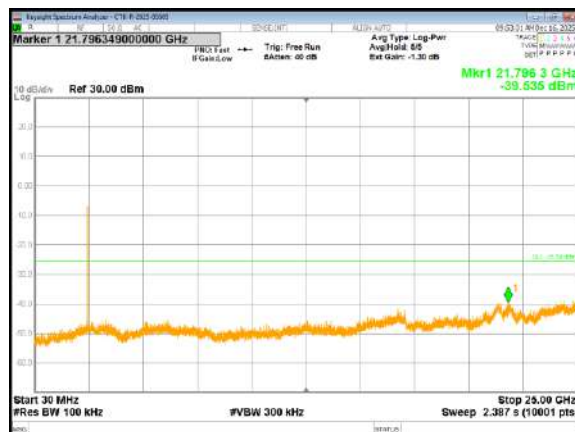
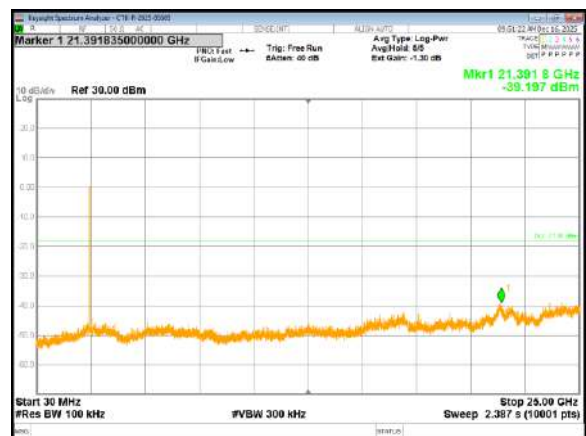
ANT1, 802.11ax_HE20_106T_High, Band-edge



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ANT1, 802.11ax_HE20_106T_High, Spurious



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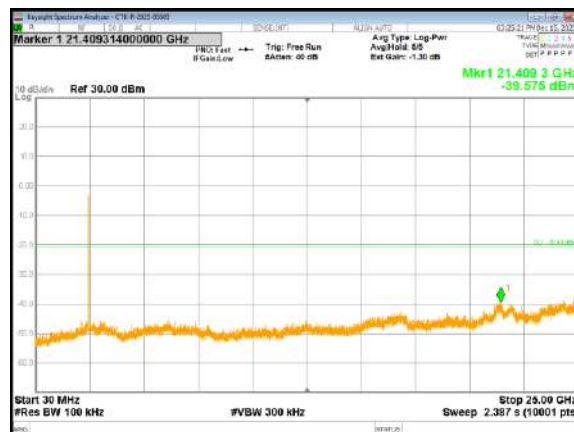
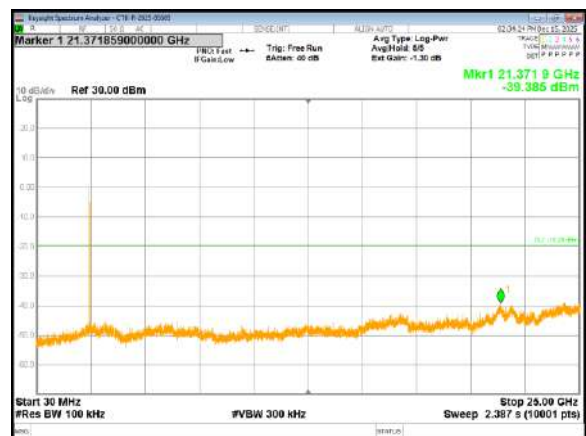
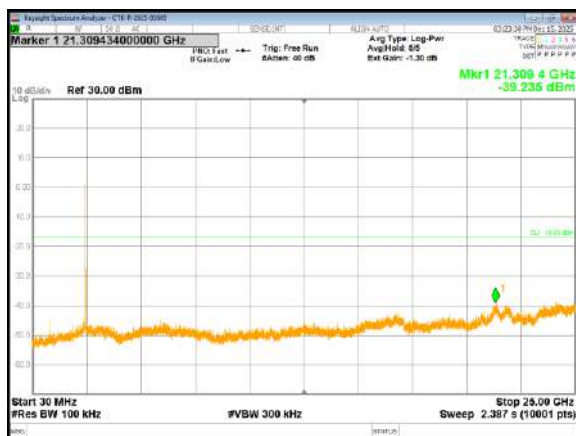
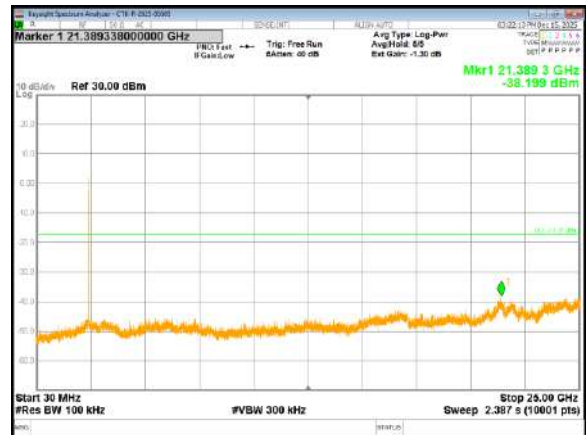
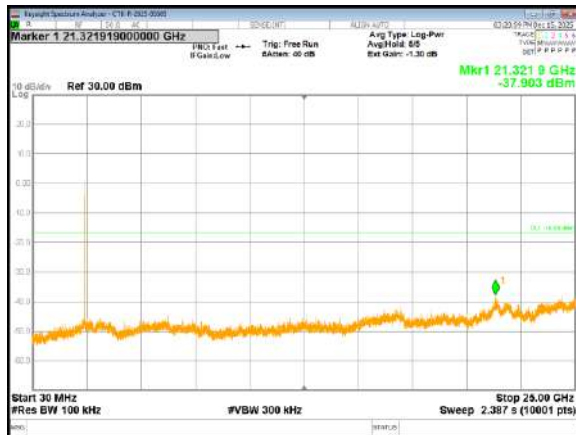
ANT0, 802.11ax_HE20_242T, Band-edge



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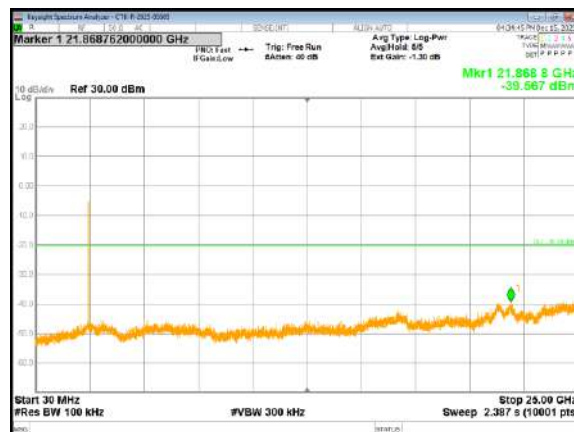
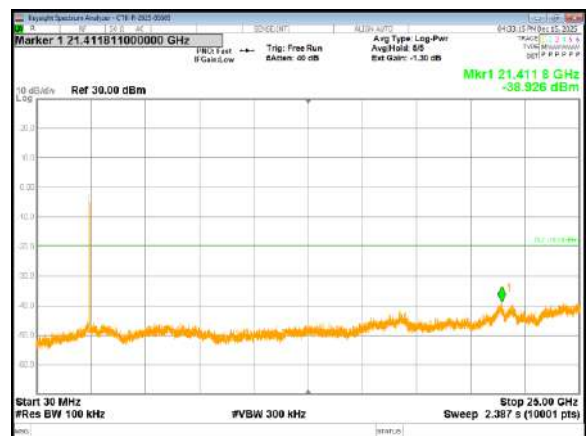
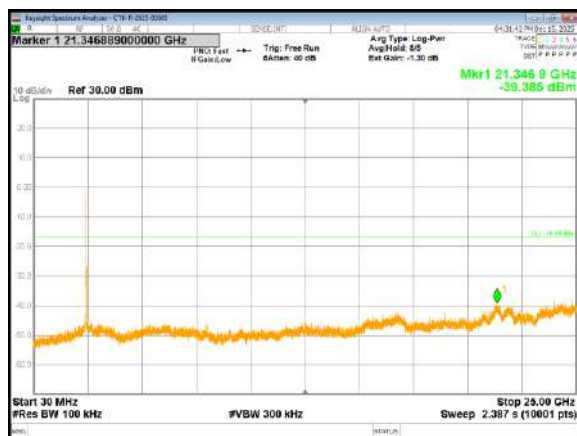
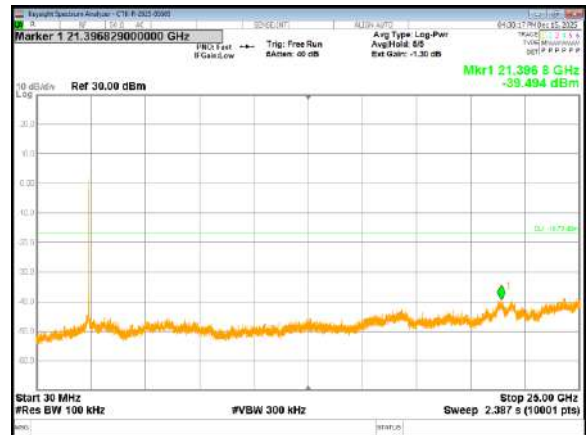
ANT1, 802.11ax_HE20_242T, Band-edge



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4.5 Radiated Emission

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6

ANSI C63.10-2020 - Section 11.11, 11.12

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1 m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna (30 MHz to 1 GHz) and Horn Test Antenna (above 1 GHz) are used. Test Antenna is 3 m away from the EUT. Test Antenna height is carried from 1 m to 4 m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz to 1 GHz

a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz

b) VBW $\geq$ RBW

c) Detector = CISPR Quasi-peak

d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz to 26.5 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = peak

d) Sweep time = auto

e) Trace mode = max hold

- Average (duty cycle ≥ 98 %)

Frequency Range = 1 GHz to 26.5 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

- Average (duty cycle < 98 %, duty cycle variations are less than ± 2 %)

Frequency Range = 1 GHz to 26.5 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

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A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Test Mode	Duty Cycle Factor	Test Mode	Duty Cycle Factor
802.11b	0.00 dB	802.11ax_HE20_26T	0.81 dB
802.11g	0.12 dB	802.11ax_HE20_52T	0.89 dB
802.11n_HT20	0.13 dB	802.11ax_HE20_106T	0.96 dB
		802.11ax_HE20_242T	1.15 dB

Limit :

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Table 1. Restricted Frequency Bands (FCC)

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions.

The provisions in Section 15.35 apply to these measurements.

According to RSS-GEN §8.10 Unwanted emissions that fall into restricted frequency bands listed in table 2 shall comply with the limits specified in table 2.

Table 2. Restricted Frequency Bands (ISED)

MHz	MHz	MHz	MHz	MHz	GHz
0.090-0.110	8.291-8.294	25.5-25.67	322-335.4	2655-2900	10.6-12.7
0.495-0.505	8.362-8.366	37.5-38.25	399.9-410	3260 – 3267	13.25-13.4
2.1735-2.1905	8.37625-8.38675	73-74.6	608-614	3332-3339	14.47-14.5
3.020-3.026	8.41425-8.41475	74.8-75.2	960-1427	3345.8-3358	15.35-16.2
4.125-4.128	12.29-12.293	108 – 138	1435-1626.5	3500-4400	10.6-12.7
4.17725-4.17775	12.51975-12.52025	149.9-150.05	1645.5-1646.5	4500-5150	22.01-23.12
4.20725-4.20775	12.57675-12.57725	156.52475-156.52525	1660-1710	5350-5460	23.6-24.0
5.677-5.683	13.36-13.41	156.7-156.9	1718.8-1722.2	7250-7750	31.2-31.8
6.215-6.218	16.42-16.423	162.0125-167.17	2200-2300	8025-8500	36.43-36.5
6.26775-6.26825	16.69475-16.69525	167.72-173.2	2310-2390	9000-9200	Above 38.6
6.31175-6.31225	16.80425-16.80475	240 – 285	2483.5-2500	9300-9500	

Note 1: Certain frequency bands listed in table 2 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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FCC Part 15 § 15.209(a) and RSS-GEN § 8.9 Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 3 :

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 3 Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

Table 3. General Field Strength Limits for Licence-Exempt Transmitters (FCC&ISED)

Frequency [MHz]	Magnetic Field Strength [uA/m]	Field Strength [uV/m]	Field Strength [dBuV/m]	Deasurement Distance [meters]
0.009-0.490	6.37/F (F in kHz)	2400/F(kHz)	48.5-13.8	300
0.490-1.705	63.7/F (F in kHz)	24000/F(kHz)	33.8-23	30
1.705-30	0.08	30	29.5	30
30-88	-	100**	40	3
88-216	-	150**	43.5	3
216-960	-	200**	46	3
Above 960	-	500	54	3

** Except as provided in 15.209(g). Fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

** Except as provided in RSS-GEN § 8.9. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note :

- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3 m (AV) and 74 dBuV/m@3 m (PK)



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Test Mode :

We have done all test mode.

The worst-case antenna configuration and Test mode are determined to be as follows.

802.11b mode : ANT0, ANT 1

802.11g mode : ANT0, ANT1

802.11n mode : ANT0 + ANT1 (MIMO)

802.11ax mode : ANT0 + ANT1 (MIMO)

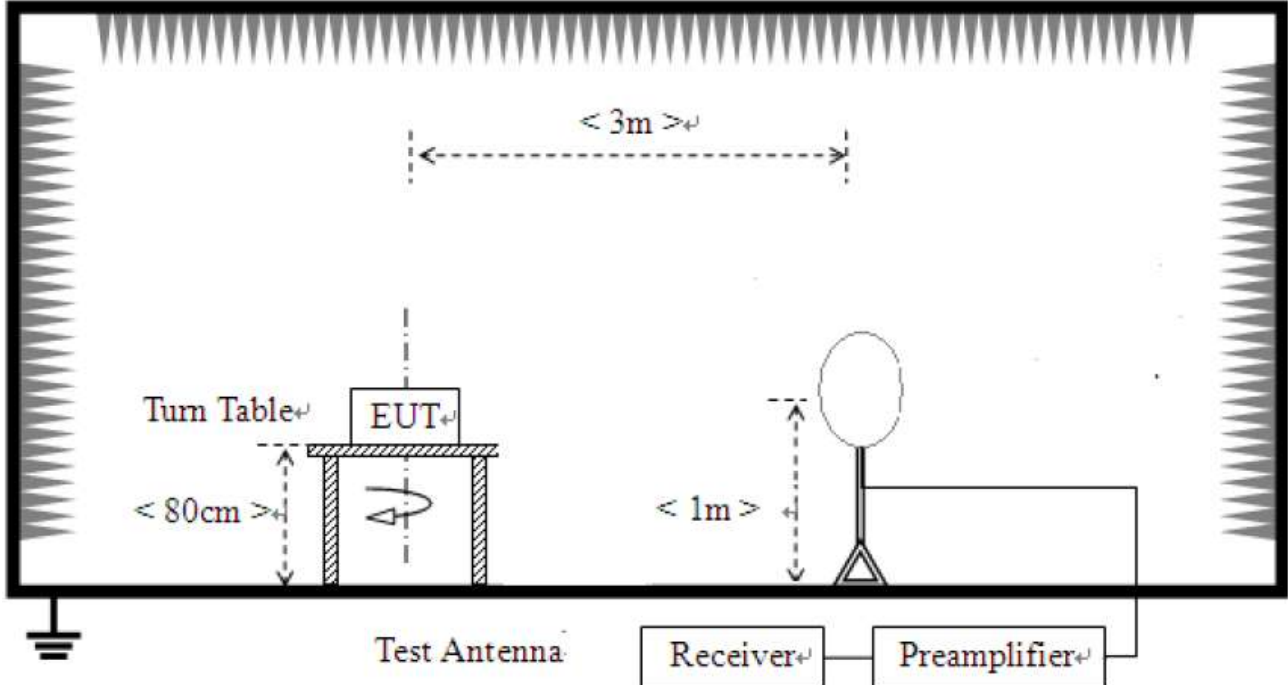
So the results are only attached worst cases.

802.11ax Test RU Index for Tones

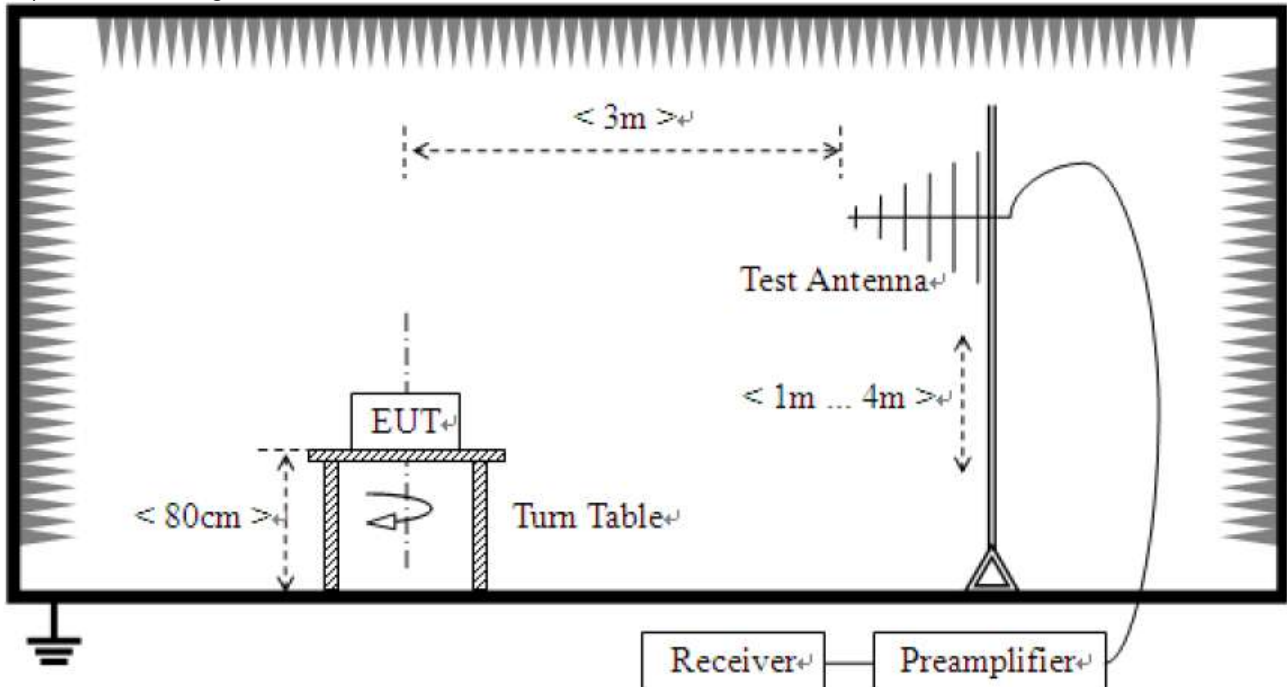
Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	20	2 412	26T	0	4
			52T	0	-
			106T	0	-
			242T	61	61
		2 442	26T	-	4
			52T	-	-
			106T	-	-
			242T	-	61
		2 462 / 2 467 / 2 472	26T	8	4
			52T	8	-
			106T	8	-
			242T	61	61

Test Setup :

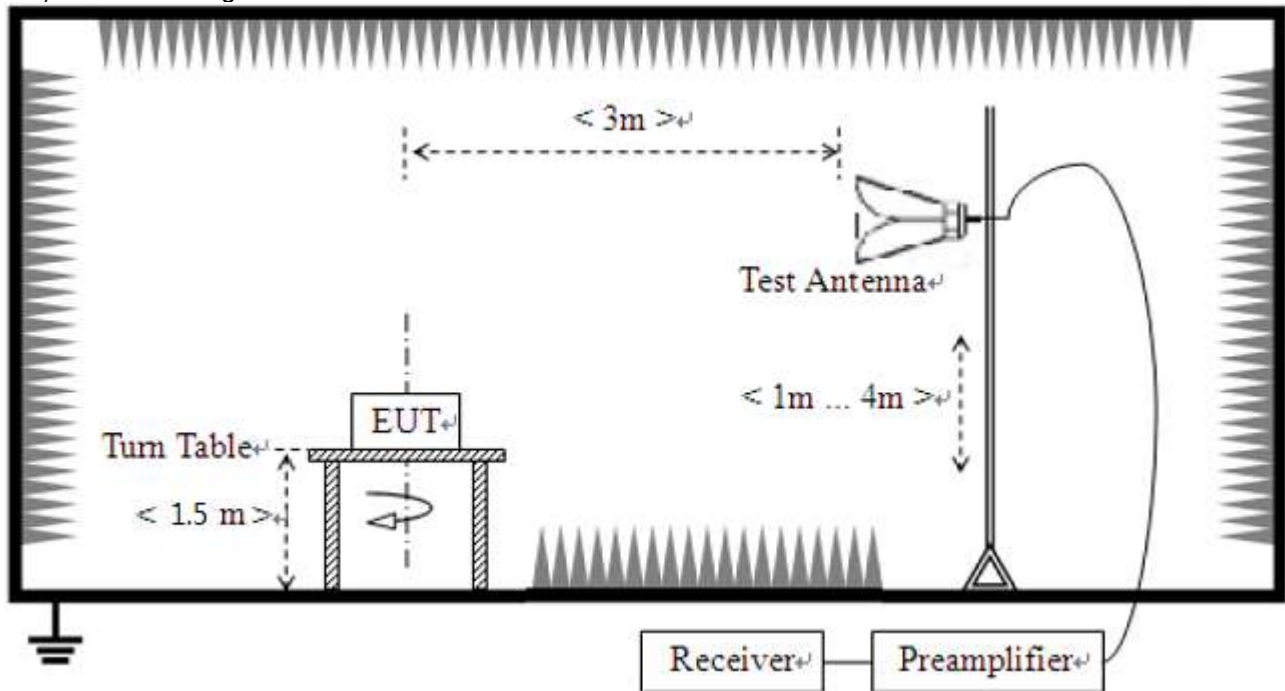
1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz





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Test Results :

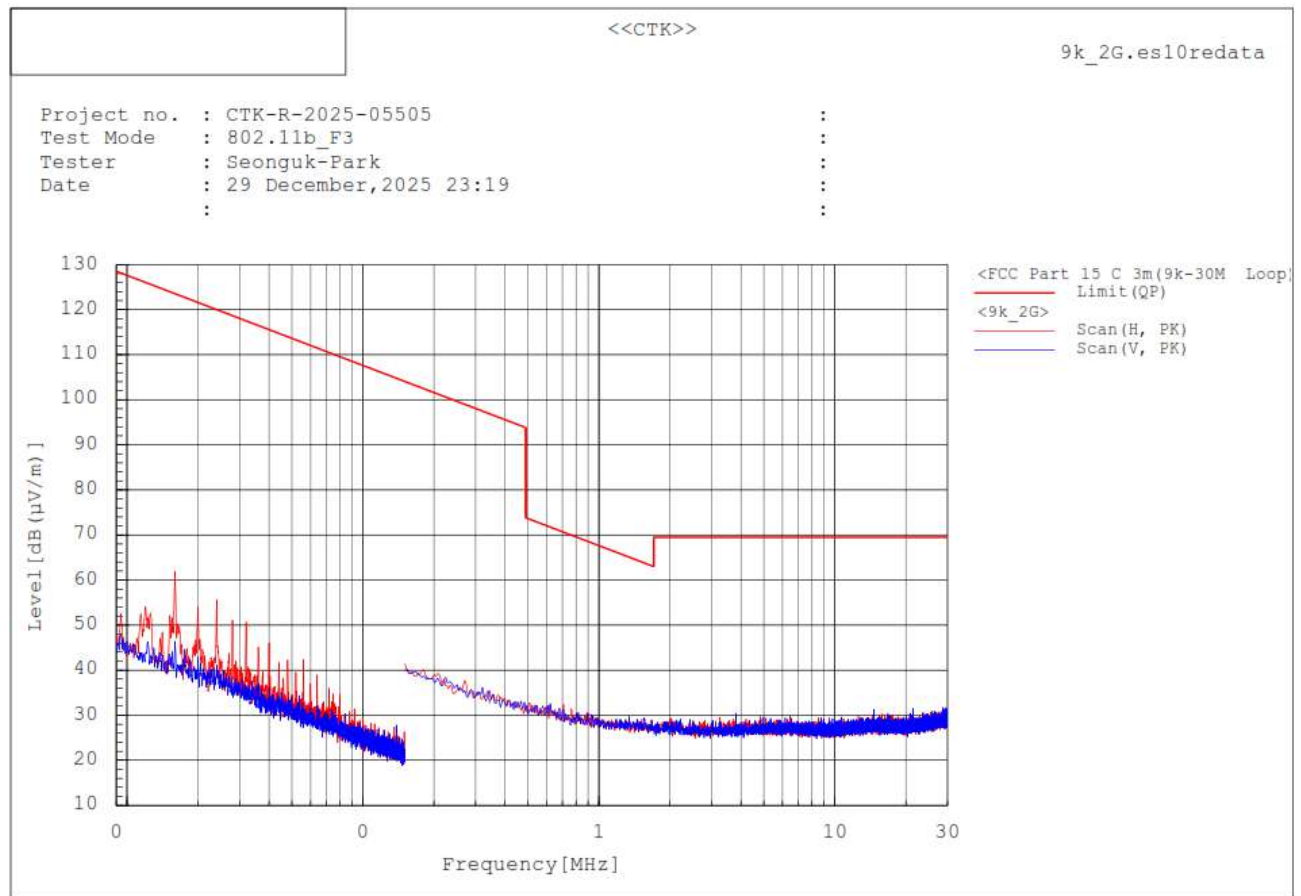
1) 9 kHz to 30 MHz

Test mode : Transmitter, 802.11b(Worst Case)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
5. This data is the Peak (PK) value.



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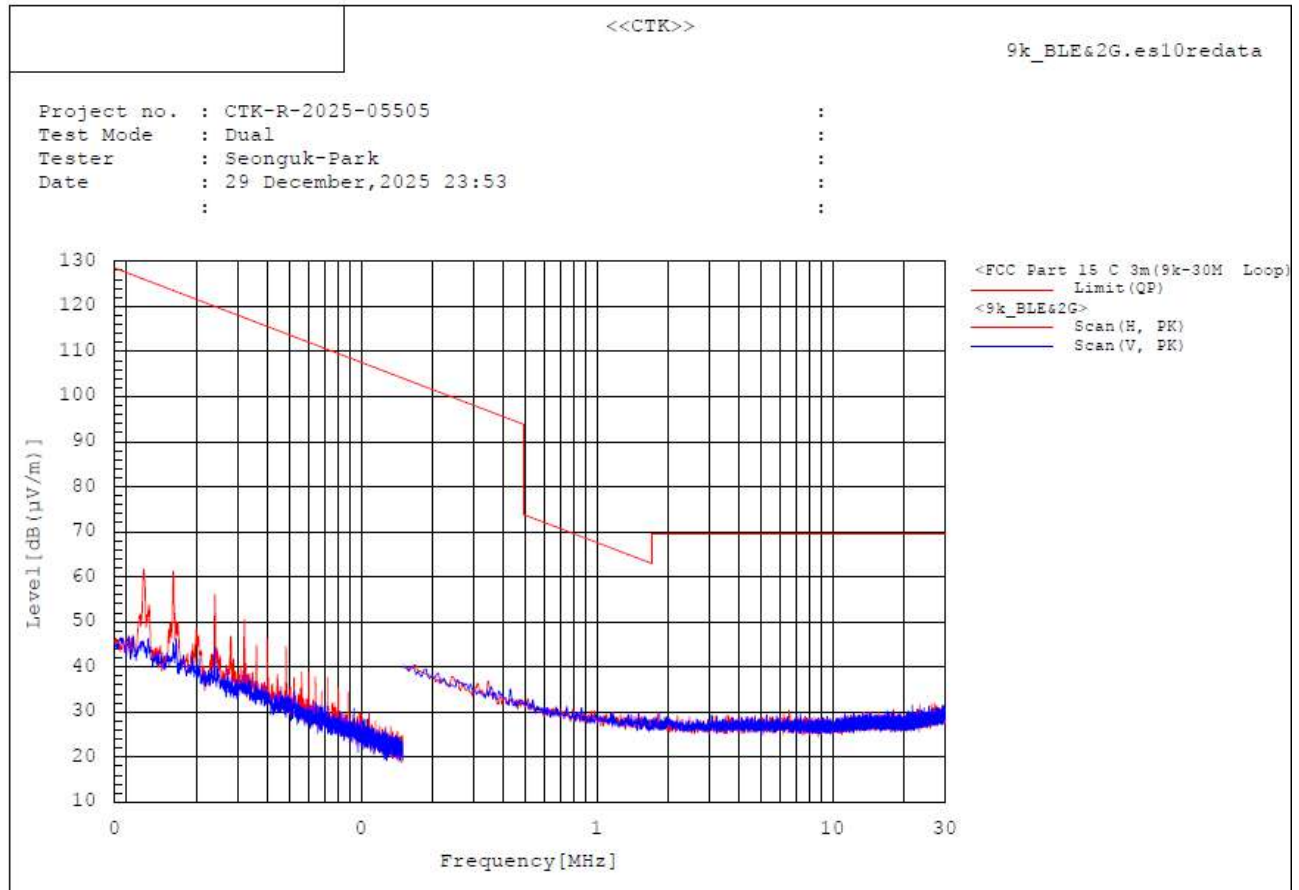
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Test Mode : Transmitter (Simultaneous transmissions DTS + 2.4 GHz + 6 GHz)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
5. This data is the Peak (PK) value.



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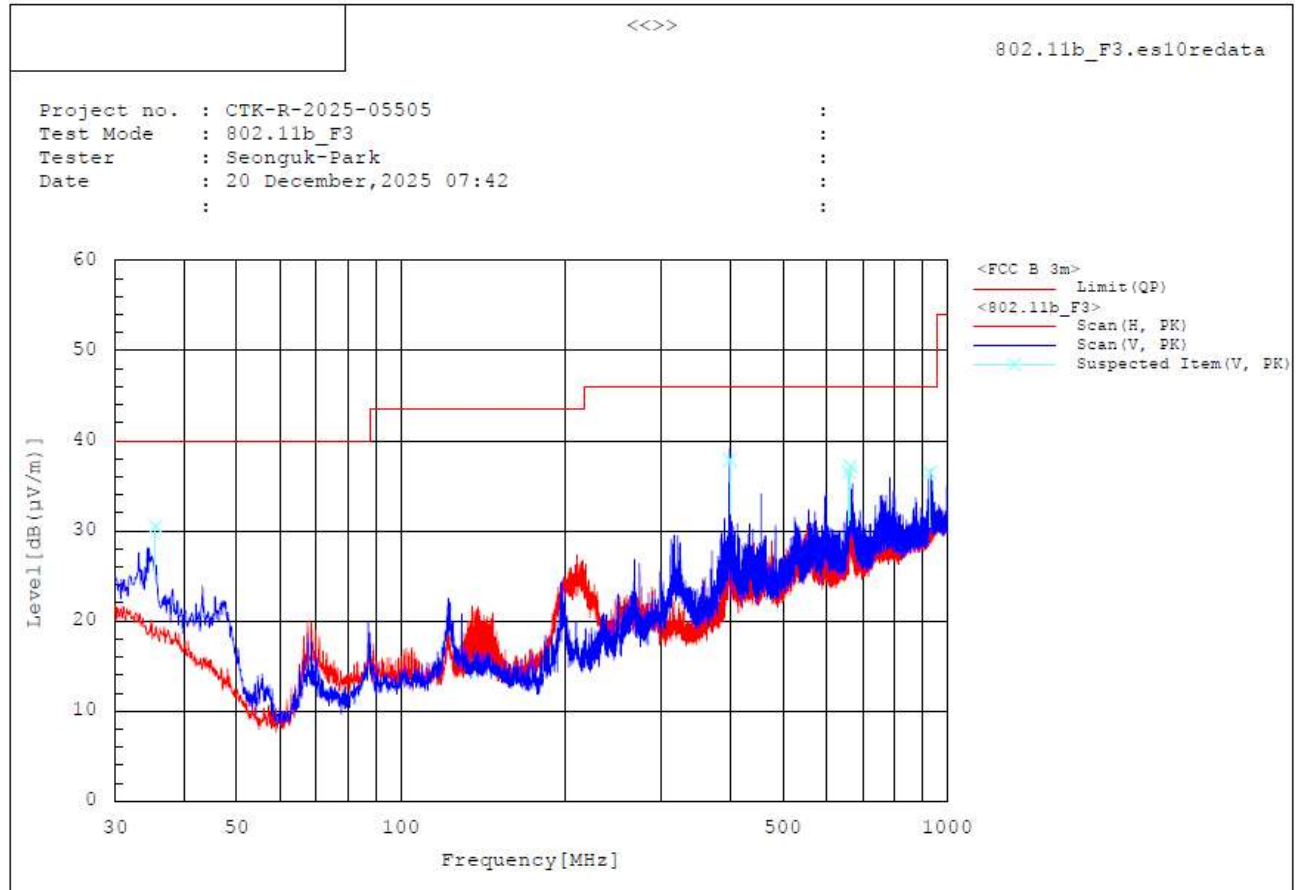
2) 30 MHz to 1 GHz

Test Mode : Transmitter, 802.11b (Worst Case)

The requirements are:

☒ Complies

Test Data



Spectrum Selection

No.	Frequency [MHz]	Fol	Reading PK [dB (μV)]	c.f [dB (1/m)]	Result PK [dB (μV/m)]	Limit QP [dB (μV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]	Remark
1	35.529	V	38.2	-7.7	30.5	40.0	9.5	300.0	97.1	
2	399.861	V	44.3	-6.4	37.9	46.0	8.1	99.9	48.0	
3	660.500	V	36.9	-0.4	36.5	46.0	9.5	99.9	0.2	
4	664.477	V	37.5	-0.3	37.2	46.0	8.8	99.9	230.6	
5	929.093	V	31.6	4.9	36.5	46.0	9.5	99.9	169.6	

Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp gain



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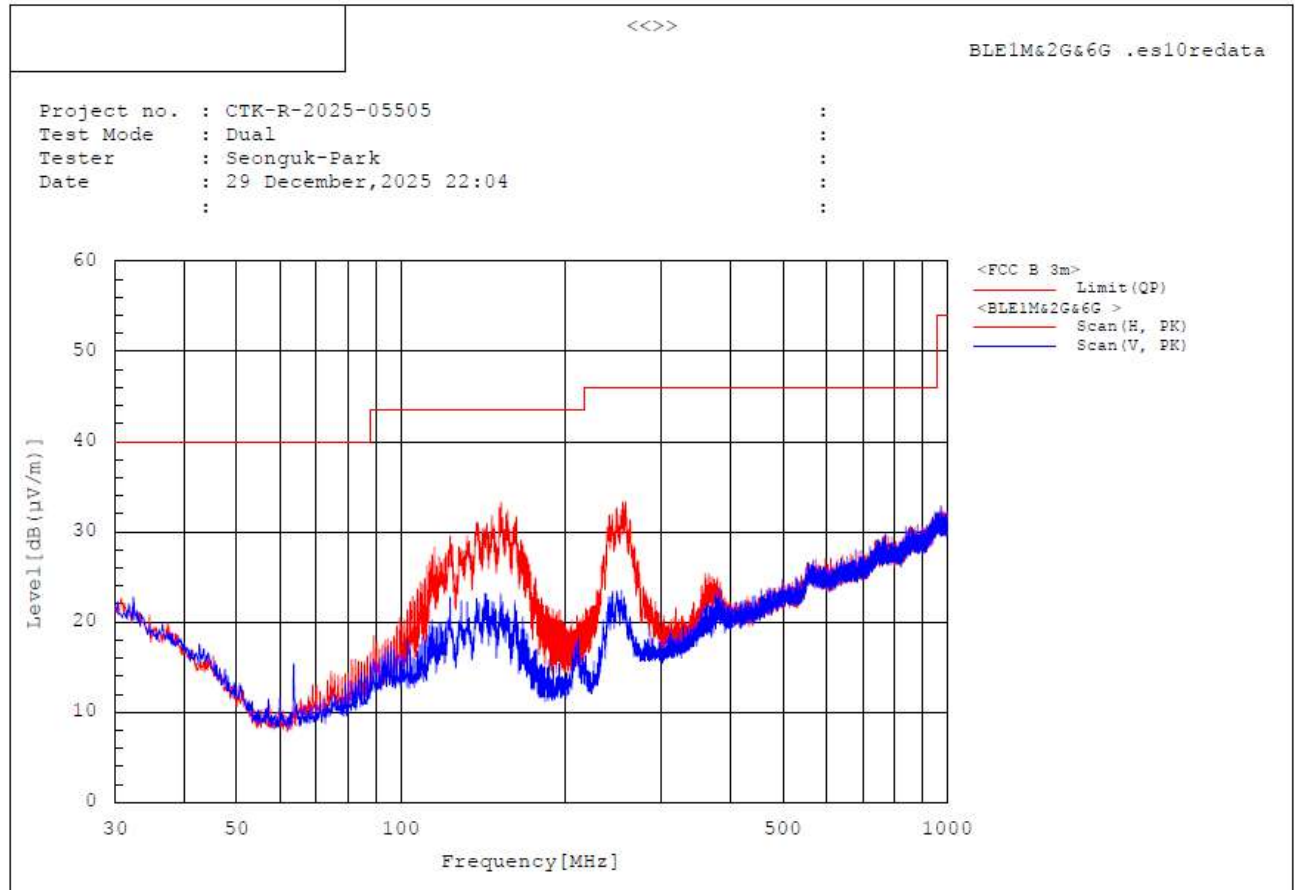
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Test Mode : Transmitter (Simultaneous transmissions DTS + 2.4 GHz + 6 GHz)

The requirements are:

☒ Complies

Test Data :



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 30 MHz to 1 GHz were 10 dB lower than the limit.

Remark :

1. Measuring position : The Unwanted emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X,Y axis). The worst emission was found in lie-down position (Z axis) and the worst case was recorded.
2. Result = Reading + c.f (Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp gain



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3) Above 1 GHz

Test Mode : Transmitter, 802.11ax_HE20_106T, MIMO, Worst Case

The requirements are:

☒ Complies

Test Data :

