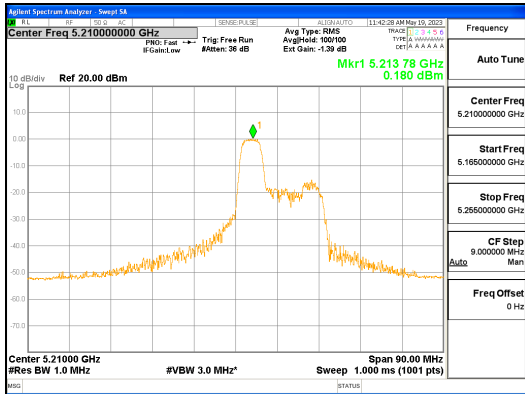


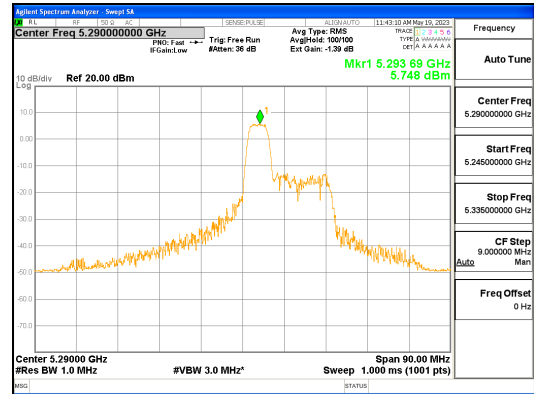


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

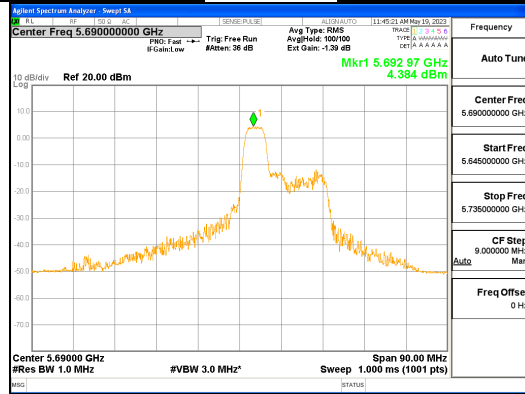
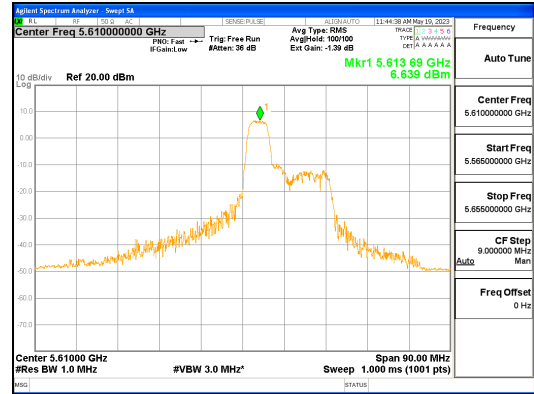
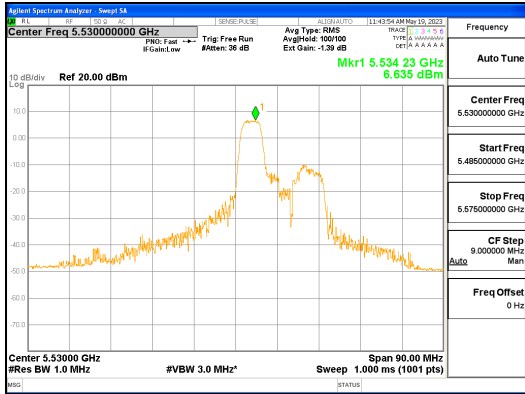
Report No.:  
 CTK-2023-01326  
 Page (328) / (539) Pages



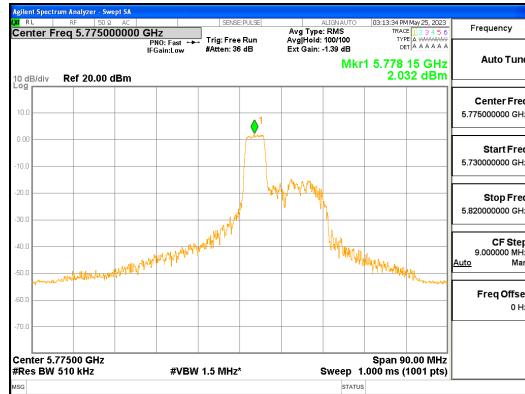
ANT L\_802.11ax\_HE80\_52T\_Mid\_UNII 1



ANT L\_802.11ax\_HE80\_52T\_Mid\_UNII 2A



ANT L\_802.11ax\_HE80\_52T\_Mid\_UNII 2C

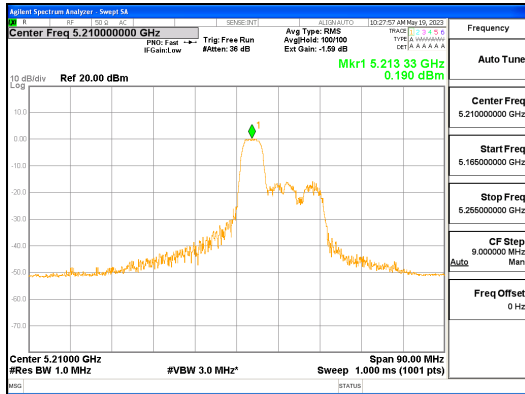


ANT L\_802.11ax\_HE80\_52T\_Mid\_UNII 3

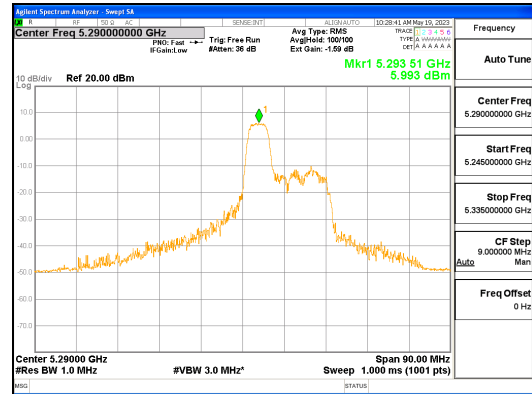


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

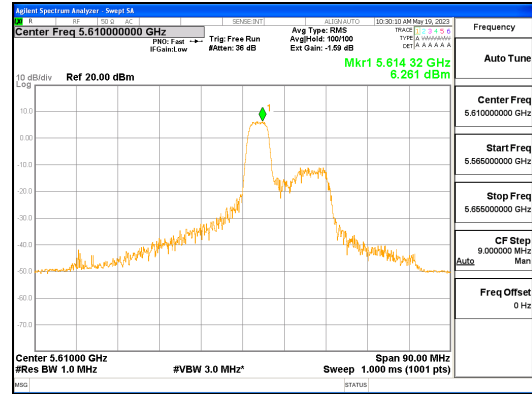
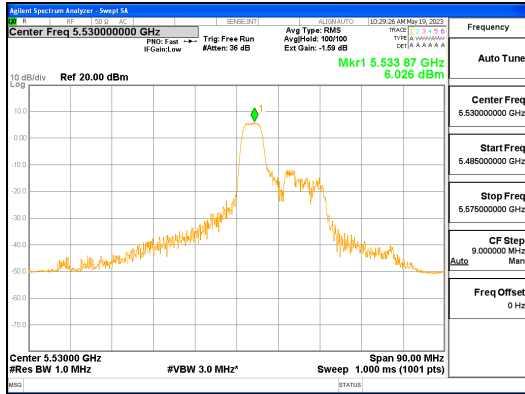
Report No.:  
 CTK-2023-01326  
 Page (329) / (539) Pages



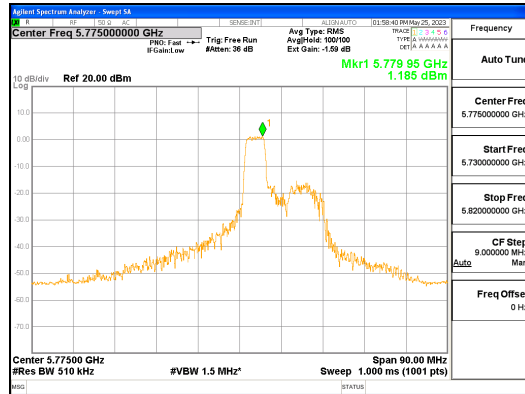
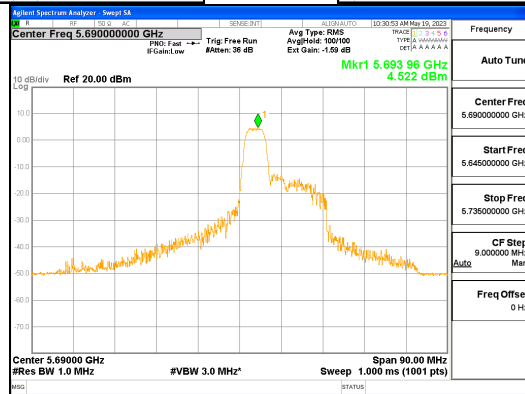
ANT R\_802.11ax\_HE80\_52T\_Mid\_UNII 1



ANT R\_802.11ax\_HE80\_52T\_Mid\_UNII 2A



ANT R\_802.11ax\_HE80\_52T\_Mid\_UNII 2C

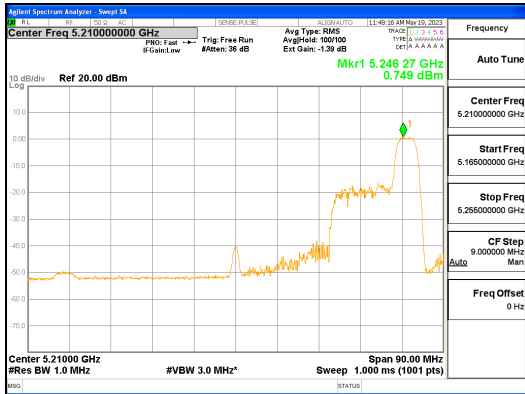


ANT R\_802.11ax\_HE80\_52T\_Mid\_UNII 3

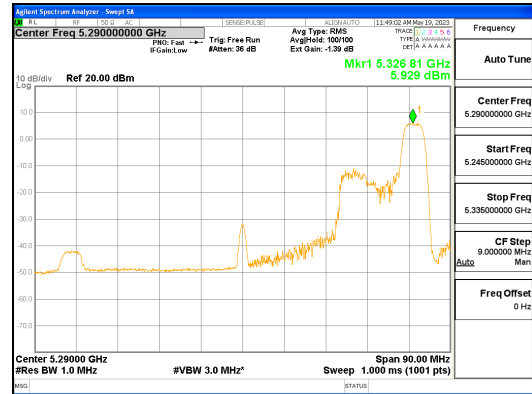


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

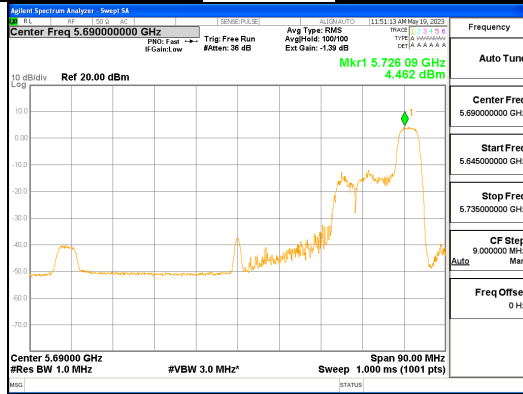
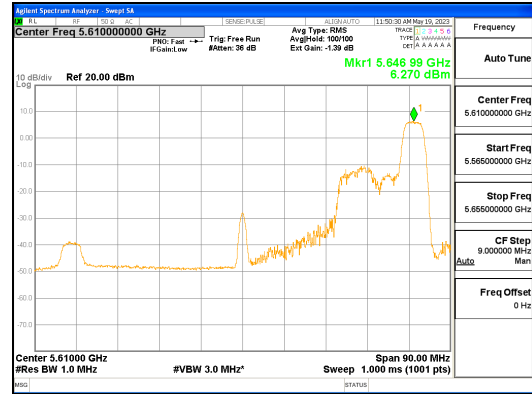
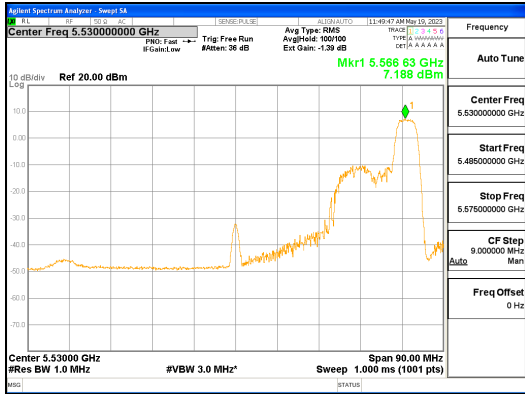
Report No.:  
 CTK-2023-01326  
 Page (330) / (539) Pages



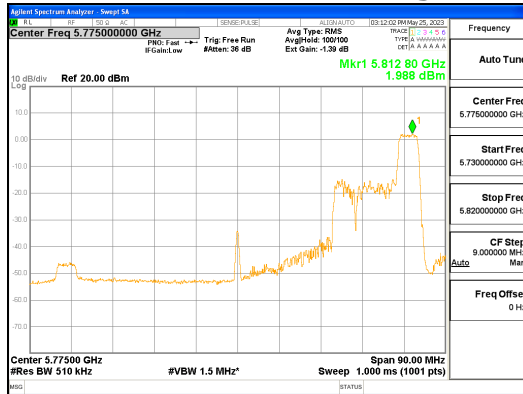
ANT L\_802.11ax\_HE80\_52T\_High\_UNII 1



ANT L\_802.11ax\_HE80\_52T\_High\_UNII 2A



ANT L\_802.11ax\_HE80\_52T\_High\_UNII 2C

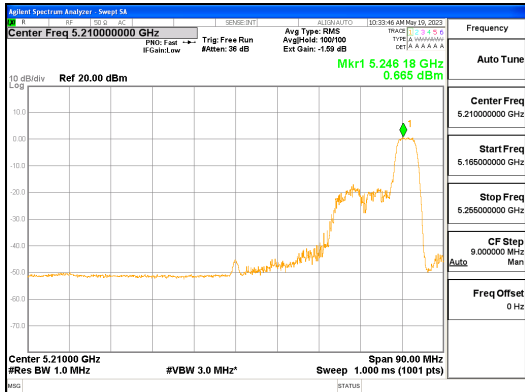


ANT L\_802.11ax\_HE80\_52T\_High\_UNII 3

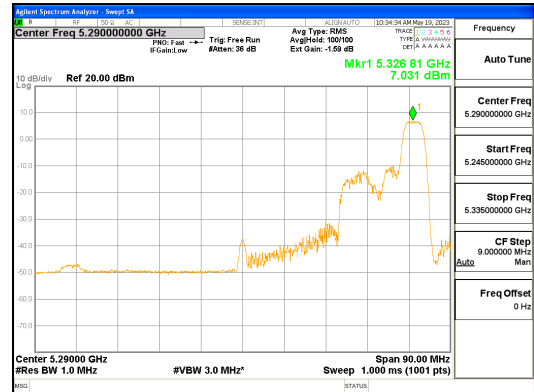


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

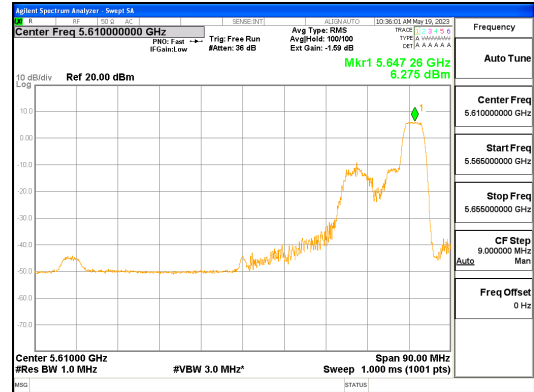
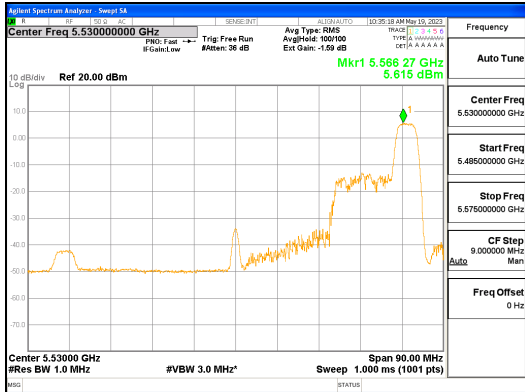
Report No.:  
 CTK-2023-01326  
 Page (331) / (539) Pages



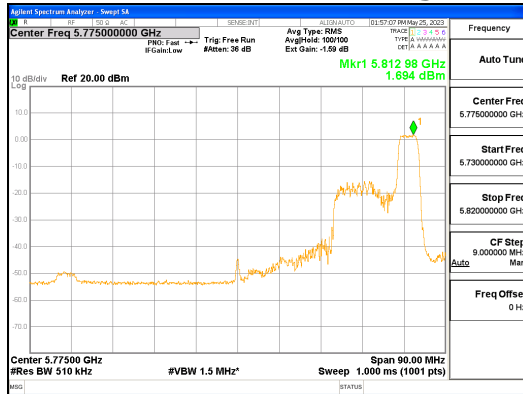
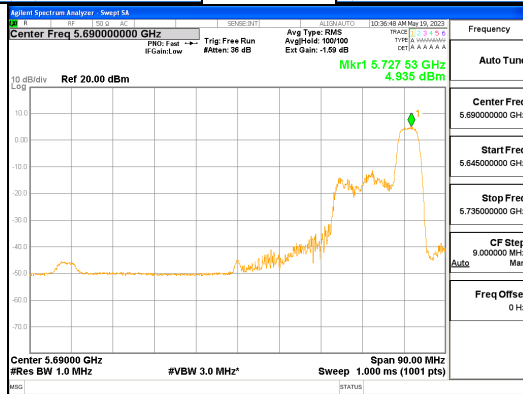
**ANT R\_802.11ax\_HE80\_52T\_High\_UNII 1**



**ANT R\_802.11ax\_HE80\_52T\_High\_UNII 2A**



**ANT R\_802.11ax\_HE80\_52T\_High\_UNII 2C**

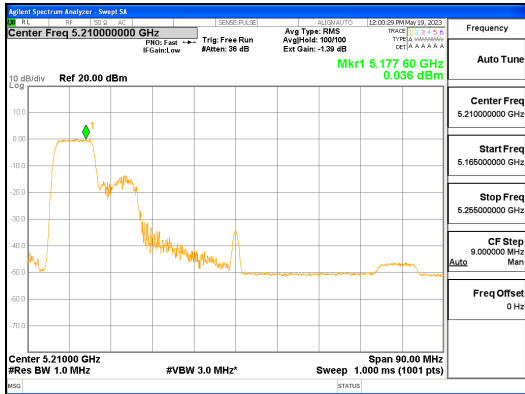


**ANT R\_802.11ax\_HE80\_52T\_High\_UNII 3**

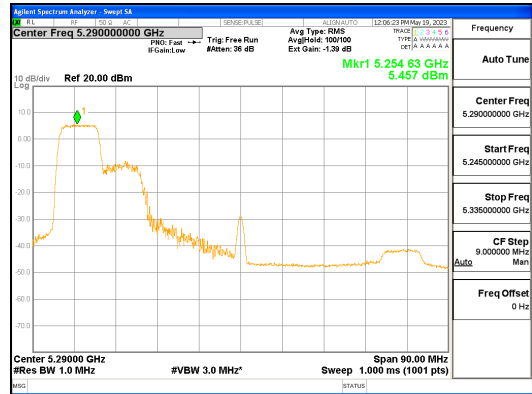


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

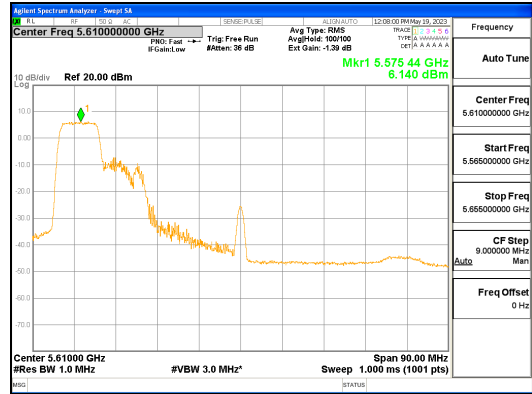
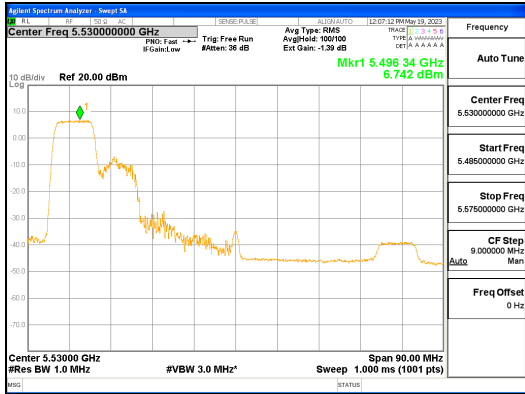
Report No.:  
 CTK-2023-01326  
 Page (332) / (539) Pages



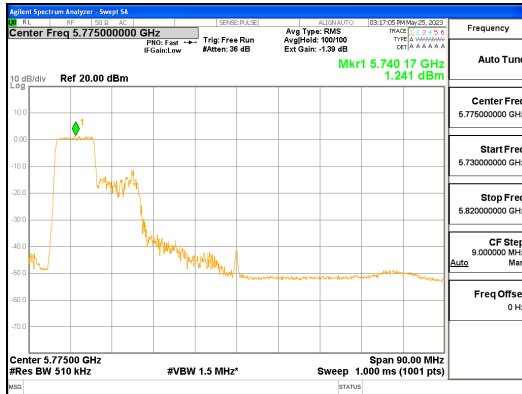
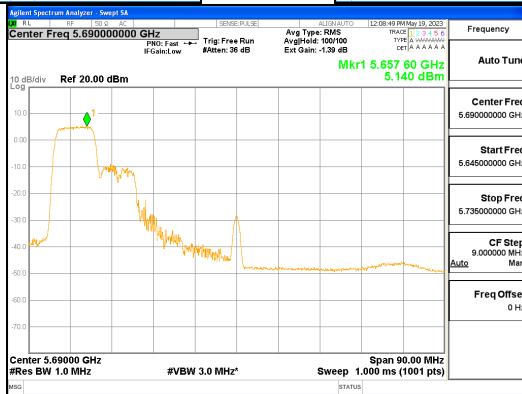
ANT L\_802.11ax\_HE80\_106T\_Low\_UNII  
 1



ANT L\_802.11ax\_HE80\_106T\_Low\_UNII  
 2A



ANT L\_802.11ax\_HE80\_106T\_Low\_UNII 2C

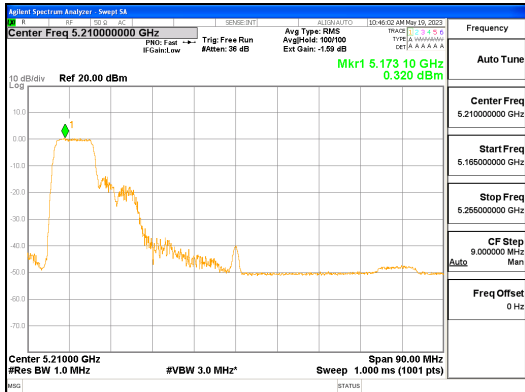


ANT L\_802.11ax\_HE80\_106T\_Low\_UNII 3

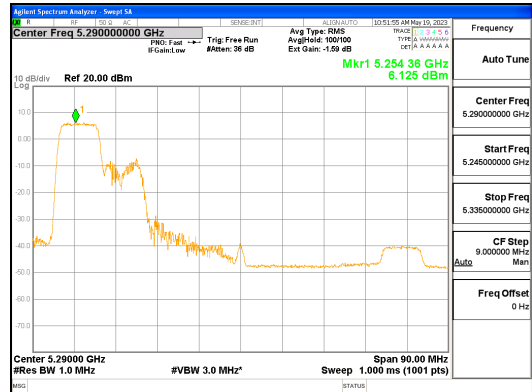


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

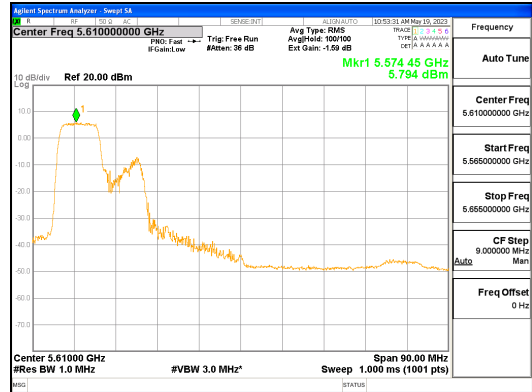
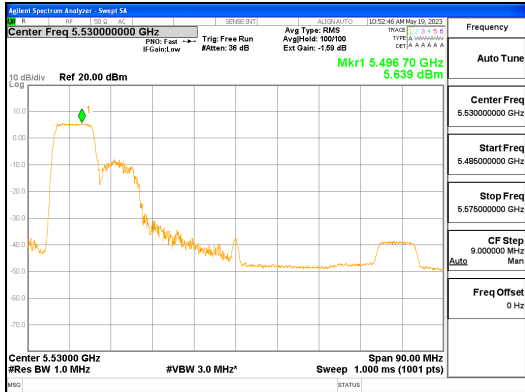
Report No.:  
 CTK-2023-01326  
 Page (333) / (539) Pages



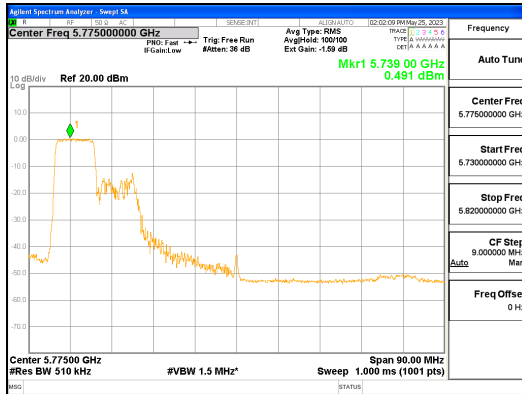
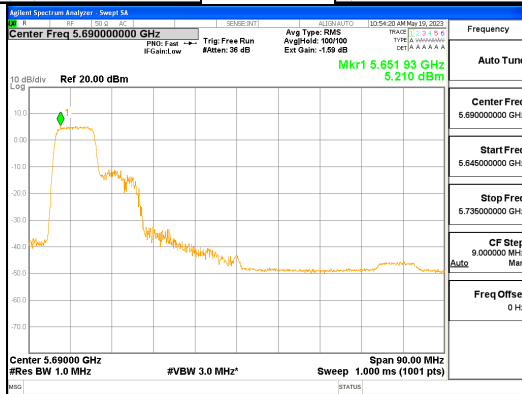
**ANT R\_802.11ax\_HE80\_106T\_Low\_UNII 1**



**ANT R\_802.11ax\_HE80\_106T\_Low\_UNII 2A**



**ANT R\_802.11ax\_HE80\_106T\_Low\_UNII 2C**

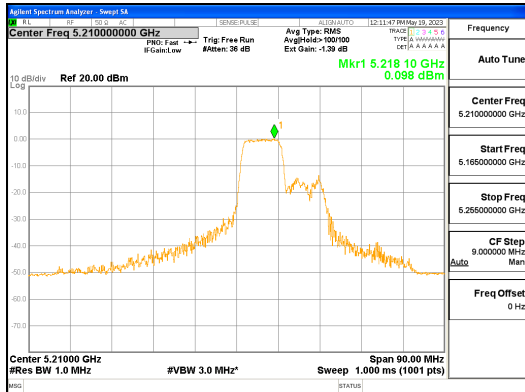


**ANT R\_802.11ax\_HE80\_106T\_Low\_UNII 3**

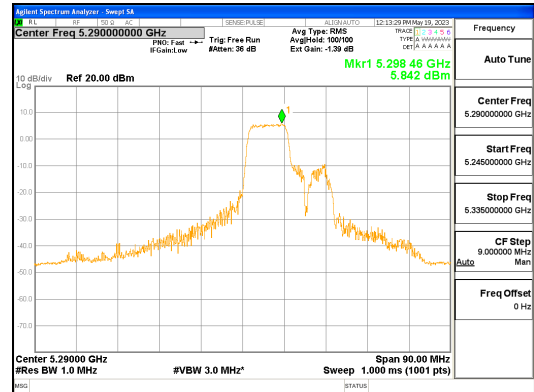


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

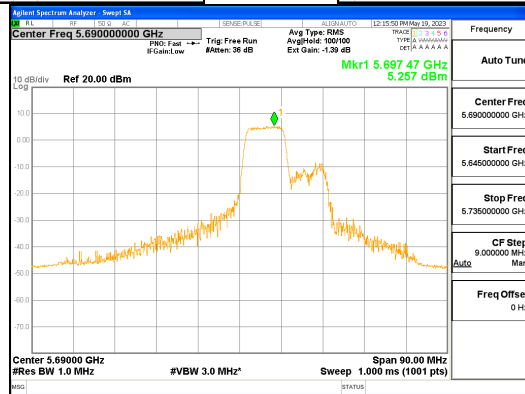
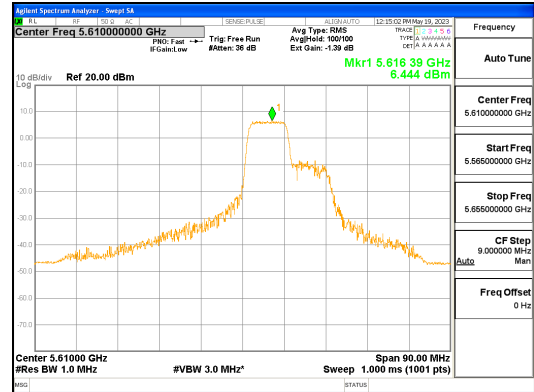
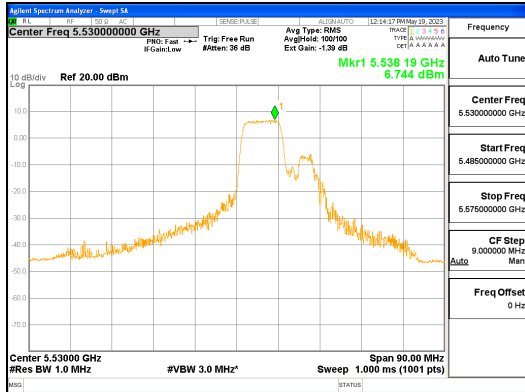
Report No.:  
 CTK-2023-01326  
 Page (334) / (539) Pages



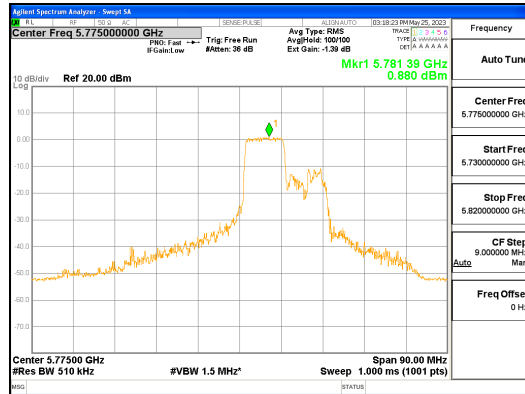
**ANT L\_802.11ax\_HE80\_106T\_Mid\_UNII 1**



**ANT L\_802.11ax\_HE80\_106T\_Mid\_UNII 2A**



**ANT L\_802.11ax\_HE80\_106T\_Mid\_UNII 2C**

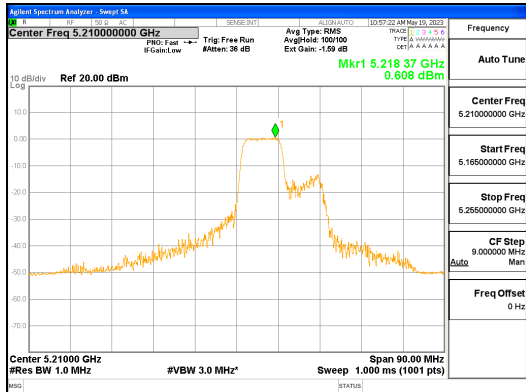


**ANT L\_802.11ax\_HE80\_106T\_Mid\_UNII 3**

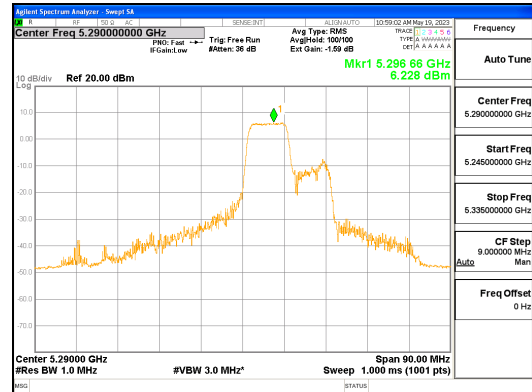


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

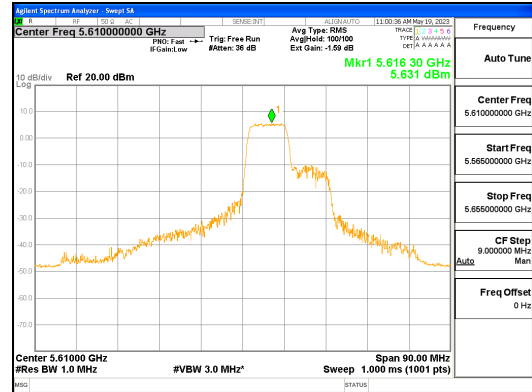
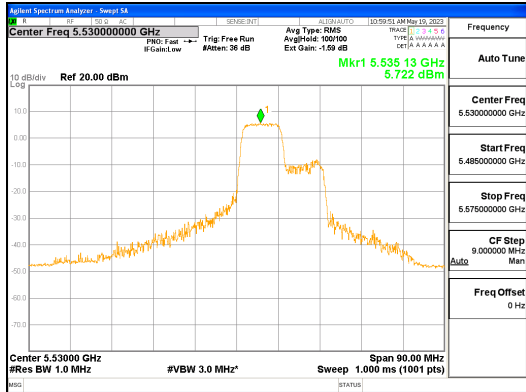
Report No.:  
 CTK-2023-01326  
 Page (335) / (539) Pages



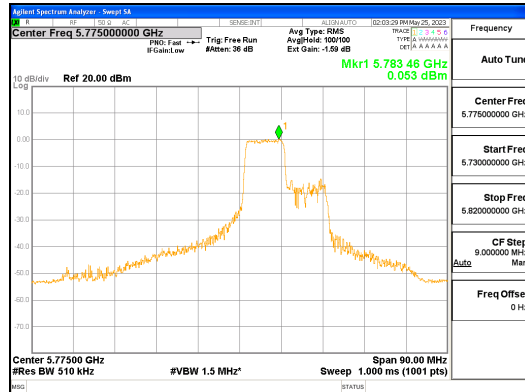
ANT R\_802.11ax\_HE80\_106T\_Mid\_UNII  
 1



ANT R\_802.11ax\_HE80\_106T\_Mid\_UNII  
 2A



ANT R\_802.11ax\_HE80\_106T\_Mid\_UNII 2C



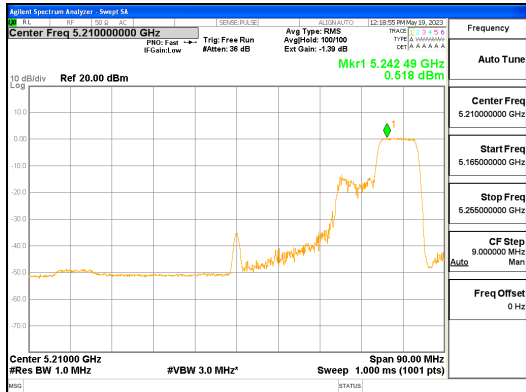
ANT R\_802.11ax\_HE80\_106T\_Mid\_UNII 3



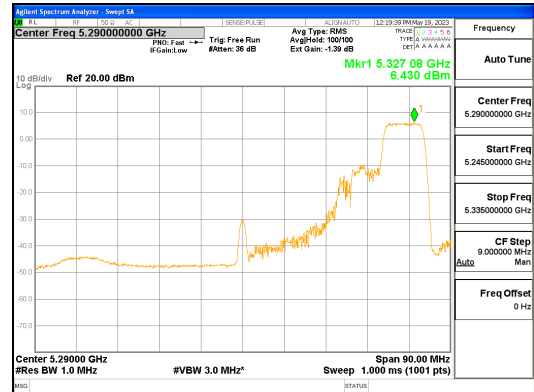


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

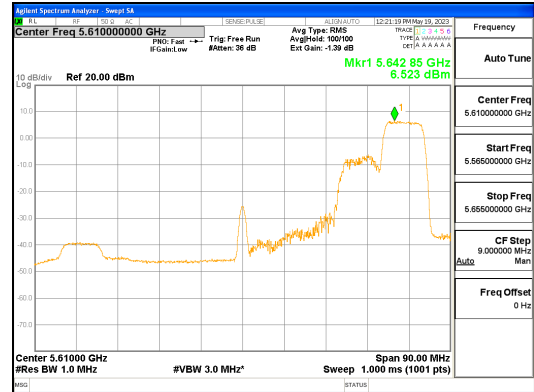
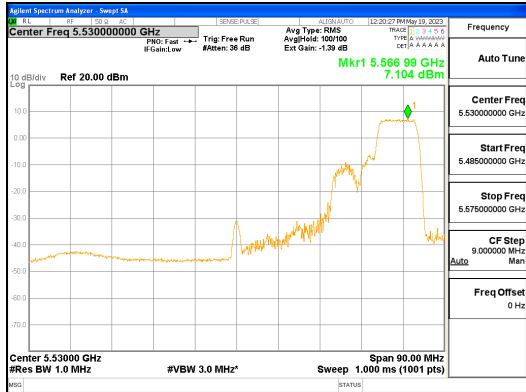
Report No.:  
 CTK-2023-01326  
 Page (336) / (539) Pages



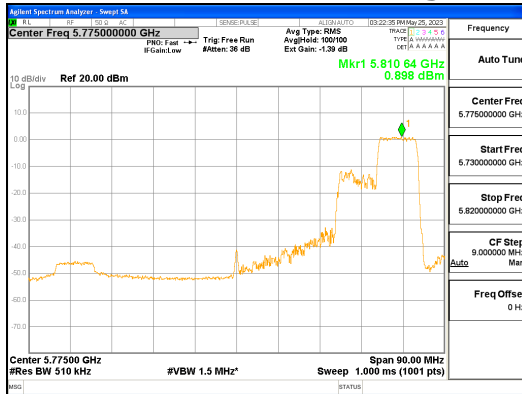
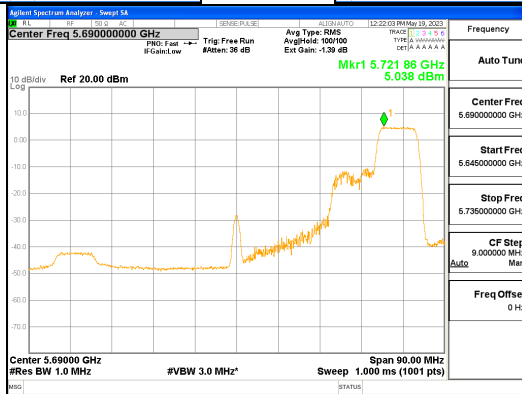
**ANT L\_802.11ax\_HE80\_106T\_High\_UNII 1**



**ANT L\_802.11ax\_HE80\_106T\_High\_UNII 2A**



**ANT L\_802.11ax\_HE80\_106T\_High\_UNII 2C**

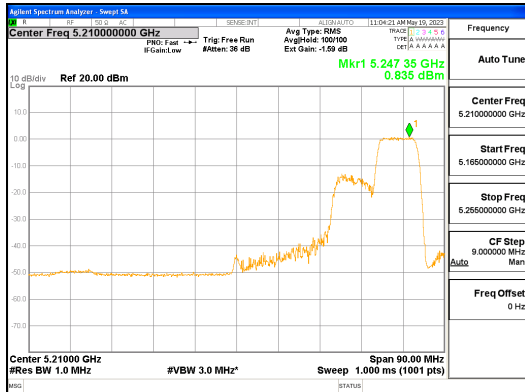


**ANT L\_802.11ax\_HE80\_106T\_High\_UNII 3**

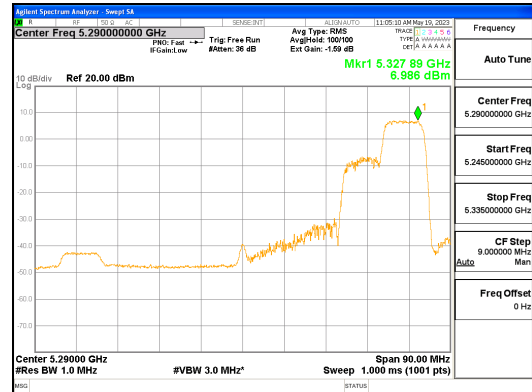


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

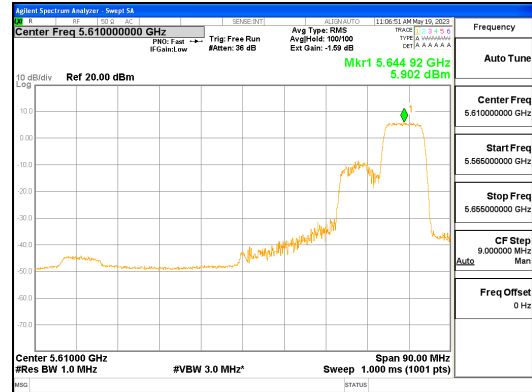
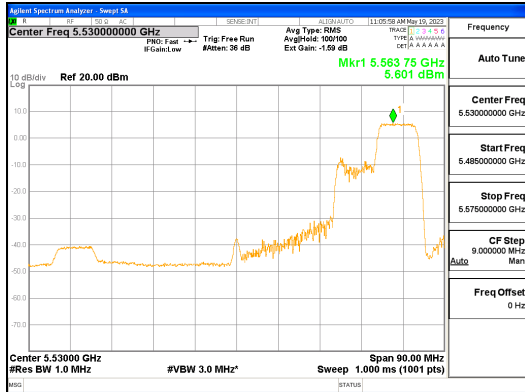
Report No.:  
 CTK-2023-01326  
 Page (337) / (539) Pages



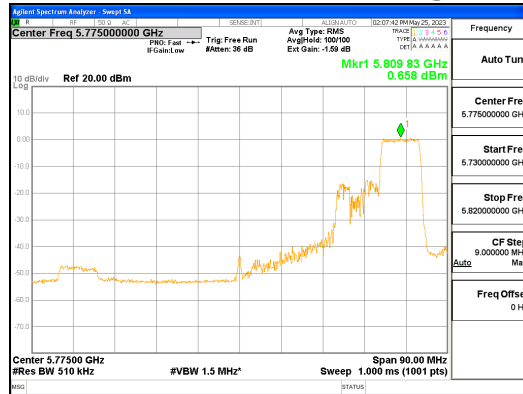
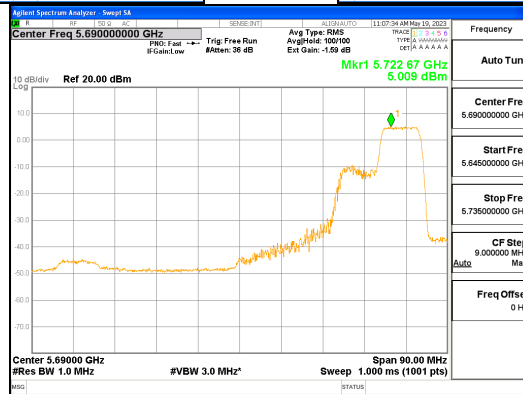
**ANT R\_802.11ax\_HE80\_106T\_High\_UNII 1**



**ANT R\_802.11ax\_HE80\_106T\_High\_UNII 2A**



**ANT R\_802.11ax\_HE80\_106T\_High\_UNII 2C**

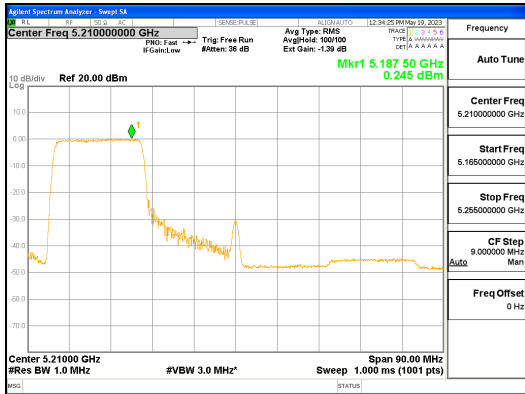


**ANT R\_802.11ax\_HE80\_106T\_High\_UNII 3**

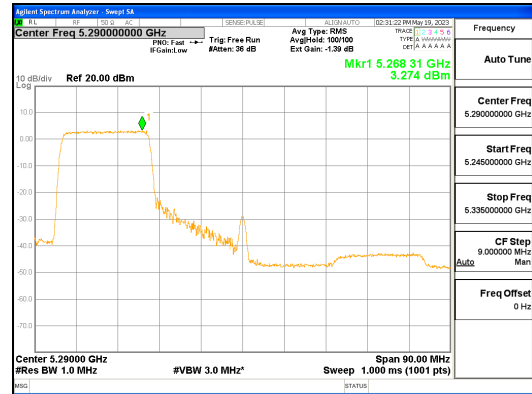


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

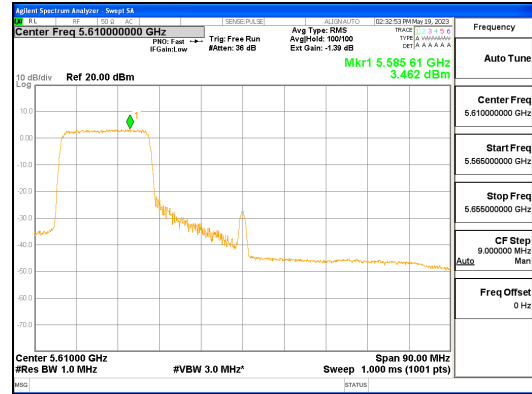
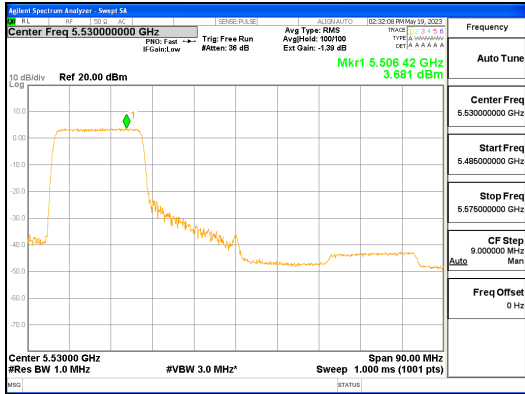
Report No.:  
 CTK-2023-01326  
 Page (338) / (539) Pages



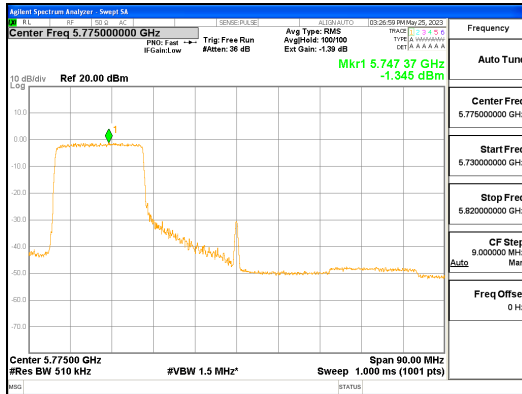
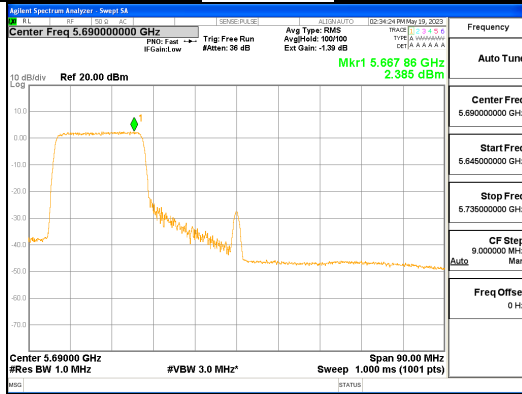
**ANT L\_802.11ax\_HE80\_242T\_Low\_UNII 1**



**ANT L\_802.11ax\_HE80\_242T\_Low\_UNII 2A**



**ANT L\_802.11ax\_HE80\_242T\_Low\_UNII 2C**

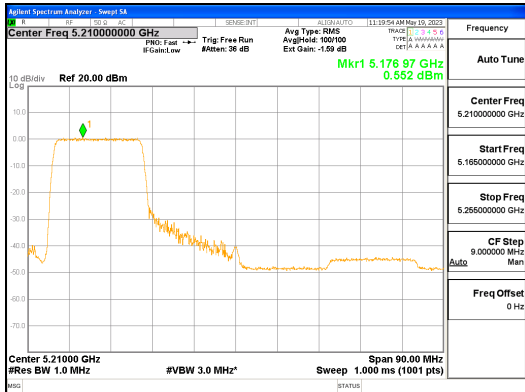


**ANT L\_802.11ax\_HE80\_242T\_Low\_UNII 3**

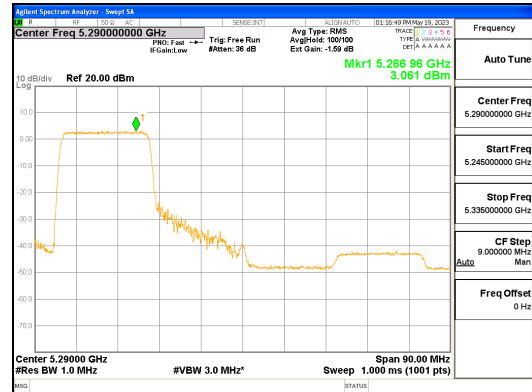


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

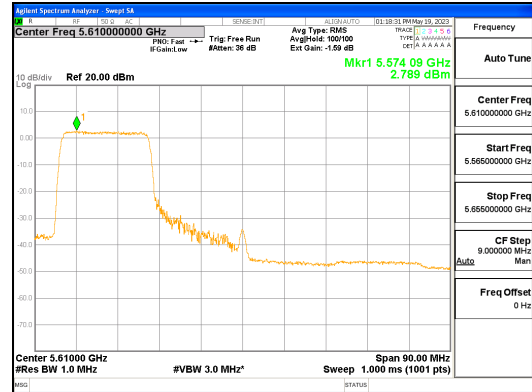
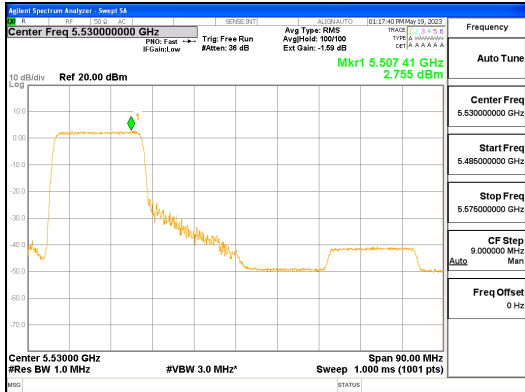
Report No.:  
 CTK-2023-01326  
 Page (339) / (539) Pages



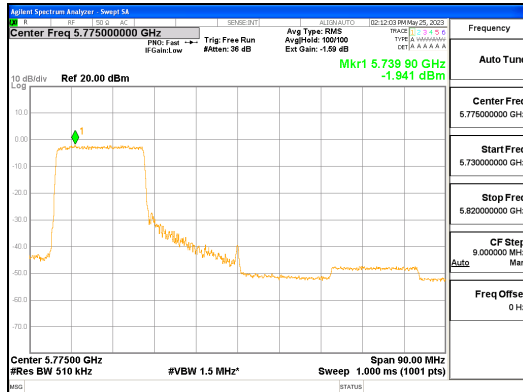
ANT R\_802.11ax\_HE80\_242T\_Low\_UNII 1



ANT R\_802.11ax\_HE80\_242T\_Low\_UNII 2A



ANT R\_802.11ax\_HE80\_242T\_Low\_UNII 2C

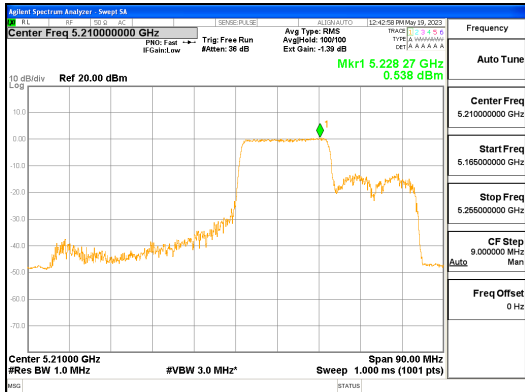


ANT R\_802.11ax\_HE80\_242T\_Low\_UNII 3

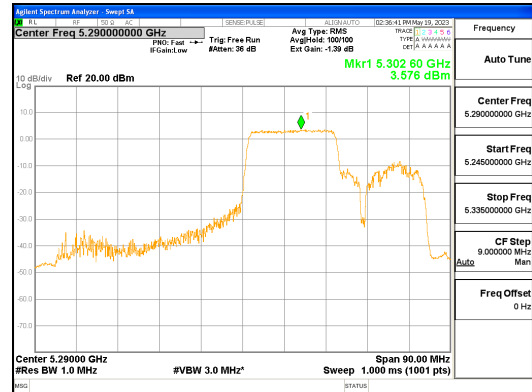


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

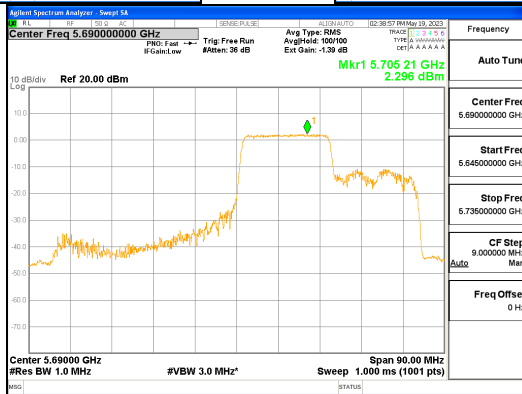
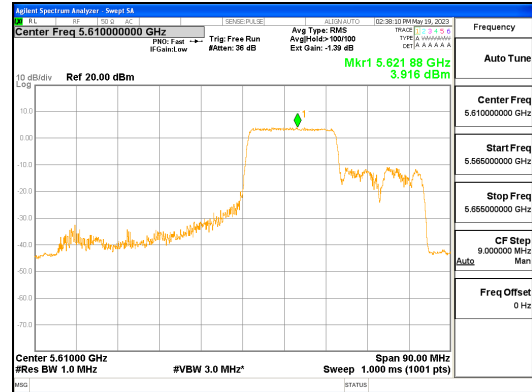
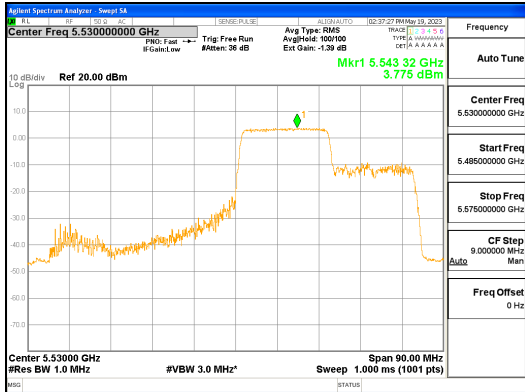
Report No.:  
 CTK-2023-01326  
 Page (340) / (539) Pages



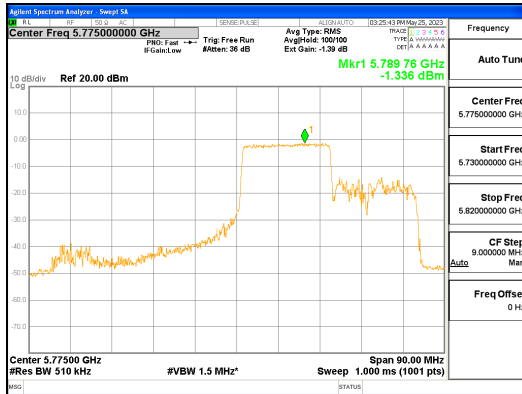
ANT L\_802.11ax\_HE80\_242T\_Mid\_UNII 1



ANT L\_802.11ax\_HE80\_242T\_Mid\_UNII 2A



ANT L\_802.11ax\_HE80\_242T\_Mid\_UNII 2C

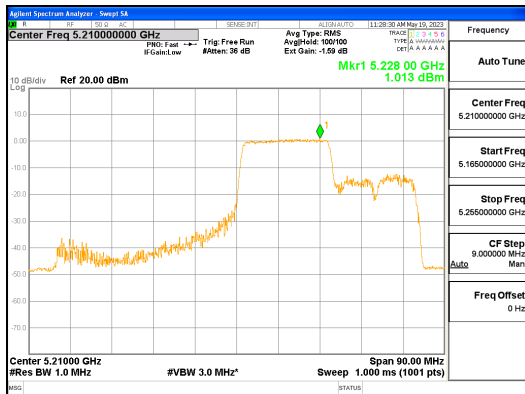


ANT L\_802.11ax\_HE80\_242T\_Mid\_UNII 3

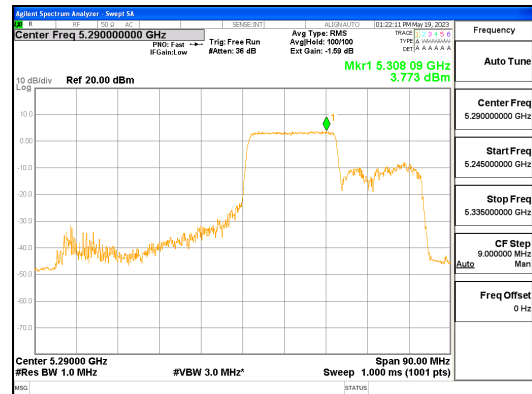


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

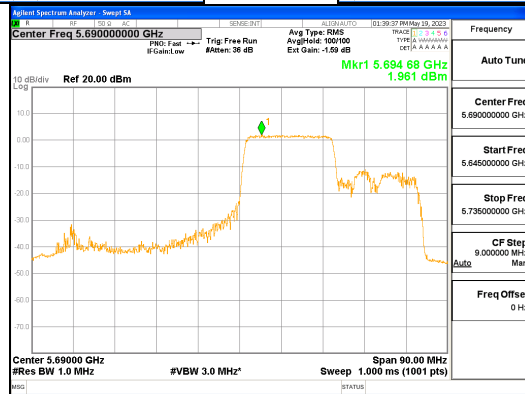
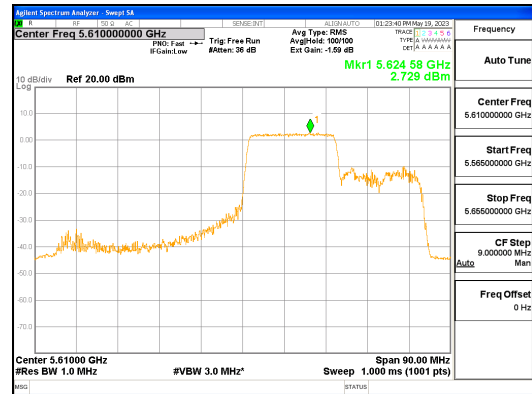
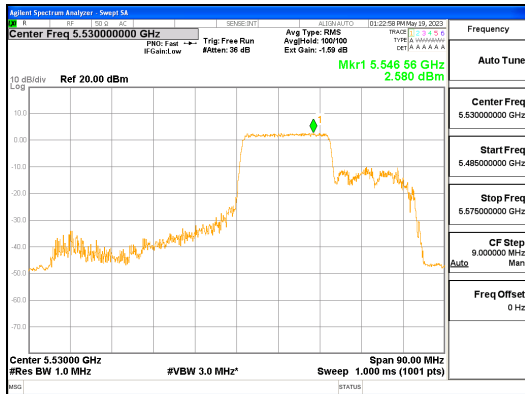
Report No.:  
 CTK-2023-01326  
 Page (341) / (539) Pages



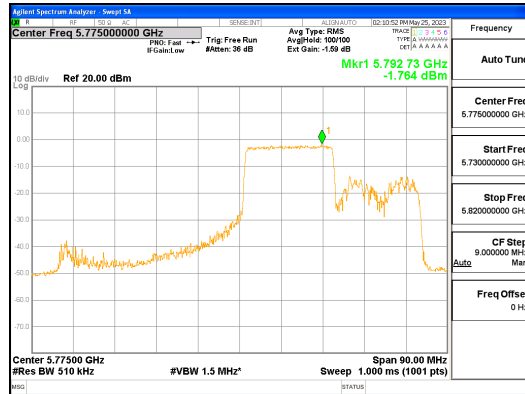
**ANT R\_802.11ax\_HE80\_242T\_Mid\_UNII 1**



**ANT R\_802.11ax\_HE80\_242T\_Mid\_UNII 2A**



**ANT R\_802.11ax\_HE80\_242T\_Mid\_UNII 2C**

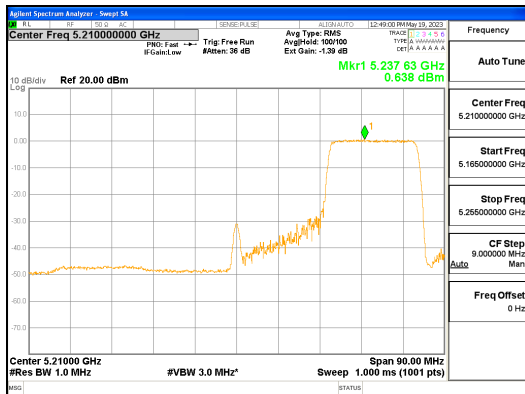


**ANT R\_802.11ax\_HE80\_242T\_Mid\_UNII 3**

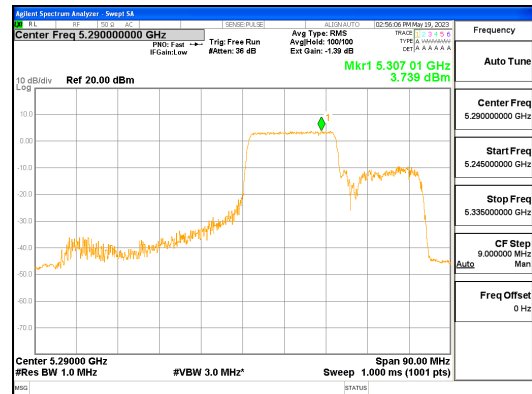


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

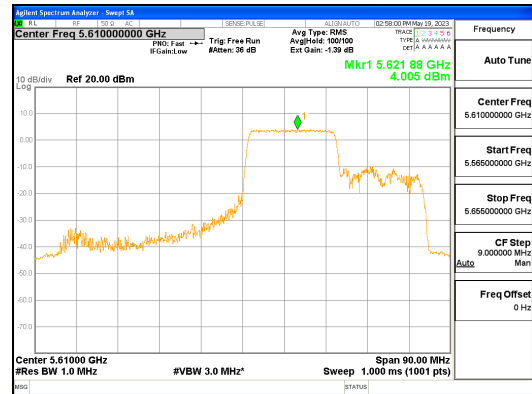
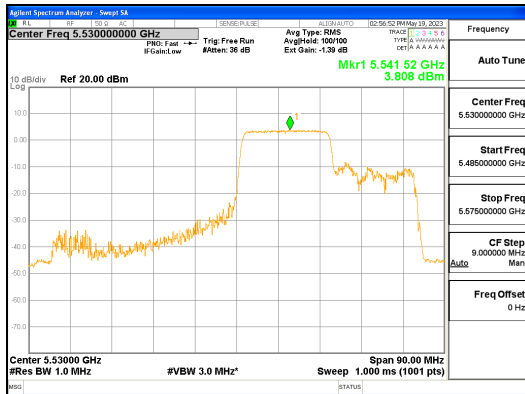
Report No.:  
 CTK-2023-01326  
 Page (342) / (539) Pages



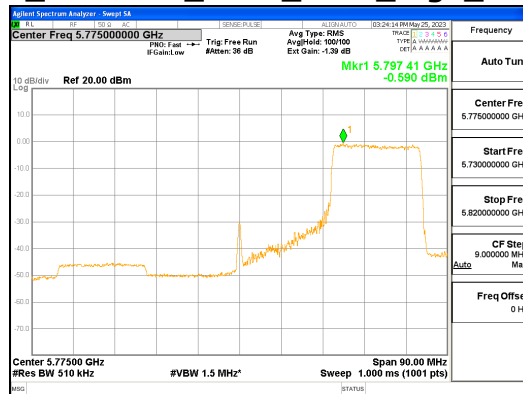
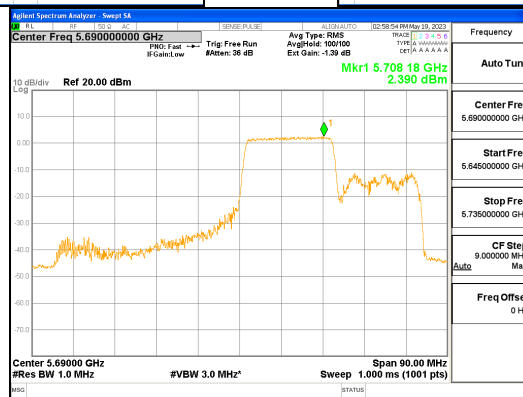
**ANT L\_802.11ax\_HE80\_242T\_High\_UNII 1**



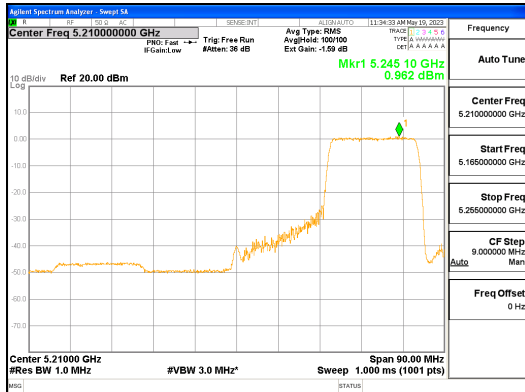
**ANT L\_802.11ax\_HE80\_242T\_High\_UNII 2A**



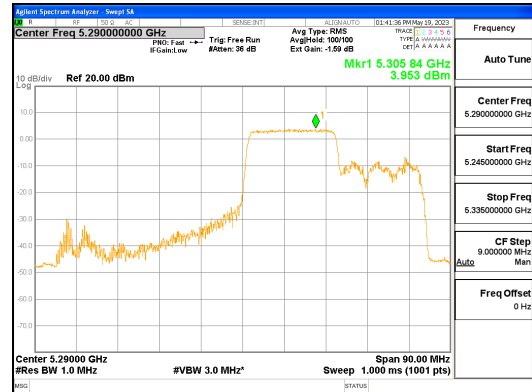
**ANT L\_802.11ax\_HE80\_242T\_High\_UNII 2C**



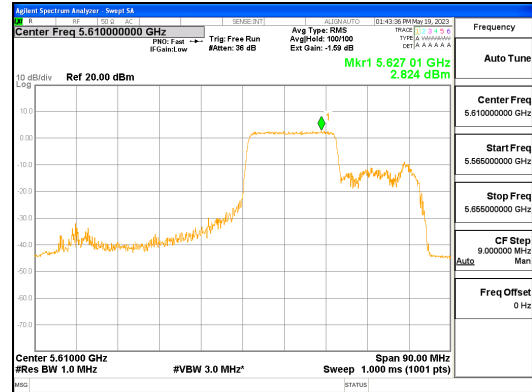
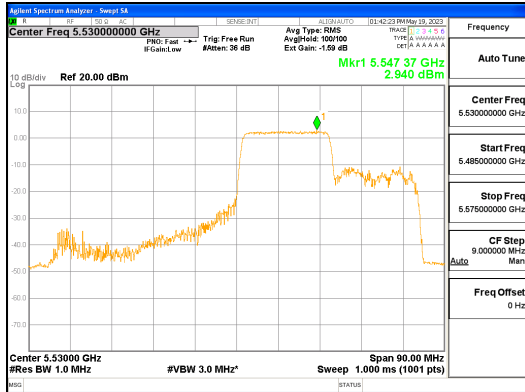
**ANT L\_802.11ax\_HE80\_242T\_High\_UNII 3**



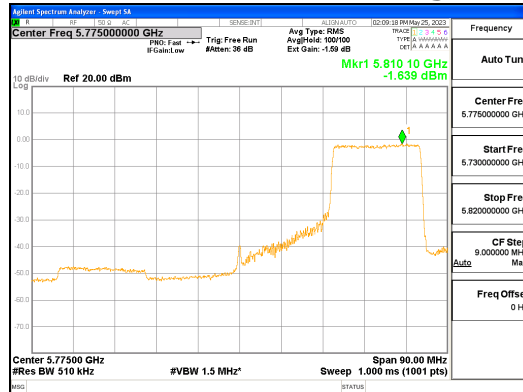
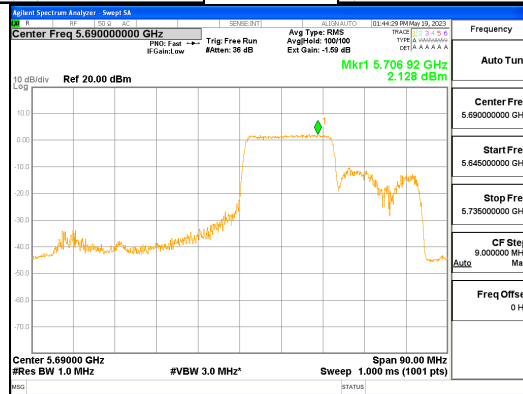
ANT R\_802.11ax\_HE80\_242T\_High\_UNII  
1



ANT R\_802.11ax\_HE80\_242T\_High\_UNII  
2A



ANT R\_802.11ax\_HE80\_242T\_High\_UNII 2C



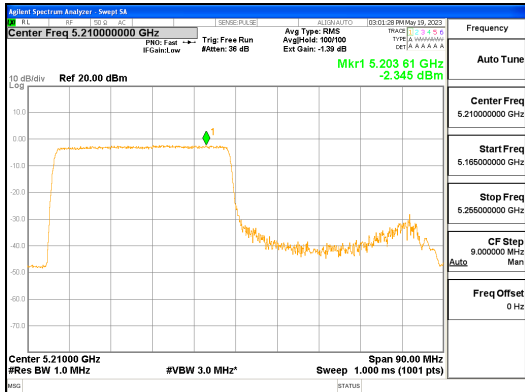
ANT R\_802.11ax\_HE80\_242T\_High\_UNII 3



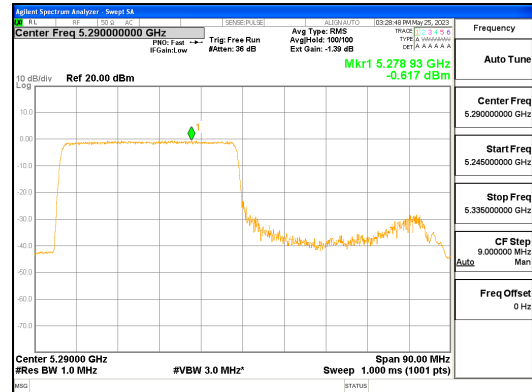


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

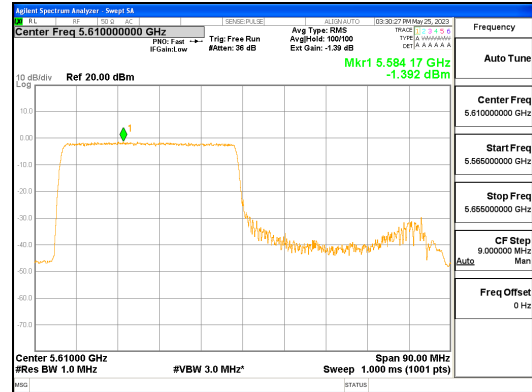
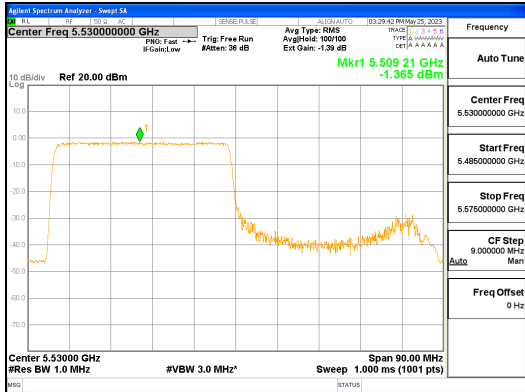
Report No.:  
 CTK-2023-01326  
 Page (344) / (539) Pages



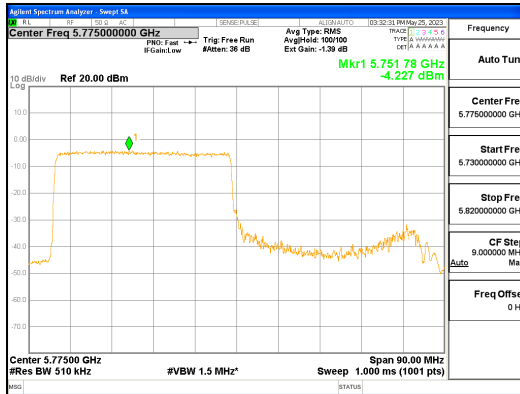
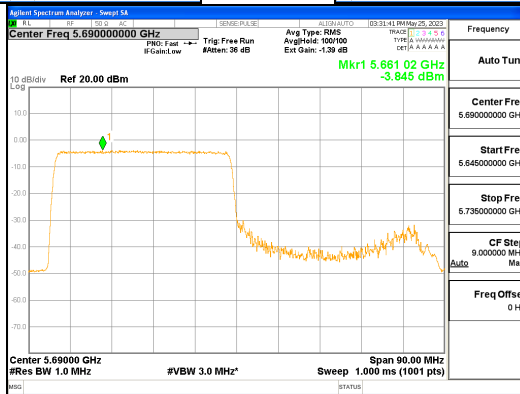
ANT L\_802.11ax\_HE80\_484T\_Low\_UNII  
 1



ANT L\_802.11ax\_HE80\_484T\_Low\_UNII  
 2A



ANT L\_802.11ax\_HE80\_484T\_Low\_UNII 2C

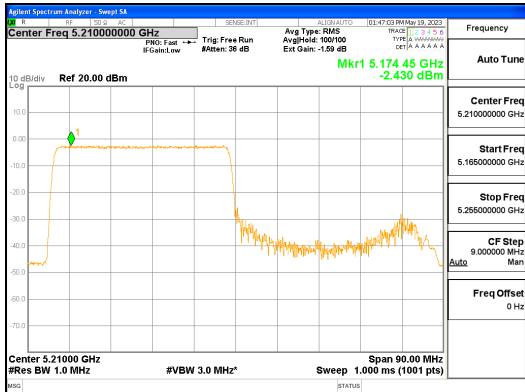


ANT L\_802.11ax\_HE80\_484T\_Low\_UNII 3

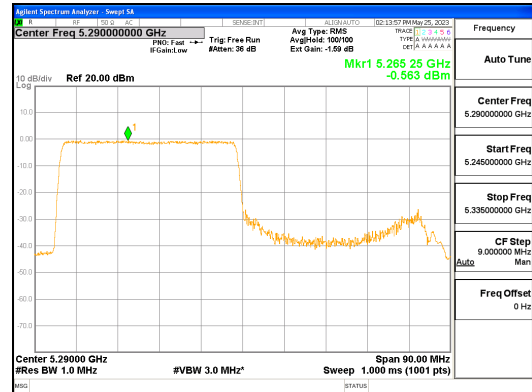


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

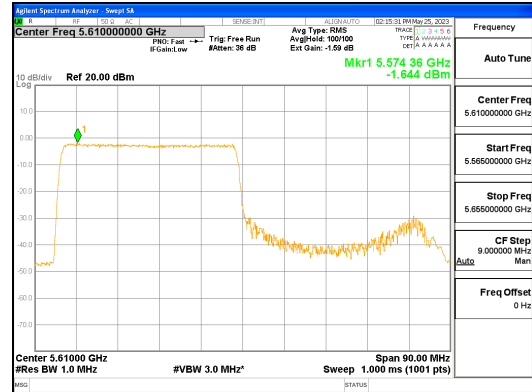
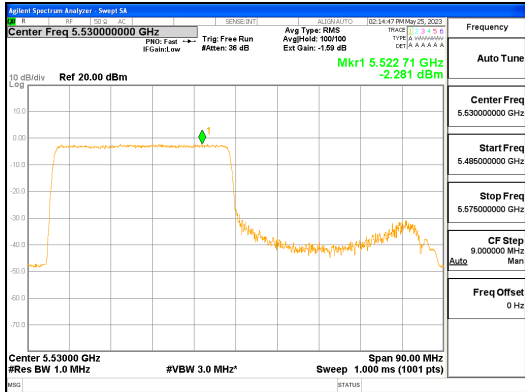
Report No.:  
 CTK-2023-01326  
 Page (345) / (539) Pages



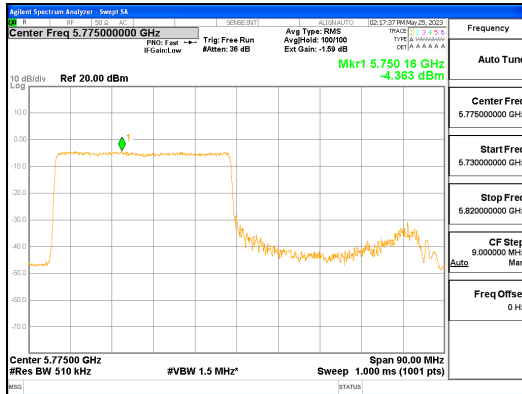
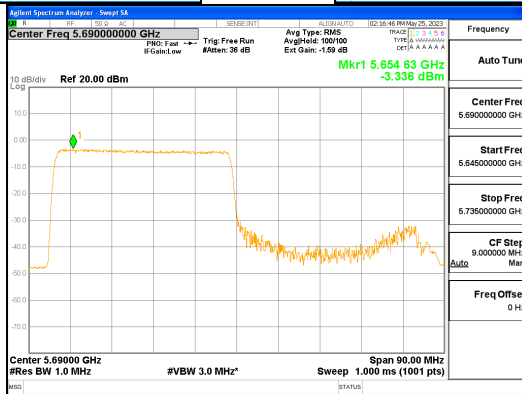
ANT R\_802.11ax\_HE80\_484T\_Low\_UNII  
 1



ANT R\_802.11ax\_HE80\_484T\_Low\_UNII  
 2A



ANT R\_802.11ax\_HE80\_484T\_Low\_UNII 2C

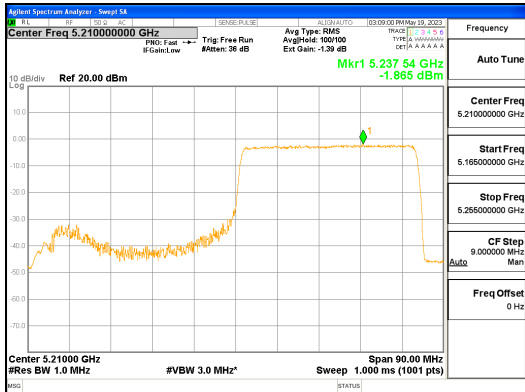


ANT R\_802.11ax\_HE80\_484T\_Low\_UNII 3

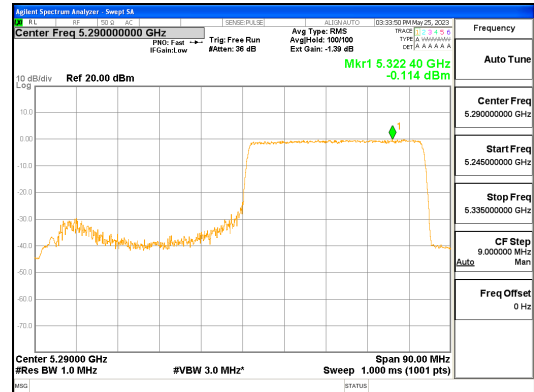


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

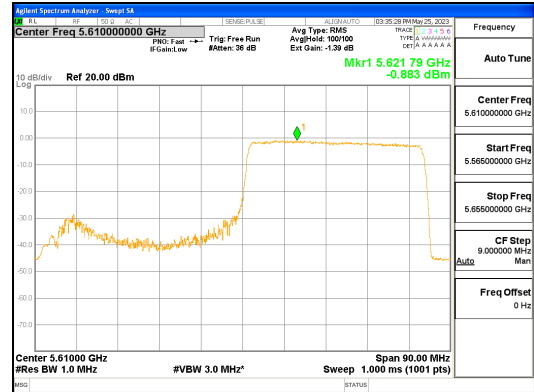
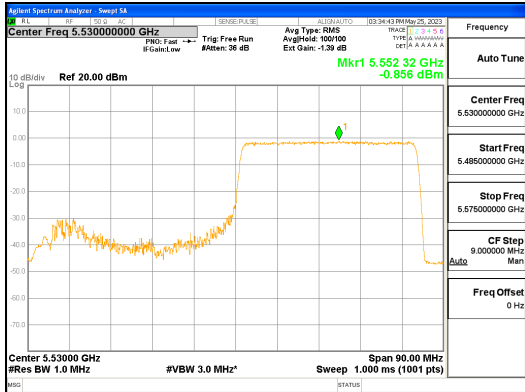
Report No.:  
 CTK-2023-01326  
 Page (346) / (539) Pages



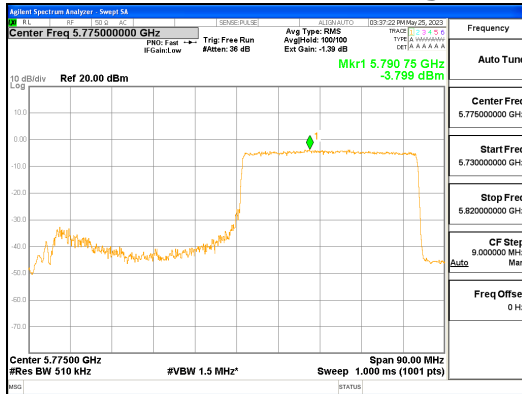
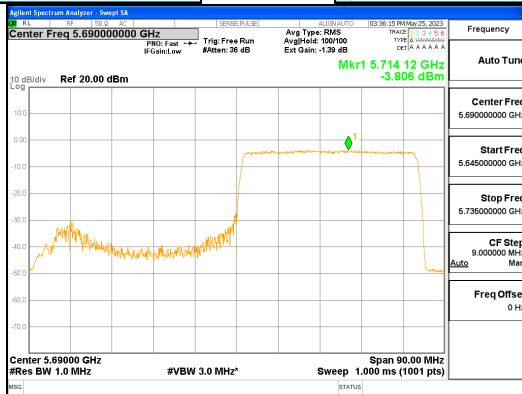
**ANT L\_802.11ax\_HE80\_484T\_High\_UNII 1**



**ANT L\_802.11ax\_HE80\_484T\_High\_UNII 2A**



**ANT L\_802.11ax\_HE80\_484T\_High\_UNII 2C**

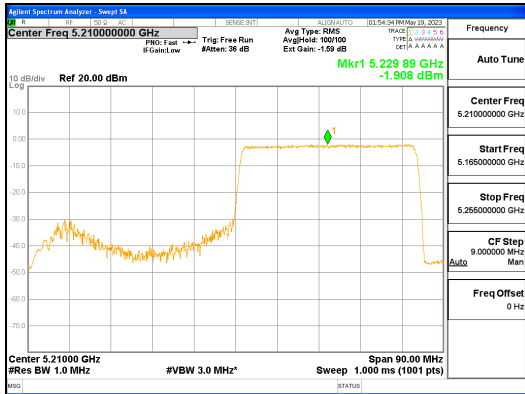


**ANT L\_802.11ax\_HE80\_484T\_High\_UNII 3**

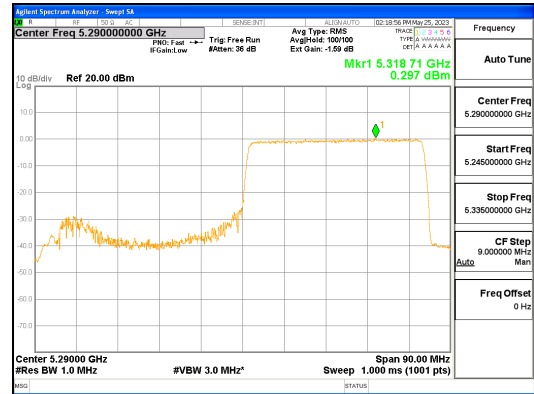


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

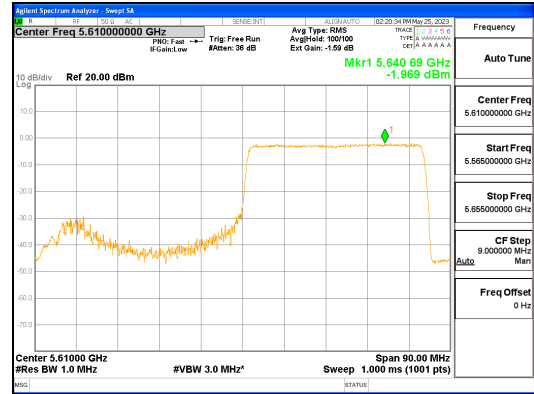
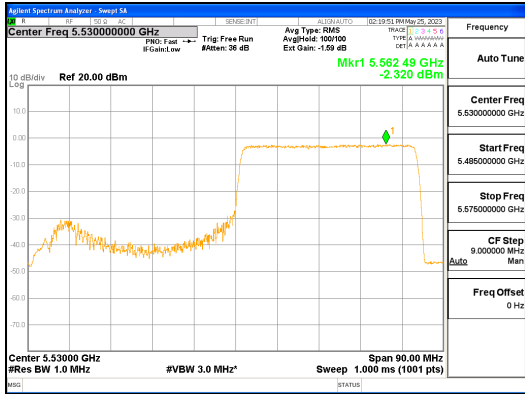
Report No.:  
 CTK-2023-01326  
 Page (347) / (539) Pages



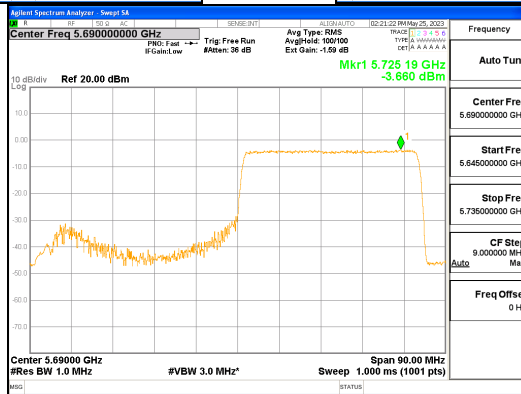
**ANT R\_802.11ax\_HE80\_484T\_High\_UNII 1**



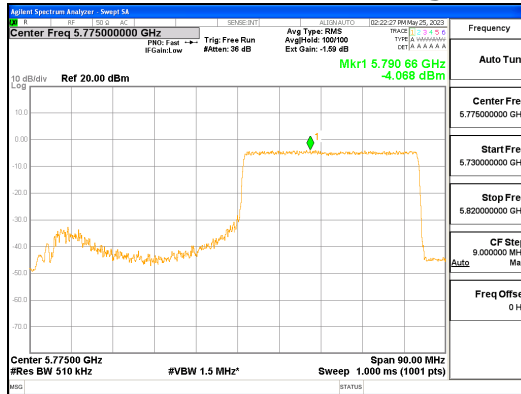
**ANT R\_802.11ax\_HE80\_484T\_High\_UNII 2A**



**ANT R\_802.11ax\_HE80\_484T\_High\_UNII 2C**



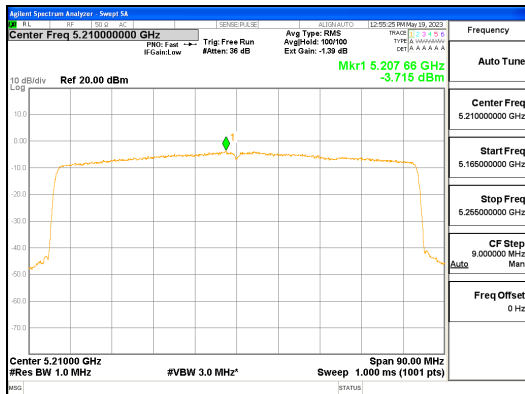
**ANT R\_802.11ax\_HE80\_484T\_High\_UNII 3**



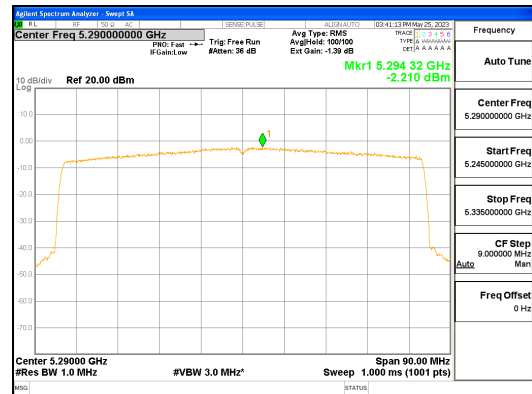


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

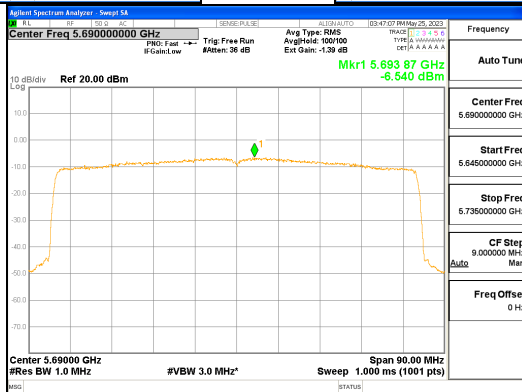
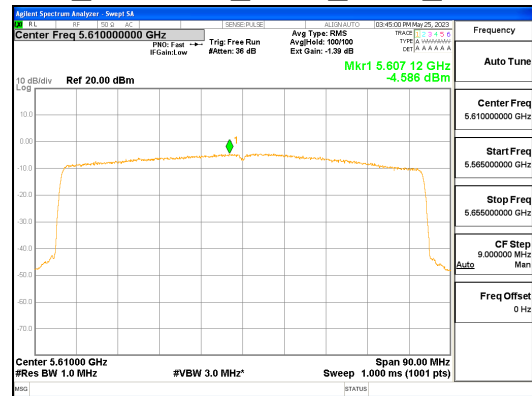
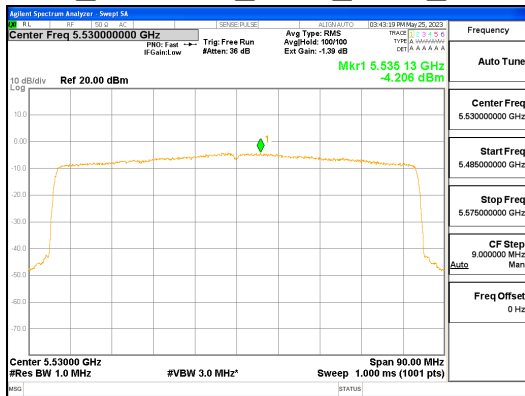
Report No.:  
 CTK-2023-01326  
 Page (348) / (539) Pages



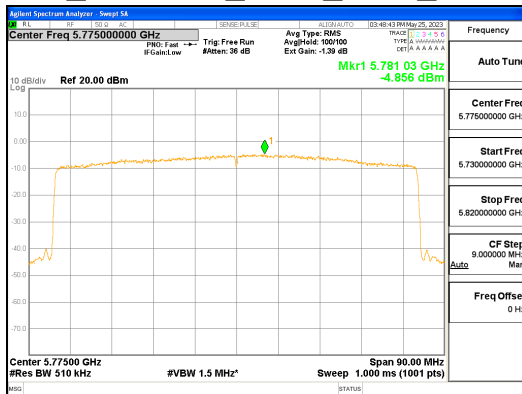
**ANT L\_802.11ax\_HE80\_996T\_UNII 1**



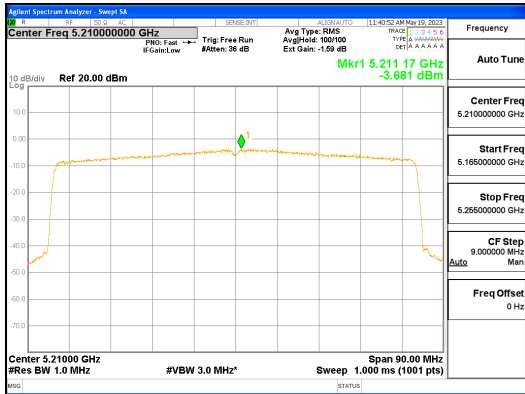
**ANT L\_802.11ax\_HE80\_996T\_UNII 2A**



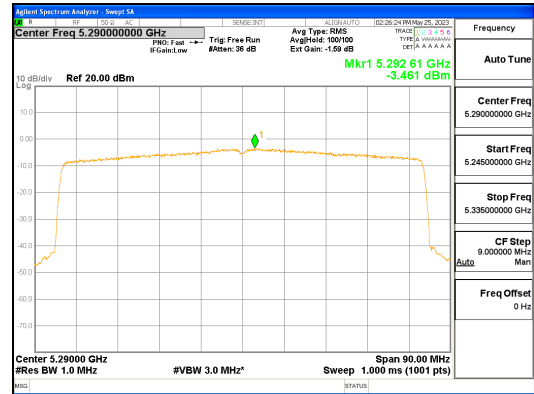
**ANT L\_802.11ax\_HE80\_996T\_UNII 2C**



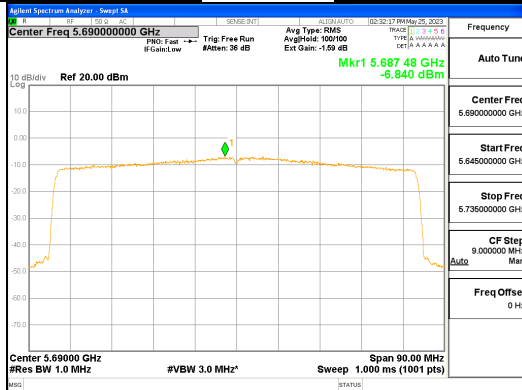
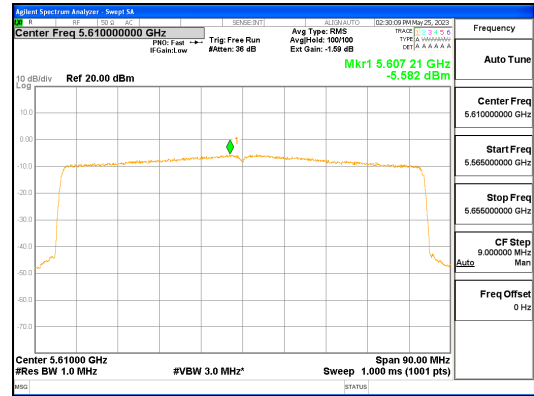
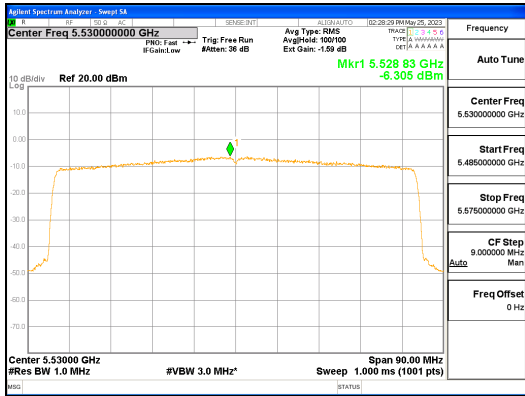
**ANT L\_802.11ax\_HE80\_996T\_UNII 3**



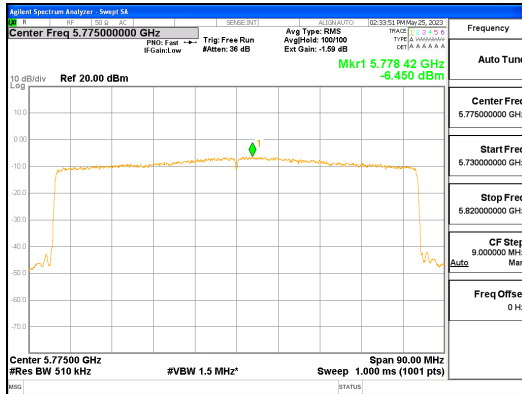
**ANT R\_802.11ax\_HE80\_996T\_UNII 1**



**ANT R\_802.11ax\_HE80\_996T\_UNII 2A**



**ANT R\_802.11ax\_HE80\_996T\_UNII 2C**



**ANT R\_802.11ax\_HE80\_996T\_UNII 3**

## 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 °C and +50 °C (Declaration by the Manufacturer). The temperature was incremented by 10 °C 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 (°C)	Test Frequency (MHz)				
		5 180	5 200	5 240	5 260	5 300
5.0	-20	11.767	12.572	13.017	13.224	13.337
5.0	-10	16.911	17.080	17.196	17.270	17.375
5.0	0	11.924	10.920	10.825	10.887	10.841
5.0	10	-1.051	-1.475	-1.542	-1.464	-1.580
5.0	20(Ref)	-15.695	-16.376	-16.513	-16.437	-16.670
5.0	30	-32.060	-31.861	-32.174	-32.153	-32.564
5.0	40	-42.954	-43.492	-43.908	-44.028	-44.371
5.0	50	-46.911	-46.963	-47.346	-47.385	-47.815
4.25	20(Ref)	-43.353	-41.327	-43.242	-44.062	-45.016
5.75	20(Ref)	-37.697	-39.030	-40.343	-41.319	-42.575



Measured Frequency Error (kHz)						
Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)				
		5 320	5 500	5 600	5 700	5 720
5.0	-20	13.656	13.844	13.497	13.548	13.702
5.0	-10	17.464	17.957	18.543	18.941	19.106
5.0	0	10.992	11.290	12.392	12.830	13.094
5.0	10	-1.351	-1.478	-0.627	-0.308	-0.169
5.0	20(Ref)	-16.648	-17.417	-16.566	-16.308	-16.317
5.0	30	-32.577	-33.673	-33.189	-33.481	-33.546
5.0	40	-44.442	-46.037	-46.052	-46.506	-46.655
5.0	50	-47.899	-49.582	-50.411	-51.301	-51.388
4.25	20(Ref)	-45.483	-47.379	-47.649	-48.025	-48.015
5.75	20(Ref)	-43.354	-45.746	-46.457	-46.843	-46.925

Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)		
		5 745	5 785	5 825
5.0	-20	13.631	13.745	14.028
5.0	-10	19.121	19.278	19.324
5.0	0	13.193	13.218	13.287
5.0	10	0.129	0.114	0.093
5.0	20(Ref)	-18.815	-18.100	-19.206
5.0	30	-33.581	-33.871	-34.104
5.0	40	-46.746	-47.109	-47.407
5.0	50	-51.647	-51.999	-52.351
4.25	20(Ref)	-48.163	-48.700	-49.123
5.75	20(Ref)	-46.959	-47.351	-47.729

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  $\geq$  RBW  
c) Detector = CISPR Quasi-peak  
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

- 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  $\geq 98\%$ )

Frequency Range = 1 GHz ~ 40 GHz

- 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%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 × 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	0.13
802.11n_HT20	0.13
802.11n_HT40	0.28
802.11ac_VHT20	0.26
802.11ac_VHT40	0.50
802.11ac_VHT80	0.89
802.11ax_HE20_26T	0.21
802.11ax_HE20_52T	0.21
802.11ax_HE20_106T	0.23
802.11ax_HE20_242T	0.26
802.11ax_HE40_26T	0.21
802.11ax_HE40_52T	0.22
802.11ax_HE40_106T	0.24
802.11ax_HE40_242T	0.27
802.11ax HE40 484T	0.28
802.11ax HE80 26T	0.21
802.11ax HE80 52T	0.22
802.11ax HE80 106T	0.23
802.11ax HE80 242T	0.27
802.11ax HE80 484T	0.27
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.

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

4. 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.



5. 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
<sup>1</sup> 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	<sup>2</sup> Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

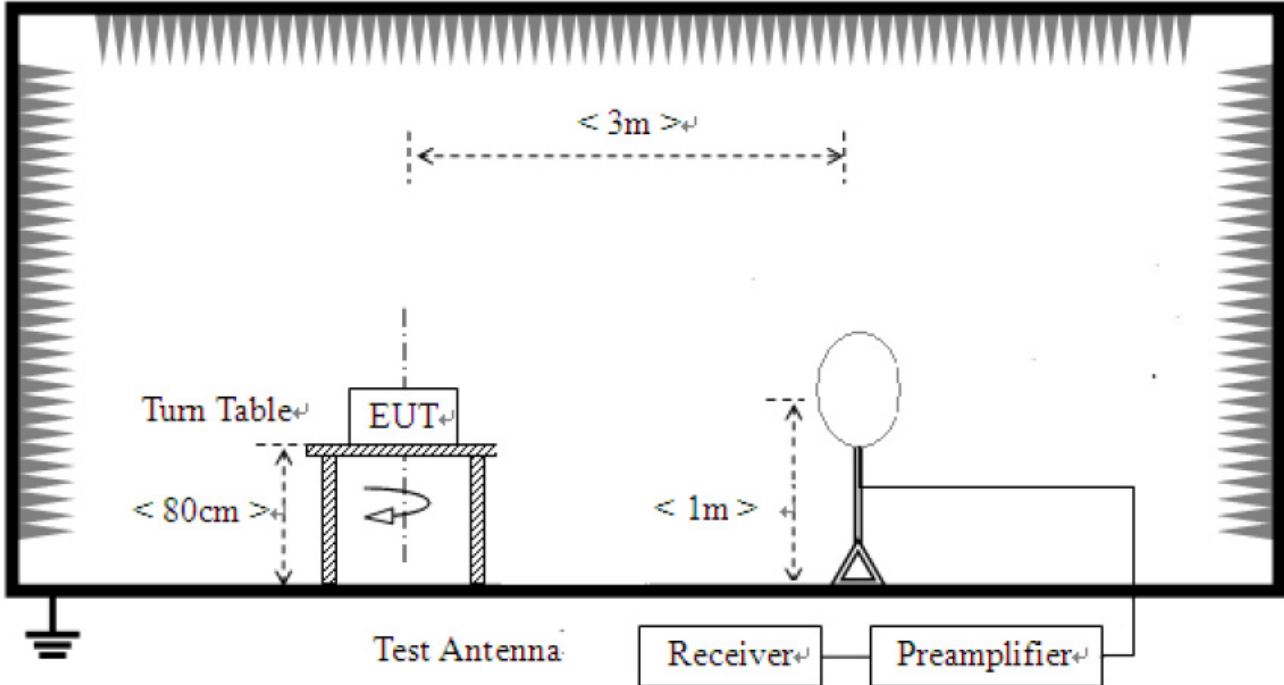
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using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

Note :

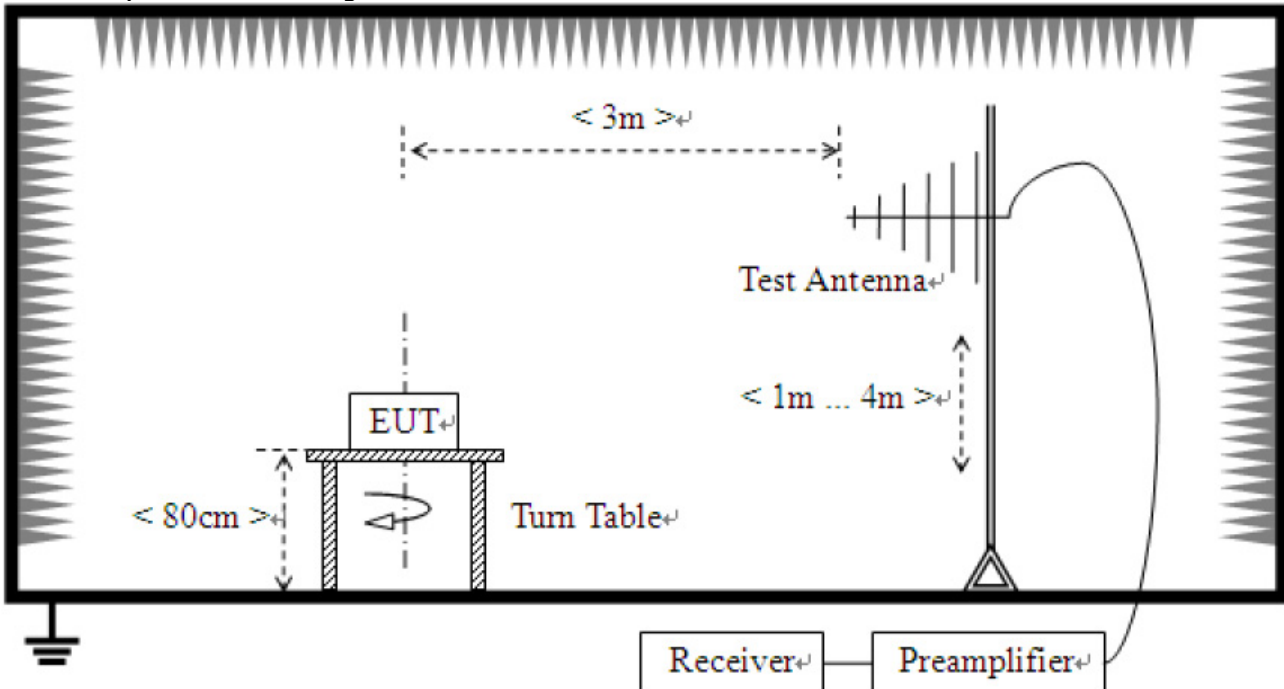
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength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

**Test Setup:**

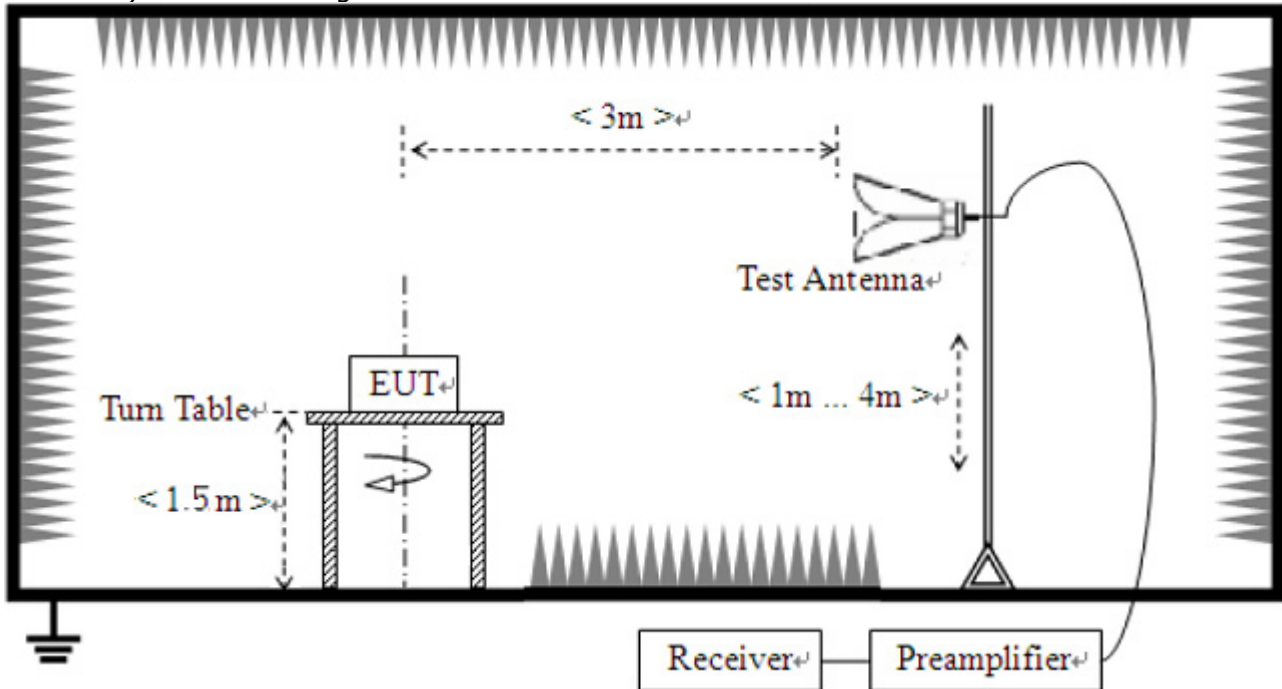
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 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 : ANT L, ANT R
- 802.11n mode : ANT L + ANT R (MIMO)
- 802.11ac mode : ANT L + ANT R (MIMO)
- 802.11ax mode : ANT L + ANT R (MIMO)

So the results are only attached worst cases.



**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

Report No.:  
 CTK-2023-01326  
 Page (358) / (539) Pages

**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



**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

Report No.:  
 CTK-2023-01326  
 Page (359) / (539) Pages

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





**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

Report No.:  
 CTK-2023-01326  
 Page (360) / (539) Pages

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

## Test Results

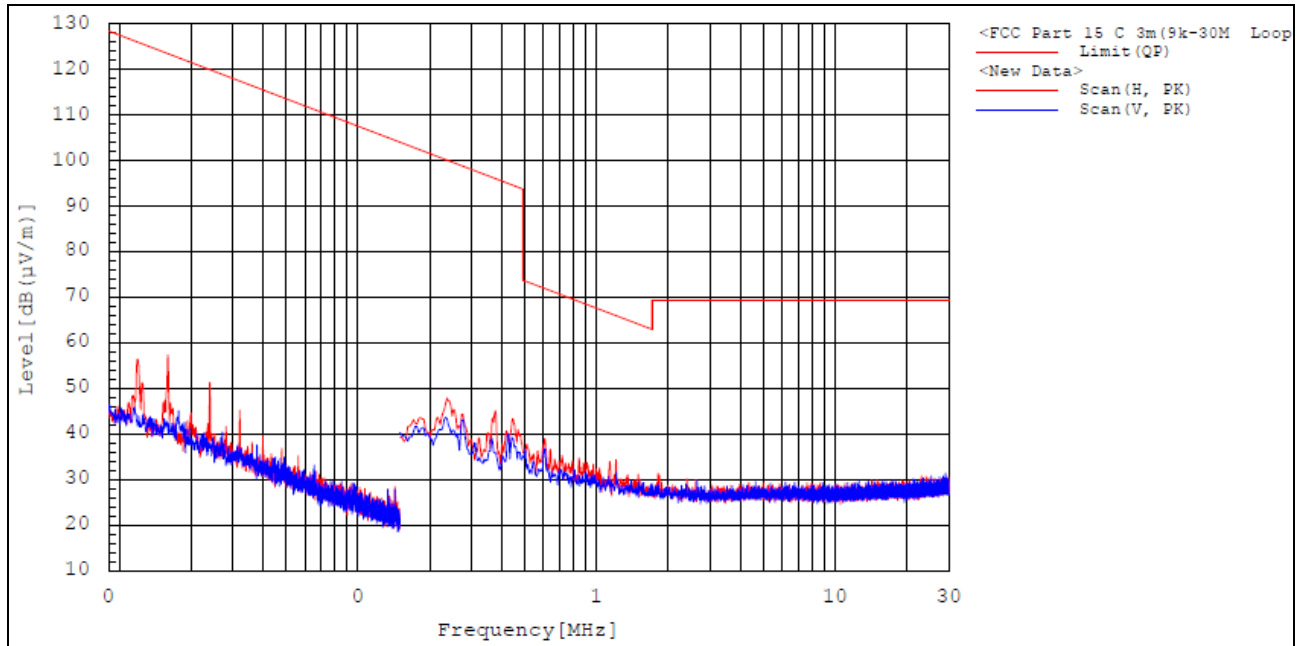
### 1) 9 kHz to 30 MHz

#### 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 :

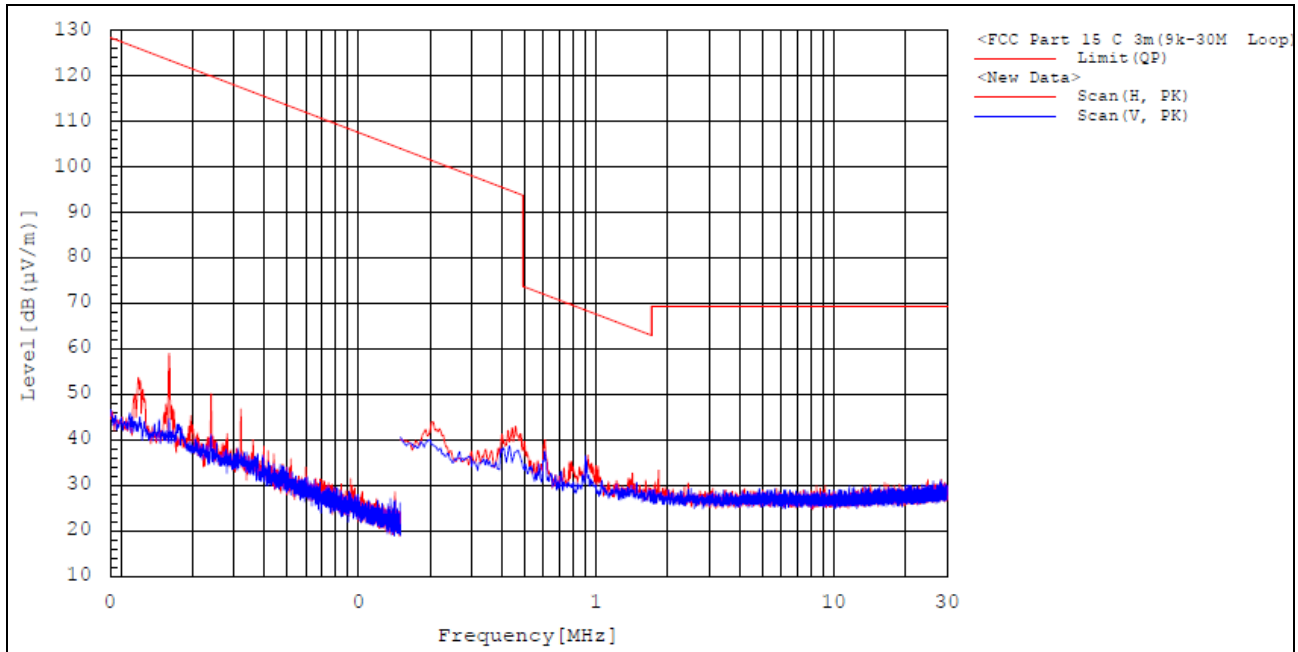
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Y axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor +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

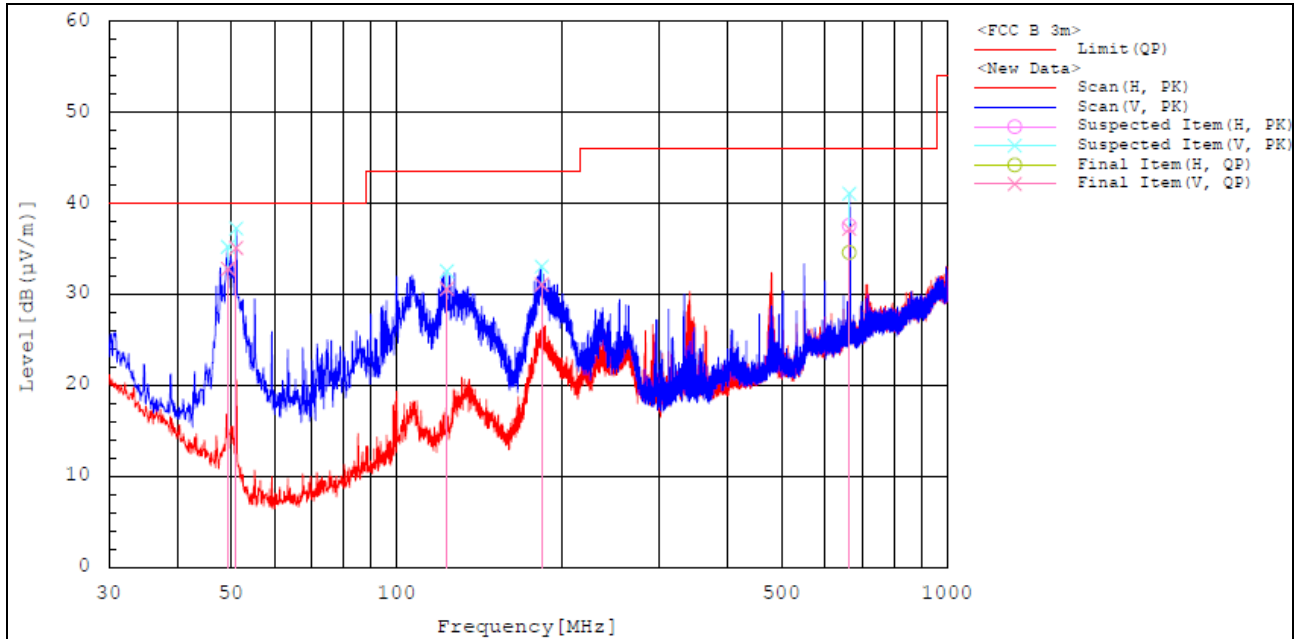
## 2) 30 MHz to 1 GHz

### 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	49.400	V	49.5	-16.7	32.8	40.0	7.2	100.0	354.2
2	51.146	V	52.7	-17.6	35.1	40.0	4.9	100.0	259.8
3	123.411	V	43.5	-12.9	30.6	43.5	12.9	100.0	259.8
4	183.454	V	46.4	-15.3	31.1	43.5	12.4	100.0	0.1
5	663.701	H	35.3	-0.7	34.6	46.0	11.4	199.9	287.1
6	664.089	V	37.9	-0.7	37.2	46.0	8.8	100.0	249.0

#### Remark :

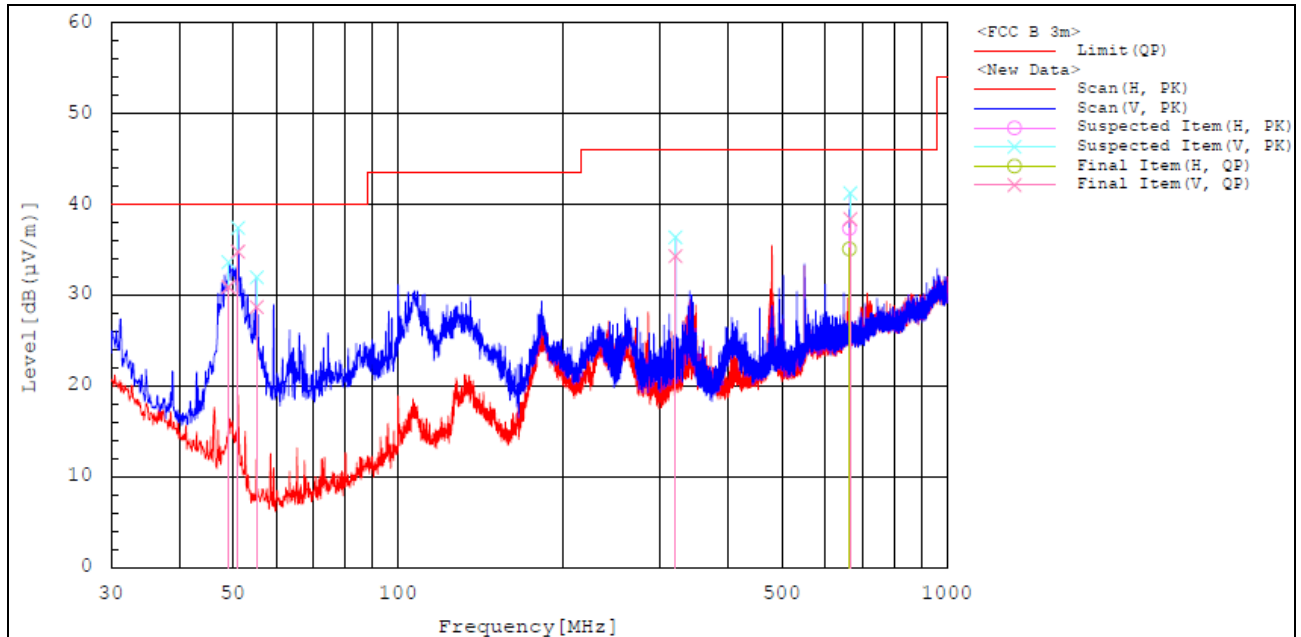
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Y axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + 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	49.109	V	47.5	-16.6	30.9	40.0	9.1	99.9	359.1
2	51.146	V	52.4	-17.6	34.8	40.0	5.2	99.9	346.6
3	55.317	V	47.9	-19.2	28.7	40.0	11.3	99.9	250.3
4	320.030	V	44.0	-9.7	34.3	46.0	11.7	99.9	56.5
5	663.798	H	35.8	-0.7	35.1	46.0	10.9	100.1	266.3
6	666.514	V	39.1	-0.7	38.4	46.0	7.6	99.9	141.1

**Remark :**

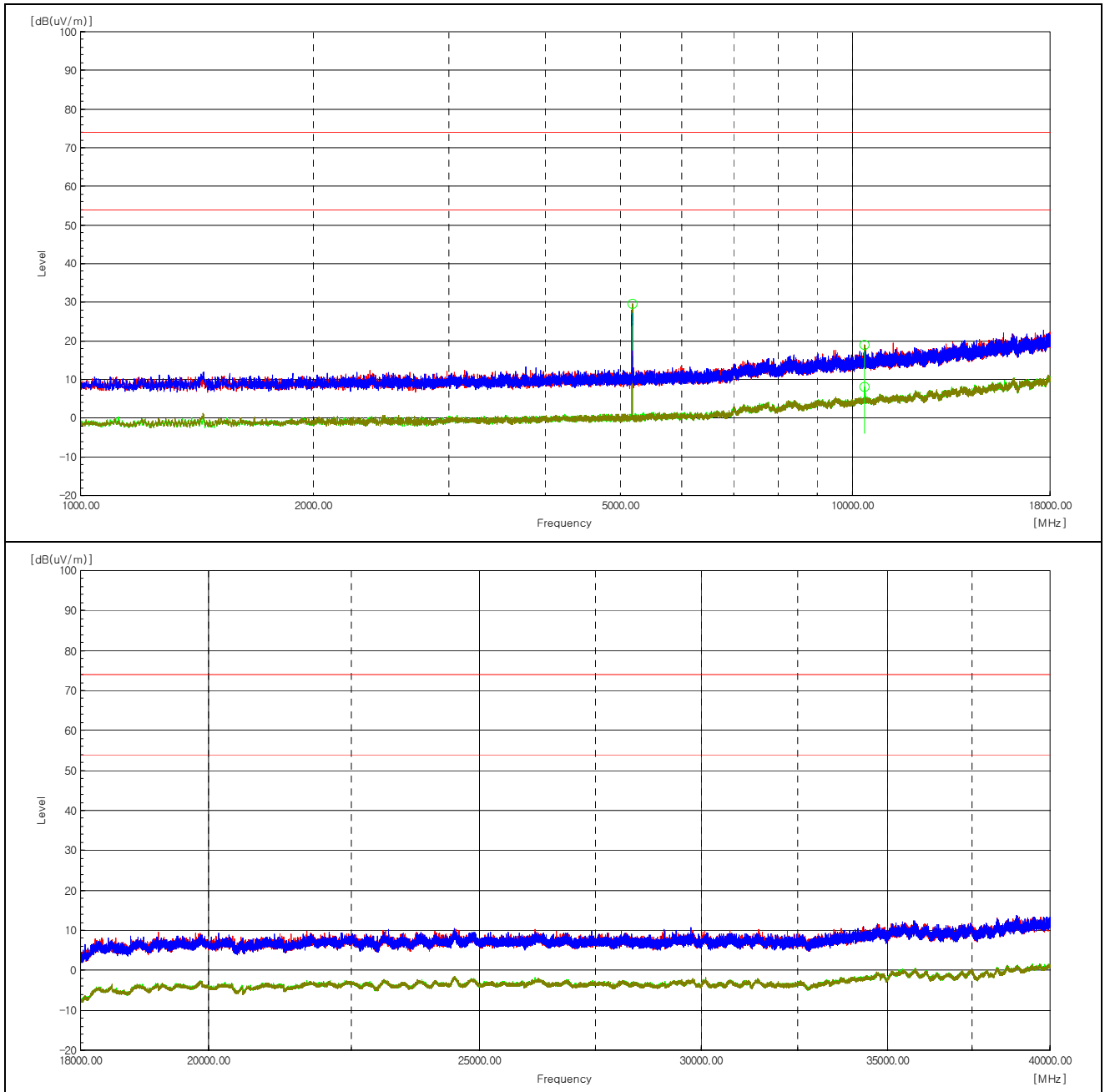
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(Y axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor +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

### 3) above 1 GHz

The requirements are:

Complies

#### Test Data





**Test mode : Transmitter, 802.11a-ANT L**

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
10 356.34	H	49.4	11.3	-----	60.7	-----	68.2	-----	7.5	-----	Peak
10 352.00	V	46.4	11.3	-----	57.7	-----	68.2	-----	10.5	-----	Peak

**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
10 400.53	H	47.5	11.3	-----	58.8	-----	68.2	-----	9.4	-----	Peak
10 407.57	V	46.1	11.4	-----	57.5	-----	68.2	-----	10.7	-----	Peak

**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
10 480.09	H	46.3	11.6	-----	57.9	-----	68.2	-----	10.3	-----	Peak
10 476.85	V	45.0	11.6	-----	56.6	-----	68.2	-----	11.6	-----	Peak

**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
10 516.26	H	47.4	11.6	-----	59.0	-----	68.2	-----	9.2	-----	Peak
10 522.26	V	46.1	11.6	-----	57.7	-----	68.2	-----	10.5	-----	Peak
15 780.25	H	45.0	14.4	-----	59.4	-----	74.0	-----	14.6	-----	Peak
15 784.16	H	33.8	14.4	0.1	-----	48.3	-----	54.0	-----	5.7	Average
15 779.91	V	47.6	14.4	-----	62.0	-----	74.0	-----	12.0	-----	Peak
15 762.98	V	33.0	14.5	0.1	-----	47.6	-----	54.0	-----	6.4	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
10 593.20	H	46.4	11.8	-----	58.2	-----	68.2	-----	10.0	-----	Peak
10 599.99	V	44.4	11.8	-----	56.2	-----	68.2	-----	12.0	-----	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
10 638.79	H	47.9	11.8	-----	59.7	-----	74.0	-----	14.3	-----	Peak
10 641.12	H	33.2	11.8	0.1	-----	45.1	-----	54.0	-----	8.9	Average
10 650.66	V	43.2	11.8	-----	55.0	-----	74.0	-----	19.0	-----	Peak
10 639.40	V	32.5	11.8	0.1	-----	44.4	-----	54.0	-----	9.6	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
-----------------	-----	----------------	---------------	------------------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

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
11 198.92	H	45.2	12.7	-----	57.9	-----	74.0	-----	16.1	-----	Peak
11 200.14	H	32.5	12.8	0.1	-----	45.4	-----	54.0	-----	8.6	Average
11 196.65	V	43.2	12.7	-----	55.9	-----	74.0	-----	18.1	-----	Peak
11 197.88	V	31.5	12.7	0.1	-----	44.3	-----	54.0	-----	9.7	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
11 397.46	H	47.1	12.3	-----	59.4	-----	74.0	-----	14.6	-----	Peak
11 403.09	H	33.8	12.4	0.1	-----	46.3	-----	54.0	-----	7.7	Average
11 408.11	V	44.3	12.4	-----	56.7	-----	74.0	-----	17.3	-----	Peak
11 392.19	V	32.5	12.3	0.1	-----	44.9	-----	54.0	-----	9.1	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
11 432.65	H	46.0	12.6	-----	58.6	-----	74.0	-----	15.4	-----	Peak
11 440.73	H	32.9	12.7	0.1	-----	45.7	-----	54.0	-----	8.3	Average
11 440.73	V	40.0	12.7	-----	52.7	-----	74.0	-----	21.3	-----	Peak
11 440.11	V	31.8	12.7	0.1	-----	44.6	-----	54.0	-----	9.4	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
11 486.57	H	47.6	12.6	-----	60.2	-----	74.0	-----	13.8	-----	Peak
11 487.24	H	34.1	12.6	0.1	-----	46.8	-----	54.0	-----	7.2	Average
11 501.32	V	43.0	12.5	-----	55.5	-----	74.0	-----	18.5	-----	Peak
11 505.17	V	32.3	12.5	0.1	-----	44.9	-----	54.0	-----	9.1	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
11 571.15	H	47.7	12.9	-----	60.6	-----	74.0	-----	13.4	-----	Peak
11 567.78	H	34.6	12.9	0.1	-----	47.6	-----	54.0	-----	6.4	Average
11 567.78	V	40.3	12.9	-----	53.2	-----	74.0	-----	20.8	-----	Peak
11 567.78	V	31.6	12.9	0.1	-----	44.6	-----	54.0	-----	9.4	Average

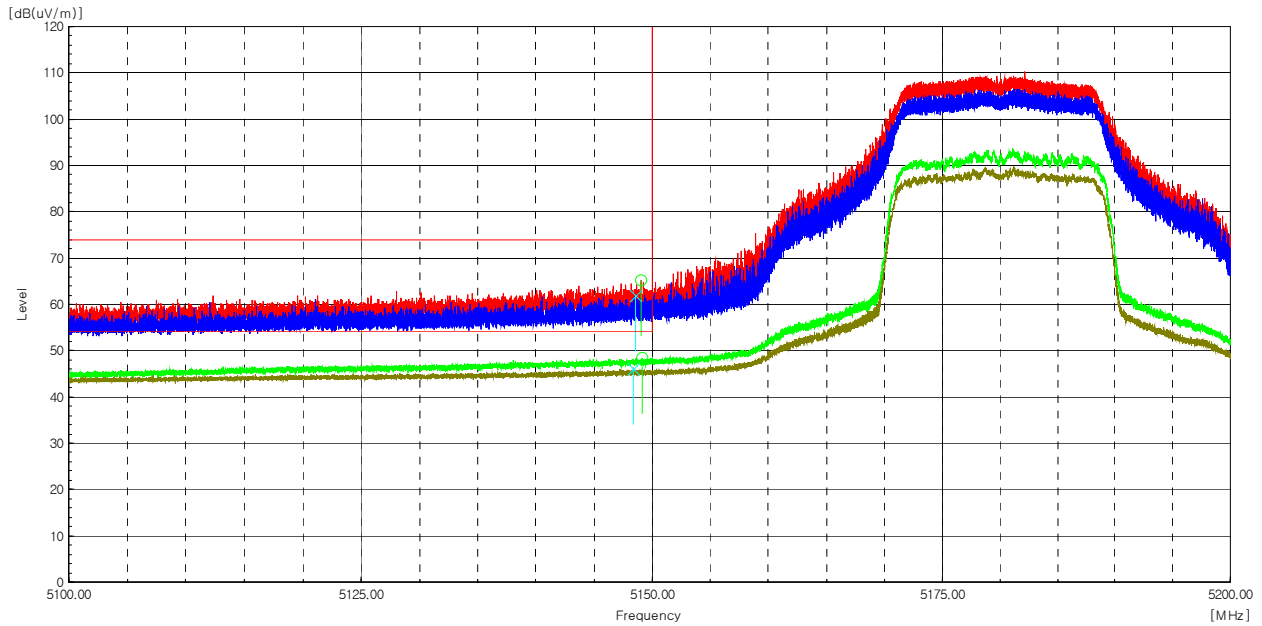
Ch.165(5 825 MHz)

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
11 645.88	H	47.2	12.7	-----	59.9	-----	74.0	-----	14.1	-----	Peak
11 648.69	H	33.7	12.7	0.1	-----	46.5	-----	54.0	-----	7.5	Average
11 658.55	V	44.4	12.6	-----	57.0	-----	74.0	-----	17.0	-----	Peak
11 651.57	V	32.2	12.6	0.1	-----	44.9	-----	54.0	-----	9.1	Average

**Remarks**

1. 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(Y 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

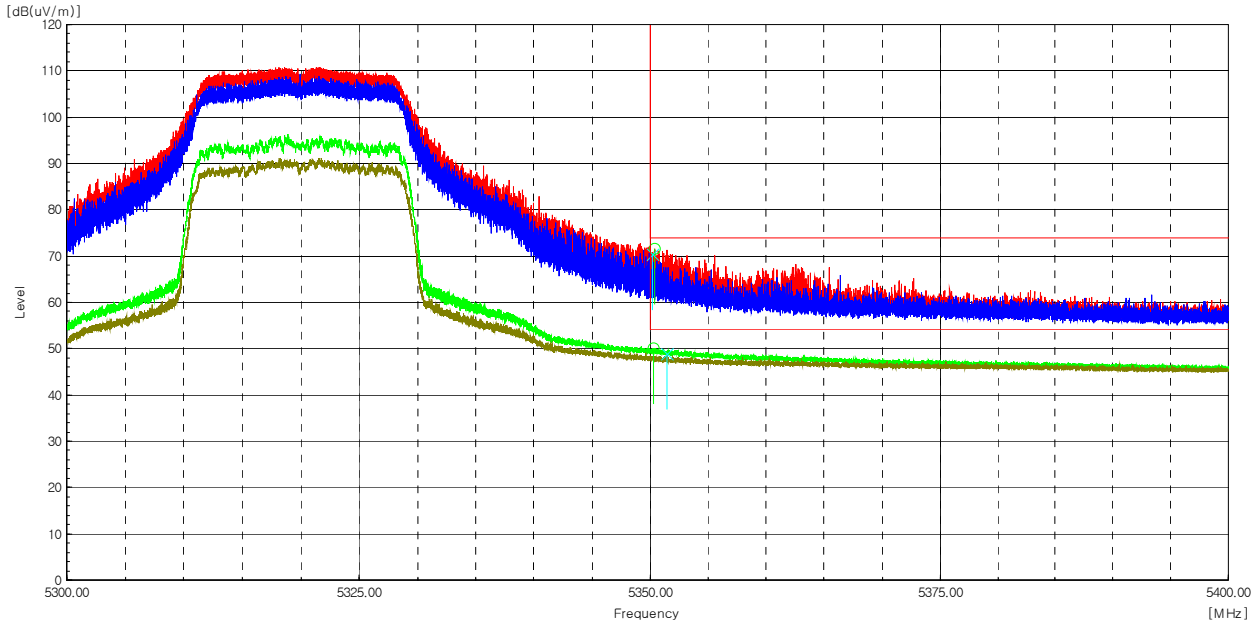
Worst Case Mode :	802.11a-ANT L
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



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
5 149.05	H	62.7	2.6	-----	65.3	-----	74.0	-----	8.7	-----	Peak
5 149.09	H	45.8	2.6	0.1	-----	48.5	-----	54.0	-----	5.5	Average
5 148.56	V	59.3	2.6	-----	61.9	-----	74.0	-----	12.1	-----	Peak
5 148.41	V	43.4	2.6	0.1	-----	46.1	-----	54.0	-----	7.9	Average

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a-ANT L
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
5 350.35	H	68.4	3.2	-----	71.6	-----	74.0	-----	2.4	-----	Peak
5 350.28	H	46.8	3.2	0.1	-----	50.1	-----	54.0	-----	3.9	Average
5 350.21	V	67.2	3.2	-----	70.4	-----	74.0	-----	3.6	-----	Peak
5 351.45	V	45.8	3.2	0.1	-----	49.1	-----	54.0	-----	4.9	Average

Radiated Restricted Band Edge Plot