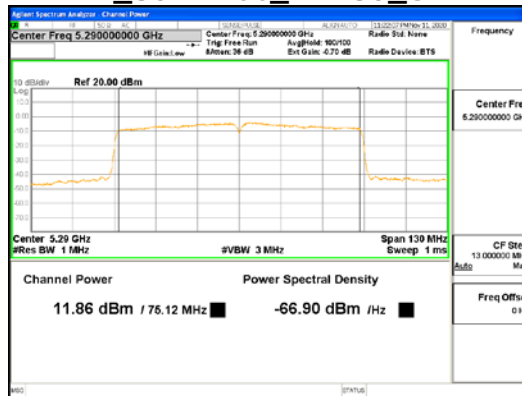
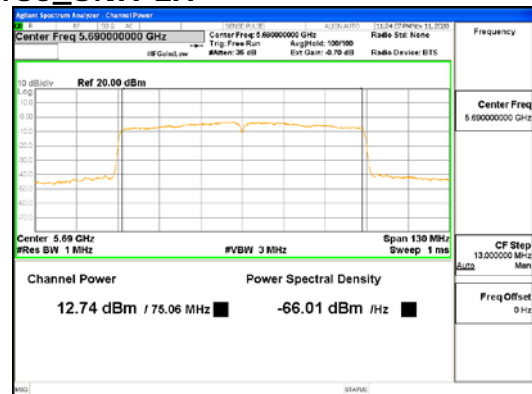
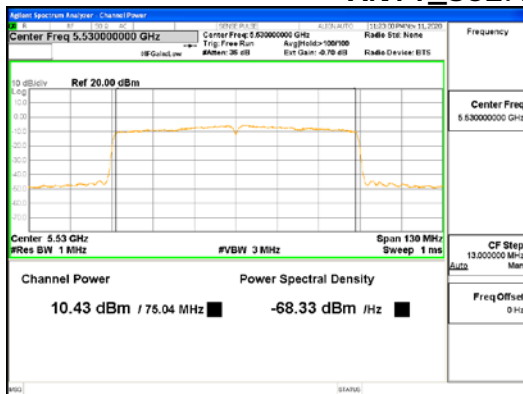


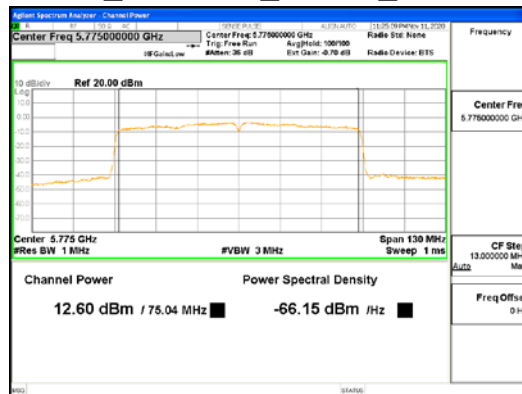
**ANT1\_802.11ac\_VHT80\_UNII 1**



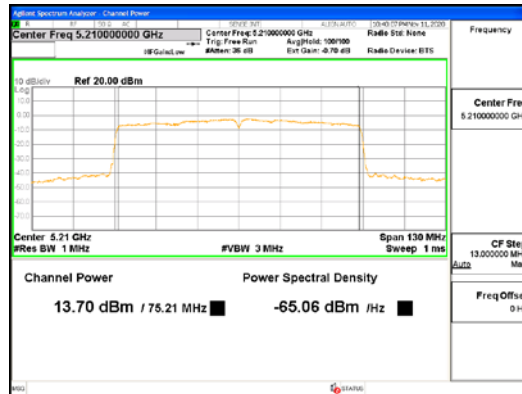
**ANT1\_802.11ac\_VHT80\_UNII 2A**



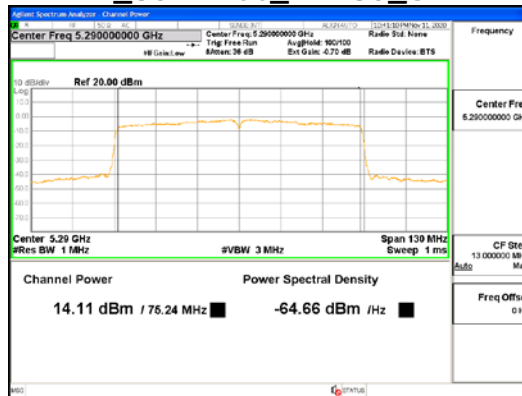
**ANT1\_802.11ac\_VHT80\_UNII 2C**



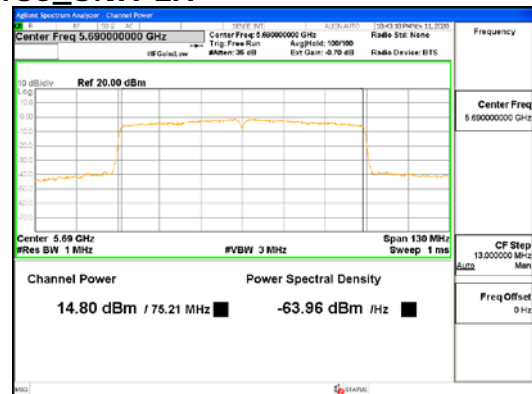
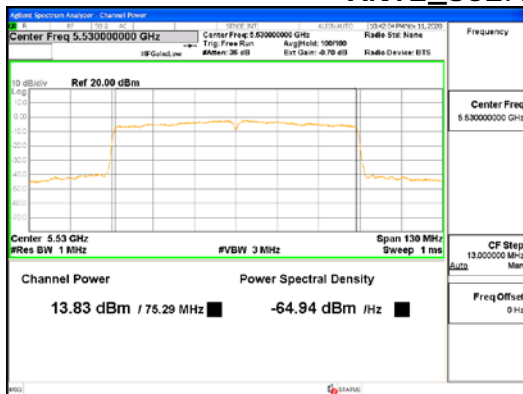
**ANT1\_802.11ac\_VHT80\_UNII 3**



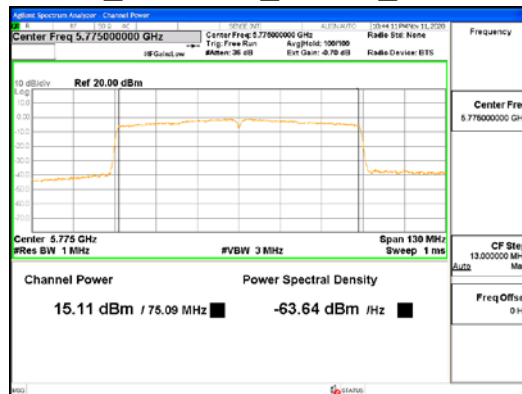
**ANT2\_802.11ac\_VHT80\_UNII 1**



**ANT2\_802.11ac\_VHT80\_UNII 2A**



**ANT2\_802.11ac\_VHT80\_UNII 2C**

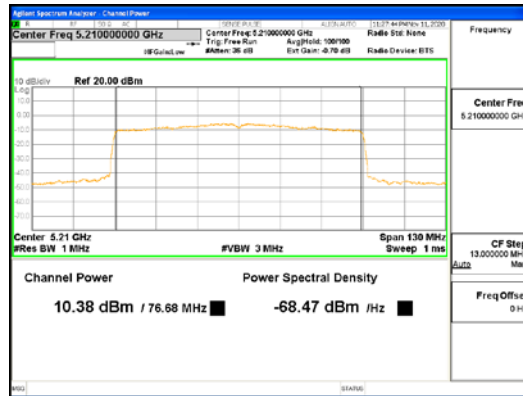


**ANT2\_802.11ac\_VHT80\_UNII 3**

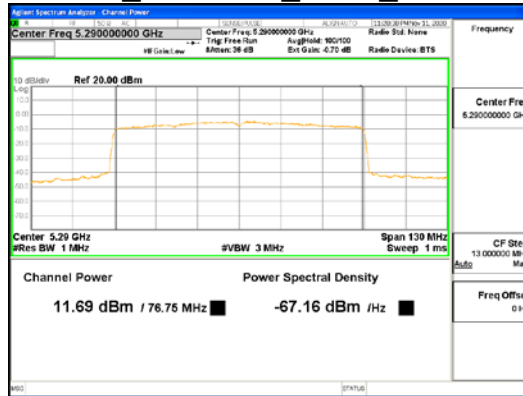


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

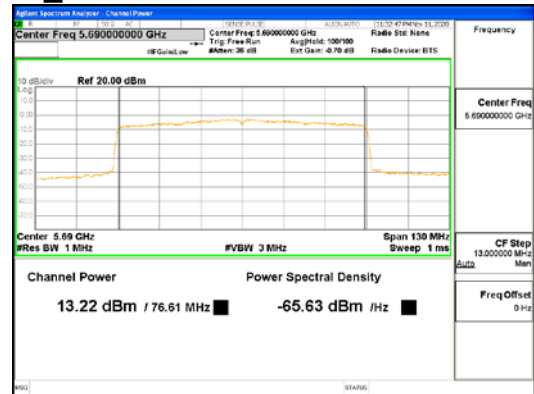
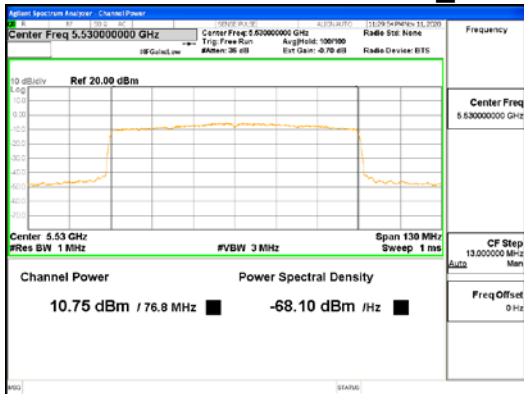
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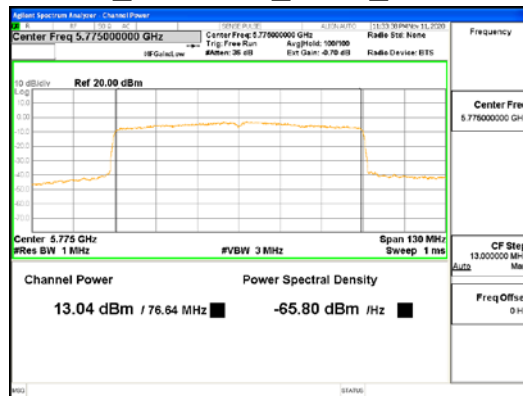
**ANT1\_802.11ax\_HE80\_UNII 1**



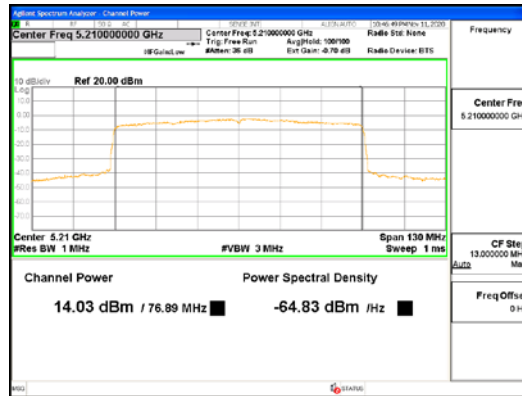
**ANT1\_802.11ax\_HE80\_UNII 2A**



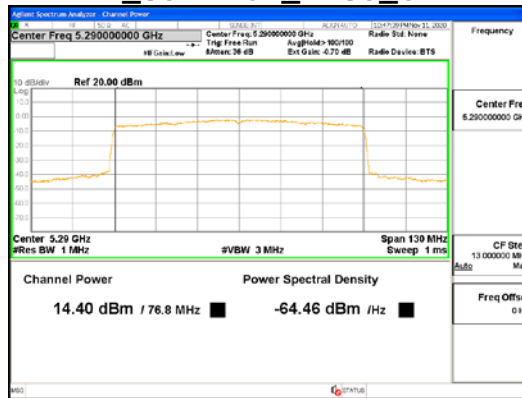
**ANT1\_802.11ax\_HE80\_UNII 2C**



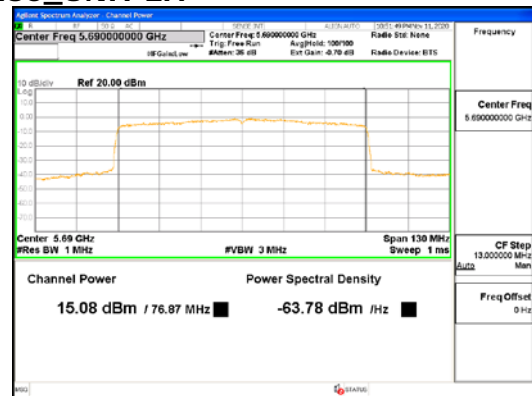
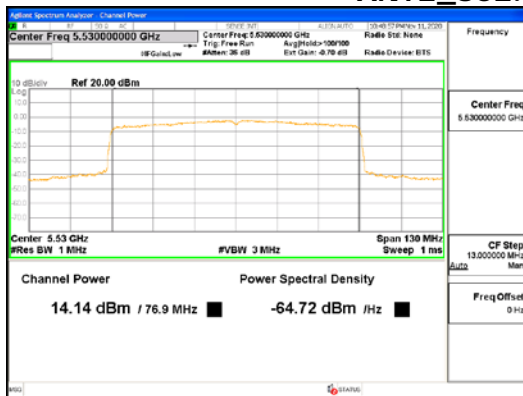
**ANT1\_802.11ax\_HE80\_UNII 3**



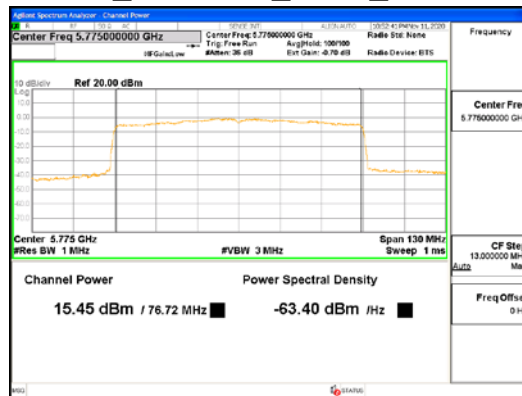
**ANT2\_802.11ax\_HE80\_UNI I 1**



**ANT2\_802.11ax\_HE80\_UNI I 2A**



**ANT2\_802.11ax\_HE80\_UNI I 2C**



**ANT2\_802.11ax\_HE80\_UNI I 3**

## 4.4 Power Spectral Density

### Test Procedures

KDB 789033 – Section F (Method SA-2, Maximum Power Spectral Density)  
KDB 662911 D01, D02 (Multiple Transmitter Output)

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz, 500 KHz (UNII 3)
- b) VBW = 3 MHz, 1.5 MHz (UNII 3)
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor =  $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
802.11a	0.13
802.11n_HT20	0.14
802.11n_HT40	0.27
802.11ac_VHT20	0.26
802.11ac_VHT40	0.49
802.11ac_VHT80	0.89
802.11ax_HE20_SU	0.31
802.11ax_HE40_SU	0.53
802.11ax_HE80_SU	0.85
802.11ax HE20/40/80 26T	0.24



**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

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**Limit**

Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
SISO	ANT1, ANT2	-0.07, 1.65	802.11a/n/ac/ax	UNII 1	11.00
				UNII 2A	11.00
				UNII 2C	11.00
				UNII 3	30.00
MIMO (2Tx)	ANT1 + ANT2	3.88	802.11a/n/ac/ax	UNII 1	11.00
				UNII 2A	11.00
				UNII 2C	11.00
				UNII 3	30.00

## Test Data

### ANT1

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	-1.41	0.13	-1.28	11.00	12.28
	5 200	-1.21	0.13	-1.08	11.00	12.08
	5 240	-0.38	0.13	-0.25	11.00	11.25
	5 260	2.74	0.13	2.87	11.00	8.13
	5 300	1.04	0.13	1.17	11.00	9.83
	5 320	0.96	0.13	1.09	11.00	9.91
	5 500	1.44	0.13	1.57	11.00	9.43
	5 600	3.53	0.13	3.66	11.00	7.34
	5 720	3.64	0.13	3.77	11.00	7.23
	5 745	1.36	0.13	1.49	30.00	28.51
	5 785	1.01	0.13	1.14	30.00	28.86
	5 825	-1.50	0.13	-1.37	30.00	31.37
802.11n _HT20	5 180	-0.03	0.14	0.11	11.00	10.89
	5 200	0.14	0.14	0.28	11.00	10.72
	5 240	0.59	0.14	0.73	11.00	10.27
	5 260	2.66	0.14	2.80	11.00	8.20
	5 300	2.21	0.14	2.35	11.00	8.65
	5 320	1.98	0.14	2.12	11.00	8.88
	5 500	2.21	0.14	2.35	11.00	8.65
	5 600	3.73	0.14	3.87	11.00	7.13
	5 720	3.84	0.14	3.98	11.00	7.02
	5 745	1.16	0.14	1.30	30.00	28.70
	5 785	1.04	0.14	1.18	30.00	28.82
	5 825	-1.52	0.14	-1.38	30.00	31.38
802.11ac _VHT20	5 180	-1.31	0.26	-1.05	11.00	12.05
	5 200	-1.31	0.26	-1.05	11.00	12.05
	5 240	-1.13	0.26	-0.87	11.00	11.87
	5 260	1.97	0.26	2.23	11.00	8.77
	5 300	0.37	0.26	0.63	11.00	10.37
	5 320	0.55	0.26	0.81	11.00	10.19
	5 500	1.22	0.26	1.48	11.00	9.52
	5 600	3.62	0.26	3.88	11.00	7.12
	5 720	3.46	0.26	3.72	11.00	7.28



	5 745	0.86	0.26	1.12	30.00	28.88
	5 785	0.44	0.26	0.70	30.00	29.30
	5 825	-2.38	0.26	-2.12	30.00	32.12
802.11ax _HE20 _SU	5 180	-1.58	0.31	-1.27	11.00	12.27
	5 200	-1.32	0.31	-1.01	11.00	12.01
	5 240	-1.46	0.31	-1.15	11.00	12.15
	5 260	2.07	0.31	2.38	11.00	8.62
	5 300	0.09	0.31	0.40	11.00	10.60
	5 320	0.89	0.31	1.20	11.00	9.80
	5 500	1.25	0.31	1.56	11.00	9.44
	5 600	3.45	0.31	3.76	11.00	7.24
	5 720	3.28	0.31	3.59	11.00	7.41
	5 745	0.97	0.31	1.28	30.00	28.72
	5 785	0.29	0.31	0.60	30.00	29.40
	5 825	-2.32	0.31	-2.01	30.00	32.01
802.11n _HT40	5 190	-1.77	0.27	-1.50	11.00	12.50
	5 230	-1.79	0.27	-1.52	11.00	12.52
	5 270	-0.85	0.27	-0.58	11.00	11.58
	5 310	-2.55	0.27	-2.28	11.00	13.28
	5 510	1.97	0.27	2.24	11.00	8.76
	5 590	3.99	0.27	4.26	11.00	6.74
	5 710	3.85	0.27	4.12	11.00	6.88
	5 755	1.12	0.27	1.39	30.00	28.61
	5 795	0.63	0.27	0.90	30.00	29.10
802.11ac _VHT40	5 190	-2.13	0.49	-1.64	11.00	12.64
	5 230	-2.36	0.49	-1.87	11.00	12.87
	5 270	-1.18	0.49	-0.69	11.00	11.69
	5 310	-2.90	0.49	-2.41	11.00	13.41
	5 510	1.74	0.49	2.23	11.00	8.77
	5 590	3.57	0.49	4.06	11.00	6.94
	5 710	3.41	0.49	3.90	11.00	7.10
	5 755	1.04	0.49	1.53	30.00	28.47
	5 795	0.43	0.49	0.92	30.00	29.08
802.11ax _HE40 _SU	5 190	-1.91	0.53	-1.38	11.00	12.38
	5 230	-2.47	0.53	-1.94	11.00	12.94
	5 270	-1.28	0.53	-0.75	11.00	11.75
	5 310	-3.08	0.53	-2.55	11.00	13.55
	5 510	1.47	0.53	2.00	11.00	9.00
	5 590	3.57	0.53	4.10	11.00	6.90





**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

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	5 710	3.37	0.53	3.90	11.00	7.10
	5 755	0.66	0.53	1.19	30.00	28.81
	5 795	0.28	0.53	0.81	30.00	29.19
802.11ac _VHT80	5 210	-5.03	0.89	-4.14	11.00	15.14
	5 290	-4.48	0.89	-3.59	11.00	14.59
	5 530	-5.79	0.89	-4.90	11.00	15.90
	5 690	-3.29	0.89	-2.40	11.00	13.40
	5 775	-6.40	0.89	-5.51	30.00	35.51
802.11ax _HE80 _SU	5 210	-5.44	0.85	-4.59	11.00	15.59
	5 290	-4.89	0.85	-4.04	11.00	15.04
	5 530	-5.58	0.85	-4.73	11.00	15.73
	5 690	-2.96	0.85	-2.11	11.00	13.11
	5 775	-5.63	0.85	-4.78	30.00	34.78
Measurement uncertainty		1.5 dB				



Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 180	Low	1.77	0.24	2.01	11.00	8.99
		Mid	1.36	0.24	1.60	11.00	9.40
		High	2.30	0.24	2.54	11.00	8.46
	5 200	Low	2.09	0.24	2.33	11.00	8.67
		Mid	0.87	0.24	1.11	11.00	9.89
		High	2.19	0.24	2.43	11.00	8.57
	5 240	Low	0.50	0.24	0.74	11.00	10.26
		Mid	0.13	0.24	0.37	11.00	10.63
		High	1.24	0.24	1.48	11.00	9.52
	5 260	Low	5.80	0.24	6.04	11.00	4.96
		Mid	4.38	0.24	4.62	11.00	6.38
		High	5.64	0.24	5.88	11.00	5.12
	5 300	Low	4.36	0.24	4.60	11.00	6.40
		Mid	3.56	0.24	3.80	11.00	7.20
		High	4.86	0.24	5.10	11.00	5.90
	5 320	Low	4.75	0.24	4.99	11.00	6.01
		Mid	3.46	0.24	3.70	11.00	7.30
		High	4.58	0.24	4.82	11.00	6.18
	5 500	Low	4.70	0.24	4.94	11.00	6.06
		Mid	3.77	0.24	4.01	11.00	6.99
		High	5.07	0.24	5.31	11.00	5.69
	5 600	Low	5.76	0.24	6.00	11.00	5.00
		Mid	4.91	0.24	5.15	11.00	5.85
		High	5.92	0.24	6.16	11.00	4.84
	5 720	Low	6.79	0.24	7.03	11.00	3.97
		Mid	5.75	0.24	5.99	11.00	5.01
		High	6.81	0.24	7.05	11.00	3.95
5 745	Low	5.31	0.24	5.55	30.00	24.45	
	Mid	4.90	0.24	5.14	30.00	24.86	
	High	4.89	0.24	5.13	30.00	24.87	
5 785	Low	4.78	0.24	5.02	30.00	24.98	
	Mid	5.02	0.24	5.26	30.00	24.74	
	High	5.08	0.24	5.32	30.00	24.68	
5 825	Low	6.00	0.24	6.24	30.00	23.76	
	Mid	5.60	0.24	5.84	30.00	24.16	
	High	5.90	0.24	6.14	30.00	23.86	
Measurement uncertainty		1.5 dB					



Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 190	Low	1.49	0.24	1.73	11.00	9.27
		Mid	1.52	0.24	1.76	11.00	9.24
		High	1.38	0.24	1.62	11.00	9.38
	5 230	Low	1.53	0.24	1.77	11.00	9.23
		Mid	1.93	0.24	2.17	11.00	8.83
		High	2.20	0.24	2.44	11.00	8.56
	5 270	Low	6.09	0.24	6.33	11.00	4.67
		Mid	6.22	0.24	6.46	11.00	4.54
		High	6.22	0.24	6.46	11.00	4.54
	5 310	Low	6.42	0.24	6.66	11.00	4.34
		Mid	6.59	0.24	6.83	11.00	4.17
		High	6.18	0.24	6.42	11.00	4.58
	5 510	Low	4.94	0.24	5.18	11.00	5.82
		Mid	5.59	0.24	5.83	11.00	5.17
		High	5.11	0.24	5.35	11.00	5.65
	5 590	Low	5.31	0.24	5.55	11.00	5.45
		Mid	5.89	0.24	6.13	11.00	4.87
		High	5.70	0.24	5.94	11.00	5.06
	5 710	Low	6.13	0.24	6.37	11.00	4.63
		Mid	6.57	0.24	6.81	11.00	4.19
		High	6.27	0.24	6.51	11.00	4.49
5 755	Low	4.28	0.24	4.52	30.00	25.48	
	Mid	4.43	0.24	4.67	30.00	25.33	
	High	3.74	0.24	3.98	30.00	26.02	
5 795	Low	4.07	0.24	4.31	30.00	25.69	
	Mid	4.38	0.24	4.62	30.00	25.38	
	High	4.16	0.24	4.40	30.00	25.60	
Measurement uncertainty		1.5 dB					



**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

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Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _26T	5 210	Low	1.38	0.24	1.62	11.00	9.38
		Mid	0.70	0.24	0.94	11.00	10.06
		High	2.06	0.24	2.30	11.00	8.70
	5 290	Low	6.05	0.24	6.29	11.00	4.71
		Mid	5.80	0.24	6.04	11.00	4.96
		High	6.39	0.24	6.63	11.00	4.37
	5 530	Low	5.51	0.24	5.75	11.00	5.25
		Mid	4.69	0.24	4.93	11.00	6.07
		High	5.02	0.24	5.26	11.00	5.74
	5 690	Low	6.35	0.24	6.59	11.00	4.41
		Mid	5.28	0.24	5.52	11.00	5.48
		High	6.47	0.24	6.71	11.00	4.29
	5 775	Low	4.55	0.24	4.79	30.00	25.21
		Mid	4.35	0.24	4.59	30.00	25.41
		High	4.45	0.24	4.69	30.00	25.31
Measurement uncertainty		1.5 dB					



**ANT2**

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	2.45	0.13	2.58	11.00	8.42
	5 200	2.31	0.13	2.44	11.00	8.56
	5 240	2.06	0.13	2.19	11.00	8.81
	5 260	4.59	0.13	4.72	11.00	6.28
	5 300	3.90	0.13	4.03	11.00	6.97
	5 320	4.35	0.13	4.48	11.00	6.52
	5 500	4.60	0.13	4.73	11.00	6.27
	5 600	6.15	0.13	6.28	11.00	4.72
	5 720	5.98	0.13	6.11	11.00	4.89
	5 745	3.06	0.13	3.19	30.00	26.81
	5 785	2.97	0.13	3.10	30.00	26.90
	5 825	2.93	0.13	3.06	30.00	26.94
802.11n _HT20	5 180	1.94	0.14	2.08	11.00	8.92
	5 200	1.92	0.14	2.06	11.00	8.94
	5 240	1.70	0.14	1.84	11.00	9.16
	5 260	4.05	0.14	4.19	11.00	6.81
	5 300	3.65	0.14	3.79	11.00	7.21
	5 320	3.80	0.14	3.94	11.00	7.06
	5 500	4.30	0.14	4.44	11.00	6.56
	5 600	5.74	0.14	5.88	11.00	5.12
	5 720	5.64	0.14	5.78	11.00	5.22
	5 745	2.40	0.14	2.54	30.00	27.46
	5 785	2.74	0.14	2.88	30.00	27.12
	5 825	2.39	0.14	2.53	30.00	27.47
802.11ac _VHT20	5 180	1.87	0.26	2.13	11.00	8.87
	5 200	2.05	0.26	2.31	11.00	8.69
	5 240	1.50	0.26	1.76	11.00	9.24
	5 260	4.06	0.26	4.32	11.00	6.68
	5 300	3.69	0.26	3.95	11.00	7.05
	5 320	3.84	0.26	4.10	11.00	6.90
	5 500	4.41	0.26	4.67	11.00	6.33
	5 600	5.54	0.26	5.80	11.00	5.20
	5 720	5.61	0.26	5.87	11.00	5.13
	5 745	2.70	0.26	2.96	30.00	27.04



	5 785	2.37	0.26	2.63	30.00	27.37
	5 825	2.43	0.26	2.69	30.00	27.31
802.11ax _HE20 _SU	5 180	1.66	0.31	1.97	11.00	9.03
	5 200	1.67	0.31	1.98	11.00	9.02
	5 240	1.35	0.31	1.66	11.00	9.34
	5 260	4.04	0.31	4.35	11.00	6.65
	5 300	3.47	0.31	3.78	11.00	7.22
	5 320	3.31	0.31	3.62	11.00	7.38
	5 500	3.88	0.31	4.19	11.00	6.81
	5 600	5.56	0.31	5.87	11.00	5.13
	5 720	5.37	0.31	5.68	11.00	5.32
	5 745	1.95	0.31	2.26	30.00	27.74
	5 785	1.93	0.31	2.24	30.00	27.76
5 825	2.03	0.31	2.34	30.00	27.66	
802.11n _HT40	5 190	1.32	0.27	1.59	11.00	9.41
	5 230	0.31	0.27	0.58	11.00	10.42
	5 270	1.42	0.27	1.69	11.00	9.31
	5 310	1.06	0.27	1.33	11.00	9.67
	5 510	4.68	0.27	4.95	11.00	6.05
	5 590	5.97	0.27	6.24	11.00	4.76
	5 710	5.48	0.27	5.75	11.00	5.25
	5 755	2.50	0.27	2.77	30.00	27.23
5 795	2.45	0.27	2.72	30.00	27.28	
802.11ac _VHT40	5 190	1.03	0.49	1.52	11.00	9.48
	5 230	0.01	0.49	0.50	11.00	10.50
	5 270	1.12	0.49	1.61	11.00	9.39
	5 310	0.77	0.49	1.26	11.00	9.74
	5 510	4.48	0.49	4.97	11.00	6.03
	5 590	5.44	0.49	5.93	11.00	5.07
	5 710	5.42	0.49	5.91	11.00	5.09
	5 755	2.41	0.49	2.90	30.00	27.10
5 795	2.07	0.49	2.56	30.00	27.44	
802.11ax _HE40 _SU	5 190	1.03	0.53	1.56	11.00	9.44
	5 230	-0.09	0.53	0.44	11.00	10.56
	5 270	0.90	0.53	1.43	11.00	9.57
	5 310	0.53	0.53	1.06	11.00	9.94
	5 510	4.24	0.53	4.77	11.00	6.23
	5 590	5.61	0.53	6.14	11.00	4.86
	5 710	5.20	0.53	5.73	11.00	5.27



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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
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	5 755	2.30	0.53	2.83	30.00	27.17
	5 795	2.13	0.53	2.66	30.00	27.34
802.11ac _VHT80	5 210	-2.78	0.89	-1.89	11.00	12.89
	5 290	-2.44	0.89	-1.55	11.00	12.55
	5 530	-2.43	0.89	-1.54	11.00	12.54
	5 690	-1.73	0.89	-0.84	11.00	11.84
	5 775	-3.84	0.89	-2.95	30.00	32.95
802.11ax _HE80 _SU	5 210	-2.38	0.85	-1.53	11.00	12.53
	5 290	-1.69	0.85	-0.84	11.00	11.84
	5 530	-2.08	0.85	-1.23	11.00	12.23
	5 690	-1.32	0.85	-0.47	11.00	11.47
	5 775	-3.54	0.85	-2.69	30.00	32.69
Measurement uncertainty		1.5 dB				



Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 180	Low	3.75	0.24	3.99	11.00	7.01
		Mid	3.13	0.24	3.37	11.00	7.63
		High	3.91	0.24	4.15	11.00	6.85
	5 200	Low	3.66	0.24	3.90	11.00	7.10
		Mid	3.11	0.24	3.35	11.00	7.65
		High	4.42	0.24	4.66	11.00	6.34
	5 240	Low	2.60	0.24	2.84	11.00	8.16
		Mid	2.21	0.24	2.45	11.00	8.55
		High	3.16	0.24	3.40	11.00	7.60
	5 260	Low	7.56	0.24	7.80	11.00	3.20
		Mid	6.80	0.24	7.04	11.00	3.96
		High	7.92	0.24	8.16	11.00	2.84
	5 300	Low	7.62	0.24	7.86	11.00	3.14
		Mid	6.79	0.24	7.03	11.00	3.97
		High	7.96	0.24	8.20	11.00	2.80
	5 320	Low	7.95	0.24	8.19	11.00	2.81
		Mid	6.89	0.24	7.13	11.00	3.87
		High	8.34	0.24	8.58	11.00	2.42
	5 500	Low	8.31	0.24	8.55	11.00	2.45
		Mid	7.58	0.24	7.82	11.00	3.18
		High	8.80	0.24	9.04	11.00	1.96
	5 600	Low	7.14	0.24	7.38	11.00	3.62
		Mid	6.44	0.24	6.68	11.00	4.32
		High	7.45	0.24	7.69	11.00	3.31
	5 720	Low	6.75	0.24	6.99	11.00	4.01
		Mid	5.80	0.24	6.04	11.00	4.96
		High	6.79	0.24	7.03	11.00	3.97
	5 745	Low	5.01	0.24	5.25	30.00	24.75
		Mid	4.49	0.24	4.73	30.00	25.27
		High	4.89	0.24	5.13	30.00	24.87
5 785	Low	4.92	0.24	5.16	30.00	24.84	
	Mid	4.93	0.24	5.17	30.00	24.83	
	High	5.07	0.24	5.31	30.00	24.69	
5 825	Low	6.74	0.24	6.98	30.00	23.02	
	Mid	6.36	0.24	6.60	30.00	23.40	
	High	6.45	0.24	6.69	30.00	23.31	
Measurement uncertainty		1.5 dB					





Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 190	Low	2.56	0.24	2.80	11.00	8.20
		Mid	2.99	0.24	3.23	11.00	7.77
		High	3.24	0.24	3.48	11.00	7.52
	5 230	Low	3.18	0.24	3.42	11.00	7.58
		Mid	3.54	0.24	3.78	11.00	7.22
		High	3.37	0.24	3.61	11.00	7.39
	5 270	Low	7.35	0.24	7.59	11.00	3.41
		Mid	7.60	0.24	7.84	11.00	3.16
		High	7.88	0.24	8.12	11.00	2.88
	5 310	Low	7.71	0.24	7.95	11.00	3.05
		Mid	7.84	0.24	8.08	11.00	2.92
		High	8.21	0.24	8.45	11.00	2.55
	5 510	Low	7.61	0.24	7.85	11.00	3.15
		Mid	7.88	0.24	8.12	11.00	2.88
		High	7.85	0.24	8.09	11.00	2.91
	5 590	Low	6.83	0.24	7.07	11.00	3.93
		Mid	7.57	0.24	7.81	11.00	3.19
		High	7.42	0.24	7.66	11.00	3.34
	5 710	Low	7.38	0.24	7.62	11.00	3.38
		Mid	7.57	0.24	7.81	11.00	3.19
		High	7.28	0.24	7.52	11.00	3.48
	5 755	Low	5.22	0.24	5.46	30.00	24.54
		Mid	5.34	0.24	5.58	30.00	24.42
		High	5.18	0.24	5.42	30.00	24.58
5 795	Low	5.48	0.24	5.72	30.00	24.28	
	Mid	5.55	0.24	5.79	30.00	24.21	
	High	5.61	0.24	5.85	30.00	24.15	
Measurement uncertainty		1.5 dB					



**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

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Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _26T	5 210	Low	2.72	0.24	2.96	11.00	8.04
		Mid	1.80	0.24	2.04	11.00	8.96
		High	3.40	0.24	3.64	11.00	7.36
	5 290	Low	7.24	0.24	7.48	11.00	3.52
		Mid	6.57	0.24	6.81	11.00	4.19
		High	7.58	0.24	7.82	11.00	3.18
	5 530	Low	7.79	0.24	8.03	11.00	2.97
		Mid	6.67	0.24	6.91	11.00	4.09
		High	7.59	0.24	7.83	11.00	3.17
	5 690	Low	7.28	0.24	7.52	11.00	3.48
		Mid	6.32	0.24	6.56	11.00	4.44
		High	6.90	0.24	7.14	11.00	3.86
	5 775	Low	5.37	0.24	5.61	30.00	24.39
		Mid	4.93	0.24	5.17	30.00	24.83
		High	4.99	0.24	5.23	30.00	24.77
Measurement uncertainty		1.5 dB					



**ANT1 + ANT2**

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	3.95	0.13	4.08	11.00	6.92
	5 200	3.91	0.13	4.04	11.00	6.96
	5 240	4.02	0.13	4.15	11.00	6.85
	5 260	6.77	0.13	6.90	11.00	4.10
	5 300	5.71	0.13	5.84	11.00	5.16
	5 320	5.99	0.13	6.12	11.00	4.88
	5 500	6.31	0.13	6.44	11.00	4.56
	5 600	8.04	0.13	8.17	11.00	2.83
	5 720	7.98	0.13	8.11	11.00	2.89
	5 745	5.30	0.13	5.43	30.00	24.57
	5 785	5.11	0.13	5.24	30.00	24.76
	5 825	4.27	0.13	4.40	30.00	25.60
802.11n _HT20	5 180	4.08	0.14	4.22	11.00	6.78
	5 200	4.13	0.14	4.27	11.00	6.73
	5 240	4.19	0.14	4.33	11.00	6.67
	5 260	6.42	0.14	6.56	11.00	4.44
	5 300	6.00	0.14	6.14	11.00	4.86
	5 320	5.99	0.14	6.13	11.00	4.87
	5 500	6.39	0.14	6.53	11.00	4.47
	5 600	7.86	0.14	8.00	11.00	3.00
	5 720	7.84	0.14	7.98	11.00	3.02
	5 745	4.83	0.14	4.97	30.00	25.03
	5 785	4.98	0.14	5.12	30.00	24.88
	5 825	3.87	0.14	4.01	30.00	25.99
802.11ac _VHT20	5 180	3.58	0.26	3.84	11.00	7.16
	5 200	3.70	0.26	3.96	11.00	7.04
	5 240	3.39	0.26	3.65	11.00	7.35
	5 260	6.15	0.26	6.41	11.00	4.59
	5 300	5.35	0.26	5.61	11.00	5.39
	5 320	5.51	0.26	5.77	11.00	5.23
	5 500	6.11	0.26	6.37	11.00	4.63
	5 600	7.70	0.26	7.96	11.00	3.04
	5 720	7.68	0.26	7.94	11.00	3.06
	5 745	4.89	0.26	5.15	30.00	24.85



	5 785	4.52	0.26	4.78	30.00	25.22
	5 825	3.67	0.26	3.93	30.00	26.07
802.11ax _HE20 _SU	5 180	3.35	0.31	3.66	11.00	7.34
	5 200	3.44	0.31	3.75	11.00	7.25
	5 240	3.18	0.31	3.49	11.00	7.51
	5 260	6.18	0.31	6.49	11.00	4.51
	5 300	5.11	0.31	5.42	11.00	5.58
	5 320	5.28	0.31	5.59	11.00	5.41
	5 500	5.77	0.31	6.08	11.00	4.92
	5 600	7.64	0.31	7.95	11.00	3.05
	5 720	7.46	0.31	7.77	11.00	3.23
	5 745	4.50	0.31	4.81	30.00	25.19
	5 785	4.20	0.31	4.51	30.00	25.49
5 825	3.39	0.31	3.70	30.00	26.30	
802.11n _HT40	5 190	3.05	0.27	3.32	11.00	7.68
	5 230	2.40	0.27	2.67	11.00	8.33
	5 270	3.44	0.27	3.71	11.00	7.29
	5 310	2.63	0.27	2.90	11.00	8.10
	5 510	6.54	0.27	6.81	11.00	4.19
	5 590	8.10	0.27	8.37	11.00	2.63
	5 710	7.75	0.27	8.02	11.00	2.98
	5 755	4.87	0.27	5.14	30.00	24.86
5 795	4.64	0.27	4.91	30.00	25.09	
802.11ac _VHT40	5 190	2.74	0.49	3.23	11.00	7.77
	5 230	2.00	0.49	2.49	11.00	8.51
	5 270	3.13	0.49	3.62	11.00	7.38
	5 310	2.32	0.49	2.81	11.00	8.19
	5 510	6.33	0.49	6.82	11.00	4.18
	5 590	7.62	0.49	8.11	11.00	2.89
	5 710	7.54	0.49	8.03	11.00	2.97
	5 755	4.79	0.49	5.28	30.00	24.72
5 795	4.34	0.49	4.83	30.00	25.17	
802.11ax _HE40 _SU	5 190	2.81	0.53	3.34	11.00	7.66
	5 230	1.89	0.53	2.42	11.00	8.58
	5 270	2.96	0.53	3.49	11.00	7.51
	5 310	2.10	0.53	2.63	11.00	8.37
	5 510	6.08	0.53	6.61	11.00	4.39
	5 590	7.72	0.53	8.25	11.00	2.75
	5 710	7.39	0.53	7.92	11.00	3.08



**CTK Co., Ltd.**  
(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
Tel: +82-31-339-9970  
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	5 755	4.57	0.53	5.10	30.00	24.90
	5 795	4.31	0.53	4.84	30.00	25.16
802.11ac _VHT80	5 210	-0.75	0.89	0.14	11.00	10.86
	5 290	-0.33	0.89	0.56	11.00	10.44
	5 530	-0.78	0.89	0.11	11.00	10.89
	5 690	0.57	0.89	1.46	11.00	9.54
	5 775	-1.92	0.89	-1.03	30.00	31.03
802.11ax _HE80 _SU	5 210	-0.64	0.85	0.21	11.00	10.79
	5 290	0.01	0.85	0.86	11.00	10.14
	5 530	-0.48	0.85	0.37	11.00	10.63
	5 690	0.95	0.85	1.80	11.00	9.20
	5 775	-1.45	0.85	-0.60	30.00	30.60
Measurement uncertainty		1.5 dB				



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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
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Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 180	Low	5.88	0.24	6.12	11.00	4.88
		Mid	5.34	0.24	5.58	11.00	5.42
		High	6.19	0.24	6.43	11.00	4.57
	5 200	Low	5.96	0.24	6.20	11.00	4.80
		Mid	5.14	0.24	5.38	11.00	5.62
		High	6.46	0.24	6.70	11.00	4.30
	5 240	Low	4.69	0.24	4.93	11.00	6.07
		Mid	4.30	0.24	4.54	11.00	6.46
		High	5.32	0.24	5.56	11.00	5.44
	5 260	Low	9.78	0.24	10.02	11.00	0.98
		Mid	8.77	0.24	9.01	11.00	1.99
		High	9.94	0.24	10.18	11.00	0.82
	5 300	Low	9.30	0.24	9.54	11.00	1.46
		Mid	8.48	0.24	8.72	11.00	2.28
		High	9.69	0.24	9.93	11.00	1.07
	5 320	Low	9.65	0.24	9.89	11.00	1.11
		Mid	8.52	0.24	8.76	11.00	2.24
		High	9.87	0.24	10.11	11.00	0.89
	5 500	Low	9.88	0.24	10.12	11.00	0.88
		Mid	9.09	0.24	9.33	11.00	1.67
		High	10.33	0.24	10.57	11.00	0.43
	5 600	Low	9.51	0.24	9.75	11.00	1.25
		Mid	8.75	0.24	8.99	11.00	2.01
		High	9.76	0.24	10.00	11.00	1.00
	5 720	Low	9.78	0.24	10.02	11.00	0.98
		Mid	8.79	0.24	9.03	11.00	1.97
		High	9.81	0.24	10.05	11.00	0.95
5 745	Low	8.17	0.24	8.41	30.00	21.59	
	Mid	7.71	0.24	7.95	30.00	22.05	
	High	7.90	0.24	8.14	30.00	21.86	
5 785	Low	7.86	0.24	8.10	30.00	21.90	
	Mid	7.99	0.24	8.23	30.00	21.77	
	High	8.09	0.24	8.33	30.00	21.67	
5 825	Low	9.40	0.24	9.64	30.00	20.36	
	Mid	9.01	0.24	9.25	30.00	20.75	
	High	9.19	0.24	9.43	30.00	20.57	
Measurement uncertainty		1.5 dB					



Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _26T	5 190	Low	5.07	0.24	5.31	11.00	5.69
		Mid	5.33	0.24	5.57	11.00	5.43
		High	5.42	0.24	5.66	11.00	5.34
	5 230	Low	5.44	0.24	5.68	11.00	5.32
		Mid	5.82	0.24	6.06	11.00	4.94
		High	5.83	0.24	6.07	11.00	4.93
	5 270	Low	9.78	0.24	10.02	11.00	0.98
		Mid	9.97	0.24	10.21	11.00	0.79
		High	10.14	0.24	10.38	11.00	0.62
	5 310	Low	10.12	0.24	10.36	11.00	0.64
		Mid	10.27	0.24	10.51	11.00	0.49
		High	10.32	0.24	10.56	11.00	0.44
	5 510	Low	9.49	0.24	9.73	11.00	1.27
		Mid	9.89	0.24	10.13	11.00	0.87
		High	9.70	0.24	9.94	11.00	1.06
	5 590	Low	9.15	0.24	9.39	11.00	1.61
		Mid	9.82	0.24	10.06	11.00	0.94
		High	9.65	0.24	9.89	11.00	1.11
	5 710	Low	9.81	0.24	10.05	11.00	0.95
		Mid	10.11	0.24	10.35	11.00	0.65
		High	9.81	0.24	10.05	11.00	0.95
	5 755	Low	7.79	0.24	8.03	30.00	21.97
		Mid	7.92	0.24	8.16	30.00	21.84
		High	7.53	0.24	7.77	30.00	22.23
5 795	Low	7.84	0.24	8.08	30.00	21.92	
	Mid	8.01	0.24	8.25	30.00	21.75	
	High	7.96	0.24	8.20	30.00	21.80	
Measurement uncertainty		1.5 dB					



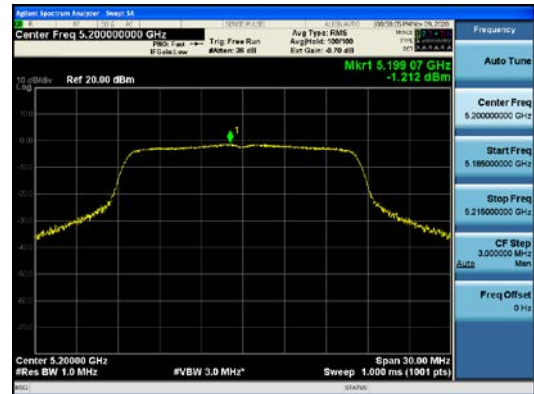
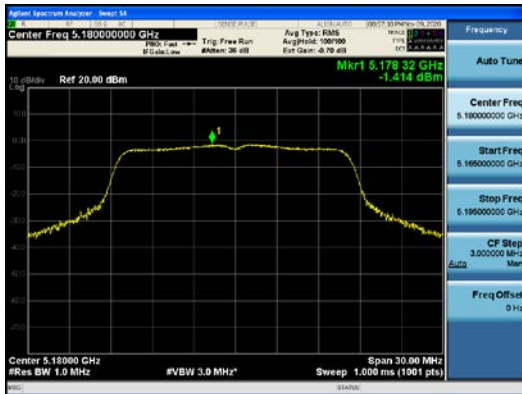
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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

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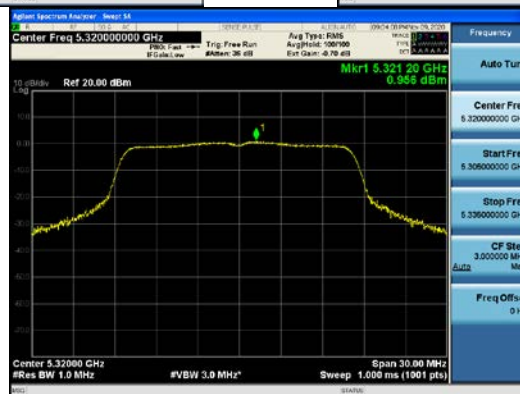
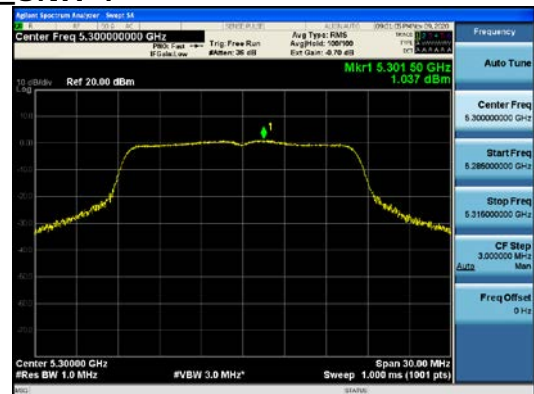
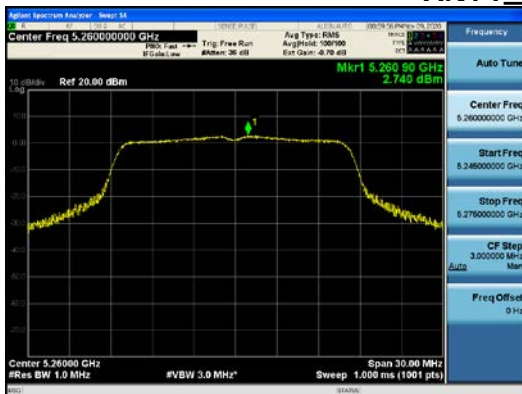
Test Mode	Frequency (MHz)	RU Index	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _26T	5 210	Low	5.11	0.24	5.35	11.00	5.65
		Mid	4.30	0.24	4.54	11.00	6.46
		High	5.79	0.24	6.03	11.00	4.97
	5 290	Low	9.70	0.24	9.94	11.00	1.06
		Mid	9.21	0.24	9.45	11.00	1.55
		High	10.04	0.24	10.28	11.00	0.72
	5 530	Low	9.81	0.24	10.05	11.00	0.95
		Mid	8.80	0.24	9.04	11.00	1.96
		High	9.50	0.24	9.74	11.00	1.26
	5 690	Low	9.85	0.24	10.09	11.00	0.91
		Mid	8.84	0.24	9.08	11.00	1.92
		High	9.70	0.24	9.94	11.00	1.06
	5 775	Low	7.99	0.24	8.23	30.00	21.77
		Mid	7.66	0.24	7.90	30.00	22.10
		High	7.74	0.24	7.98	30.00	22.02
Measurement uncertainty		1.5 dB					

See next pages for actual measured spectrum plots.





**ANT1\_802.11a\_UNII 1**

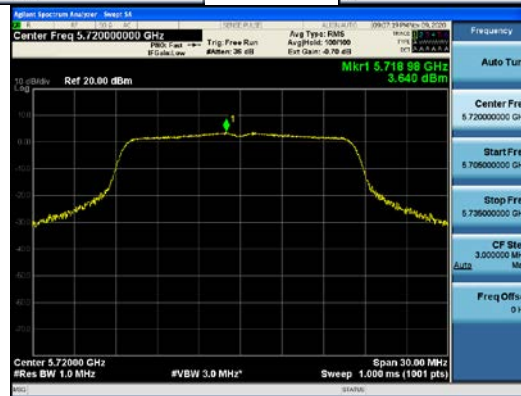
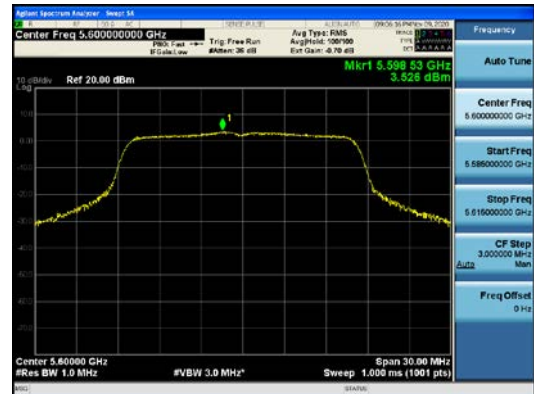
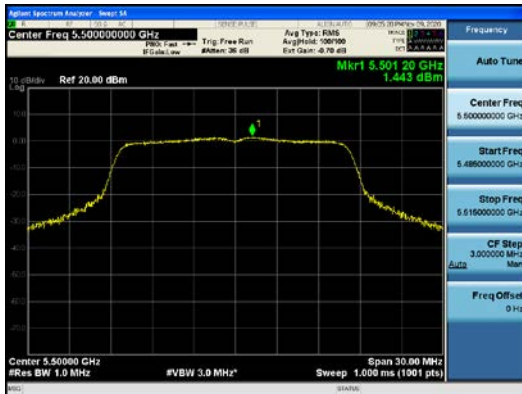


**ANT1\_802.11a\_UNII 2A**

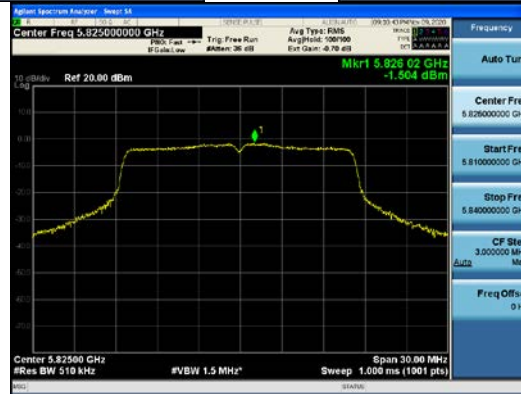
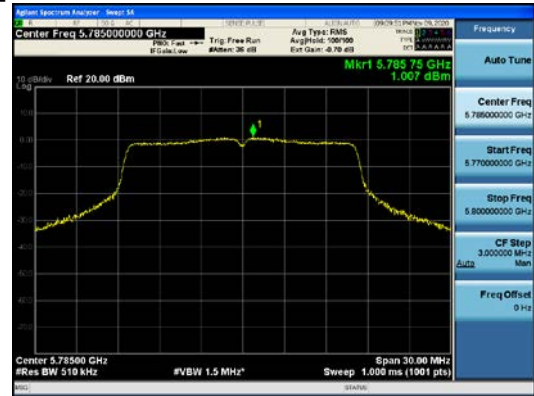
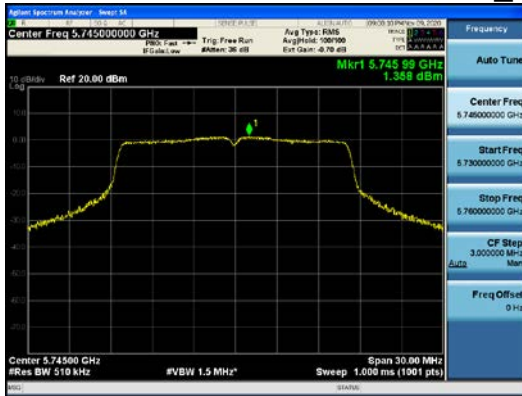


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 Yongin-si, Gyeonggi-do, Korea  
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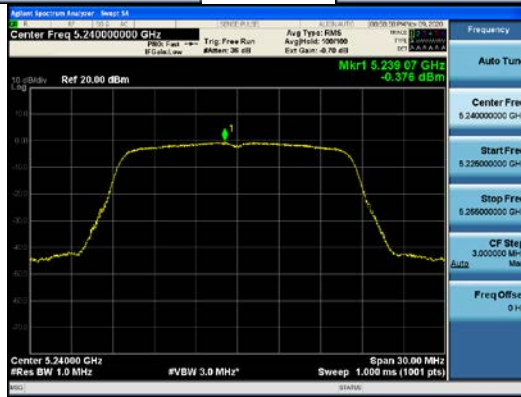
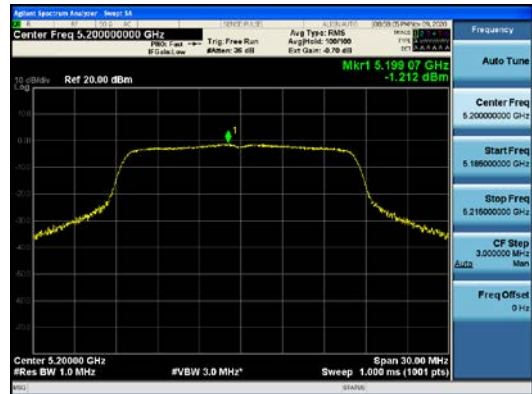
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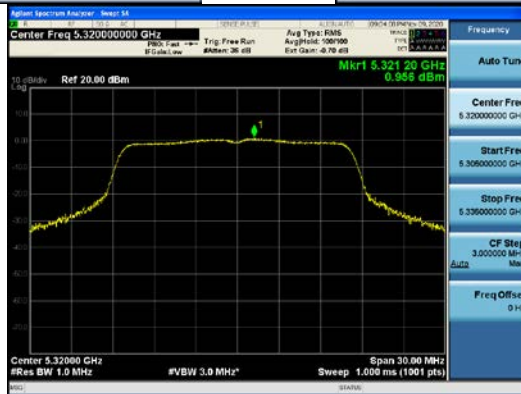
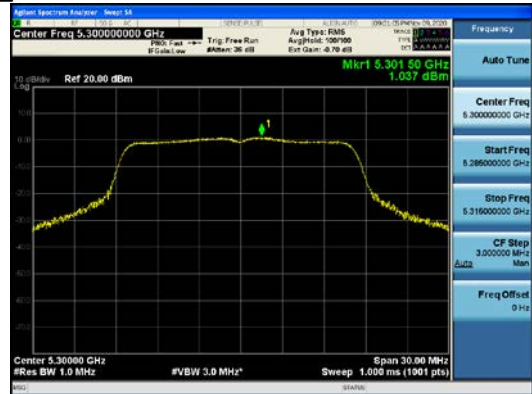
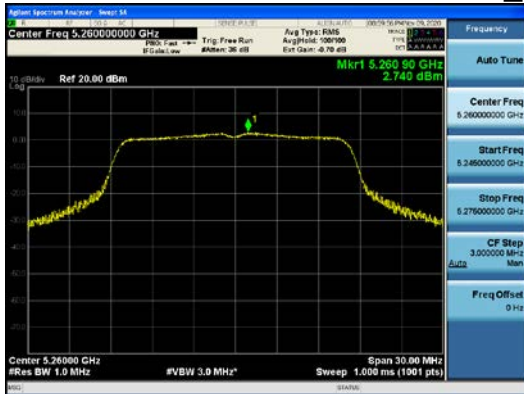
**ANT1\_802.11a\_UNII 2C**



**ANT1\_802.11a\_UNII 3**



**ANT2\_802.11a\_UNII 1**

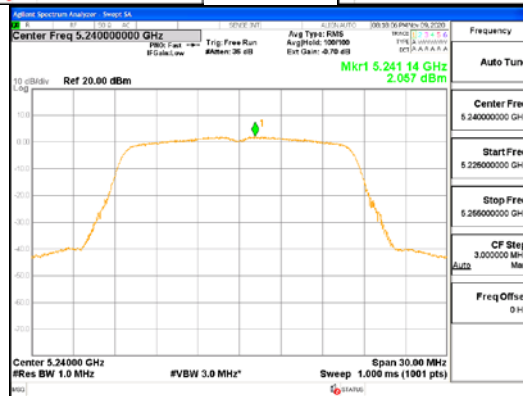
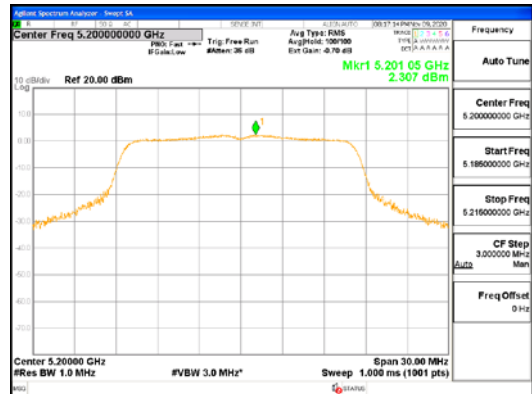
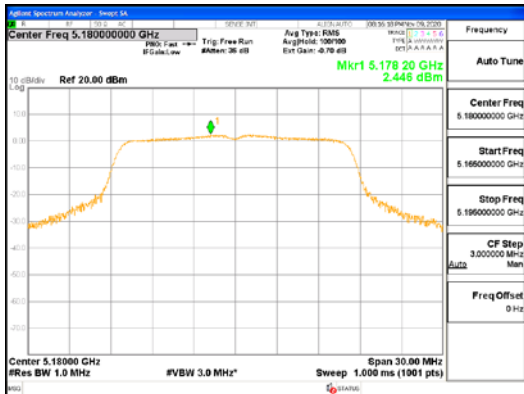


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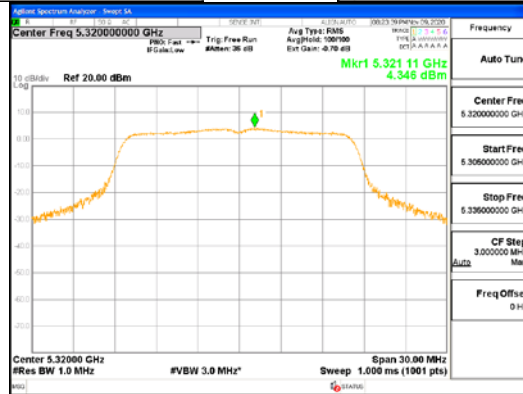
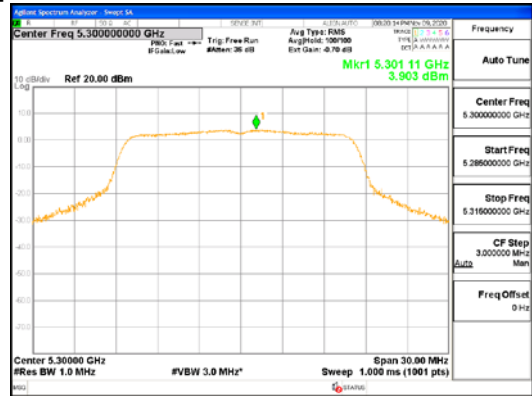
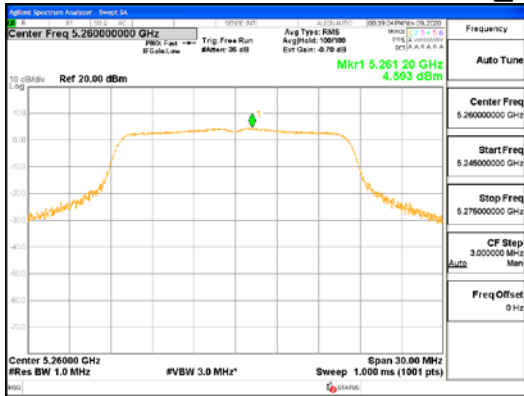


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT2\_802.11a\_UNII 2C**

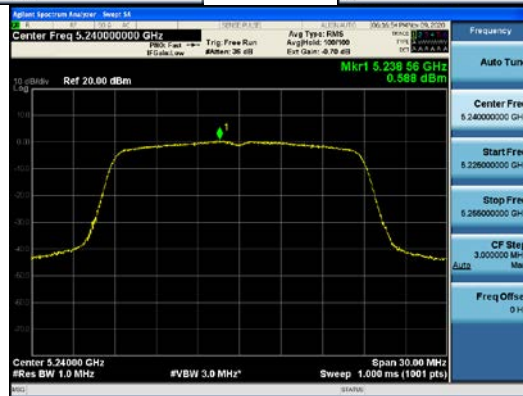
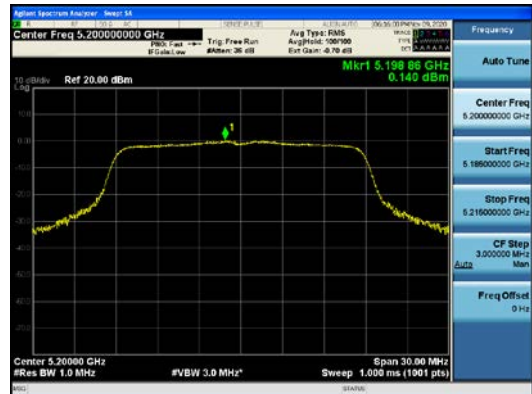
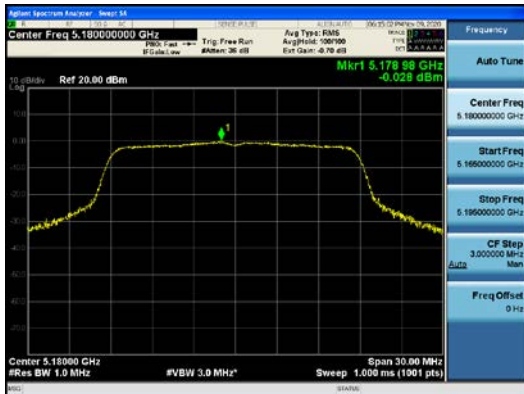


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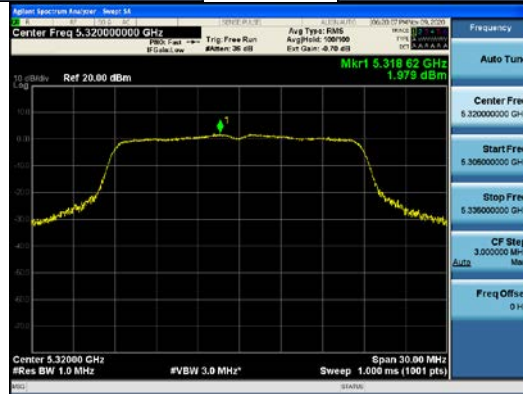
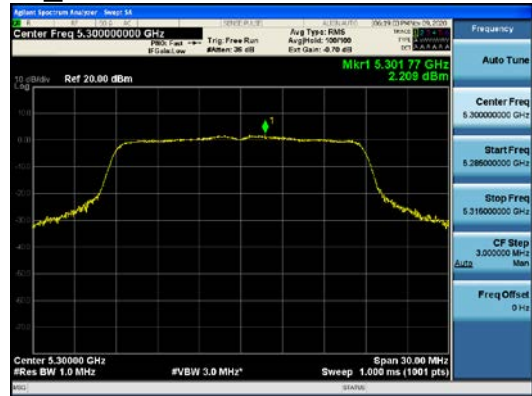


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT1\_802.11n\_HT20\_UNII 1**

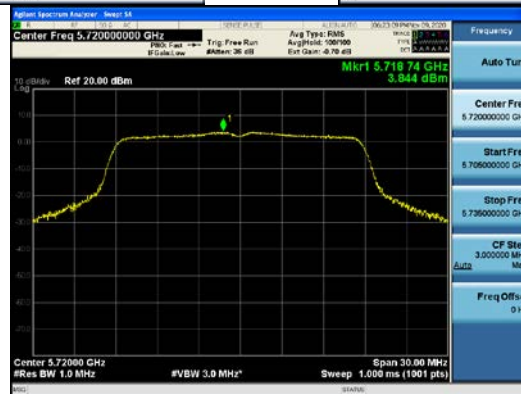
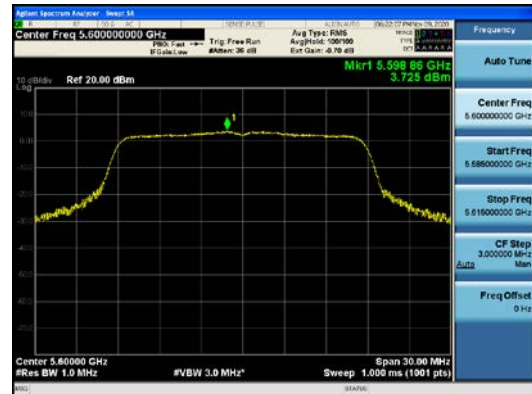
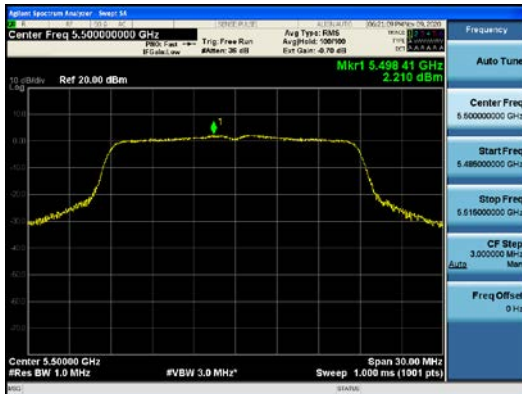


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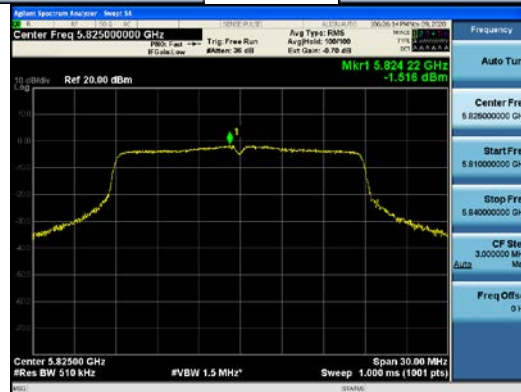
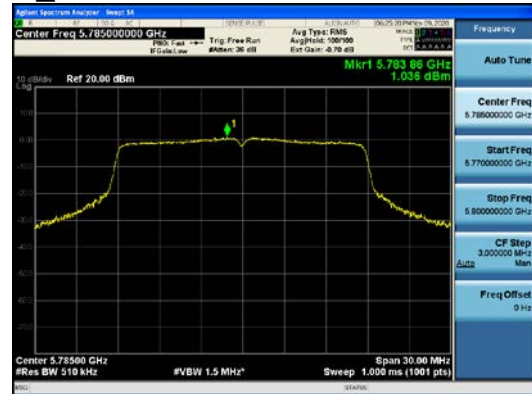
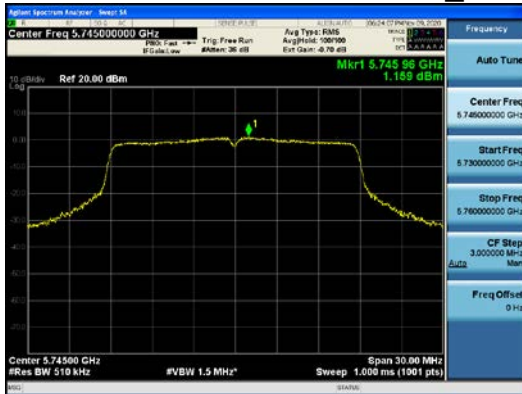


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(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
Tel: +82-31-339-9970  
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ANT1\_802.11n\_HT20\_UNII 2C

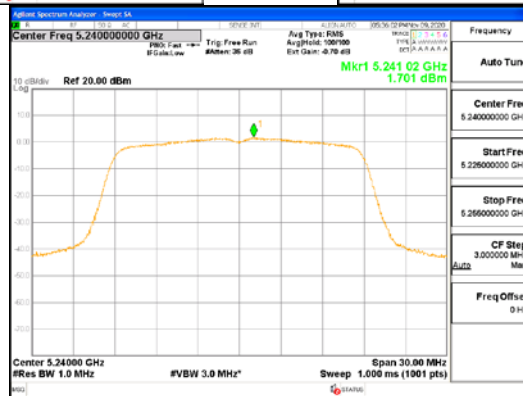
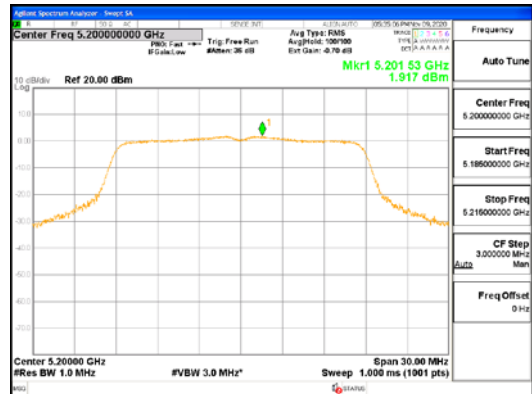
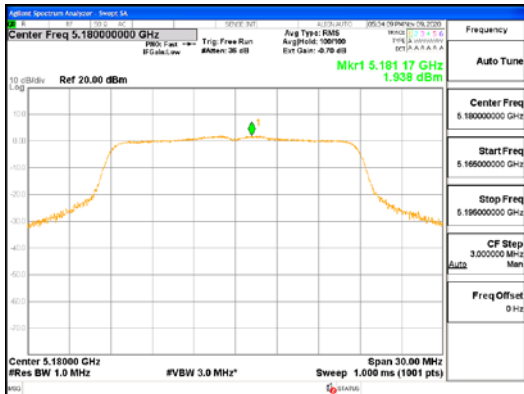


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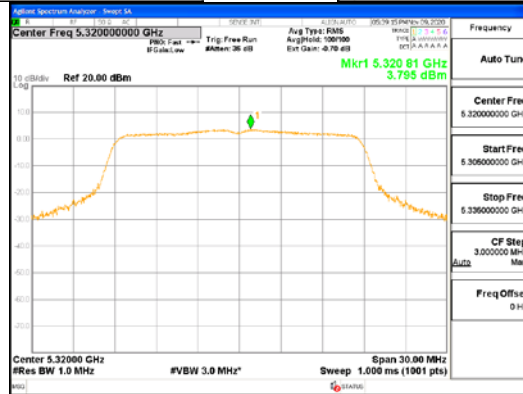
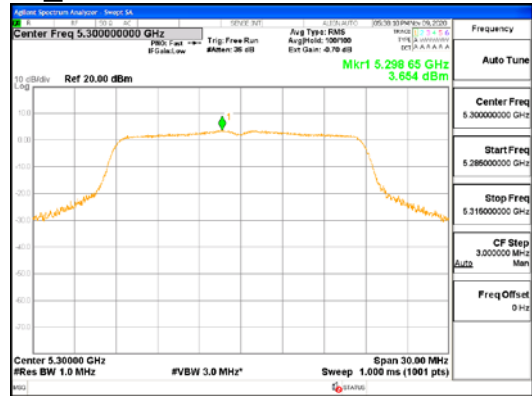
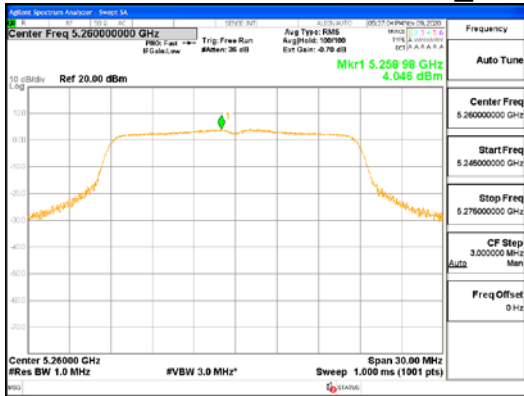


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 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT2\_802.11n\_HT20\_UNII 1**

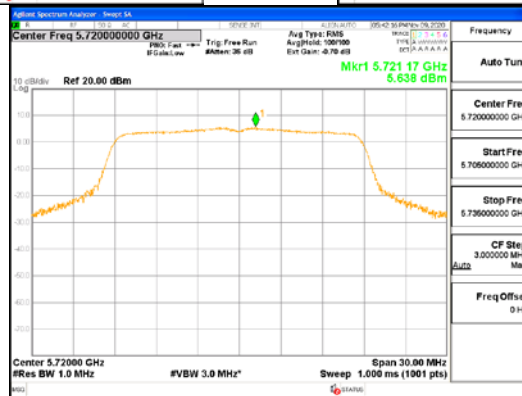
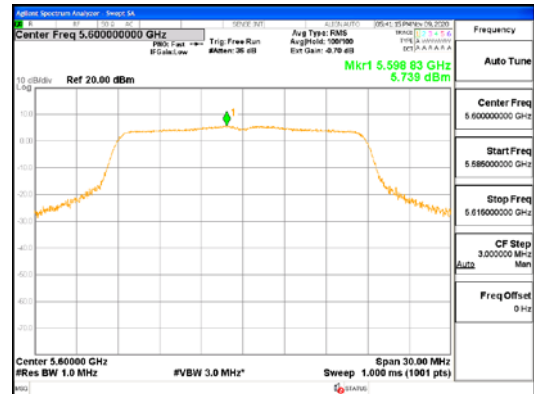
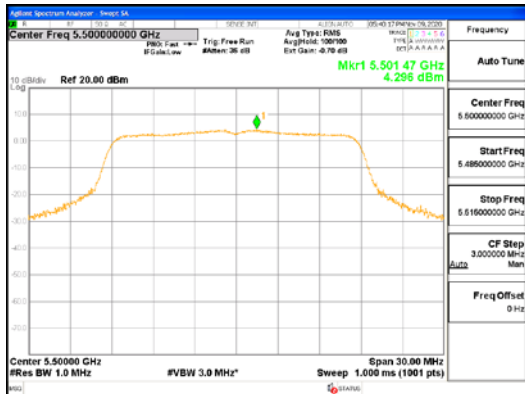


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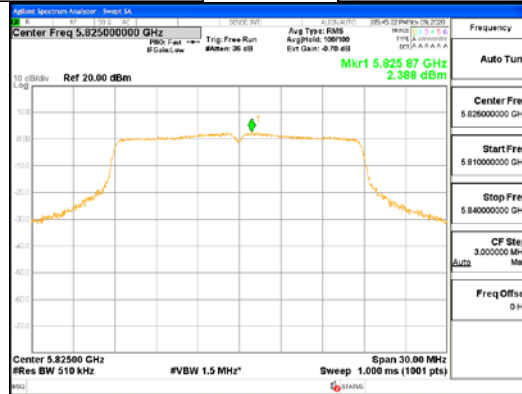
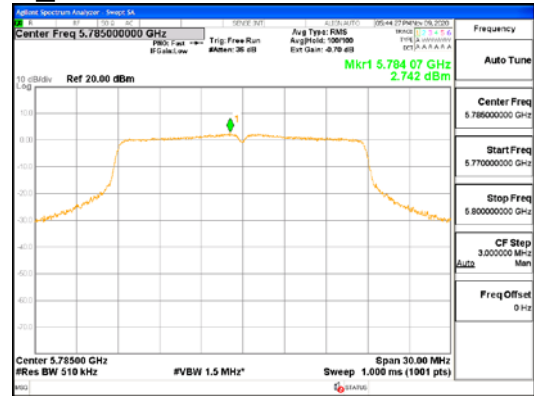
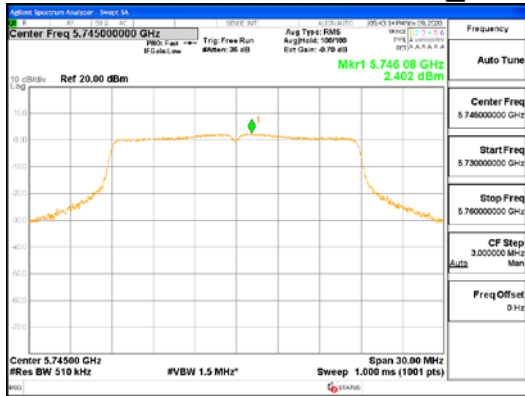


**CTK Co., Ltd.**  
(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
Tel: +82-31-339-9970  
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### ANT2\_802.11n\_HT20\_UNII 2C



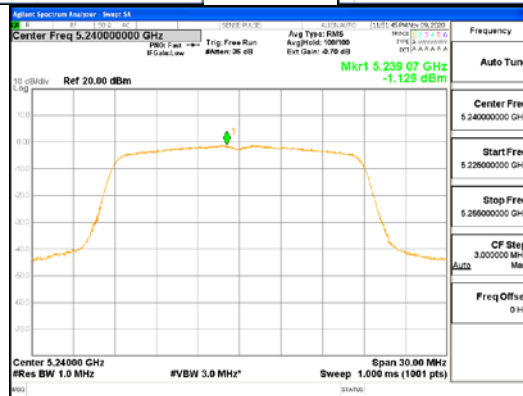
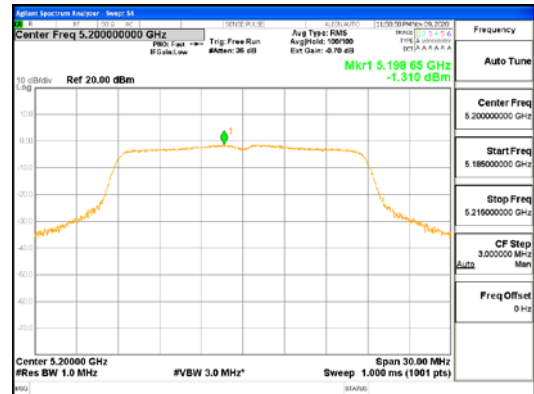
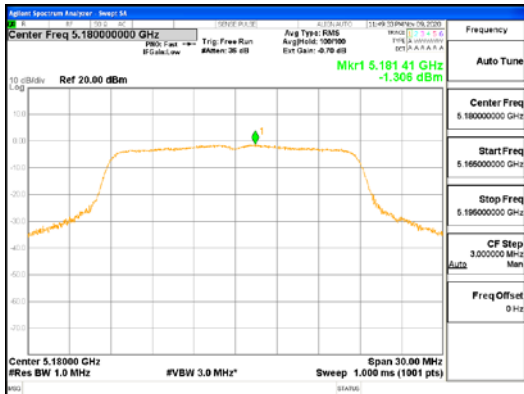
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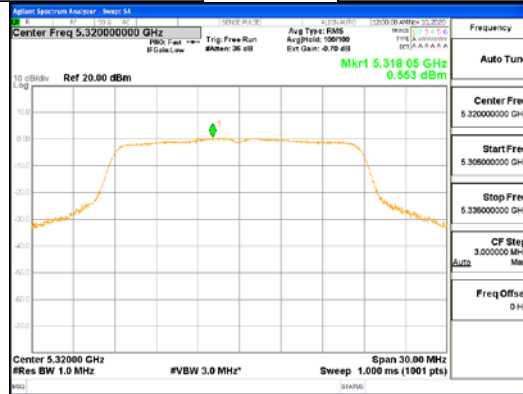
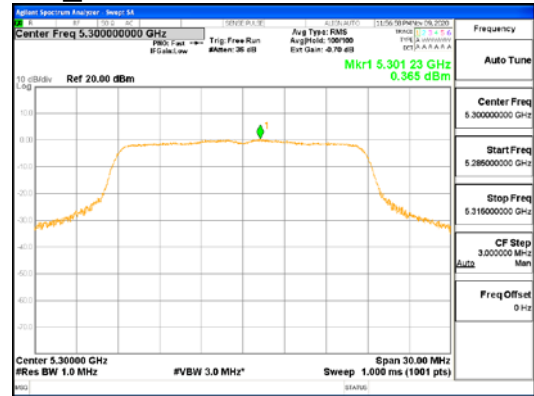
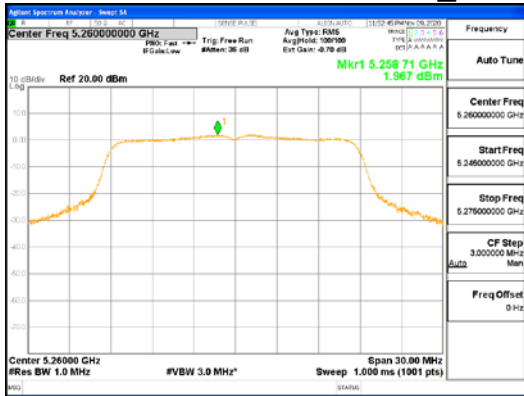


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT1\_802.11ac\_VHT20\_UNII 1**

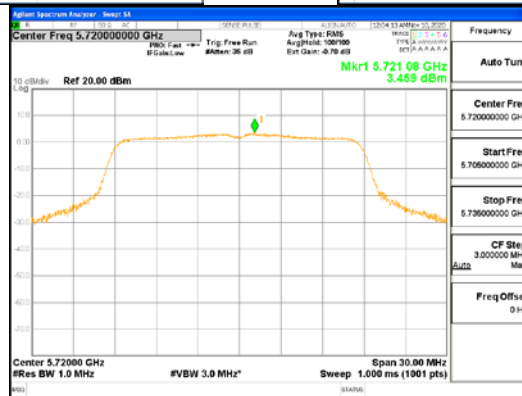
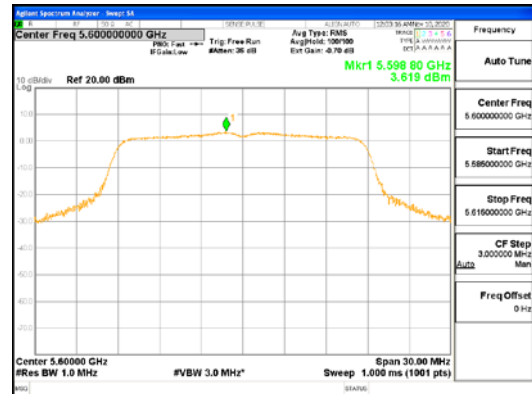
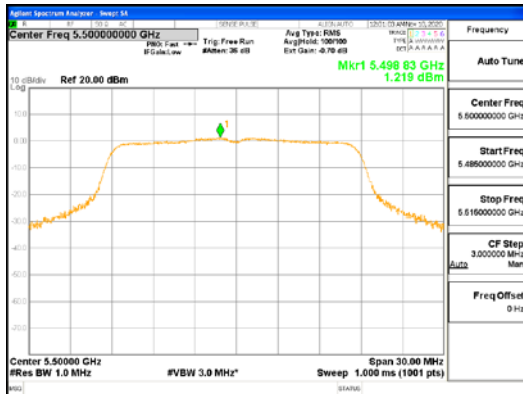


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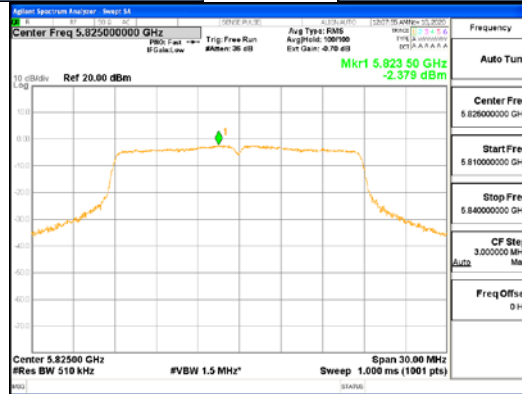
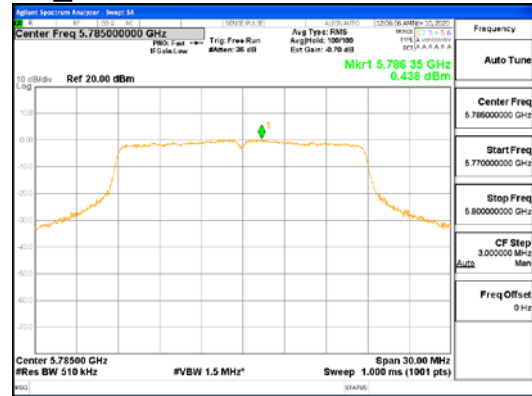
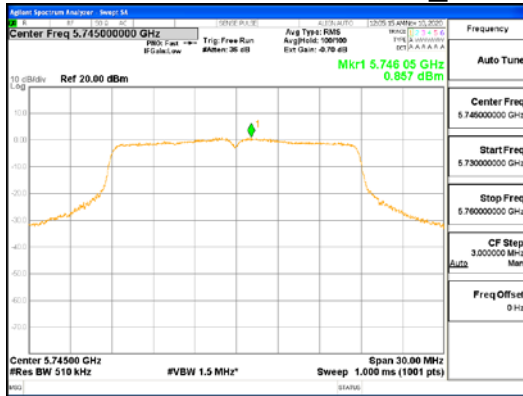


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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ANT1\_802.11ac\_VHT20\_UNII 2C

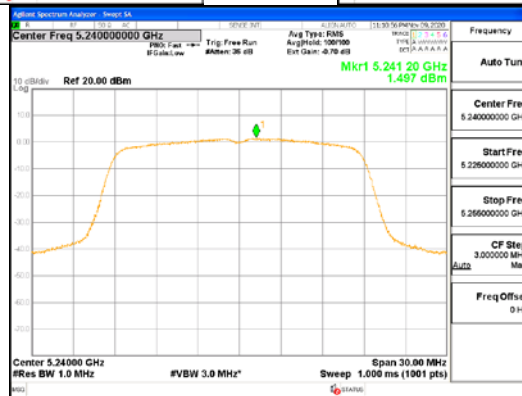
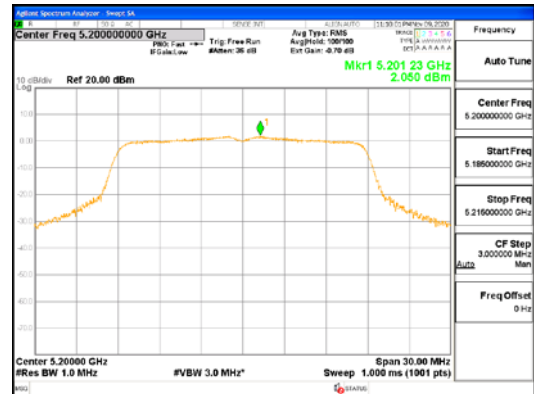
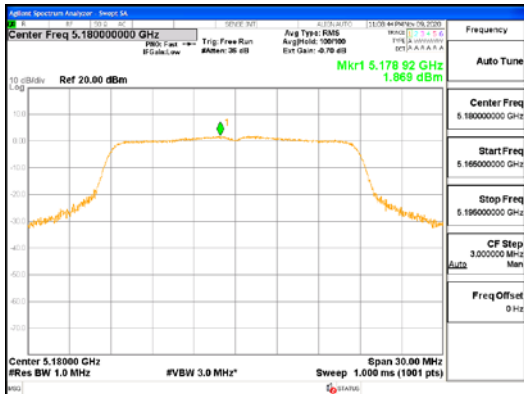


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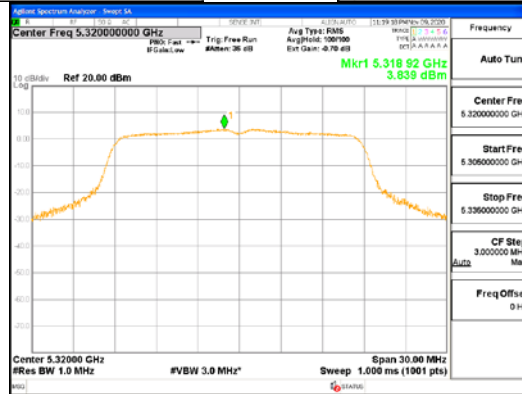
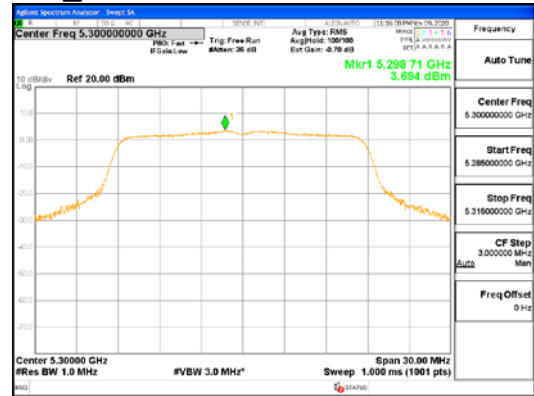
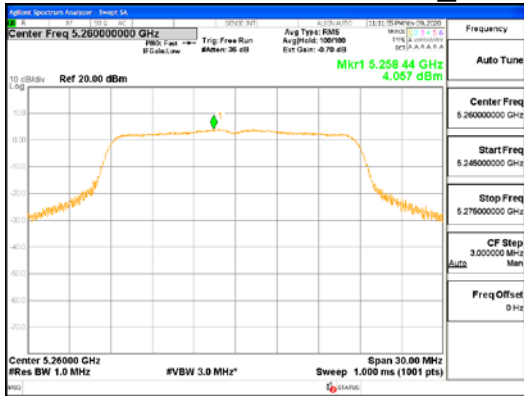


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT2\_802.11ac\_VHT20\_UNII 1**

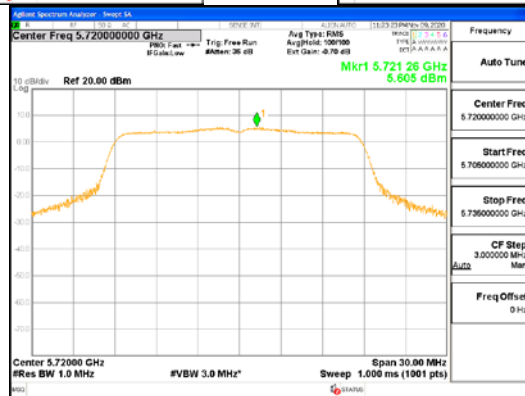
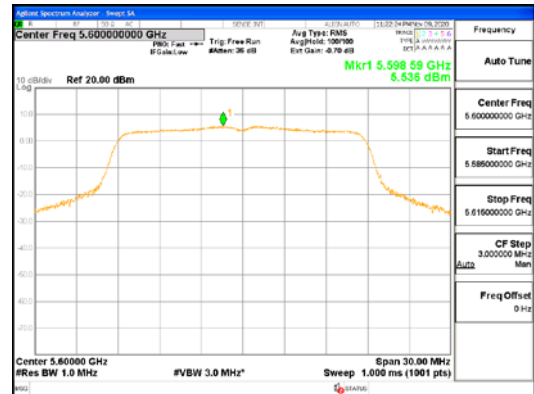
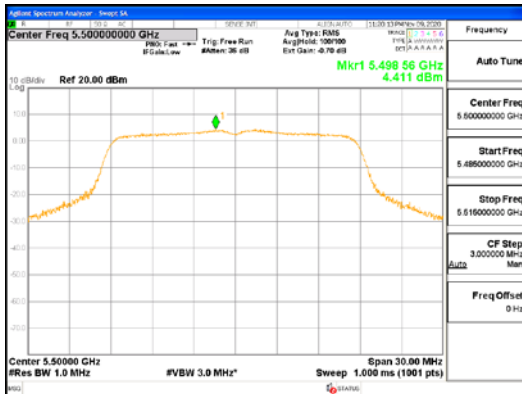


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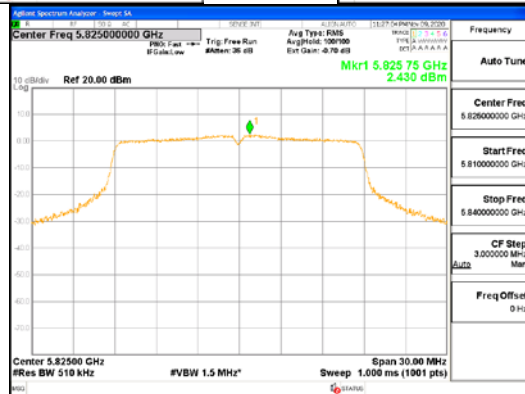
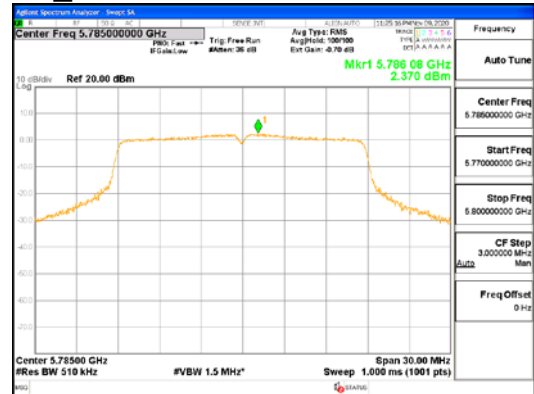
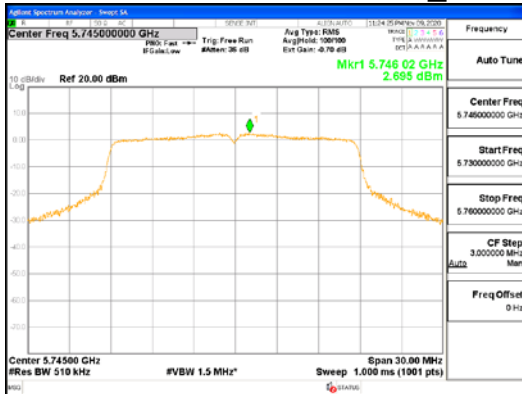


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT2\_802.11ac\_VHT20\_UNI1 2C**

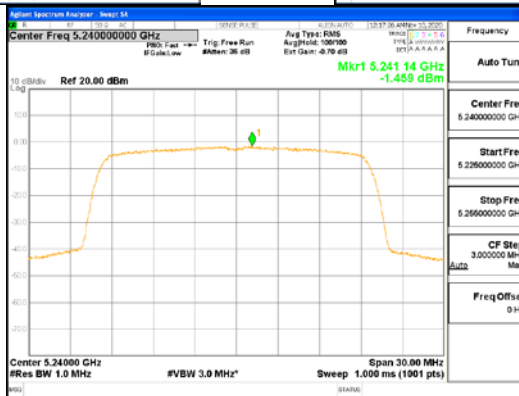
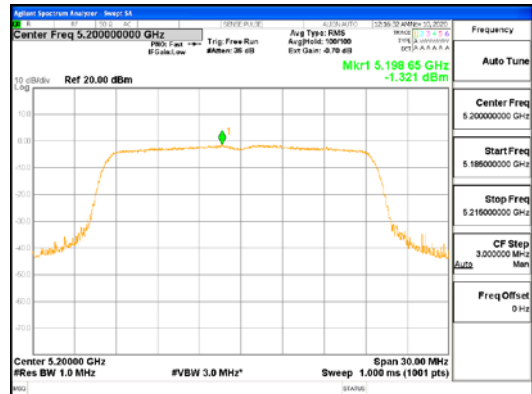
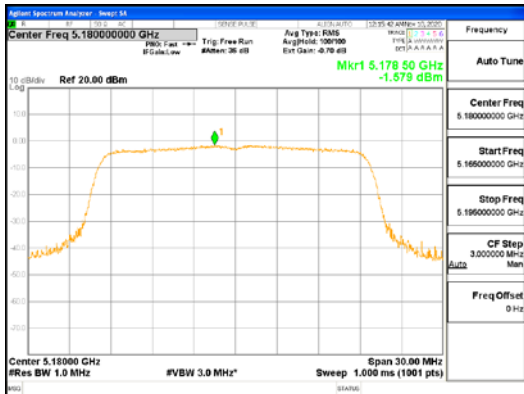


**ANT2\_802.11ac\_VHT20\_UNI1 3**

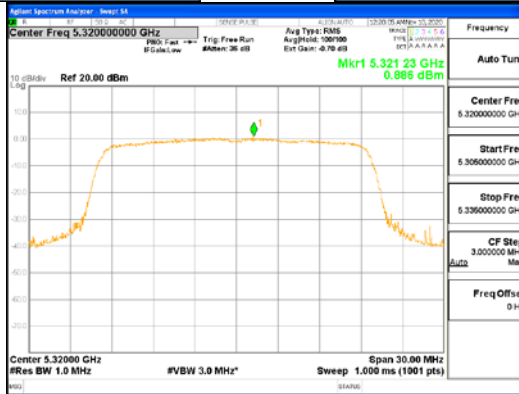
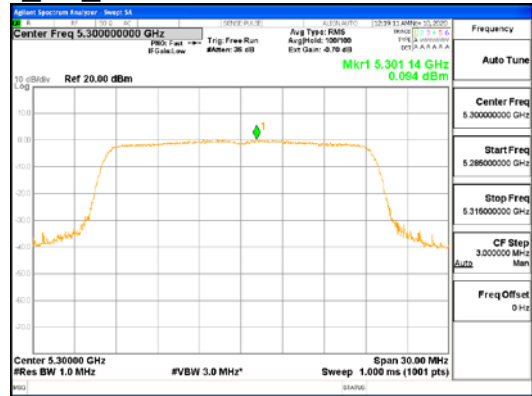
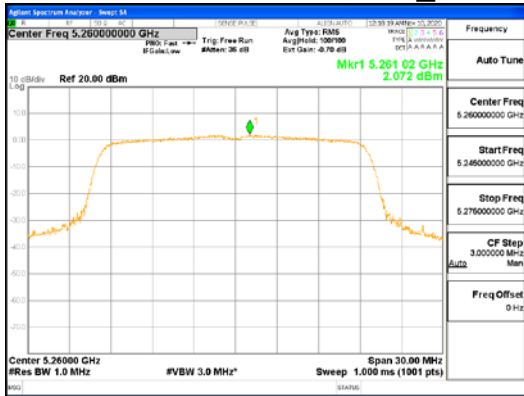


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

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ANT1\_802.11ax\_HE20\_SU\_UNI I 1

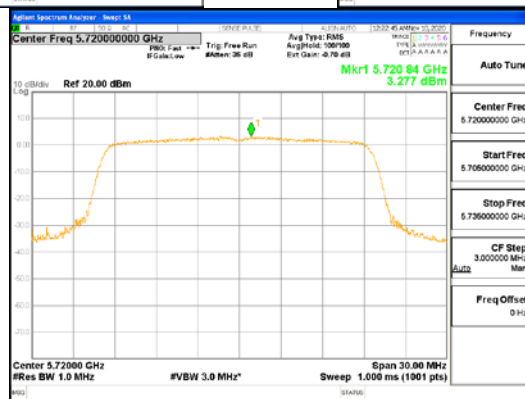
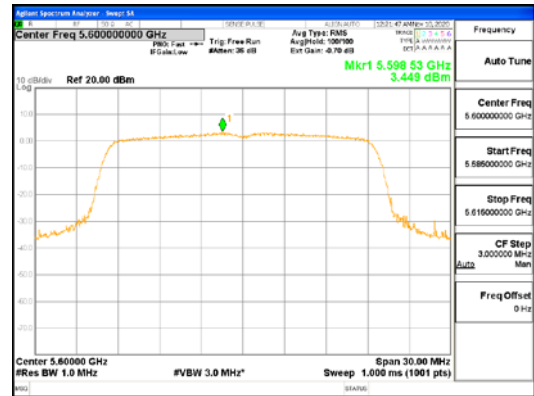
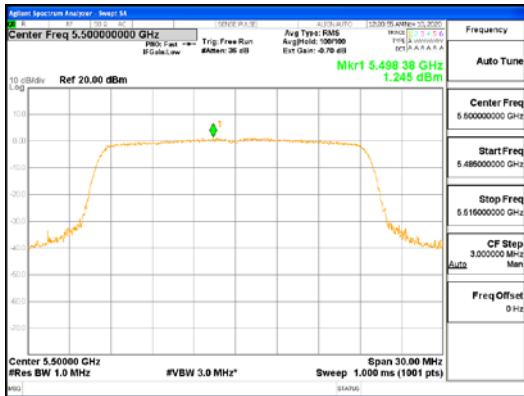


ANT1\_802.11ax\_HE20\_SU\_UNI I 2A

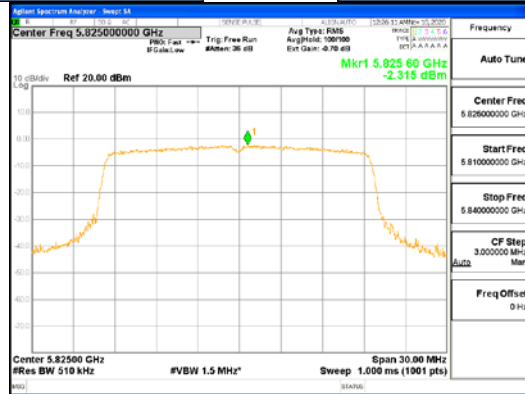
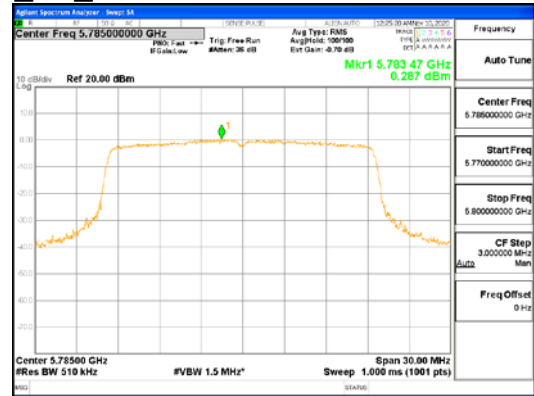
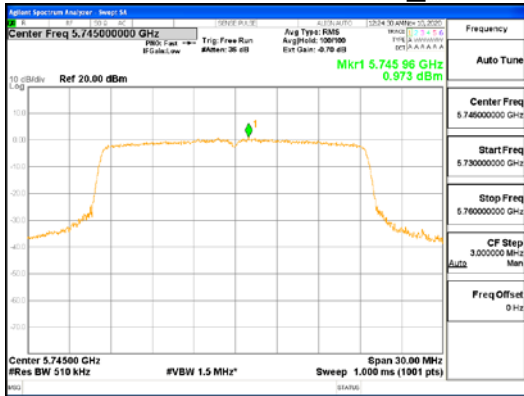


**CTK Co., Ltd.**  
(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
Tel: +82-31-339-9970  
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ANT1\_802.11ax\_HE20\_SU\_UNI1 2C

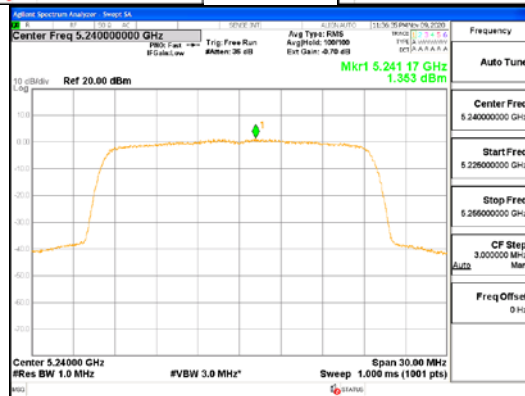
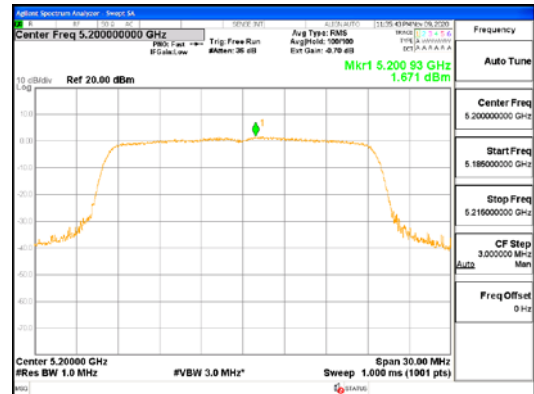
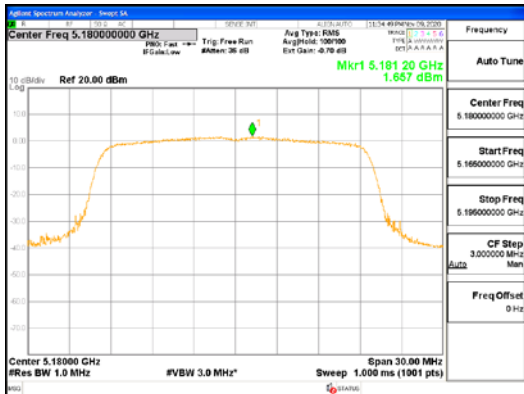


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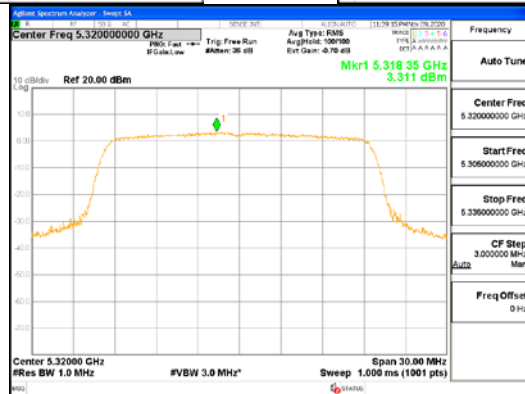
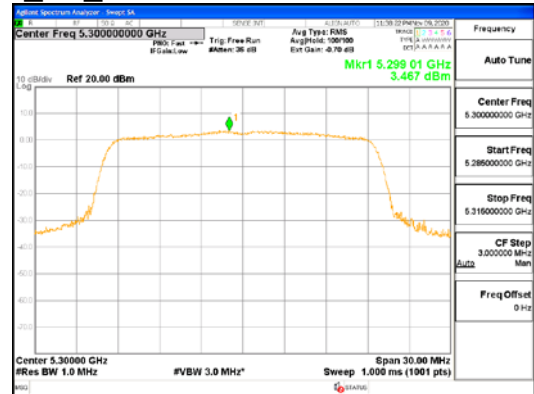
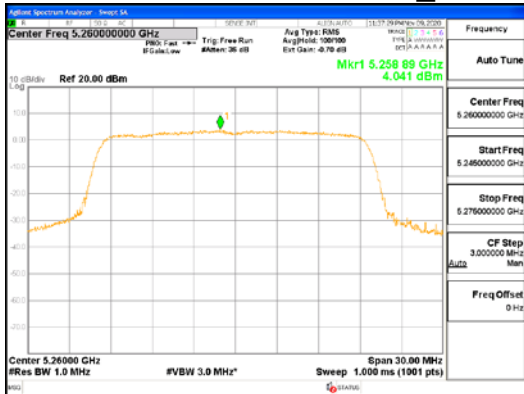


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
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**ANT2\_802.11ax\_HE20\_SU\_UNI 1**

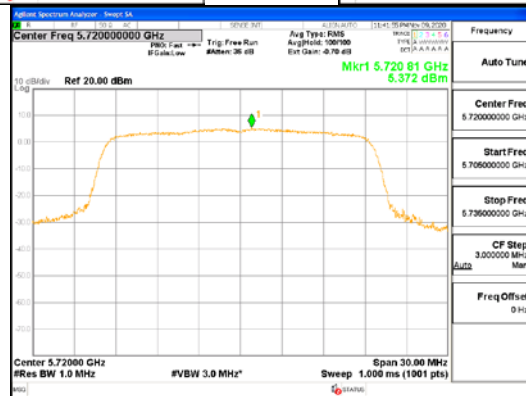
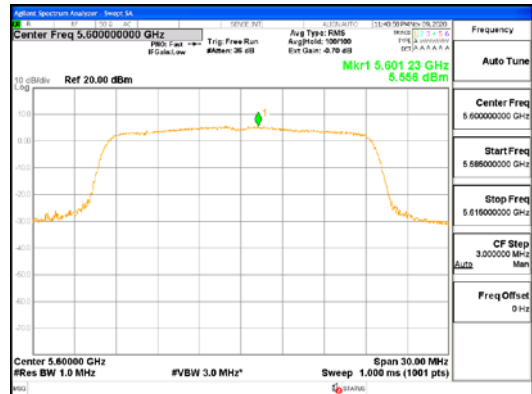
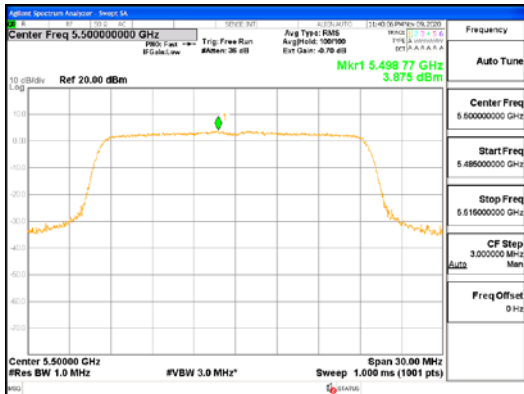


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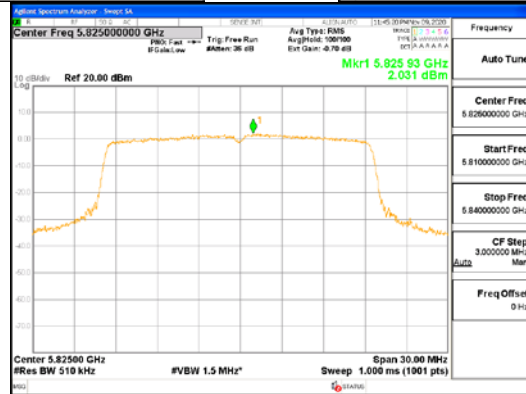
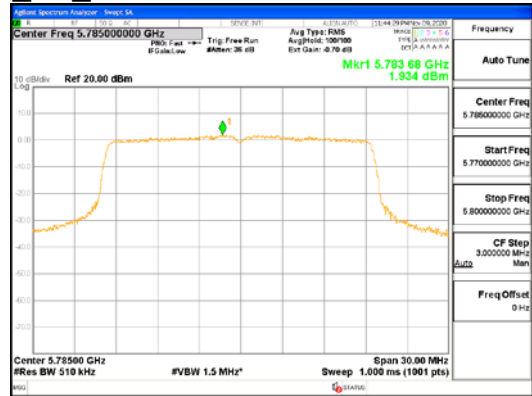
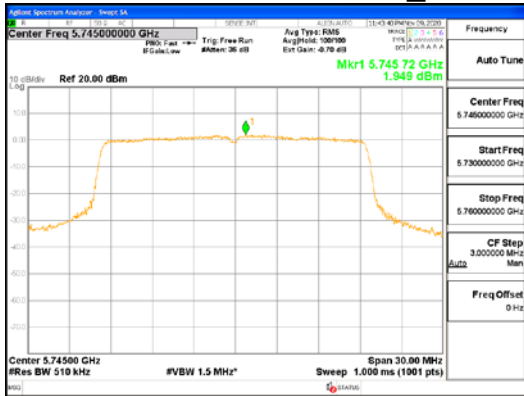


**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

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ANT2\_802.11ax\_HE20\_SU\_UNI1 2C



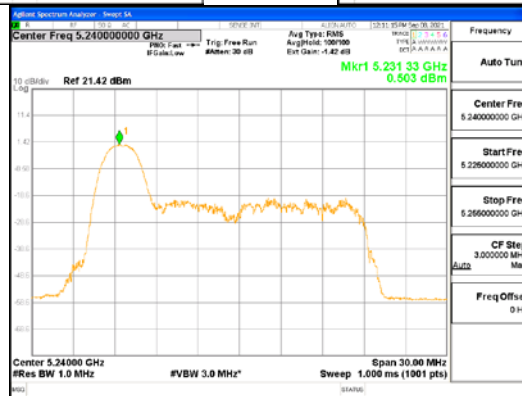
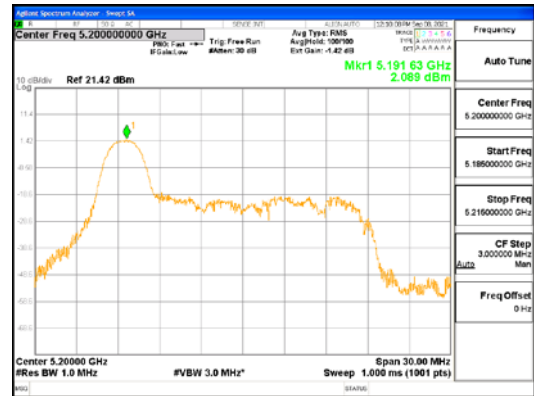
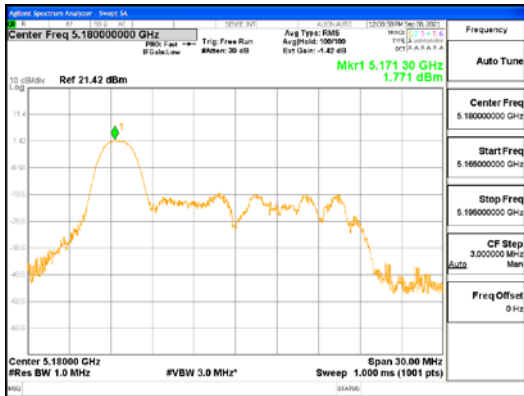
ANT2\_802.11ax\_HE20\_SU\_UNI1 3



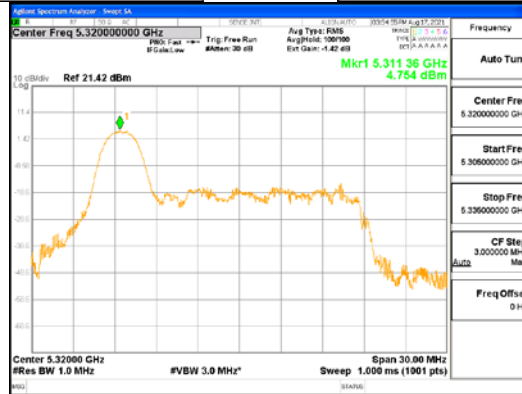
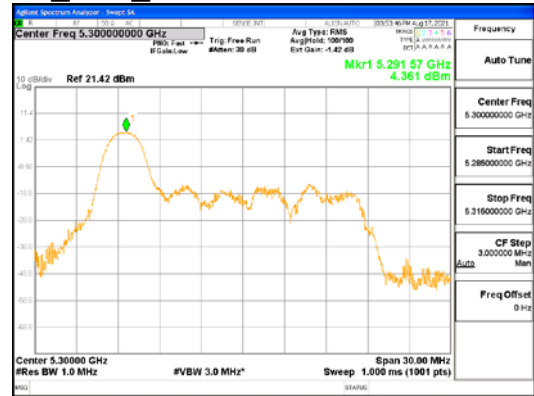
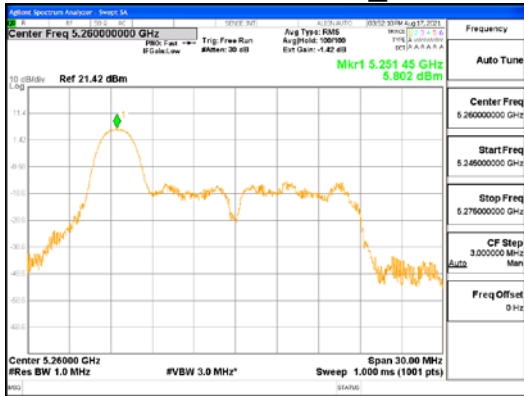


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

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ANT1\_802.11ax\_HE20\_26T\_Low\_UNII 1



ANT1\_802.11ax\_HE20\_26T\_Low\_UNII 2A