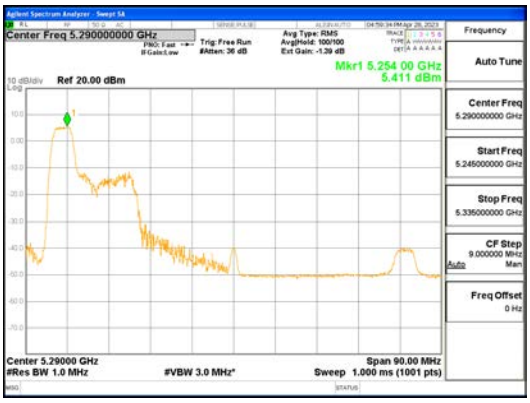
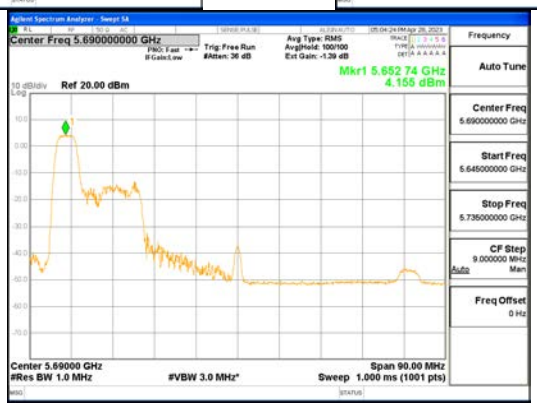
ANT0_802.11ax_HE80_52T_Low_UNII 1



ANT0_802.11ax_HE80_52T_Low_UNII 2A



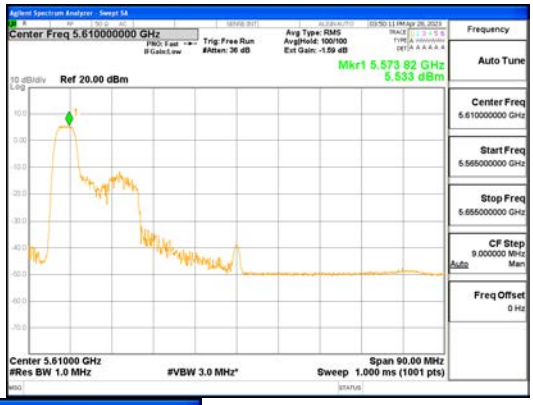
ANT0_802.11ax_HE80_52T_Low_UNII 2C

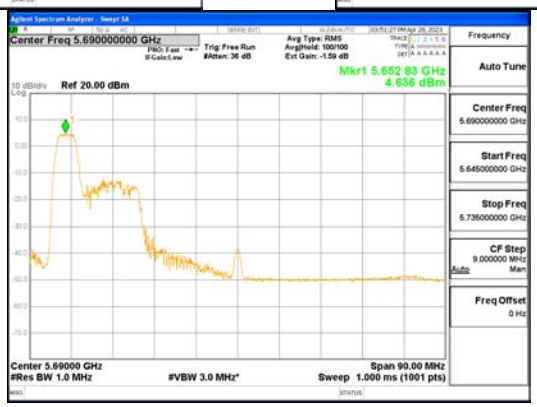
ANT0_802.11ax_HE80_52T_Low_UNII 3

ANT0_802.11ax_HE80_52T_Low_UNII 4

ANT1_802.11ax_HE80_52T_Low_UNII 1

ANT1_802.11ax_HE80_52T_Low_UNII2A



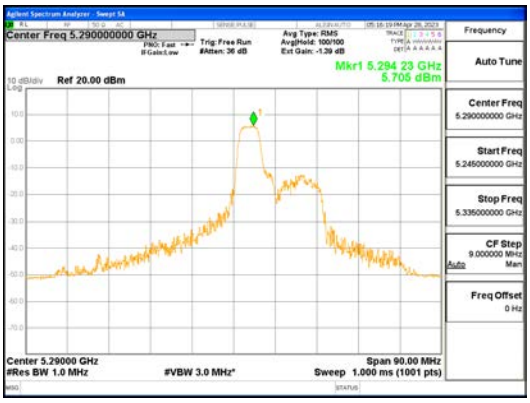


ANT1_802.11ax_HE80_52T_Low_UNII 2C

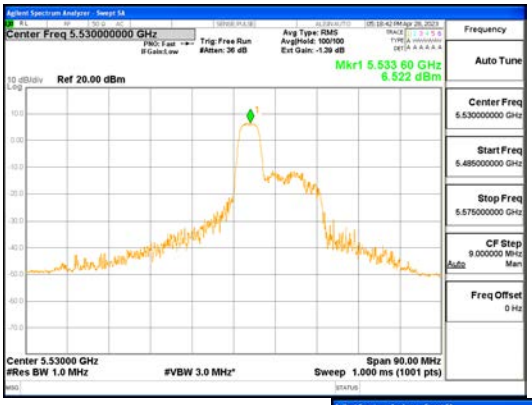
ANT1_802.11ax_HE80_52T_Low_UNII 3

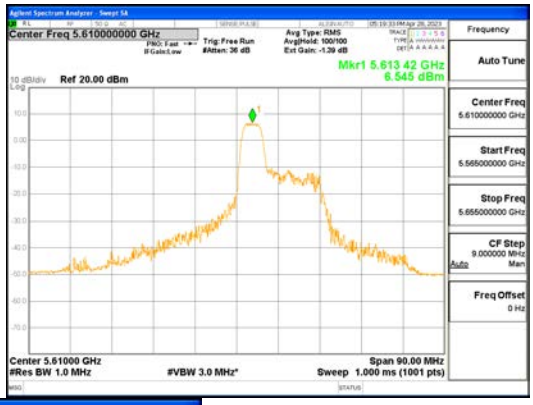
ANT1_802.11ax_HE80_52T_Low_UNII 4

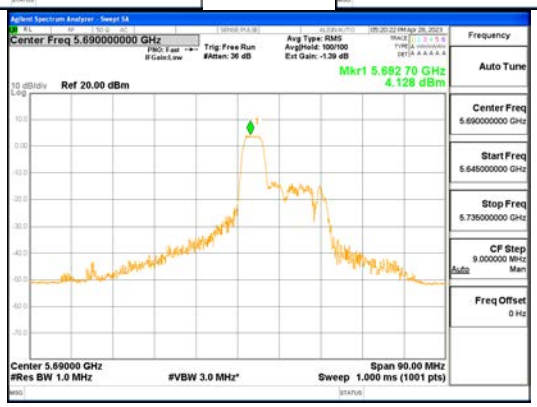
ANT0_802.11ax_HE80_52T_Mid_UNII 1



ANT0_802.11ax_HE80_52T_Mid_UNII 2A

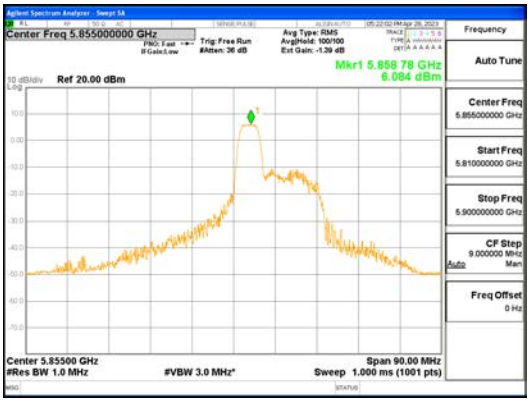




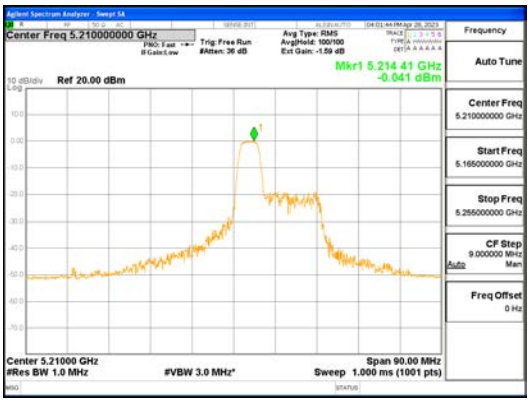


ANT0_802.11ax_HE80_52T_Mid_UNII 2C

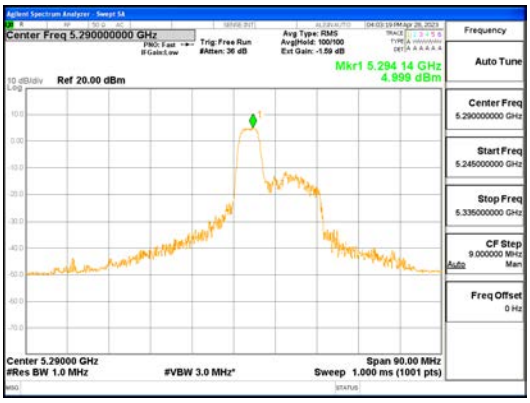
ANT0_802.11ax_HE80_52T_Mid_UNII 3



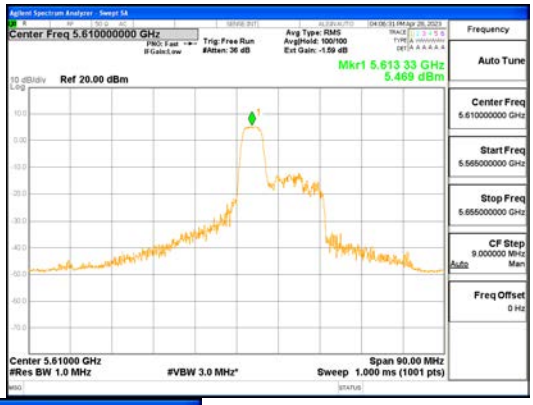
ANT0_802.11ax_HE80_52T_Mid_UNII 4

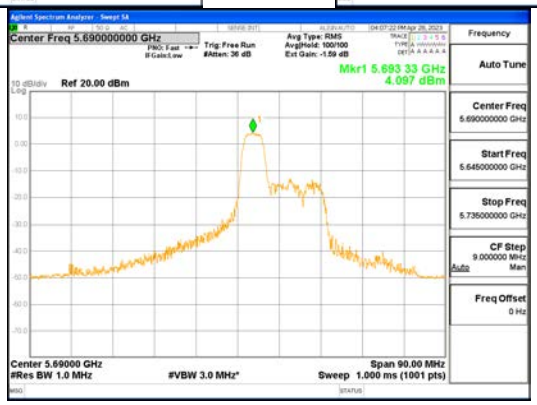


ANT1_802.11ax_HE80_52T_Mid_UNII 1



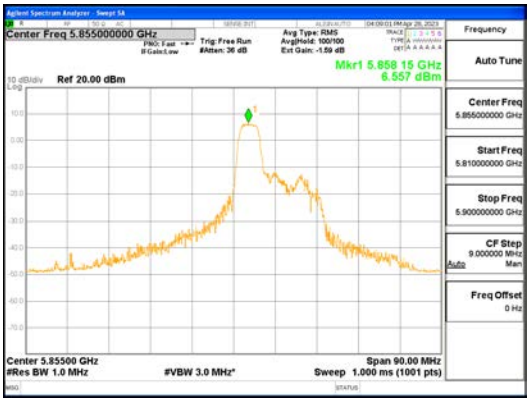
ANT1_802.11ax_HE80_52T_Mid_UNII 2A





ANT1_802.11ax_HE80_52T_Mid_UNII 2C

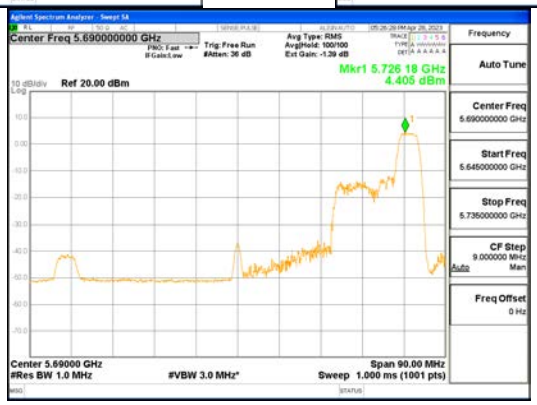
ANT1_802.11ax_HE80_52T_Mid_UNII 3



ANT1_802.11ax_HE80_52T_Mid_UNII 4

ANT0_802.11ax_HE80_52T_High_UNII 1

ANT0_802.11ax_HE80_52T_High_UNII 2A



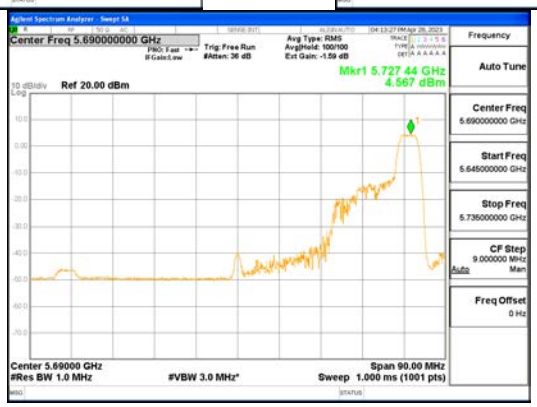
ANT0_802.11ax_HE80_52T_High_UNII 2C

ANT0_802.11ax_HE80_52T_High_UNII 3

ANT0_802.11ax_HE80_52T_High_UNII 4

ANT1_802.11ax_HE80_52T_High_UNII 1

ANT1_802.11ax_HE80_52T_High_UNII 2A



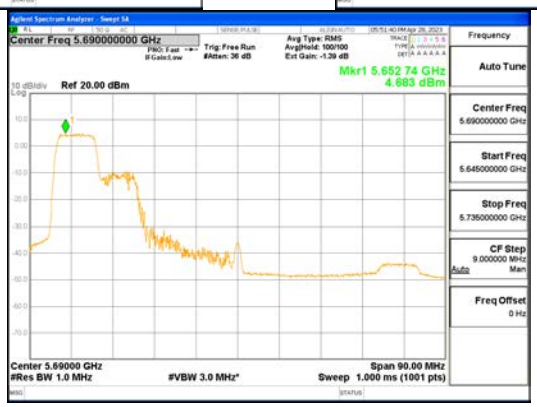
ANT1_802.11ax_HE80_52T_High_UNII 2C

ANT1_802.11ax_HE80_52T_High_UNII 3

ANT1_802.11ax_HE80_52T_High_UNII 4

ANT0_802.11ax_HE80_106T_Low_UNII 1

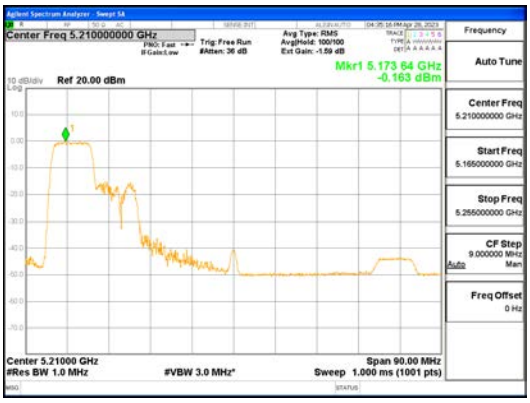
ANT0_802.11ax_HE80_106T_Low_UNII 2A



ANT0_802.11ax_HE80_106T_Low_UNII 2C

ANT0_802.11ax_HE80_106T_Low_UNII 3

ANT0_802.11ax_HE80_106T_Low_UNII 4



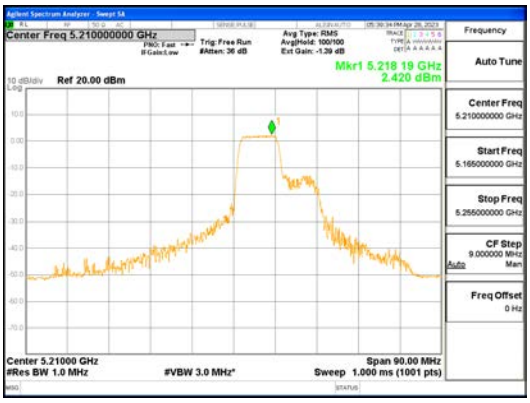
ANT1_802.11ax_HE80_106T_Low_UNII 1

ANT1_802.11ax_HE80_106T_Low_UNII2A

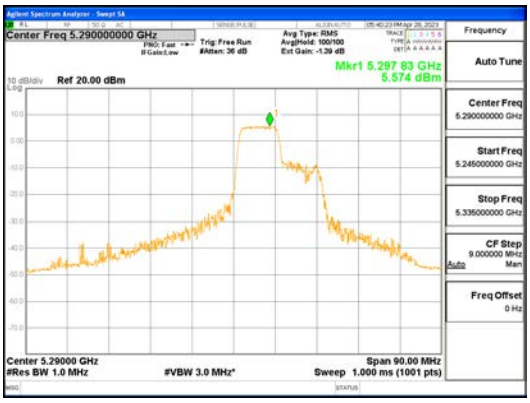
ANT1_802.11ax_HE80_106T_Low_UNII 2C

ANT1_802.11ax_HE80_106T_Low_UNII 3

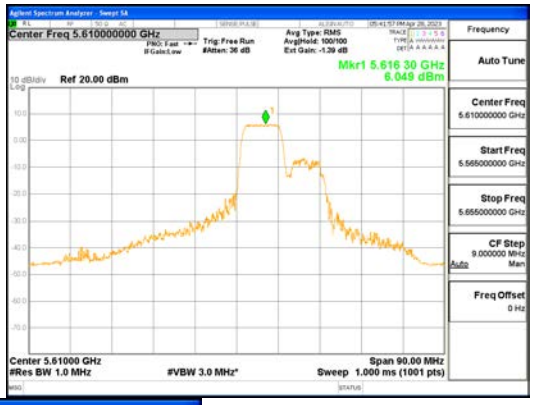
ANT1_802.11ax_HE80_106T_Low_UNII 4

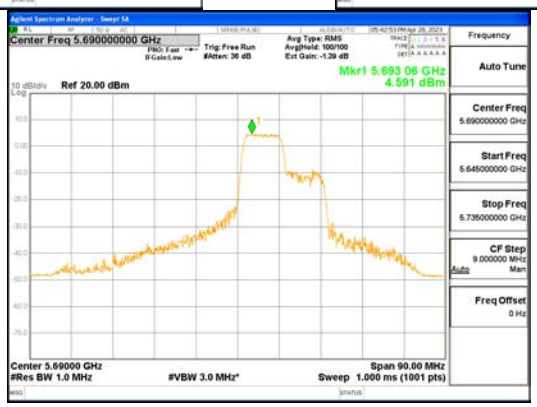


ANT0_802.11ax_HE80_106T_Mid_UNII 1



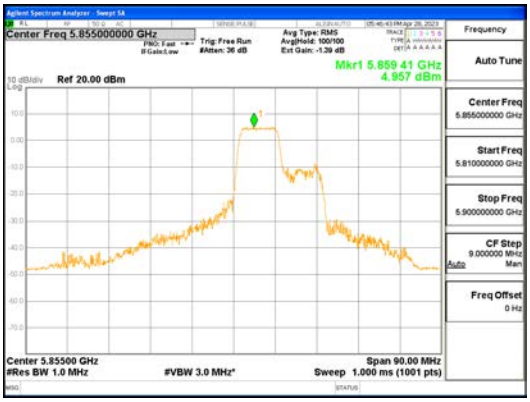
ANT0_802.11ax_HE80_106T_Mid_UNII 2A





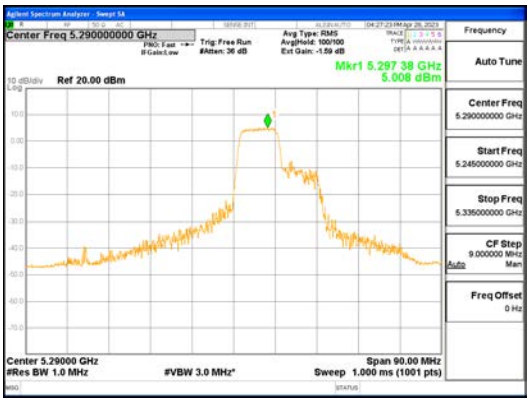
ANT0_802.11ax_HE80_106T_Mid_UNII 2C

ANT0_802.11ax_HE80_106T_Mid_UNII 3

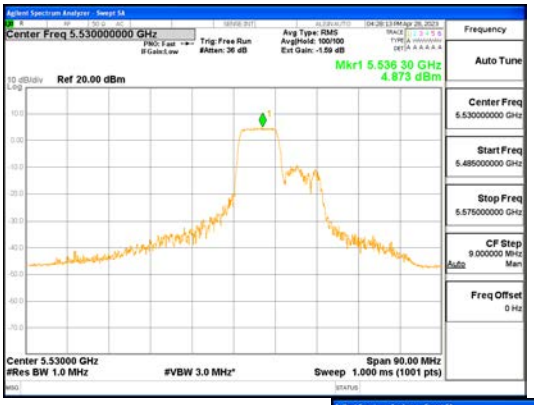


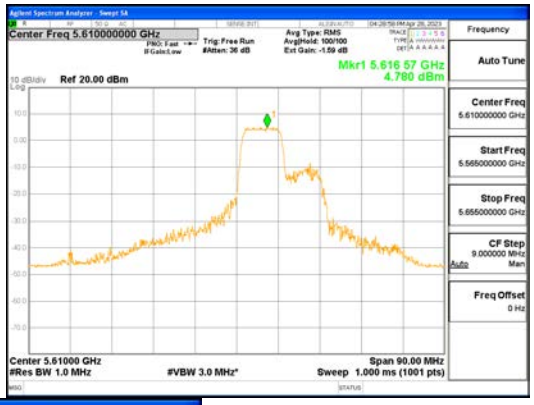
ANT0_802.11ax_HE80_106T_Mid_UNII 4

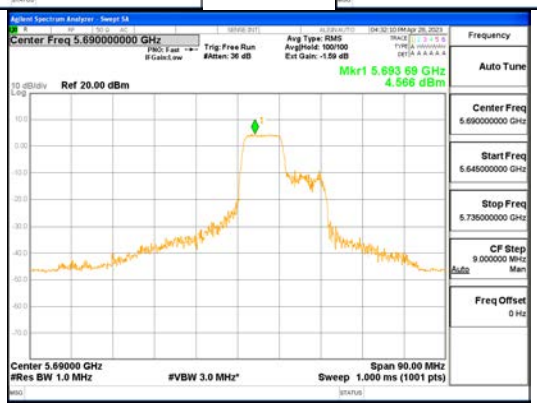
ANT1_802.11ax_HE80_106T_Mid_UNII 1



ANT1_802.11ax_HE80_106T_Mid_UNII 2A

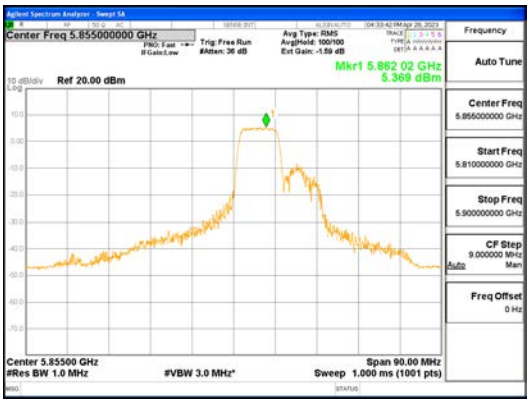






ANT1_802.11ax_HE80_106T_Mid_UNII 2C

ANT1_802.11ax_HE80_106T_Mid_UNII 3



ANT1_802.11ax_HE80_106T_Mid_UNII 4

ANT0_802.11ax_HE80_106T_High_UNII 1

ANT0_802.11ax_HE80_106T_High_UNII 2A

ANT0_802.11ax_HE80_106T_High_UNII 2C

ANT0_802.11ax_HE80_106T_High_UNII 3

ANT0_802.11ax_HE80_106T_High_UNII 4

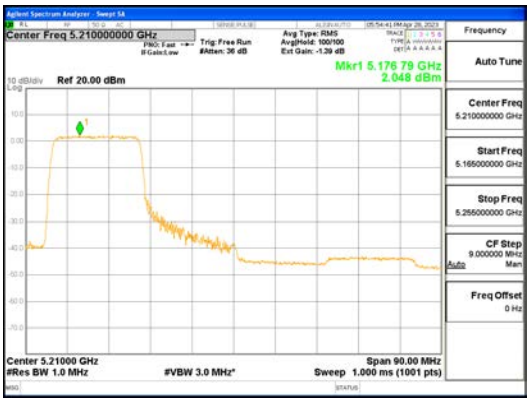
ANT1_802.11ax_HE80_106T_High_UNII 1

ANT1_802.11ax_HE80_106T_High_UNII 2A

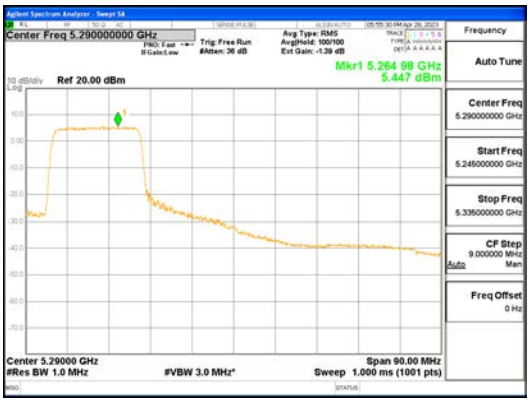
ANT1_802.11ax_HE80_106T_High_UNII 2C

ANT1_802.11ax_HE80_106T_High_UNII 3

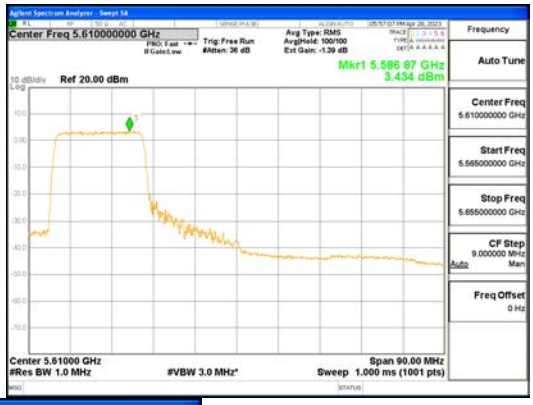
ANT1_802.11ax_HE80_106T_High_UNII 4

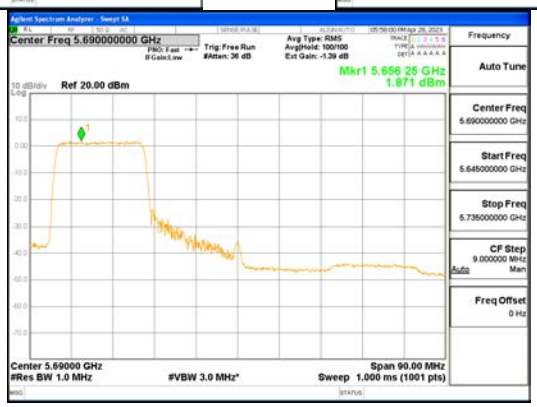


ANT0_802.11ax_HE80_242T_Low_UNII 1



ANT0_802.11ax_HE80_242T_Low_UNII 2A



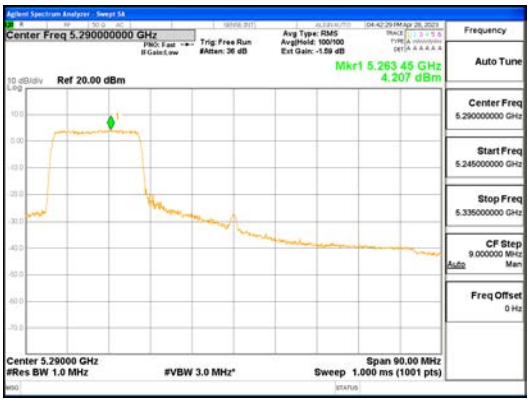


ANT0_802.11ax_HE80_242T_Low_UNII 2C

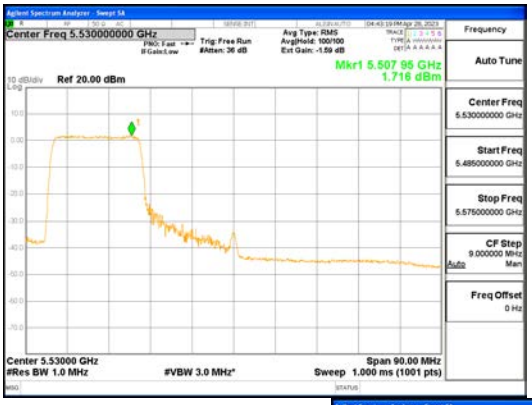
ANT0_802.11ax_HE80_242T_Low_UNII 3

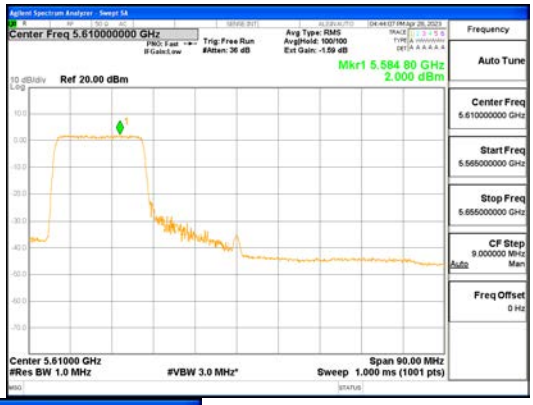
ANT0_802.11ax_HE80_242T_Low_UNII 4

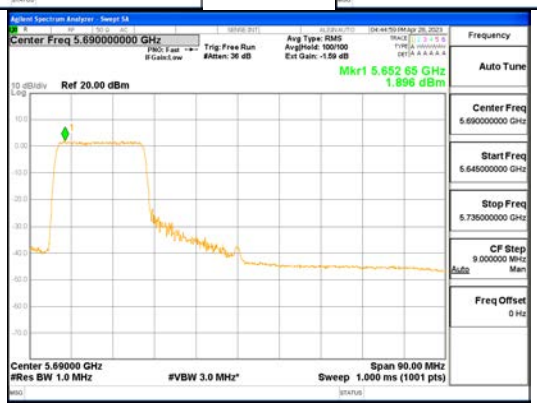
ANT1_802.11ax_HE80_242T_Low_UNII 1



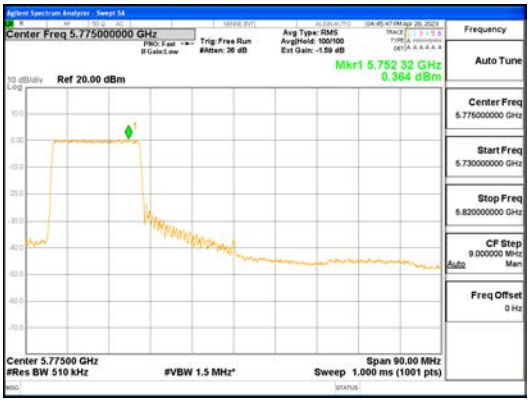
ANT1_802.11ax_HE80_242T_Low_UNII2A







ANT1_802.11ax_HE80_242T_Low_UNII 2C

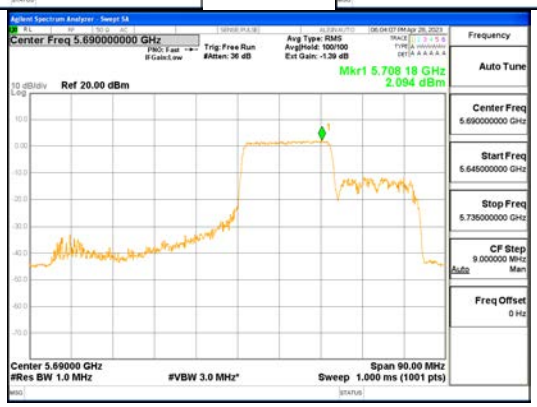


ANT1_802.11ax_HE80_242T_Low_UNII 3

ANT1_802.11ax_HE80_242T_Low_UNII 4

ANT0_802.11ax_HE80_242T_Mid_UNII 1

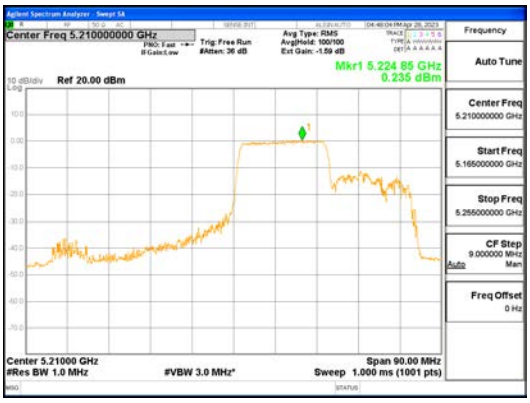
ANT0_802.11ax_HE80_242T_Mid_UNII 2A



ANT0_802.11ax_HE80_242T_Mid_UNII 2C

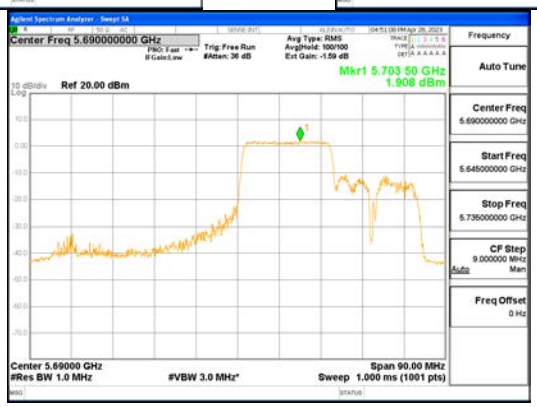
ANT0_802.11ax_HE80_242T_Mid_UNII 3

ANT0_802.11ax_HE80_242T_Mid_UNII 4

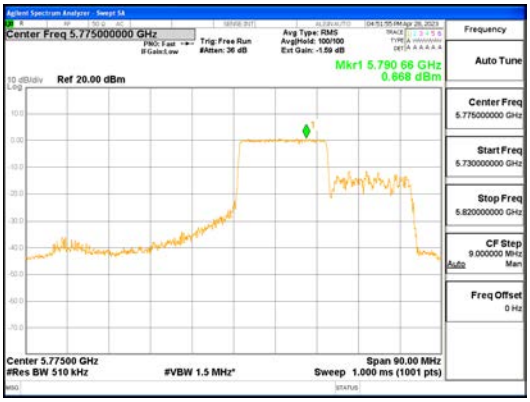


ANT1_802.11ax_HE80_242T_Mid_UNII 1

ANT1_802.11ax_HE80_242T_Mid_UNII 2A



ANT1_802.11ax_HE80_242T_Mid_UNII 2C

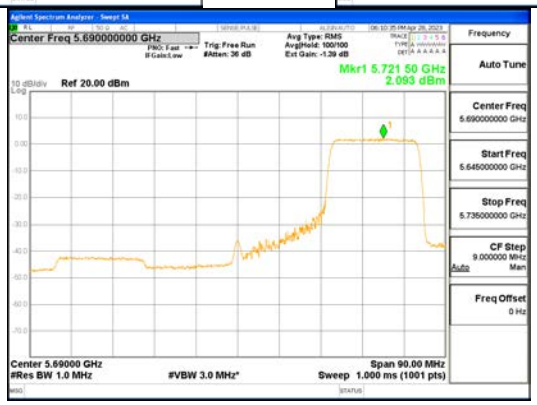


ANT1_802.11ax_HE80_242T_Mid_UNII 3

ANT1_802.11ax_HE80_242T_Mid_UNII 4

ANT0_802.11ax_HE80_242T_High_UNII 1

ANT0_802.11ax_HE80_242T_High_UNII 2A

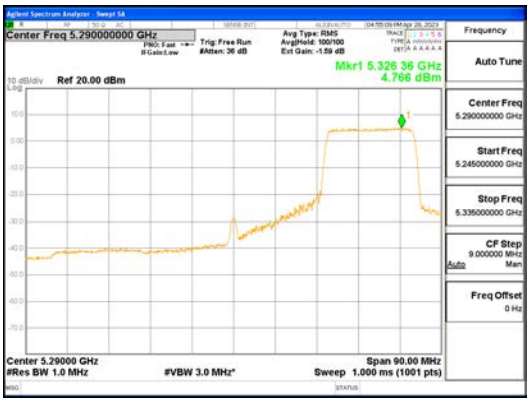


ANT0_802.11ax_HE80_242T_High_UNII 2C

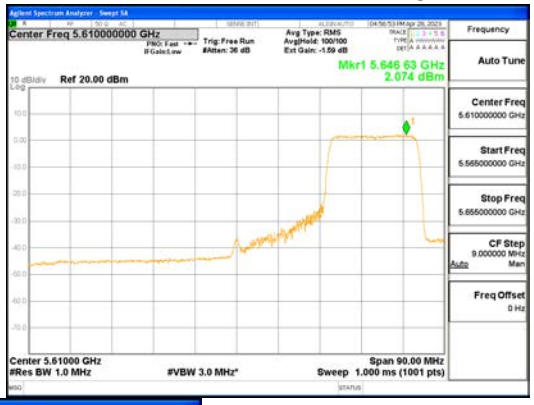
ANT0_802.11ax_HE80_242T_High_UNII 3

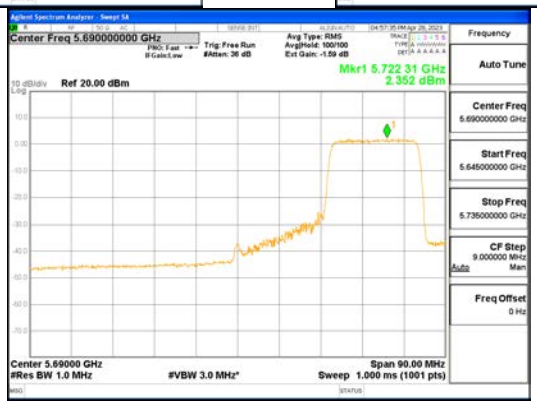
ANT0_802.11ax_HE80_242T_High_UNII 4

ANT1_802.11ax_HE80_242T_High_UNII 1



ANT1_802.11ax_HE80_242T_High_UNII 2A

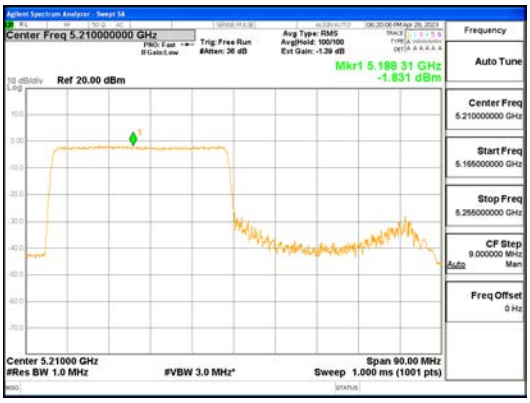




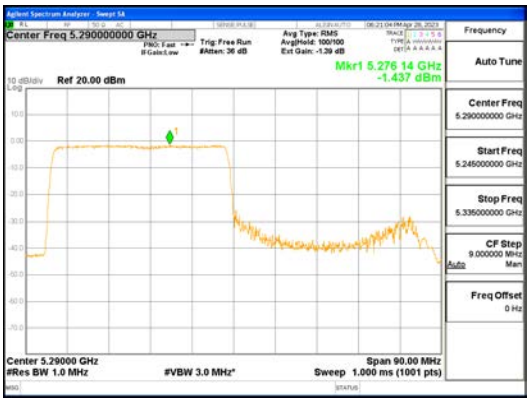
ANT1_802.11ax_HE80_242T_High_UNII 2C

ANT1_802.11ax_HE80_242T_High_UNII 3

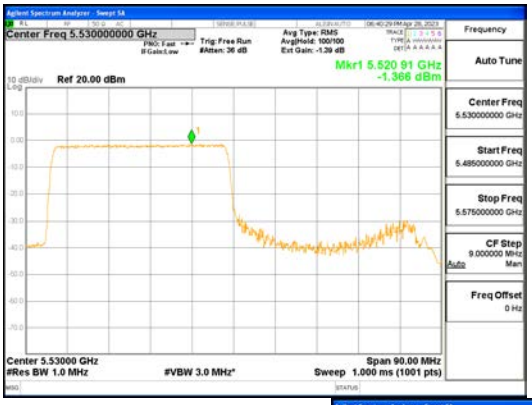
ANT1_802.11ax_HE80_242T_High_UNII 4

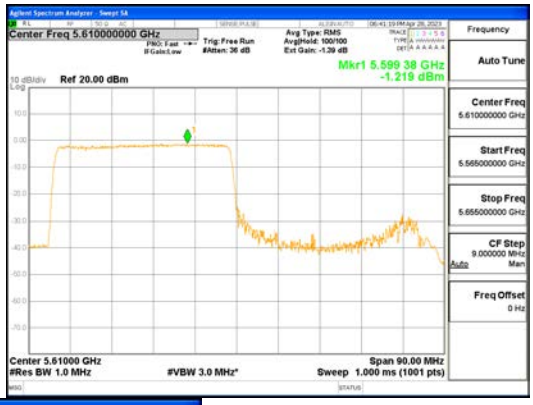


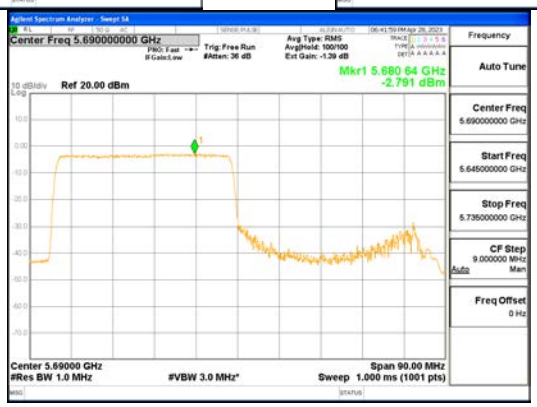
ANT0_802.11ax_HE80_484T_Low_UNII 1



ANT0_802.11ax_HE80_484T_Low_UNII 2A







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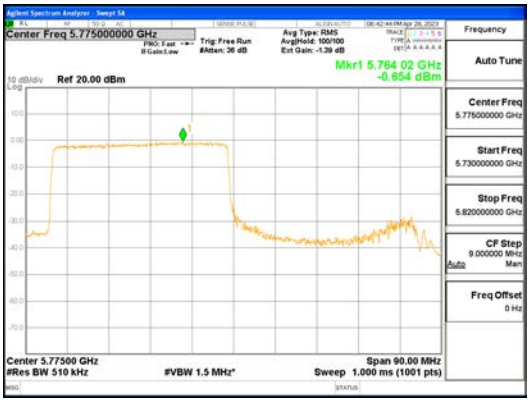

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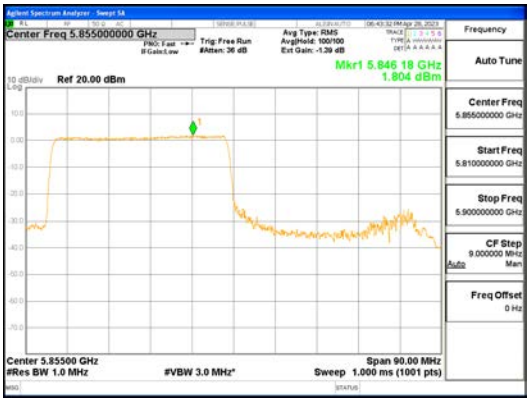
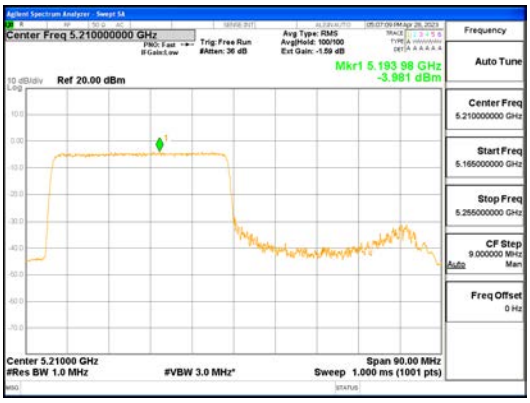
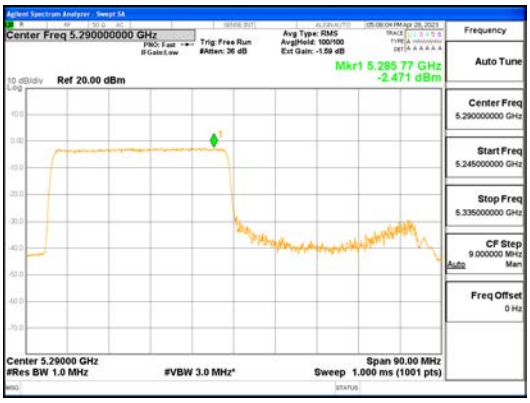


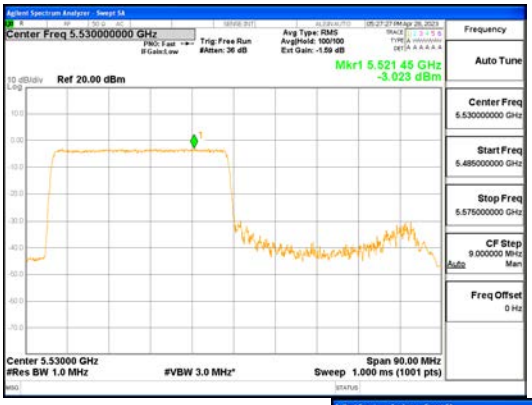
ANT0_802.11ax_HE80_484T_Low_UNII 4

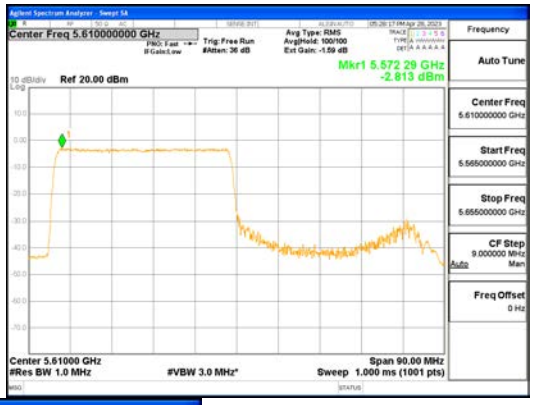


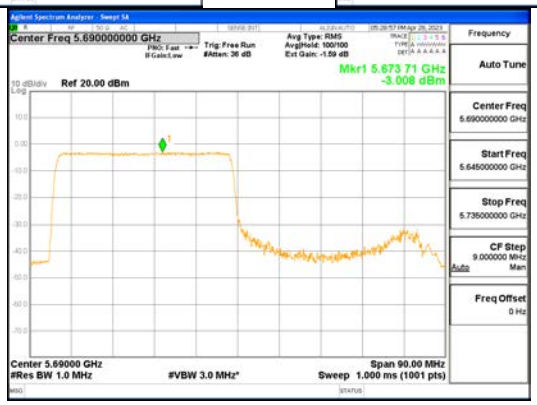
ANT1_802.11ax_HE80_484T_Low_UNII 1



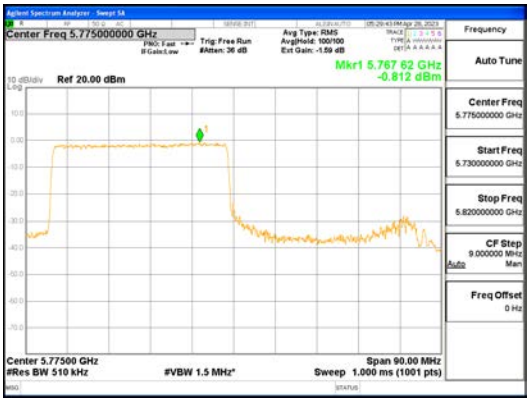
ANT1_802.11ax_HE80_484T_Low_UNII2A



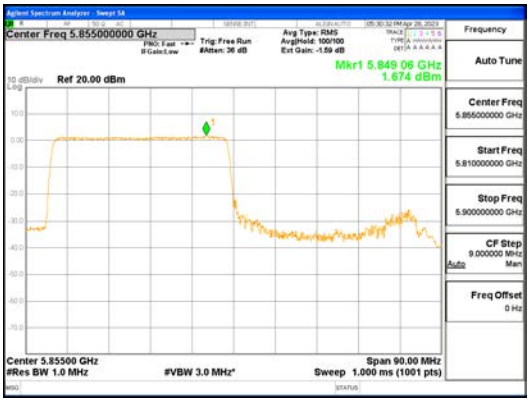




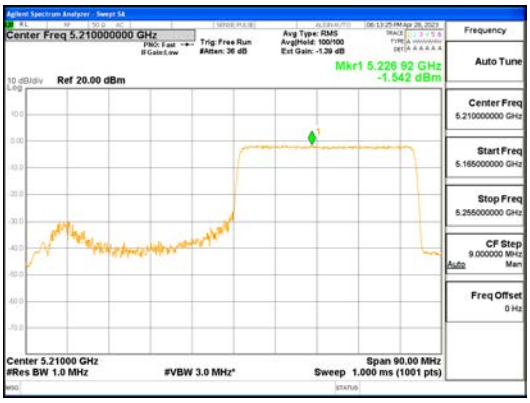
ANT1_802.11ax_HE80_484T_Low_UNII 2C



ANT1_802.11ax_HE80_484T_Low_UNII 3



ANT1_802.11ax_HE80_484T_Low_UNII 4



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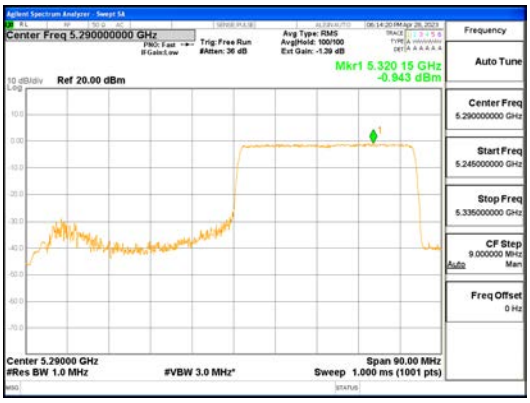
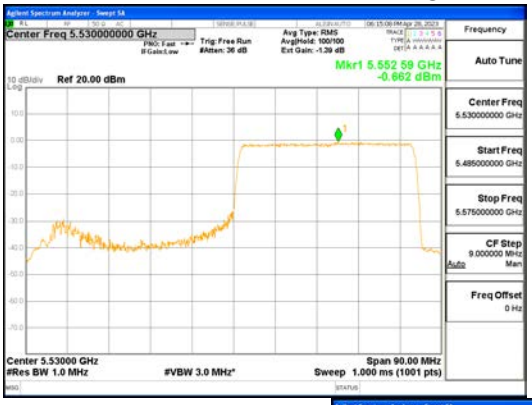
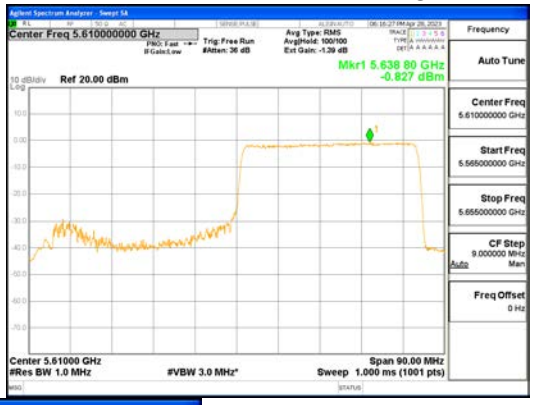
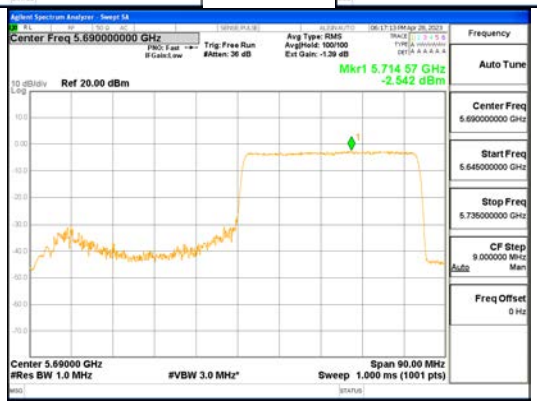


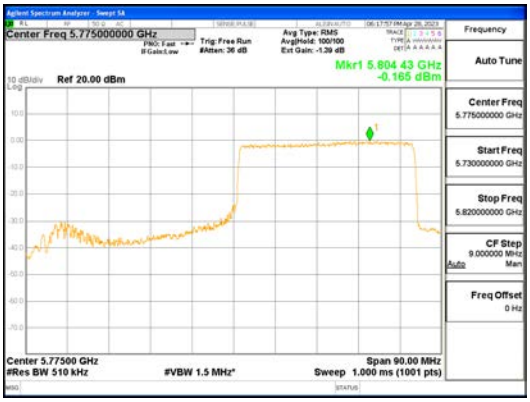
ANT0_802.11ax_HE80_484T_High_UNII 2A





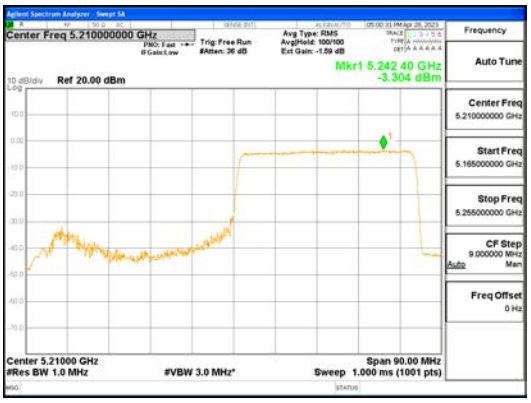


ANT0_802.11ax_HE80_484T_High_UNII 2C



ANT0_802.11ax_HE80_484T_High_UNII 3

ANT0_802.11ax_HE80_484T_High_UNII 4



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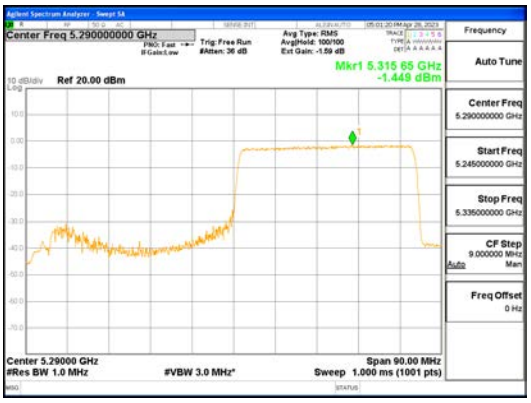
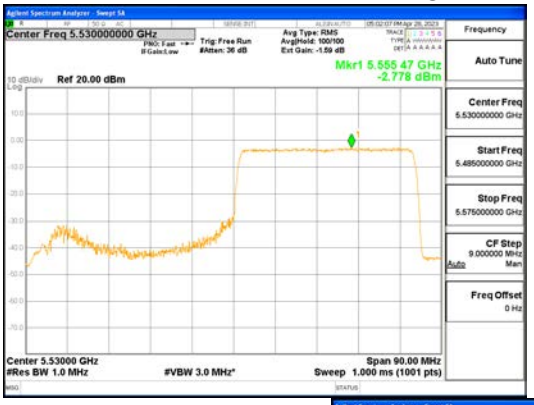
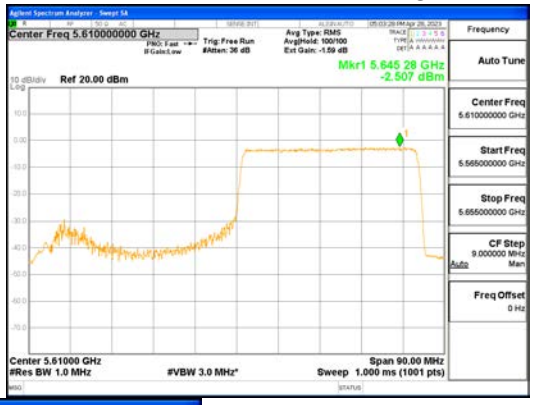
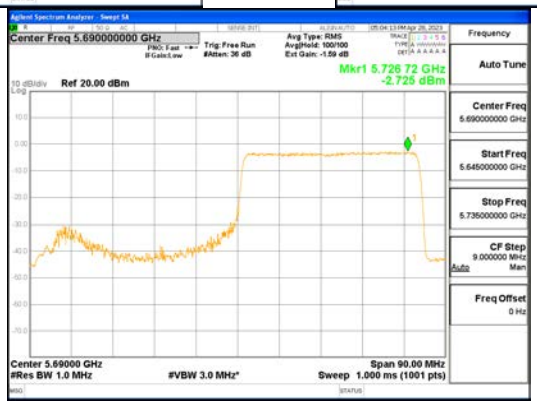


ANT1_802.11ax_HE80_484T_High_UNII 2A

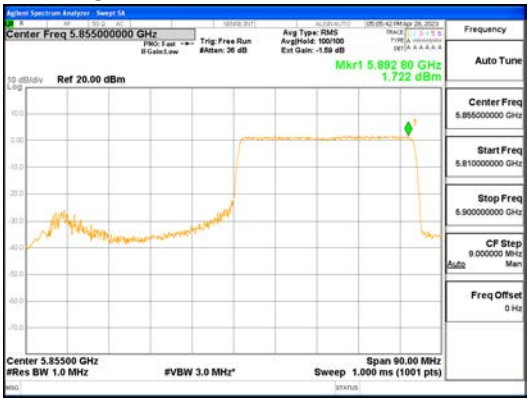






ANT1_802.11ax_HE80_484T_High_UNII 2C

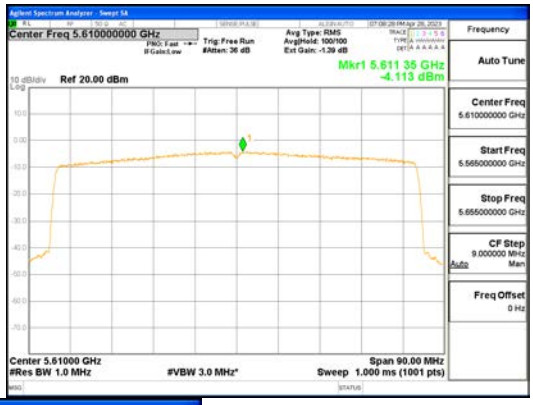
ANT1_802.11ax_HE80_484T_High_UNII 3

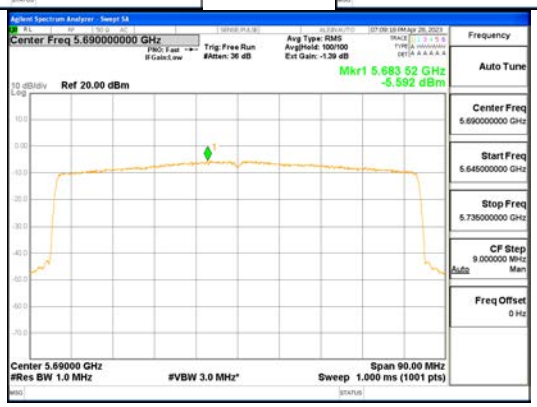


ANT1_802.11ax_HE80_484T_High_UNII 4

ANT0_802.11ax_HE80_996T_UNII 1

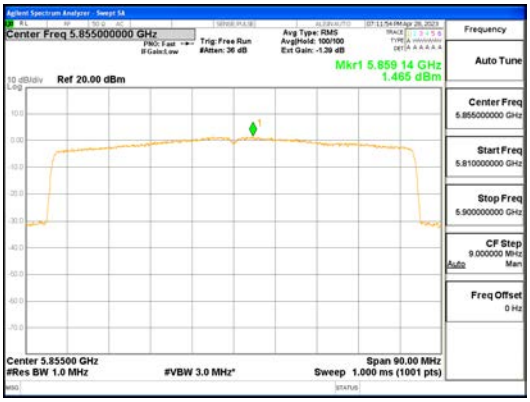
ANT0_802.11ax_HE80_996T_UNII 2A



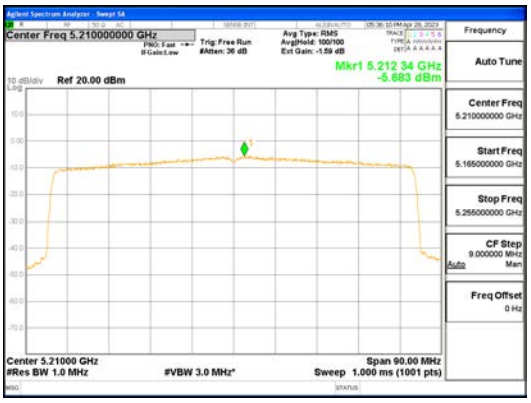


ANT0_802.11ax_HE80_996T_UNII 2C

ANT0_802.11ax_HE80_996T_UNII 3

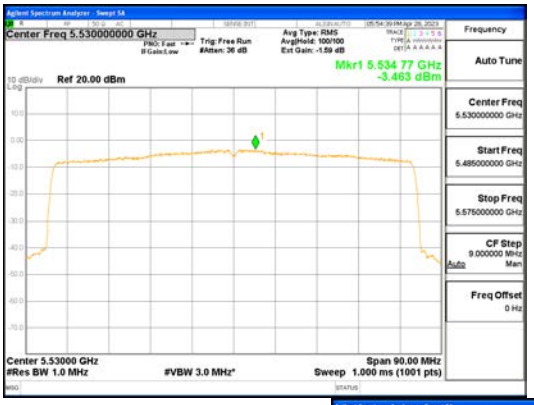


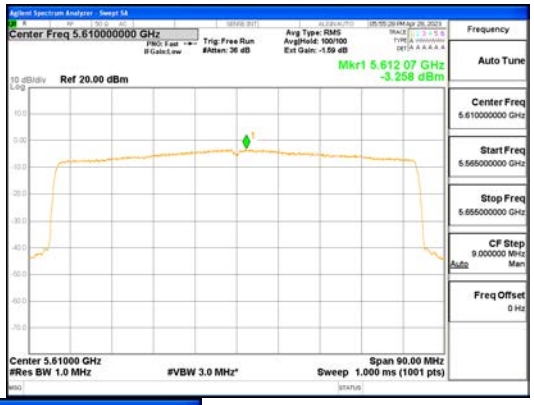
ANT0_802.11ax_HE80_996T_UNII 4

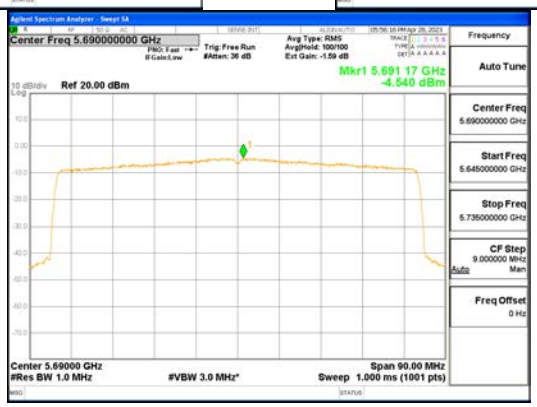


ANT1_802.11ax_HE80_996T_UNII 1

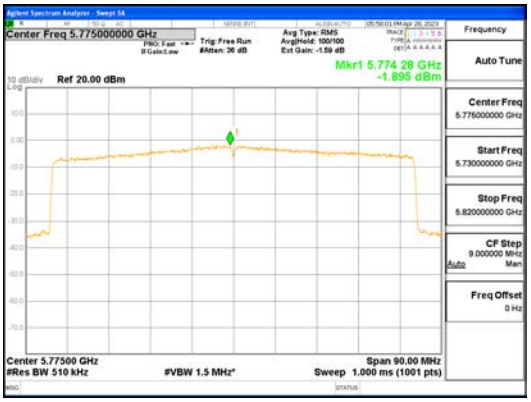
ANT1_802.11ax_HE80_996T_UNII 2A



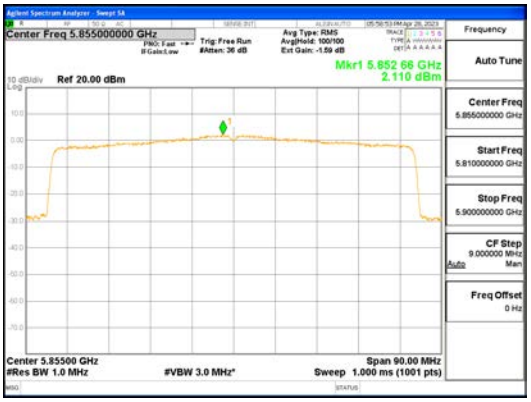




ANT1_802.11ax_HE80_996T_UNII 2C



ANT1_802.11ax_HE80_996T_UNII 3



ANT1_802.11ax_HE80_996T_UNII 4

4.5 Frequency Stability

Test Procedures

KDB 789033 – Section A.3

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -20 ℃ and +50 ℃(Declaration by the Manufacturer). The temperature was incremented by 10 ℃ intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Measured Frequency Error (kHz)							
Voltage (VDC)	Temperature (℃)	Test Frequency (MHz)					
		5 180	5 200	5 240	5 260	5 300	5 320
5.0	-20	15.031	15.325	15.336	15.369	15.637	15.962
5.0	-10	15.477	15.402	15.458	15.461	15.908	15.779
5.0	0	5.696	5.502	5.359	5.445	5.451	5.459
5.0	10	-9.450	-9.202	-9.345	-9.202	-9.412	-9.249
5.0	20(Ref)	-68.314	-67.990	-68.080	-68.552	-69.496	-69.664
5.0	30	-49.578	-49.469	-49.590	-50.063	-50.312	-50.422
5.0	40	-66.451	-65.845	-66.173	-66.660	-67.108	-66.807
5.0	50	-72.745	-72.871	-73.461	-73.891	-74.535	-74.549
4.25	20(Ref)	-69.995	-70.905	-71.843	-73.224	-74.011	-74.136
5.75	20(Ref)	-66.788	-67.537	-68.977	-71.616	-72.978	-73.603

Measured Frequency Error (kHz)							
Voltage (VDC)	Temperature (℃)	Test Frequency (MHz)					
		5 500	5 600	5 700	5 720	5 745	5 785
5.0	-20	16.208	15.655	15.726	15.774	15.852	15.915
5.0	-10	16.206	16.278	16.579	16.827	16.760	16.923
5.0	0	5.608	6.066	6.196	6.317	6.603	6.545
5.0	10	-9.565	-9.328	-8.919	-8.712	-8.745	-8.879
5.0	20(Ref)	-72.823	-72.686	-72.193	-71.766	-72.318	-72.935
5.0	30	-51.135	-51.012	-51.974	-52.635	-52.072	-52.106
5.0	40	-68.794	-69.028	-70.488	-70.373	-69.883	-69.743
5.0	50	-76.904	-77.722	-78.648	-78.854	-79.728	-80.415
4.25	20(Ref)	-77.316	-76.618	-74.539	-74.942	-73.949	-74.688
5.75	20(Ref)	-76.864	-76.680	-76.531	-76.687	-77.053	-77.562

Measured Frequency Error (kHz)					
Voltage (VDC)	Temperature (℃)	Test Frequency (MHz)			
		5 825	5 845	5 865	5 885
5.0	-20	16.206	16.071	15.994	16.038
5.0	-10	17.350	17.514	17.432	17.479
5.0	0	6.553	6.675	6.607	6.764
5.0	10	-9.045	-8.920	-9.094	-9.004
5.0	20(Ref)	-72.795	-73.685	-73.451	-73.987
5.0	30	-52.853	-53.175	-53.397	-53.525
5.0	40	-69.844	-70.165	-70.538	-70.677
5.0	50	-81.035	-81.179	-81.593	-81.751
4.25	20(Ref)	-74.346	-74.661	-75.066	-75.272
5.75	20(Ref)	-78.184	-78.385	-78.712	-78.886

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

4.6 Unwanted Emissions

Test Location

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

Test Procedures

KDB 789033 - Section G
ANSI C63.10-2013 – Section 12.7

1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m 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 3m away from the EUT. Test Antenna height is carried from 1m to 4m 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 ~ 1 GHz

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

b) VBW ≥ RBW

c) Detector = CISPR Quasi-peak

d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = Peak

d) Sweep time = auto

e) Trace mode = max hold

- Average (duty cycle ≥ 98%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x 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%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = RMS

d) Sweep time = auto

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

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

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 (dB)
802.11a	0.12
802.11n_HT20	0.14
802.11n_HT40	0.28
802.11ac_VHT20	0.26
802.11ac_VHT40	0.49
802.11ac_VHT80	0.91
802.11ax HE20/40/80 26T	0.21
802.11ax HE20 242T	0.27
802.11ax HE40 484T	0.28
802.11ax HE80 996T	0.29

Limit

1. UNII 1, 2A : All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

2. UNII 2C : All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

3. UNII 3 : 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.

4. UNII 4 : [Lowest Channel]
For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

[Highest Channel]
For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.

* E.I.R.P -27 dBm/MHz
E[dBuV/m] = EIRP[dBm] + 95.2, for d = 3m

5. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

- 15.209(a)

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	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 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

6. 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:

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

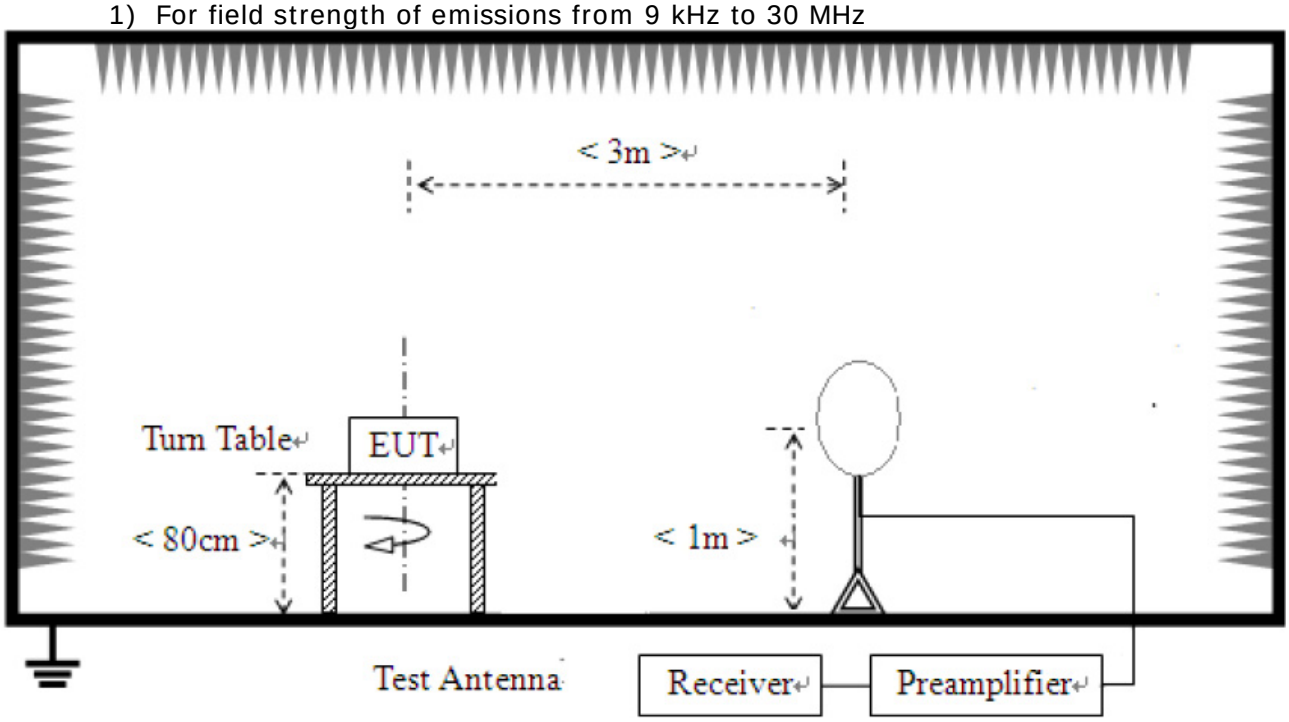
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using 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.

Note :

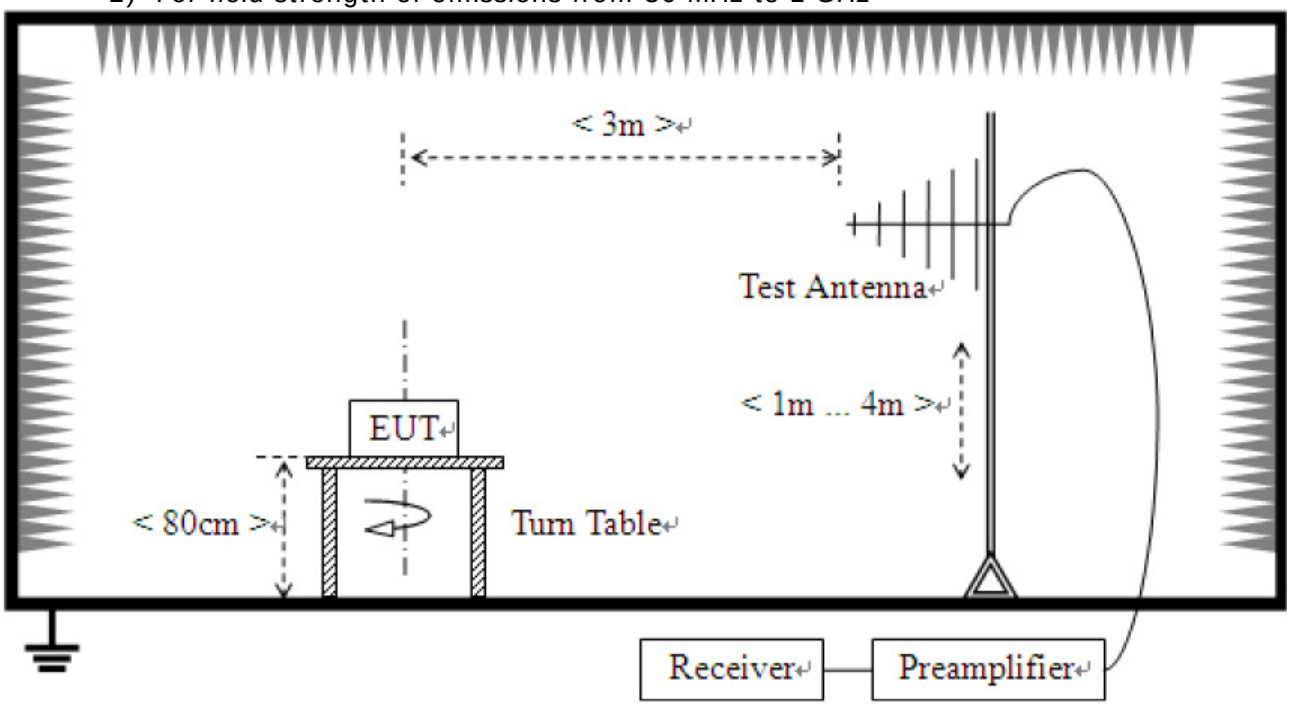
1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
2) For above 1 GHz, limit field strength of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

Test Setup:

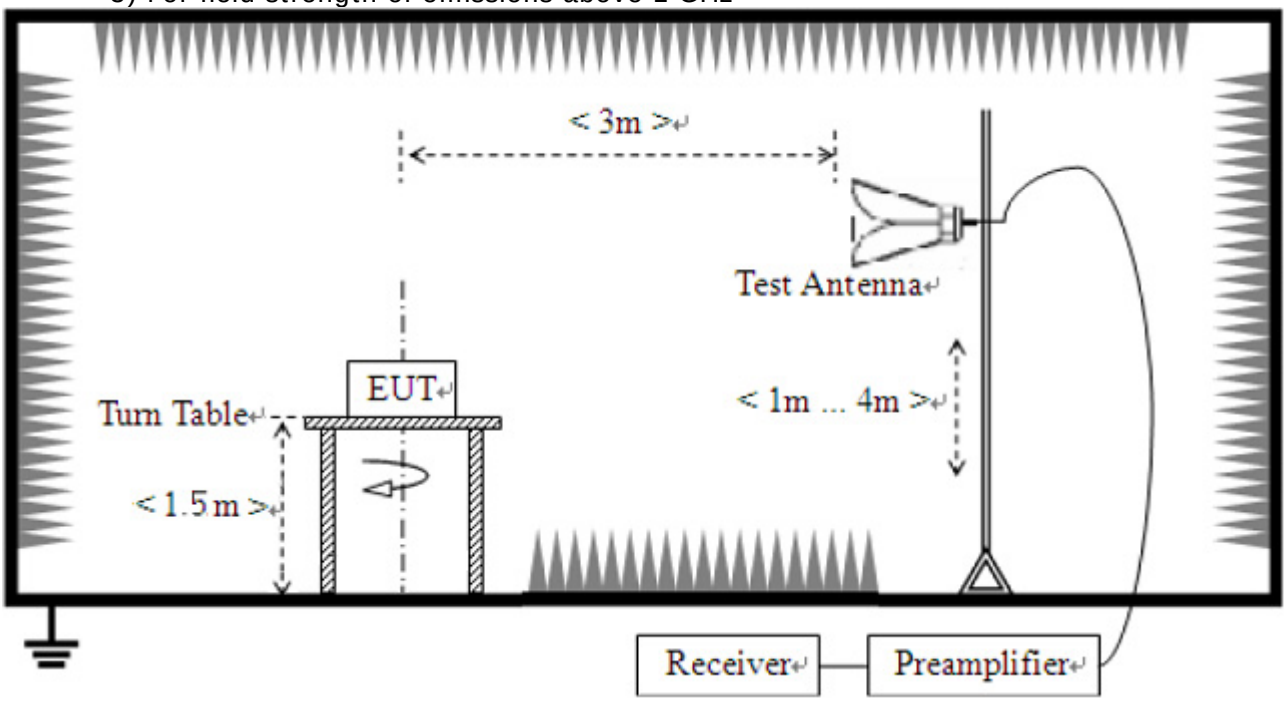
1) For field strength of emissions from 9 kHz to 30 MHz



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



3) For field strength of emissions above 1 GHz



Test Mode

We have done all test mode.
The worst case antenna configuration and Test mode are determined to be as follows.

802.11a mode : ANT0, ANT1
802.11n mode : ANT1 + ANT2 (MIMO)
802.11ac mode : ANT1 + ANT2 (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	5 180	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 200	26T	-	8
			242T	-	61
		5 240	26T	-	8
			242T	-	61
		5 260	26T	-	8
			242T	-	61
		5 300	26T	-	8
			242T	-	61
		5 320	26T	8	8
			52T	40	-
			106T	54	-
			242T	61	61
		5 500	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 600	26T	-	8
			242T	-	61
		5 700	26T	8	8
			52T	40	-
			106T	54	-
			242T	61	61
		5 720	26T	-	8
			242T	-	61
		5 745	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 785	26T	-	8
			242T	-	61
		5 825	26T	8	8
			52T	40	-
			106T	54	-
			242T	61	61
		5 845	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 865	26T	-	8
			242T	-	61
		5 885	26T	8	8
			52T	40	-
			106T	54	-
			242T	61	61

Mode	Bandwidth (MHz)	Frequency (MHz)	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	40	5 190	26T	0	17
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 230	26T	-	17
			484T	-	65
		5 270	26T	-	17
			484T	-	65
		5 310	26T	17	17
			52T	44	-
			106T	56	-
			242T	62	-
			484T	65	65
		5 510	26T	0	17
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 590	26T	-	17
			484T	-	65
		5 670	26T	17	17
			52T	44	-
			106T	56	-
			242T	62	-
			484T	65	65
		5 710	26T	-	17
			484T	-	65
		5 755	26T	0	17
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 795	26T	17	17
			52T	44	-
			106T	56	-
			242T	62	-
			484T	65	65
		5 835	26T	0	17
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 875	26T	17	17
			52T	44	-
			106T	56	-
			242T	62	-
			484T	65	65

Mode	Bandwidth (MHz)	Frequency (MHz)	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	80	5 210	26T	0	36
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 290	26T	36	36
			52T	52	-
			106T	60	-
			242T	64	-
			484T	66	-
			996T	67	67
		5 530	26T	0	36
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 610	26T	36	36
			52T	52	-
			106T	60	-
			242T	64	-
			484T	66	-
			996T	67	67
		5 690	26T	-	36
			996T	-	67
		5 775	26T	0, 36	36
			52T	37, 52	-
			106T	53, 60	-
			242T	61, 64	-
			484T	65, 66	-
			996T	67	67
		5 855	26T	0, 36	36
			52T	37, 52	-
			106T	53, 60	-
			242T	61, 64	-
			484T	65, 66	-
			996T	67	67

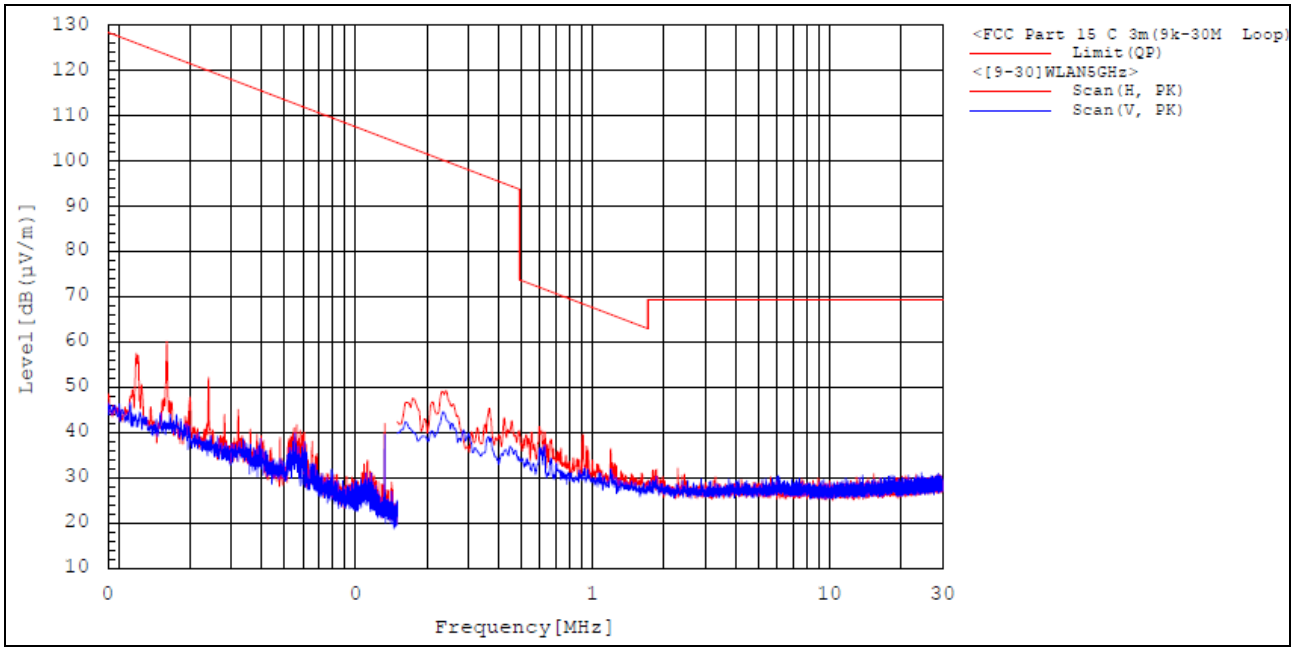
Test Results

1) 9 kHz to 30 MHz

Test mode : Transmitter (Worst Case)

The requirements are:
☒ Complies

Test Data



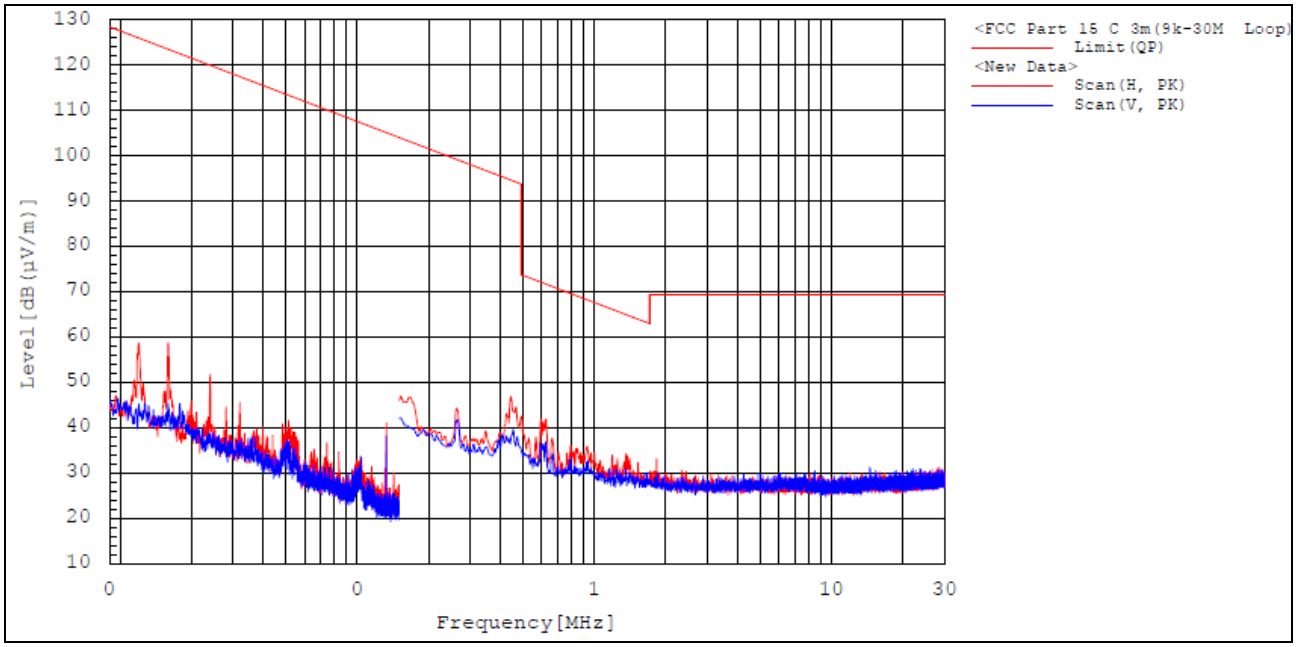
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.						

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X 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
4. This data is the Peak(PK) value.

Test mode : Transmitter (simultaneous transmissions DSS+ NII)

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.						

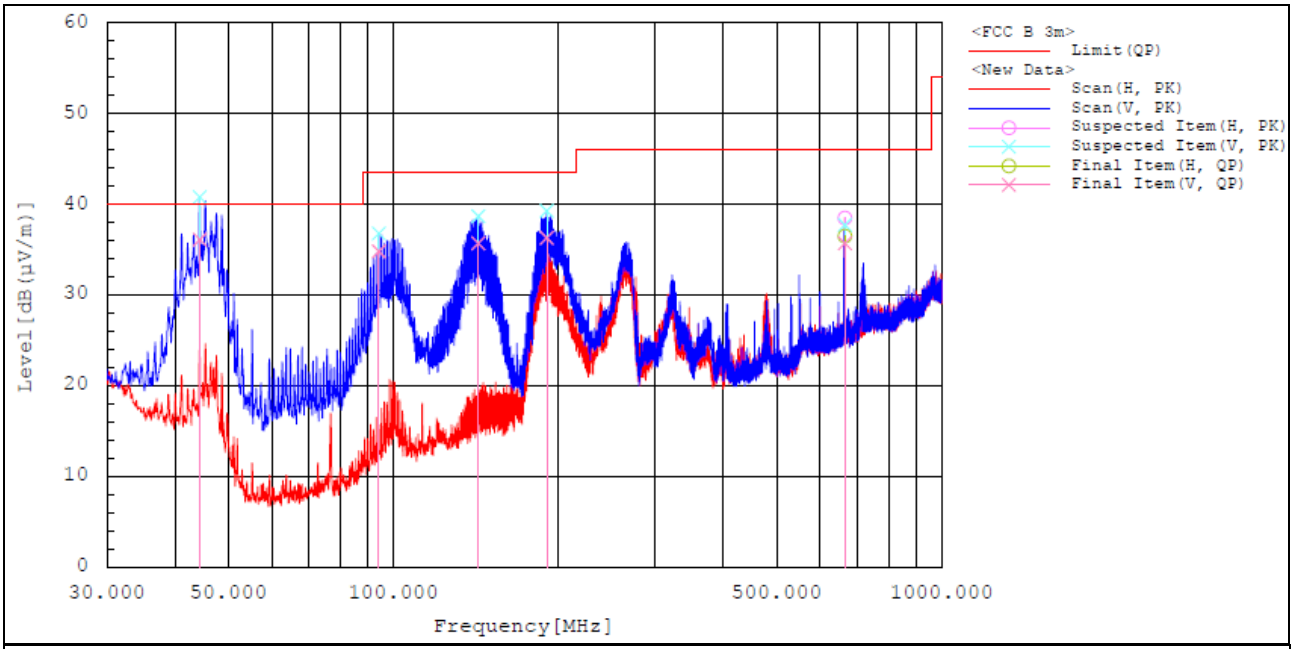
Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

2) 30 MHz to 1 GHz

Test mode : Transmitter (Worst Case)

The requirements are:
☒ Complies

Test Data



Final Result

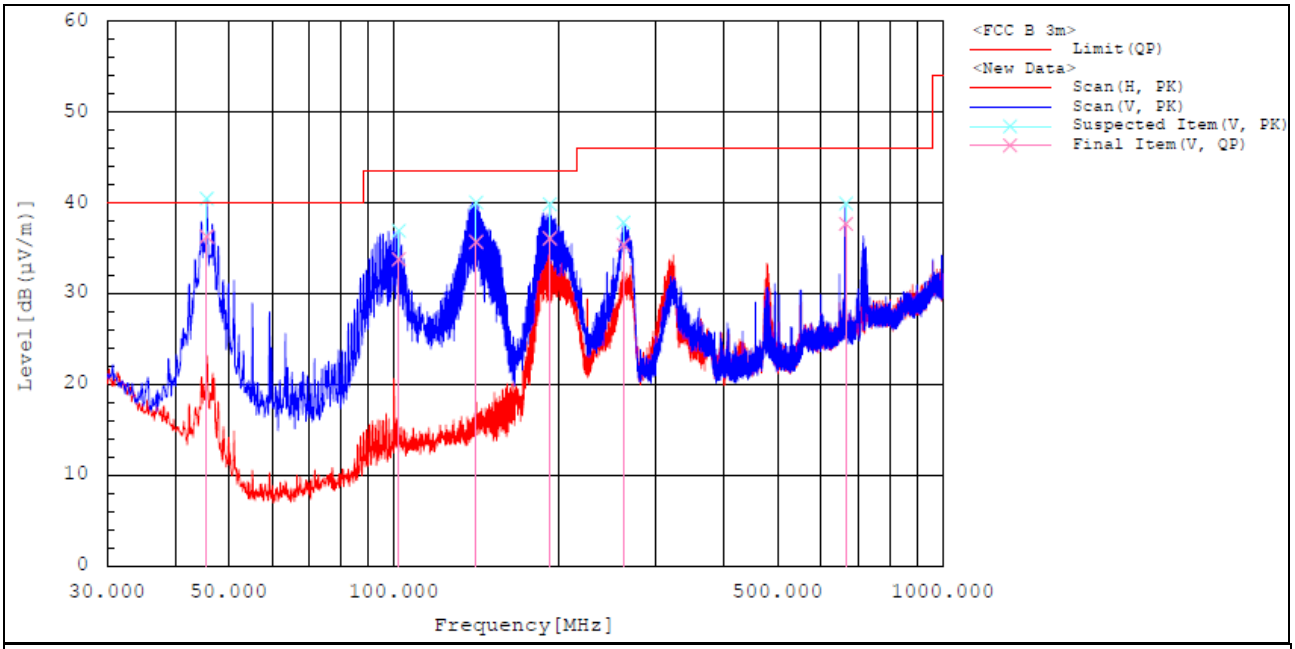
No.	Frequency [MHz]	Pol	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	44.356	V	50.3	-14.2	36.1	40.0	3.9	200.1	359.8
2	94.117	V	50.2	-15.4	34.8	43.5	8.7	100.0	260.6
3	142.811	V	48.2	-12.5	35.7	43.5	7.8	100.0	0.2
4	190.438	V	51.2	-14.9	36.3	43.5	7.2	100.0	308.2
5	666.223	V	36.4	-0.7	35.7	46.0	10.3	100.0	167.8
6	666.223	H	37.2	-0.7	36.5	46.0	9.5	200.0	245.4

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X 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

Test mode : Transmitter (simultaneous transmissions DSS + NII)

The requirements are:
☒ Complies

Test Data



Final Result

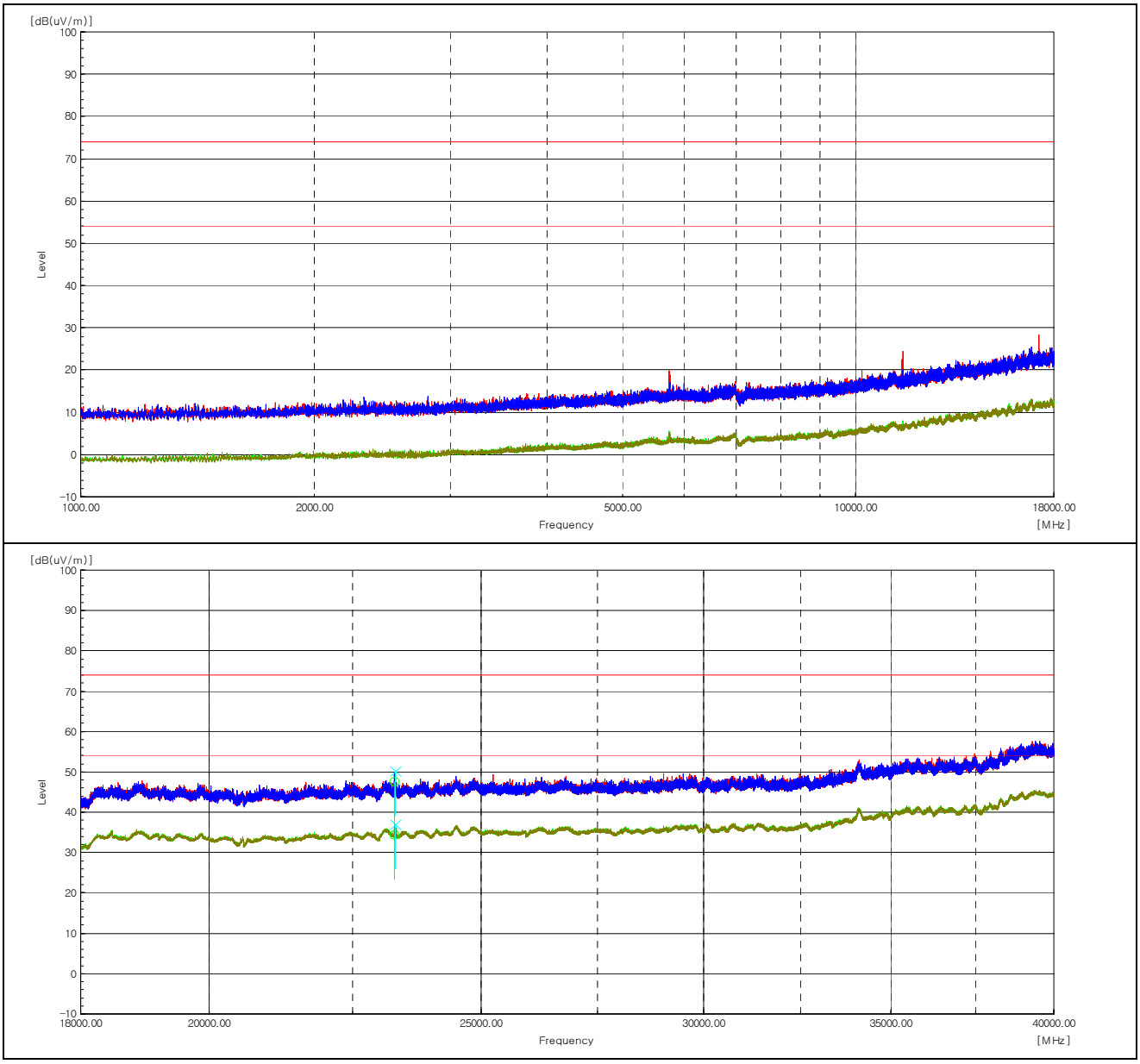
No.	Frequency [MHz]	Pol	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	45.617	V	51.2	-14.9	36.3	40.0	3.7	99.9	242.9
2	102.168	V	48.4	-14.6	33.8	43.5	9.7	99.9	120.0
3	141.259	V	48.4	-12.7	35.7	43.5	7.8	99.9	177.5
4	192.378	V	50.9	-14.8	36.1	43.5	7.4	99.9	307.2
5	262.024	V	44.9	-9.5	35.4	46.0	10.6	200.0	288.8
6	666.514	V	38.4	-0.7	37.7	46.0	8.3	99.9	177.5

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X 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

3) above 1 GHz

The requirements are:
☒ Complies

Test Data



Test mode : Transmitter, 802.11a-ANT0

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 354.98	H	55.7	11.2	-----	66.9	-----	68.2	-----	1.3	-----	Peak
10 355.88	V	51.6	11.2	-----	62.8	-----	68.2	-----	5.4	-----	Peak
15 543.90	H	56.6	13.9	-----	70.5	-----	74.0	-----	3.5	-----	Peak
15 538.99	H	38.7	13.9	0.1	-----	52.7	-----	54.0	-----	1.3	Average
15 540.20	V	51.2	13.9	-----	65.1	-----	74.0	-----	8.9	-----	Peak
15 536.21	V	36.2	13.9	0.1	-----	50.2	-----	54.0	-----	3.8	Average

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 393.44	H	55.1	11.3	-----	66.4	-----	68.2	-----	1.8	-----	Peak
10 407.93	V	51.4	11.4	-----	62.8	-----	68.2	-----	5.4	-----	Peak
15 593.17	H	58.4	13.7	-----	72.1	-----	74.0	-----	1.9	-----	Peak
15 598.72	H	38.1	13.6	0.1	-----	51.8	-----	54.0	-----	2.2	Average
15 597.80	V	52.4	13.6	-----	66.0	-----	74.0	-----	8.0	-----	Peak
15 597.43	V	36.3	13.6	0.1	-----	50.0	-----	54.0	-----	4.0	Average

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 473.82	H	52.8	11.6	-----	64.4	-----	68.2	-----	3.8	-----	Peak
10 481.74	V	52.8	11.6	-----	64.4	-----	68.2	-----	3.8	-----	Peak
15 716.79	H	58.6	14.0	-----	72.6	-----	74.0	-----	1.4	-----	Peak
15 717.07	H	39.2	14.0	0.1	-----	53.3	-----	54.0	-----	0.7	Average
15 714.48	V	54.0	13.9	-----	67.9	-----	74.0	-----	6.1	-----	Peak
15 722.35	V	36.9	14.0	0.1	-----	51.0	-----	54.0	-----	3.0	Average

Ch.5 2(5 260 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 514.33	H	51.9	11.6	-----	63.5	-----	68.2	-----	4.7	-----	Peak
10 526.05	V	50.1	11.6	-----	61.7	-----	68.2	-----	6.5	-----	Peak
15 769.02	H	55.6	14.0	-----	69.6	-----	74.0	-----	4.4	-----	Peak
15 769.21	H	36.9	14.0	0.1	-----	51.0	-----	54.0	-----	3.0	Average
15 774.39	V	49.7	14.0	-----	63.7	-----	74.0	-----	10.3	-----	Peak
15 744.39	V	36.7	14.1	0.1	-----	50.9	-----	54.0	-----	3.1	Average

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 601.53	H	51.0	11.4	-----	62.4	-----	74.0	-----	11.6	-----	Peak
10 602.82	H	36.2	11.4	0.1	-----	47.7	-----	54.0	-----	6.3	Average
10 602.04	V	50.8	11.4	-----	62.2	-----	74.0	-----	11.8	-----	Peak
10 598.05	V	36.5	11.4	0.1	-----	48.0	-----	54.0	-----	6.0	Average
15 889.68	H	52.1	14.1	-----	66.2	-----	74.0	-----	7.8	-----	Peak

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 639.14	H	51.2	11.5	-----	62.7	-----	74.0	-----	11.3	-----	Peak
10 639.91	H	36.0	11.5	0.1	-----	47.6	-----	54.0	-----	6.4	Average
10 642.87	V	48.3	11.6	-----	59.9	-----	74.0	-----	14.1	-----	Peak
10 640.81	V	35.8	11.5	0.1	-----	47.4	-----	54.0	-----	6.6	Average
15 964.42	H	53.4	14.2	-----	67.6	-----	74.0	-----	6.4	-----	Peak
15 957.66	V	49.4	14.1	-----	63.5	-----	74.0	-----	10.5	-----	Peak

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 007.13	H	46.5	12.1	-----	58.6	-----	74.0	-----	15.4	-----	Peak
11 001.66	H	34.9	12.1	0.1	-----	47.1	-----	54.0	-----	6.9	Average
16 500.87	H	48.8	16.1	-----	64.9	-----	68.2	-----	3.3	-----	Peak

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 200.54	H	48.3	12.6	-----	60.9	-----	74.0	-----	13.1	-----	Peak
11 169.04	H	35.1	12.4	0.1	-----	47.6	-----	54.0	-----	6.4	Average

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 405.46	H	48.3	12.6	-----	60.9	-----	74.0	-----	13.1	-----	Peak
11 399.86	H	35.0	12.5	0.1	-----	47.6	-----	54.0	-----	6.4	Average
11 400.50	V	46.3	12.5	-----	58.8	-----	74.0	-----	15.2	-----	Peak
11 417.70	V	34.4	12.8	0.1	-----	47.3	-----	54.0	-----	6.7	Average

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 440.11	H	48.8	13.0	-----	61.8	-----	74.0	-----	12.2	-----	Peak
11 422.92	H	34.6	12.8	0.1	-----	47.5	-----	54.0	-----	6.5	Average
11 436.05	V	45.8	13.0	-----	58.8	-----	74.0	-----	15.2	-----	Peak

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 481.59	H	48.8	12.8	-----	61.6	-----	74.0	-----	12.4	-----	Peak
11 490.48	H	34.5	12.7	0.1	-----	47.3	-----	54.0	-----	6.7	Average

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 570.01	H	48.6	12.5	-----	61.1	-----	74.0	-----	12.9	-----	Peak
11 580.96	H	34.5	12.5	0.1	-----	47.1	-----	54.0	-----	6.9	Average
17 361.25	H	47.5	19.7	-----	67.2	-----	68.2	-----	1.0	-----	Peak

Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 649.68	H	46.9	12.8	-----	59.7	-----	74.0	-----	14.3	-----	Peak
11 618.77	H	34.7	12.7	0.1	-----	47.5	-----	54.0	-----	6.5	Average

Ch.169(5 845 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 688.19	H	46.5	12.4	-----	58.9	-----	74.0	-----	15.1	-----	Peak
17 528.21	H	47.5	20.3	-----	67.8	-----	68.2	-----	0.4	-----	Peak

Ch.173(5 865 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
The emissions above 1 GHz were 20 dB lower than the limit.											

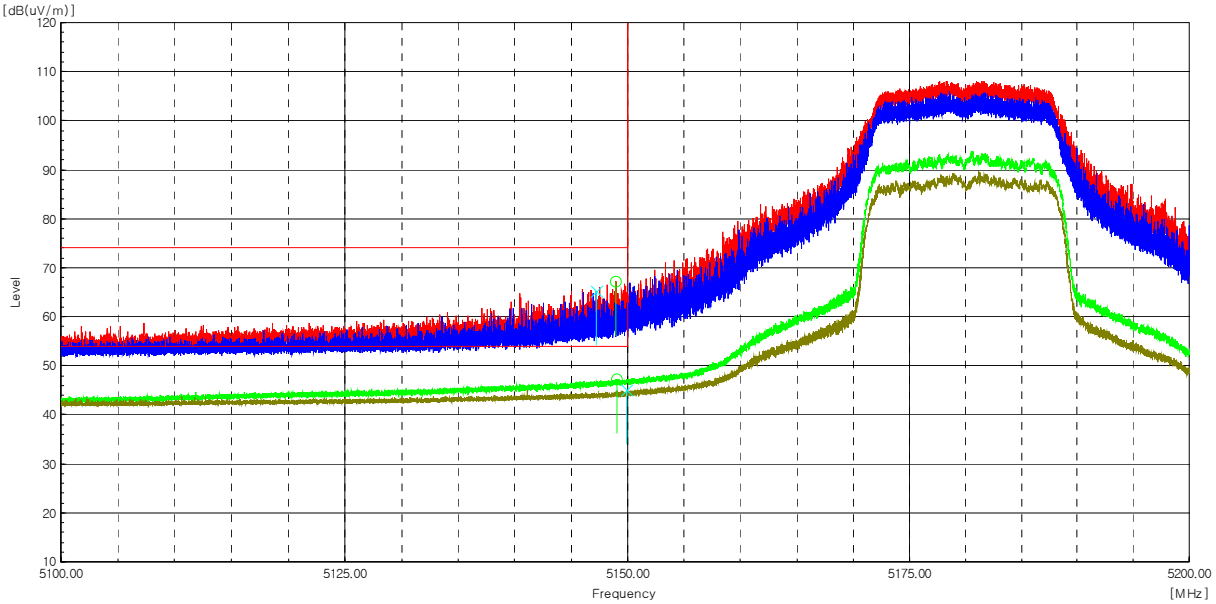
Ch.177(5 885 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 777.52	H	47.0	12.5	-----	59.5	-----	74.0	-----	14.5	-----	Peak

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

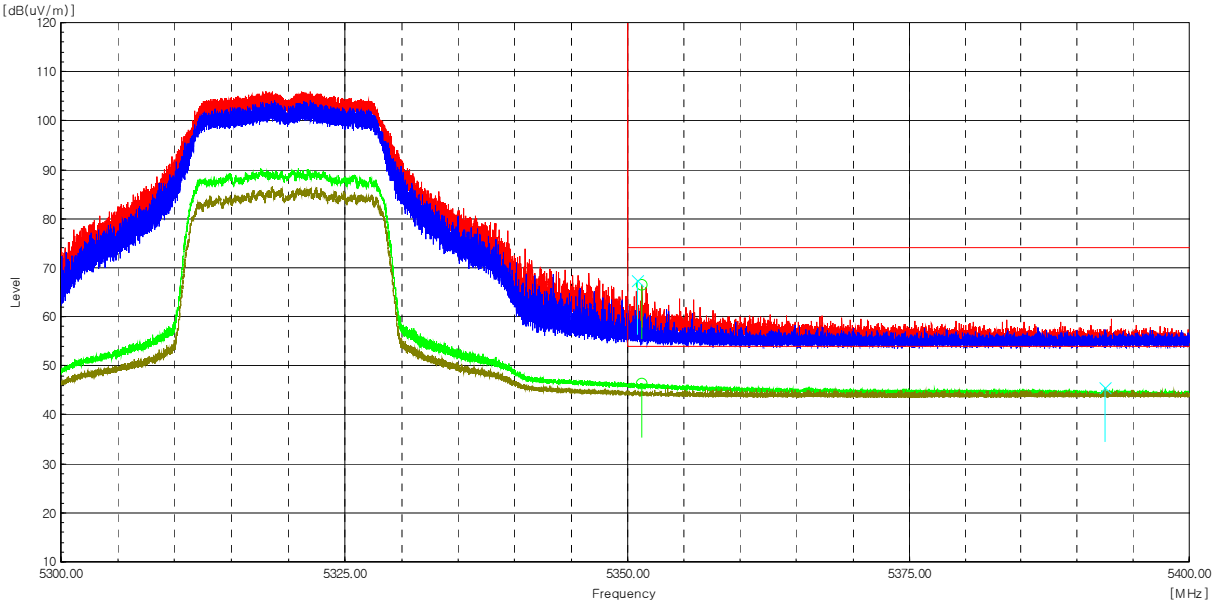
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 148.95	H	64.5	2.7	-----	67.2	-----	74.0	-----	6.8	-----	Peak
5 149.04	H	44.6	2.7	0.1	-----	47.4	-----	54.0	-----	6.6	Average
5 147.19	V	62.5	2.7	-----	65.2	-----	74.0	-----	8.8	-----	Peak
5 149.87	V	42.3	2.7	0.1	-----	45.1	-----	54.0	-----	8.9	Average

Radiated Restricted Band Edge Plot

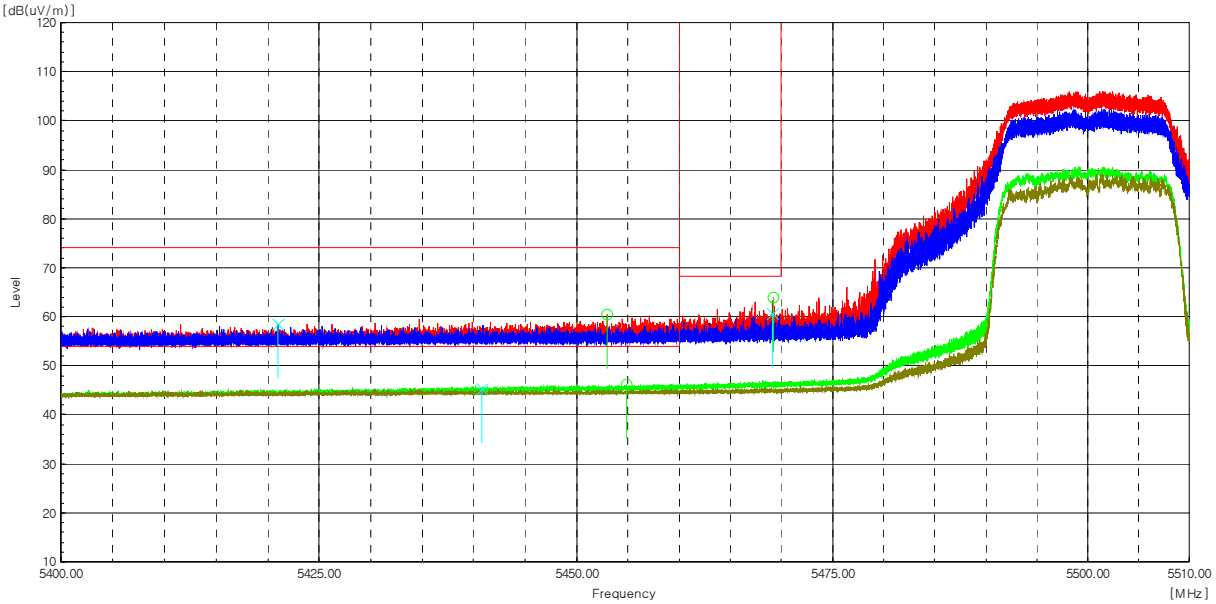
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 351.29	H	63.6	2.9	-----	66.5	-----	74.0	-----	7.5	-----	Peak
5 351.27	H	43.6	2.9	0.1	-----	46.6	-----	54.0	-----	7.4	Average
5 350.84	V	64.5	2.9	-----	67.4	-----	74.0	-----	6.6	-----	Peak
5 392.48	V	42.2	3.2	0.1	-----	45.5	-----	54.0	-----	8.5	Average

Radiated Restricted Band Edge Plot

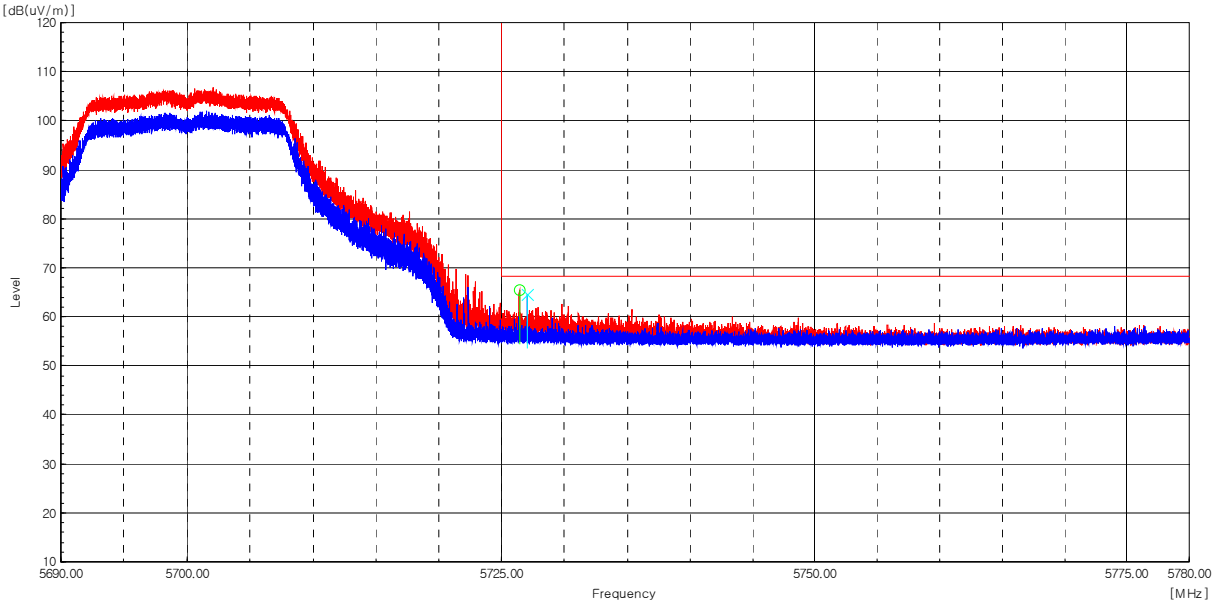
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 452.97	H	56.7	3.8	-----	60.5	-----	74.0	-----	13.5	-----	Peak
5 454.84	H	42.4	3.8	0.1	-----	46.3	-----	54.0	-----	7.7	Average
5 421.00	V	55.0	3.6	-----	58.6	-----	74.0	-----	15.4	-----	Peak
5 440.82	V	41.6	3.8	0.1	-----	45.5	-----	54.0	-----	8.5	Average
5 469.20	H	60.0	3.8	-----	63.8	-----	68.2	-----	4.4	-----	Peak
5 469.07	V	56.9	3.8	-----	60.7	-----	68.2	-----	7.5	-----	Peak

Radiated Restricted Band Edge Plot

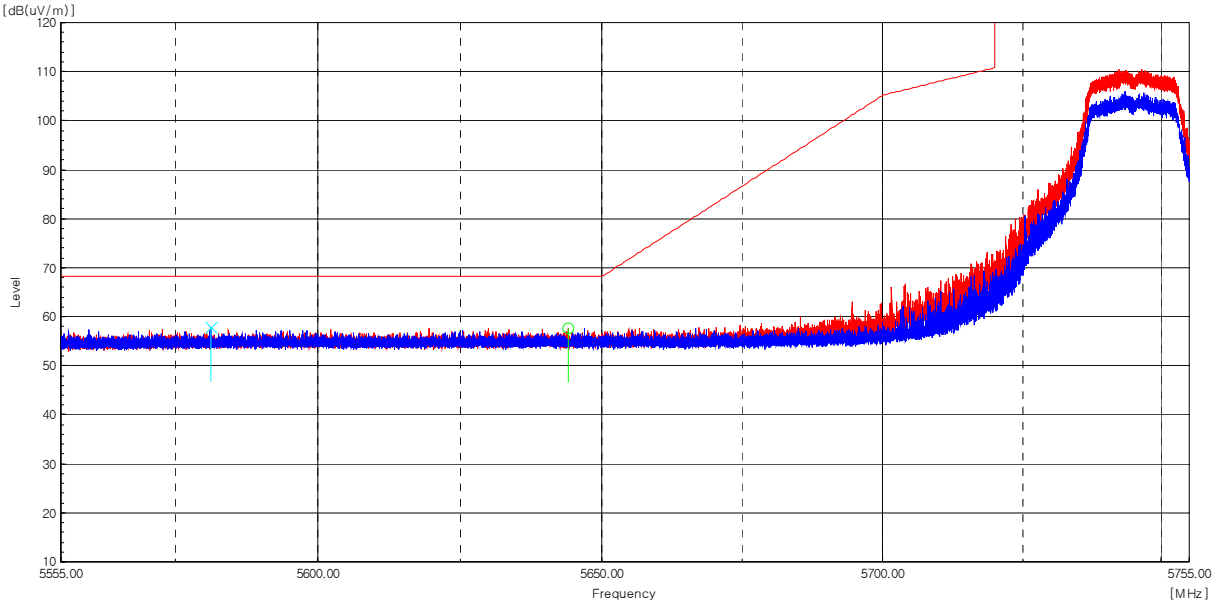
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 726.39	H	61.5	3.9	-----	65.4	-----	68.2	-----	2.8	-----	Peak
5 727.02	V	60.8	3.9	-----	64.7	-----	68.2	-----	3.5	-----	Peak

Radiated Restricted Band Edge Plot

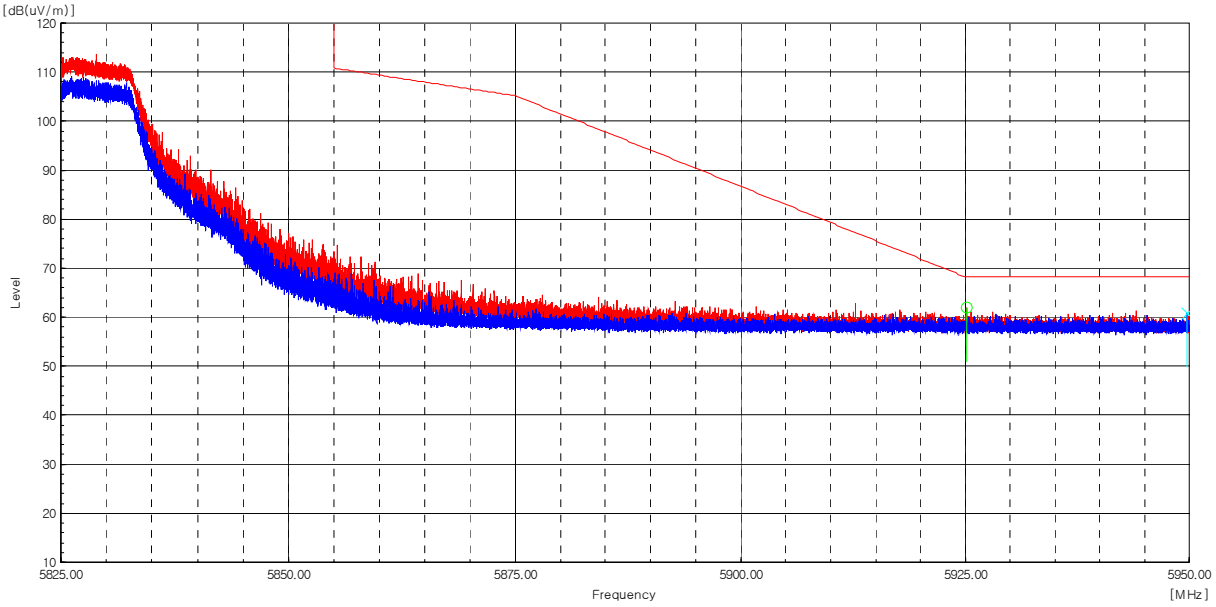
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 644.12	H	53.7	4.0	-----	57.7	-----	68.2	-----	10.5	-----	Peak
5 581.20	V	53.9	4.0	-----	57.9	-----	68.2	-----	10.3	-----	Peak

Radiated Restricted Band Edge Plot

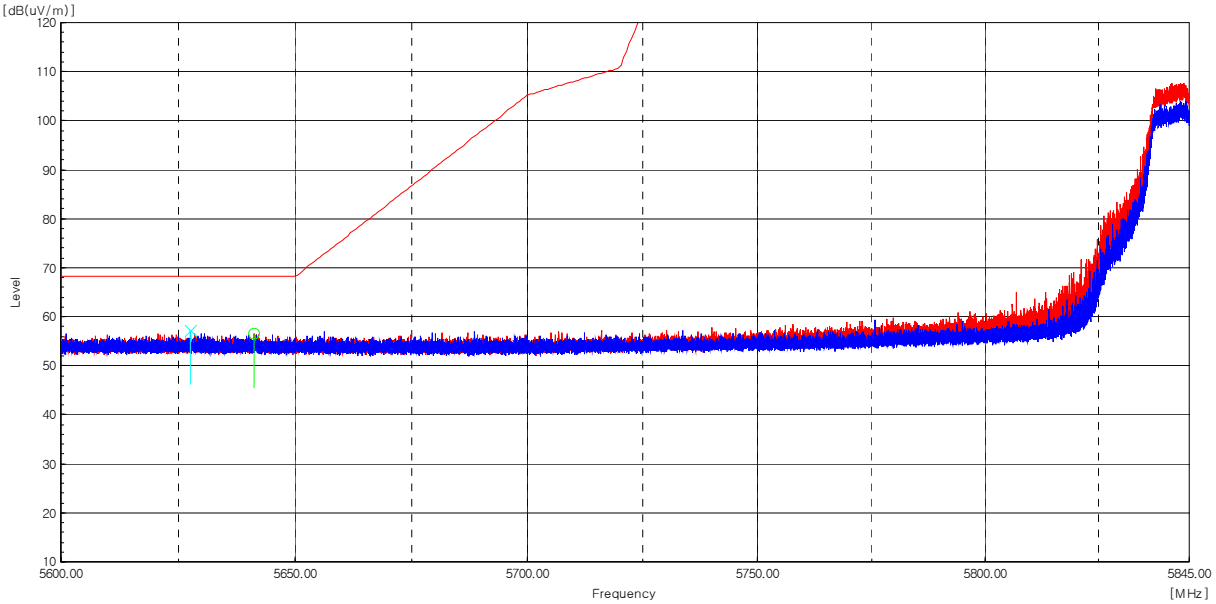
Worst Case Mode :	802.11a–ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 925.13	H	57.1	4.9	-----	62.0	-----	68.2	-----	6.2	-----	Peak
5 949.74	V	55.7	5.1	-----	60.8	-----	68.2	-----	7.4	-----	Peak

Radiated Restricted Band Edge Plot

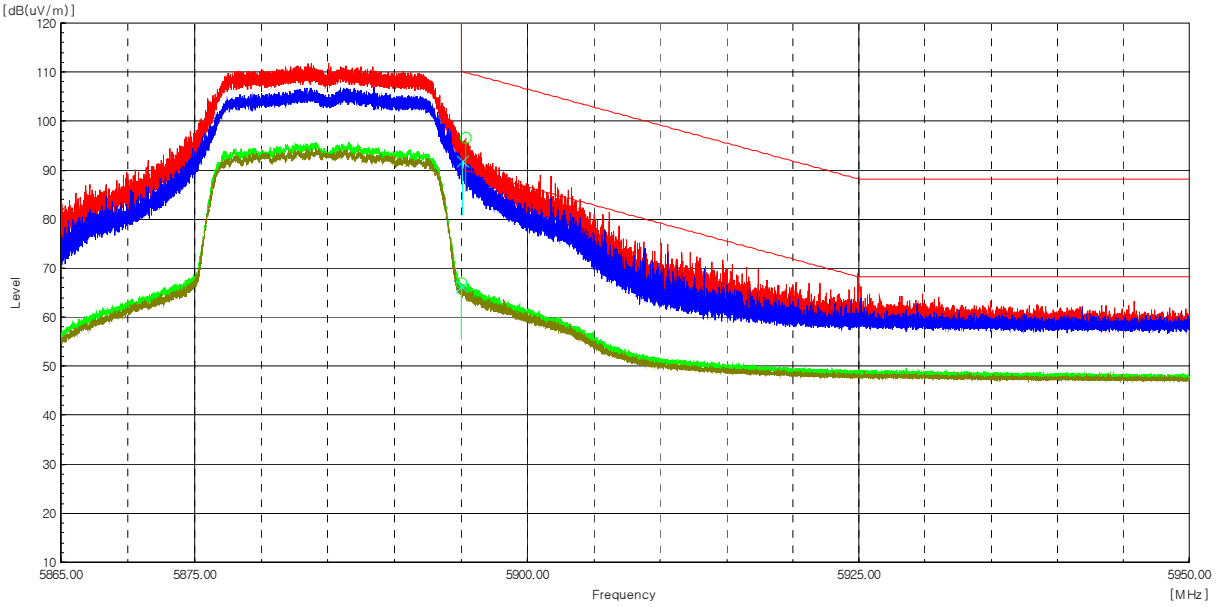
Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 845 MHz
Channel :	165



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 641.13	H	52.5	4.1	-----	56.6	-----	68.2	-----	11.6	-----	Peak
5 627.72	V	53.2	4.1	-----	57.3	-----	68.2	-----	10.9	-----	Peak

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a–ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 885 MHz
Channel :	177



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 895.33	H	92.0	4.7	-----	96.7	-----	110.0	-----	13.3	-----	Peak
5 895.07	H	62.3	4.7	0.1	-----	67.1	-----	90.1	-----	23.0	Average
5 895.15	V	87.2	4.7	-----	91.9	-----	110.1	-----	18.2	-----	Peak
5 895.00	V	61.5	4.7	0.1	-----	66.3	-----	90.2	-----	23.9	Average

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11a-ANT1

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 357.97	H	56.1	11.2	-----	67.3	-----	68.2	-----	0.9	-----	Peak
10 358.65	V	49.1	11.2	-----	60.3	-----	68.2	-----	7.9	-----	Peak
15 539.92	H	55.1	13.9	-----	69.0	-----	74.0	-----	5.0	-----	Peak
15 539.55	H	37.9	13.9	0.1	-----	51.9	-----	54.0	-----	2.1	Average
15 551.22	V	48.0	13.9	-----	61.9	-----	74.0	-----	12.1	-----	Peak
15 517.70	V	36.1	13.9	0.1	-----	50.1	-----	54.0	-----	3.9	Average

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 396.27	H	56.4	11.3	-----	67.7	-----	68.2	-----	0.5	-----	Peak
10 405.24	V	47.8	11.4	-----	59.2	-----	68.2	-----	9.0	-----	Peak
15 586.31	H	53.1	13.7	-----	66.8	-----	74.0	-----	7.2	-----	Peak
15 599.19	H	36.4	13.6	0.1	-----	50.1	-----	54.0	-----	3.9	Average

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 475.74	H	56.3	11.6	-----	67.9	-----	68.2	-----	0.3	-----	Peak
10 478.56	V	50.2	11.6	-----	61.8	-----	68.2	-----	6.4	-----	Peak
15 715.87	H	54.6	14.0	-----	68.6	-----	74.0	-----	5.4	-----	Peak
15 718.64	H	37.8	14.0	0.1	-----	51.9	-----	54.0	-----	2.1	Average
15 746.52	V	47.7	14.1	-----	61.8	-----	74.0	-----	12.2	-----	Peak
15 734.94	V	36.4	14.1	0.1	-----	50.6	-----	54.0	-----	3.4	Average

Ch.5 2(5 260 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 521.42	H	54.4	11.6	-----	66.0	-----	68.2	-----	2.2	-----	Peak
10 521.03	V	49.0	11.6	-----	60.6	-----	68.2	-----	7.6	-----	Peak
15 775.69	H	52.4	14.0	-----	66.4	-----	74.0	-----	7.6	-----	Peak
15 758.74	H	36.6	14.1	0.1	-----	50.8	-----	54.0	-----	3.2	Average
15 776.80	V	47.9	14.0	-----	61.9	-----	74.0	-----	12.1	-----	Peak
15 765.32	V	37.1	14.1	0.1	-----	51.3	-----	54.0	-----	2.7	Average

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 600.67	H	52.6	11.4	-----	64.0	-----	74.0	-----	10.0	-----	Peak
10 599.09	H	36.9	11.4	0.1	-----	48.4	-----	54.0	-----	5.6	Average
10 599.09	V	49.0	11.4	-----	60.4	-----	74.0	-----	13.6	-----	Peak
10 598.92	V	35.6	11.4	0.1	-----	47.1	-----	54.0	-----	6.9	Average
15 906.45	H	50.6	14.1	-----	64.7	-----	74.0	-----	9.3	-----	Peak
15 906.63	H	35.8	14.1	0.1	-----	50.0	-----	54.0	-----	4.0	Average

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 632.93	H	52.2	11.5	-----	63.7	-----	74.0	-----	10.3	-----	Peak
10 640.38	H	36.2	11.5	0.1	-----	47.8	-----	54.0	-----	6.2	Average
10 647.43	V	47.0	11.6	-----	58.6	-----	74.0	-----	15.4	-----	Peak
10 635.81	V	35.1	11.5	0.1	-----	46.7	-----	54.0	-----	7.3	Average
15 964.51	H	53.0	14.2	-----	67.2	-----	74.0	-----	6.8	-----	Peak
15 959.97	H	35.6	14.2	0.1	-----	49.9	-----	54.0	-----	4.1	Average

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 994.70	H	47.6	12.1	-----	59.7	-----	74.0	-----	14.3	-----	Peak
11 019.57	H	34.7	12.1	0.1	-----	46.9	-----	54.0	-----	7.1	Average
10 998.87	V	47.3	12.1	-----	59.4	-----	74.0	-----	14.6	-----	Peak
11 017.14	V	34.8	12.1	0.1	-----	47.0	-----	54.0	-----	7.0	Average

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 206.26	H	50.6	12.6	-----	63.2	-----	74.0	-----	10.8	-----	Peak
11 200.00	H	35.6	12.6	0.1	-----	48.3	-----	54.0	-----	5.7	Average
11 199.32	V	50.4	12.6	-----	63.0	-----	74.0	-----	11.0	-----	Peak
11 190.98	V	35.0	12.5	0.1	-----	47.6	-----	54.0	-----	6.4	Average

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 400.17	H	50.8	12.5	-----	63.3	-----	74.0	-----	10.7	-----	Peak
11 399.10	H	35.1	12.5	0.1	-----	47.7	-----	54.0	-----	6.3	Average
11 406.54	V	47.3	12.6	-----	59.9	-----	74.0	-----	14.1	-----	Peak
11 431.64	V	34.2	12.9	0.1	-----	47.2	-----	54.0	-----	6.8	Average

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 438.75	H	48.5	13.0	-----	61.5	-----	74.0	-----	12.5	-----	Peak
11 434.86	H	34.7	13.0	0.1	-----	47.8	-----	54.0	-----	6.2	Average
11 444.90	V	46.9	13.0	-----	59.9	-----	74.0	-----	14.1	-----	Peak
11 452.17	V	34.3	13.0	0.1	-----	47.4	-----	54.0	-----	6.6	Average

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 501.98	H	48.6	12.6	-----	61.2	-----	74.0	-----	12.8	-----	Peak
11 487.48	H	34.3	12.8	0.1	-----	47.2	-----	54.0	-----	6.8	Average
11 487.03	V	46.1	12.8	-----	58.9	-----	74.0	-----	15.1	-----	Peak
11 485.40	V	34.4	12.8	0.1	-----	47.3	-----	54.0	-----	6.7	Average
17 236.70	H	48.0	19.1	-----	67.1	-----	68.2	-----	1.1	-----	Peak

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 574.57	H	49.3	12.5	-----	61.8	-----	74.0	-----	12.2	-----	Peak
11 574.29	H	34.9	12.5	0.1	-----	47.5	-----	54.0	-----	6.5	Average
11 570.73	V	47.6	12.5	-----	60.1	-----	74.0	-----	13.9	-----	Peak
11 557.37	V	34.9	12.5	0.1	-----	47.5	-----	54.0	-----	6.5	Average

Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 641.07	H	50.5	12.8	-----	63.3	-----	74.0	-----	10.7	-----	Peak
11 648.62	H	34.9	12.8	0.1	-----	47.8	-----	54.0	-----	6.2	Average
11 649.41	V	46.2	12.8	-----	59.0	-----	74.0	-----	15.0	-----	Peak
11 640.84	V	34.6	12.8	0.1	-----	47.5	-----	54.0	-----	6.5	Average

Ch.169(5 845 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 690.19	H	49.5	12.4	-----	61.9	-----	74.0	-----	12.1	-----	Peak
11 689.54	H	35.1	12.4	0.1	-----	47.6	-----	54.0	-----	6.4	Average
11 689.87	V	46.8	12.4	-----	59.2	-----	74.0	-----	14.8	-----	Peak
11 705.26	V	34.2	12.4	0.1	-----	46.7	-----	54.0	-----	7.3	Average

Ch.173(5 865 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 733.47	H	49.8	12.4	-----	62.2	-----	74.0	-----	11.8	-----	Peak
11 731.92	H	35.3	12.4	0.1	-----	47.8	-----	54.0	-----	6.2	Average
11 729.15	V	47.8	12.4	-----	60.2	-----	74.0	-----	13.8	-----	Peak
11 709.96	V	34.7	12.4	0.1	-----	47.2	-----	54.0	-----	6.8	Average

Ch.177(5 885 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 772.17	H	50.7	12.5	-----	63.2	-----	74.0	-----	10.8	-----	Peak
11 769.34	H	35.8	12.4	0.1	-----	48.3	-----	54.0	-----	5.7	Average
11 761.80	V	46.4	12.4	-----	58.8	-----	74.0	-----	15.2	-----	Peak
11 789.05	V	34.6	12.6	0.1	-----	47.3	-----	54.0	-----	6.7	Average

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain