

Appendix B: Test Results of Wi-Fi 802.11 b/g/n

APPENDIX B: TEST RESULTS OF WI-FI 802.11 B/G/N.....	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	3
Wi-Fi 802.11 b mode, 1 Mbps.....	4
Wi-Fi 802.11 g mode, 6 Mbps.....	5
Wi-Fi 802.11 n(HT20) mode, MCS0.....	6
Wi-Fi 802.11 n(HT40) mode, MCS0.....	7
Wi-Fi 802.11 b mode, 1 Mbps.....	9
Wi-Fi 802.11 g mode, 6 Mbps.....	10
Wi-Fi 802.11 n(HT20) mode, MCS0.....	11
Wi-Fi 802.11 n(HT40) mode, MCS0.....	12
APPENDIX B.2: TEST RESULTS OF 6dB BANDWIDTH	13
Wi-Fi 802.11 b mode, 1 Mbps.....	14
Wi-Fi 802.11 g mode, 6 Mbps.....	15
Wi-Fi 802.11 n(HT20) mode, MCS0.....	16
Wi-Fi 802.11 n(HT40) mode, MCS0.....	17
Wi-Fi 802.11 b mode, 1 Mbps.....	19
Wi-Fi 802.11 g mode, 6 Mbps.....	20
Wi-Fi 802.11 n(HT20) mode, MCS0.....	21
Wi-Fi 802.11 n(HT40) mode, MCS0.....	22
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH.....	23
Wi-Fi 802.11 b mode, 1 Mbps.....	24
Wi-Fi 802.11 g mode, 6 Mbps.....	25
Wi-Fi 802.11 n(HT20) mode, MCS0.....	26
Wi-Fi 802.11 n(HT40) mode, MCS0.....	27
Wi-Fi 802.11 b mode, 1 Mbps.....	29
Wi-Fi 802.11 g mode, 6 Mbps.....	30
Wi-Fi 802.11 n(HT20) mode, MCS0.....	31
Wi-Fi 802.11 n(HT40) mode, MCS0.....	32
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH.....	33
Wi-Fi 802.11 b mode, 1 Mbps.....	33
Wi-Fi 802.11 g mode, 6 Mbps.....	36
Wi-Fi 802.11 n(HT20) mode, MCS0.....	39
Wi-Fi 802.11 n(HT40) mode, MCS0.....	42
Wi-Fi 802.11 b mode, Band Edge	45
Wi-Fi 802.11 g mode, Band Edge	46
Wi-Fi 802.11 n(HT20) mode, Band Edge.....	47
Wi-Fi 802.11 n(HT40) mode, Band Edge.....	48
Wi-Fi 802.11 b mode, 1 Mbps.....	49
Wi-Fi 802.11 g mode, 6 Mbps.....	52
Wi-Fi 802.11 n(HT20) mode, MCS0.....	55
Wi-Fi 802.11 n(HT40) mode, MCS0.....	58
Wi-Fi 802.11 b mode, Band Edge	61
Wi-Fi 802.11 g mode, Band Edge	62
Wi-Fi 802.11 n(HT20) mode, Band Edge.....	63
Wi-Fi 802.11 n(HT40) mode, Band Edge.....	64
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	65
30MHz - 1GHz (Worst case).....	65
1GHz - 18GHz.....	73
APPENDIX B.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	121
Wi-Fi 802.11 b mode, 1 Mbps.....	121
Wi-Fi 802.11 g mode, 6 Mbps.....	125

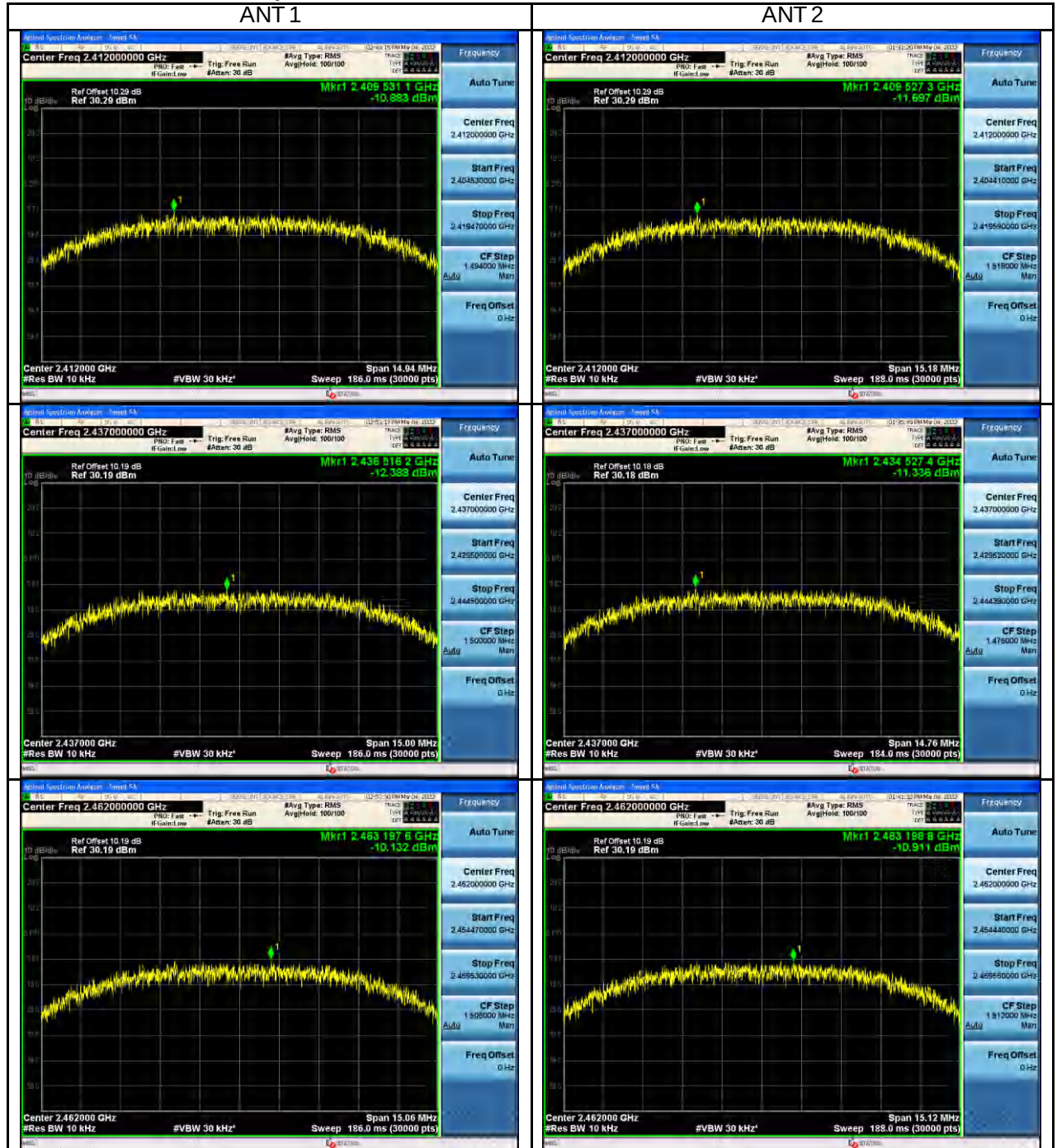
<i>Wi-Fi 802.11 n(HT20) mode, MCS0</i>	<i>129</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0</i>	<i>133</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps</i>	<i>137</i>
<i>Wi-Fi 802.11 g mode, 6 Mbps</i>	<i>141</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0</i>	<i>145</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0</i>	<i>149</i>
APPENDIX B.7: TEST RESULTS OF CONDUCTED EMISSION	153

Appendix B.1: Test Results of Conducted Power Spectral Density

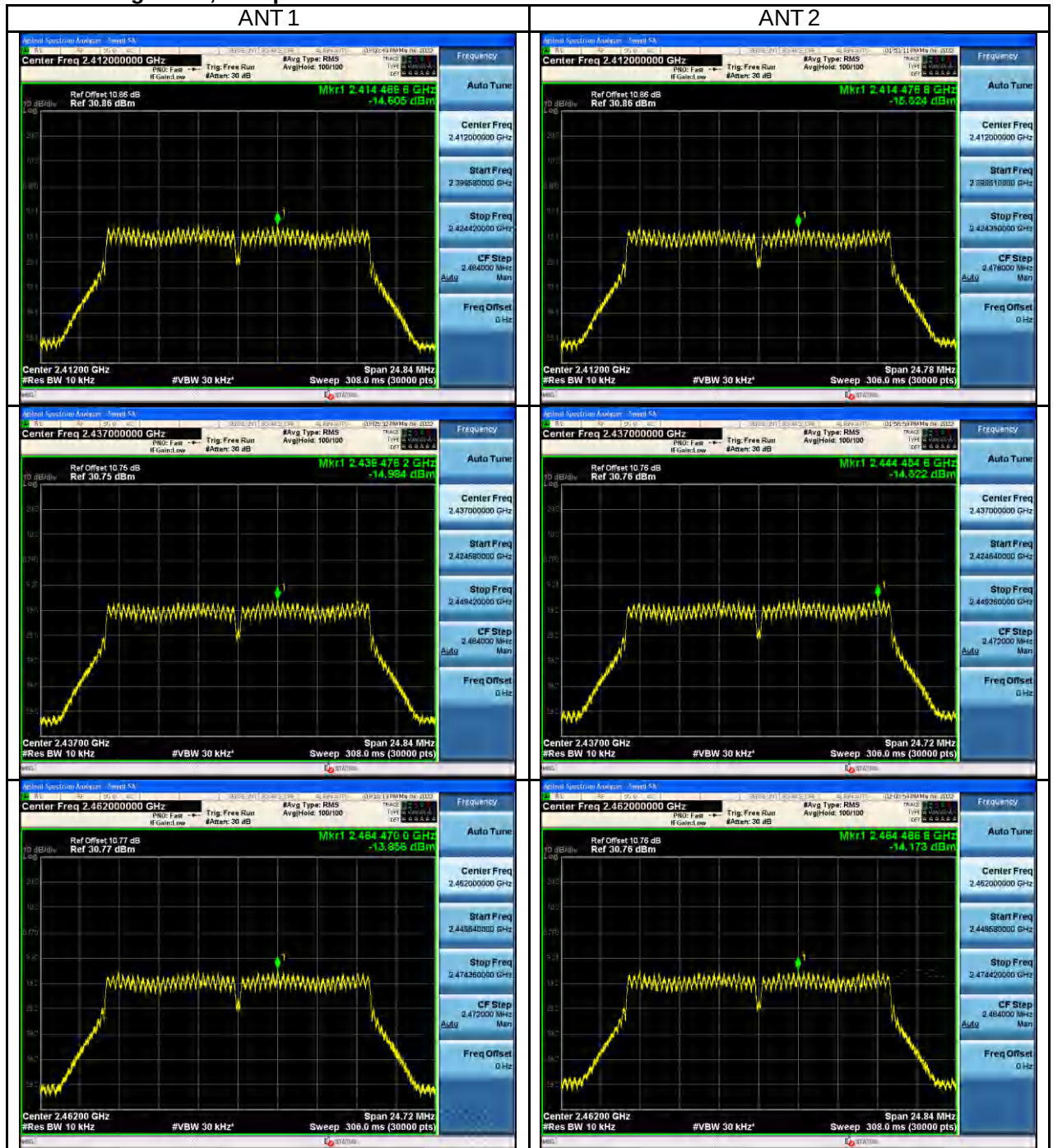
Wi-Fi Module 1 (model: nxp8997):

Test Mode	Data Rate	Test Channel (MHz)	Measured Conducted Power Spectral Density(dBm)		Limit (dBm/3kHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	-10.883	-11.697	< 8.0
		2437	-12.388	-11.336	
		2462	-10.132	-10.911	
802.11g	6 Mbps	2412	-14.605	-15.524	
		2437	-14.984	-14.522	
		2462	-13.856	-14.173	
802.11n (HT20)	MCS0	2412	-20.787	-22.024	
		2437	-15.420	-14.558	
		2462	-21.418	-21.857	
802.11n (HT40)	MCS0	2422	-26.443	-26.646	
		2437	-16.999	-16.437	
		2452	-26.200	-26.929	
Maximum Measured Value			-10.132	-10.911	

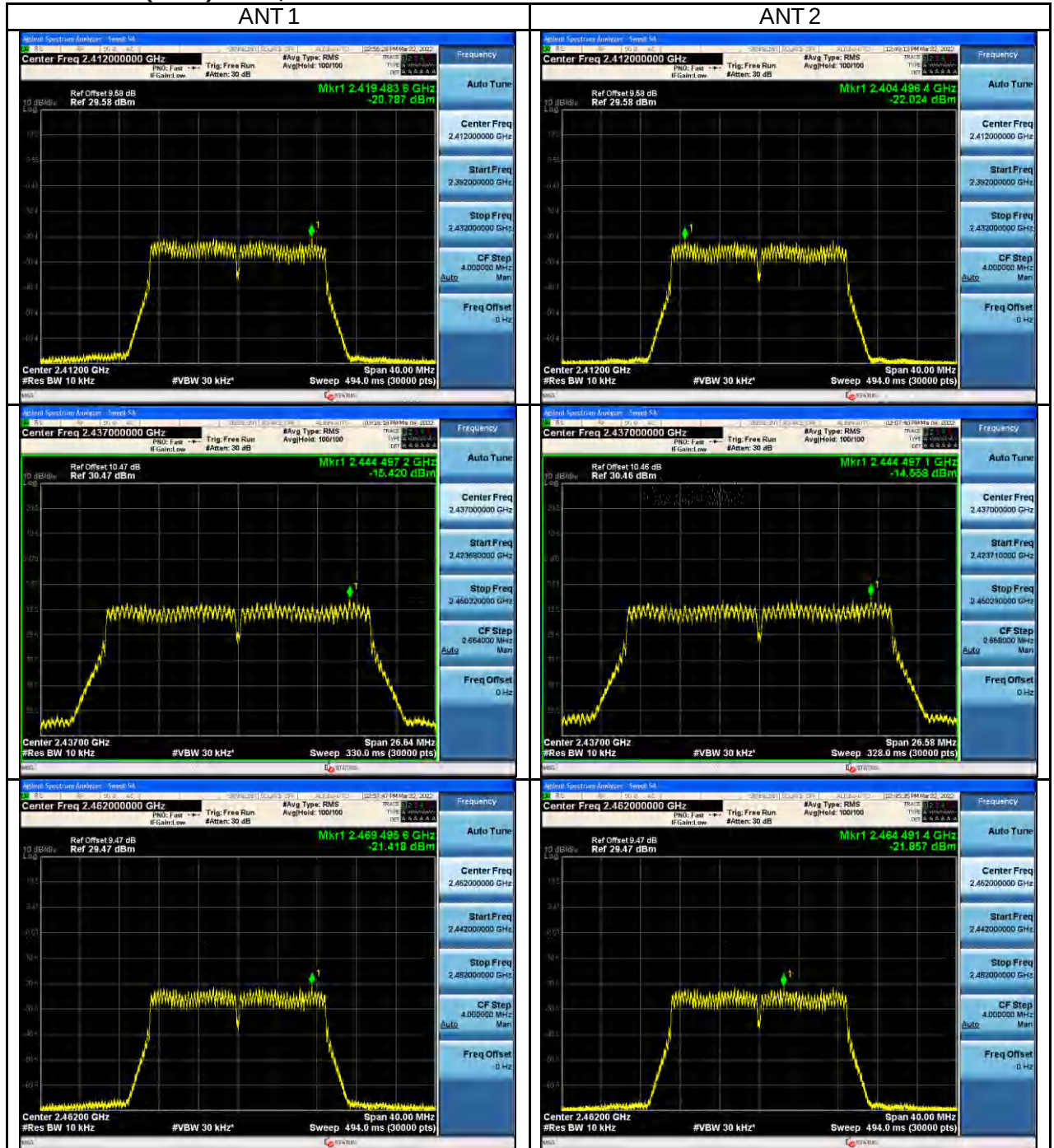
Wi-Fi 802.11 b mode, 1 Mbps



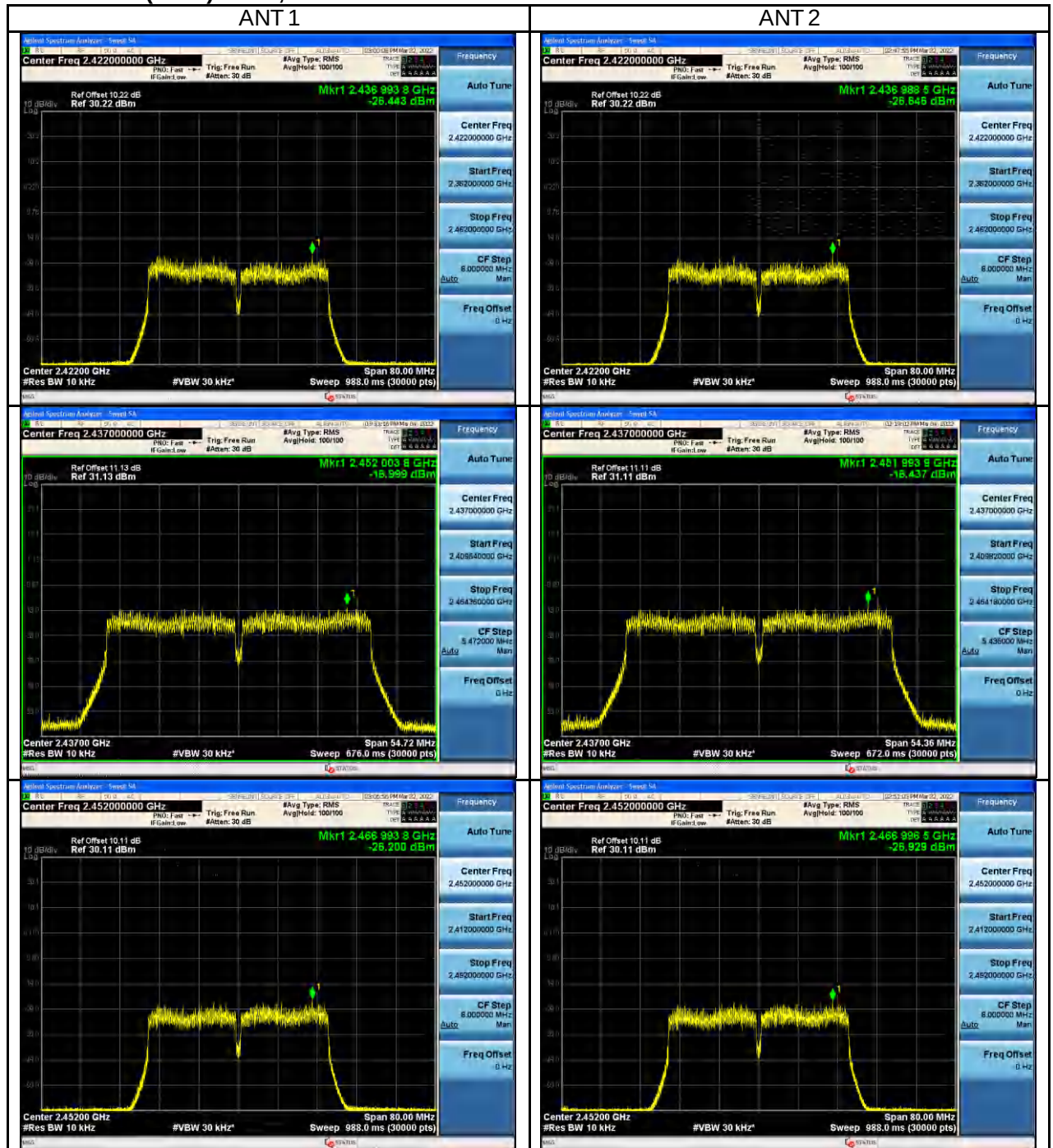
Wi-Fi 802.11 g mode, 6 Mbps



Wi-Fi 802.11 n(HT20) mode, MCS0



Wi-Fi 802.11 n(HT40) mode, MCS0

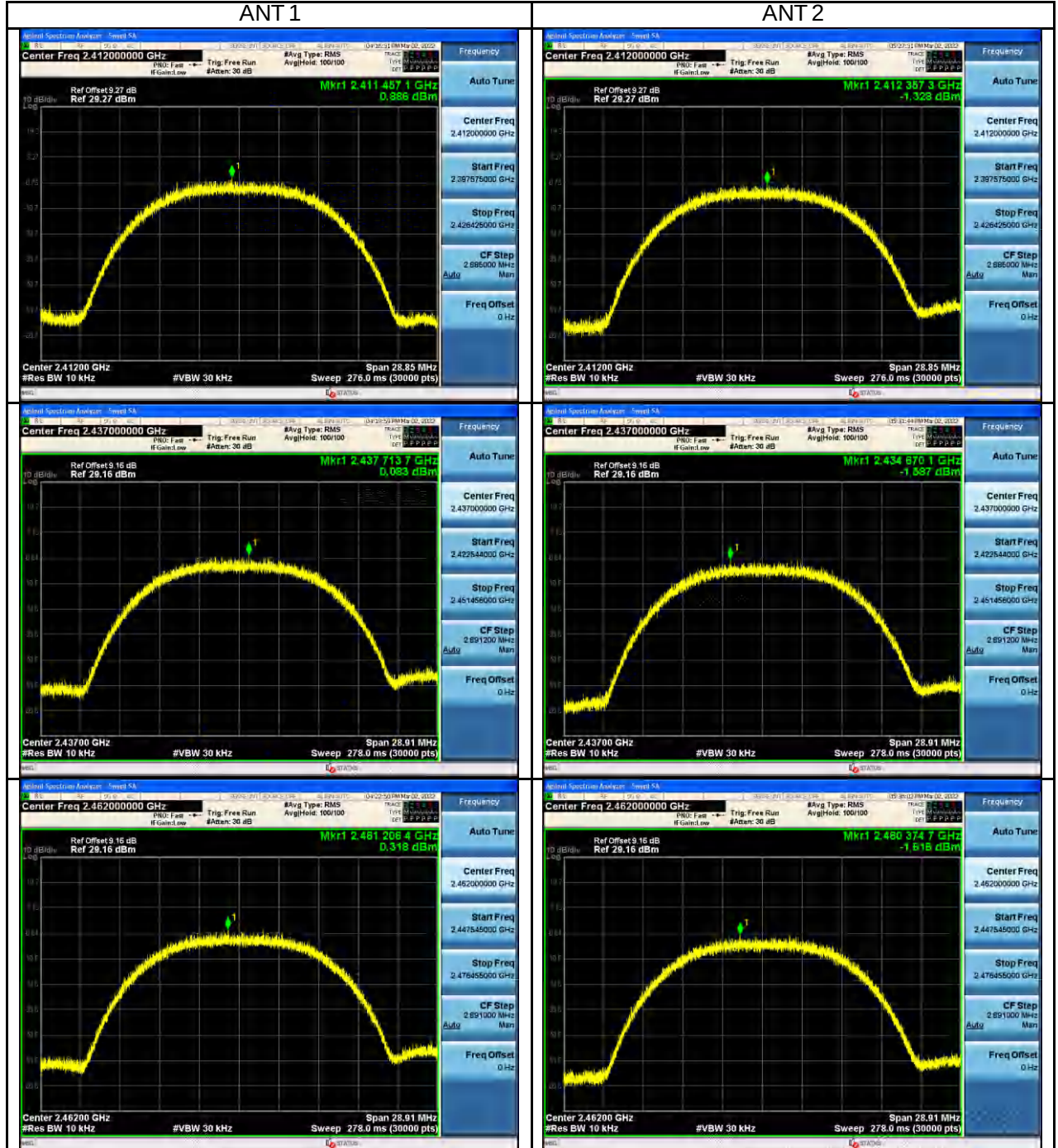


Wi-Fi Module 2: (model: 8812 CU)

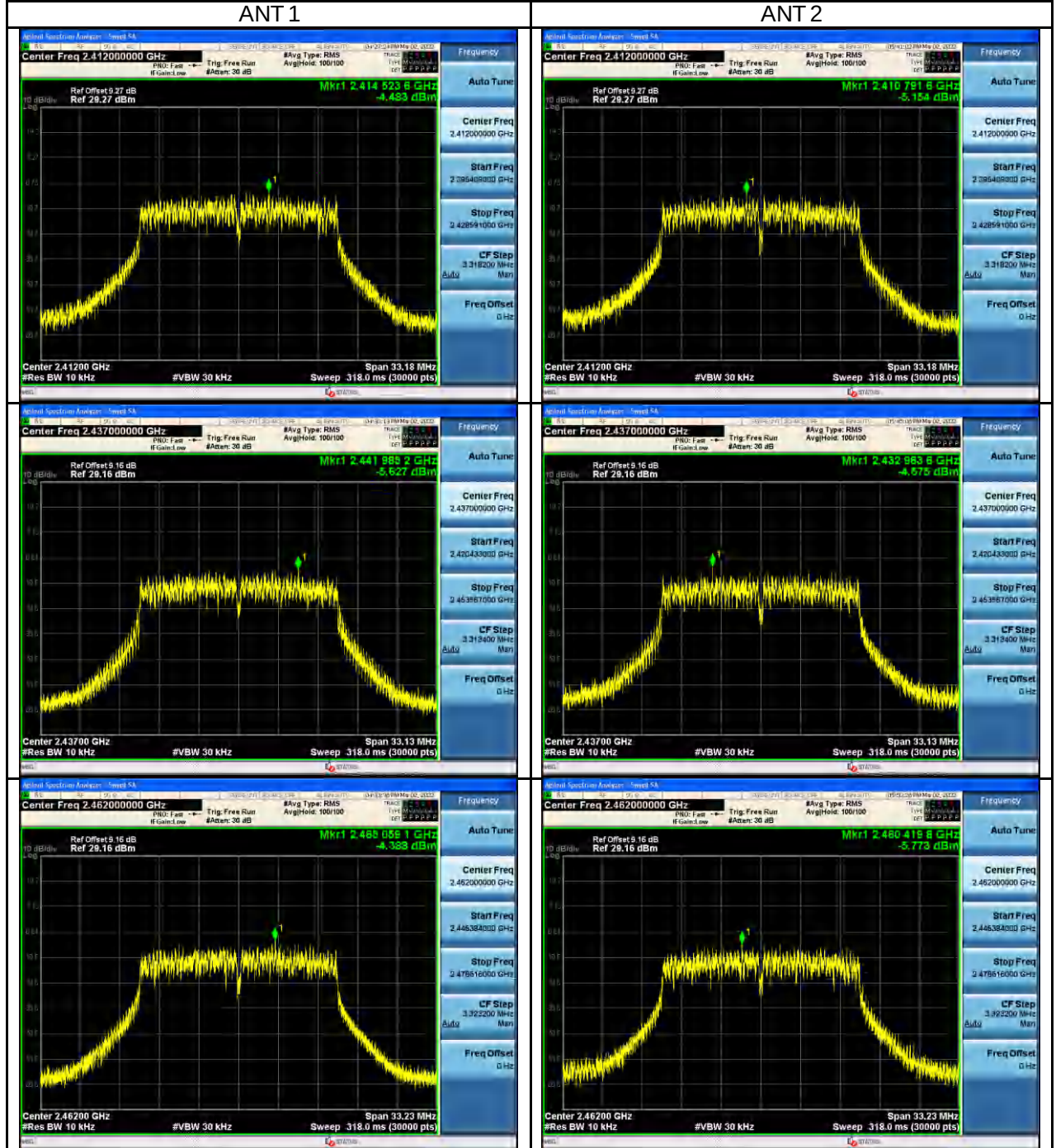
Test Mode	Data Rate	Test Channel (MHz)	Measured Conducted Power Spectral Density(dBm)		Limit (dBm/3kHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	0.886	-1.328	< 8.0
		2437	0.083	-1.587	
		2462	0.318	-1.616	
802.11g	6 Mbps	2412	-4.483	-5.154	
		2437	-5.627	-4.575	
		2462	-4.388	-5.773	
Maximum Measured Value			0.886	-1.328	

Test Mode	Data Rate	Test Channel (MHz)	Measured Conducted Power Spectral Density(dBm)			Limit (dBm/3kHz)
			ANT1	ANT2	ANT1+ANT2	
802.11n (HT20)	MCS0	2412	-5.104	-6.163	-2.591	< 8.0
		2437	-6.863	-6.834	-3.838	
		2462	-6.441	-5.614	-2.998	
802.11n (HT40)	MCS0	2422	-8.840	-9.012	-5.915	
		2437	-9.364	-10.176	-6.741	
		2452	-8.983	-8.986	-5.974	
Maximum Measured Value			-5.104	-5.614	-2.591	

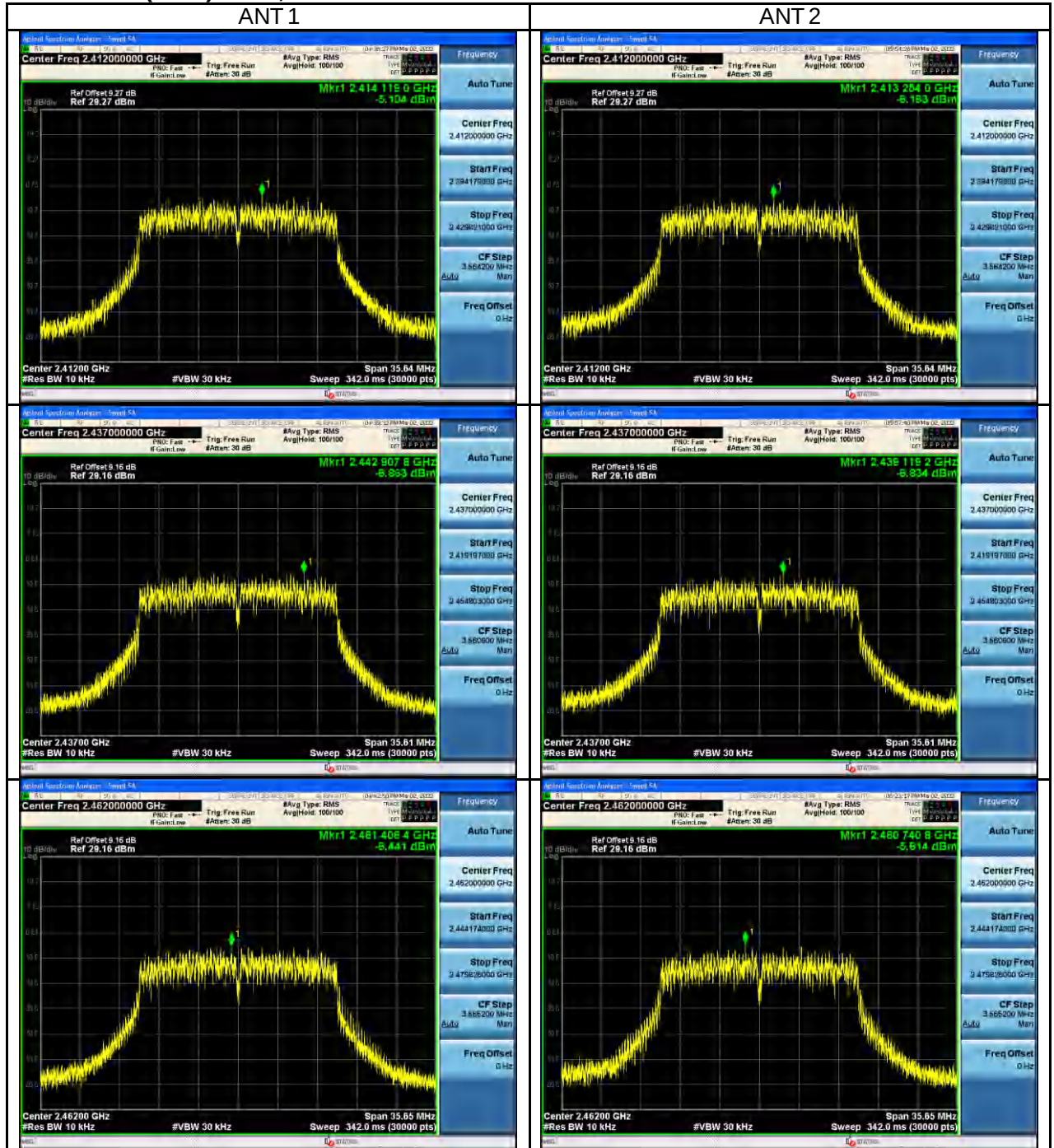
Wi-Fi 802.11 b mode, 1 Mbps



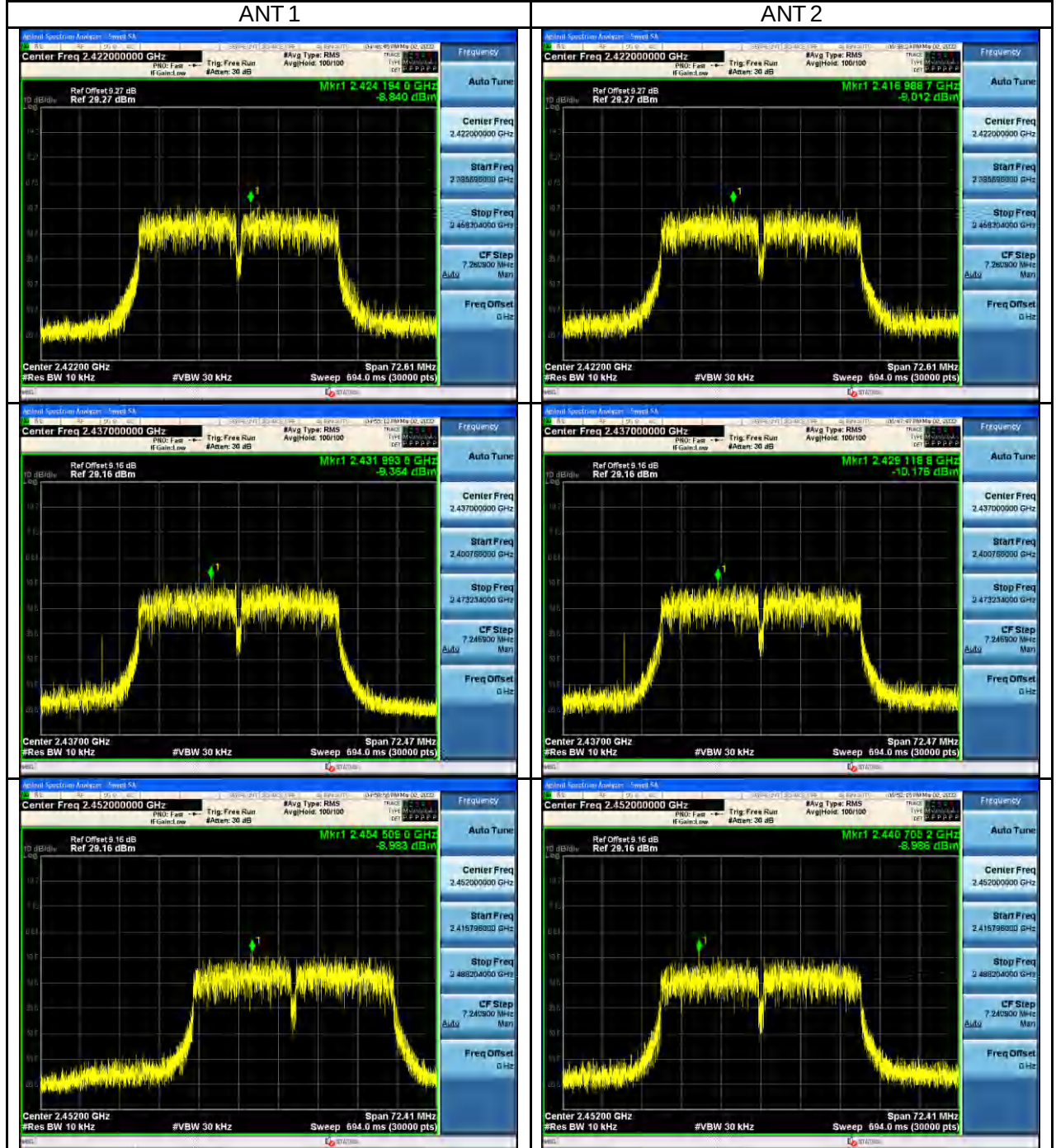
Wi-Fi 802.11 g mode, 6 Mbps



Wi-Fi 802.11 n(HT20) mode, MCS0



Wi-Fi 802.11 n(HT40) mode, MCS0



Appendix B.2: Test Results of 6dB Bandwidth

Wi-Fi Module 1 (model: nxp8997):

Test Mode	Data Rate	Test Channel (MHz)	6dB Bandwidth (MHz)		Limit (kHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	9.960	10.120	> 500
		2437	10.000	9.840	
		2462	10.040	10.080	
802.11g	6 Mbps	2412	16.560	16.520	
		2437	16.560	16.480	
		2462	16.480	16.560	
802.11n (HT20)	MCS0	2412	17.680	17.760	
		2437	17.760	17.720	
		2462	17.760	17.760	
802.11n (HT40)	MCS0	2422	36.400	36.240	
		2437	36.480	36.240	
		2452	36.160	36.160	

Wi-Fi 802.11 b mode, 1 Mbps

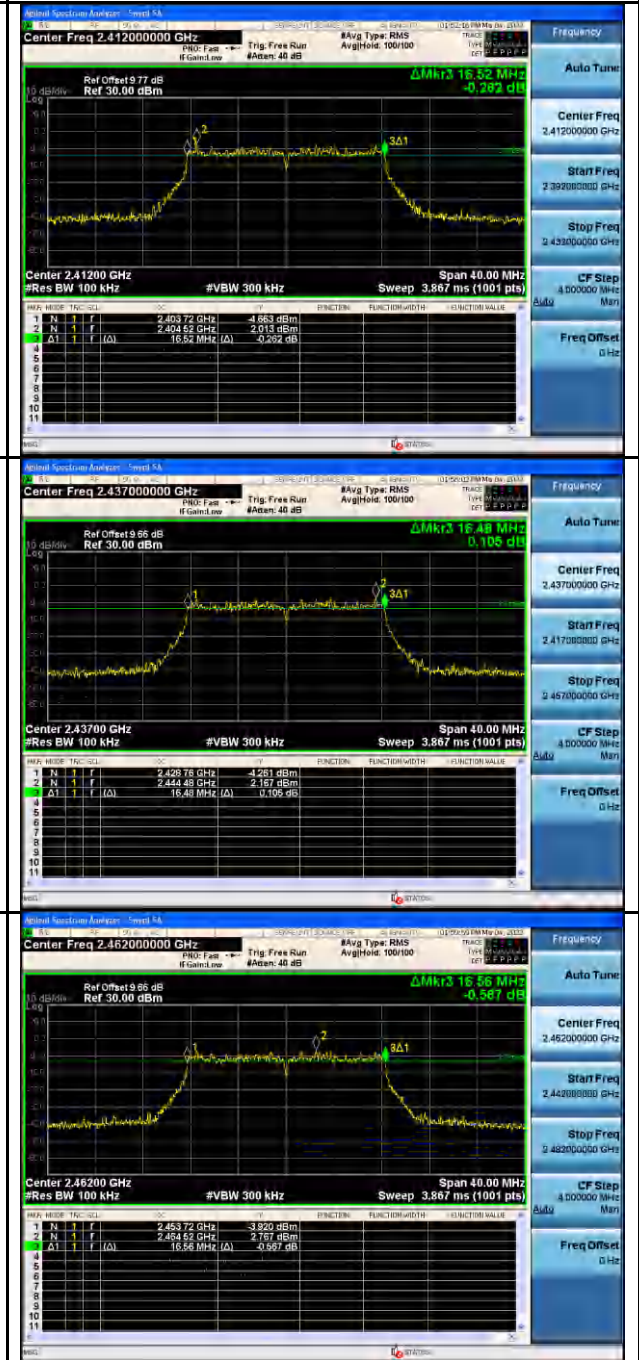


Wi-Fi 802.11 g mode, 6 Mbps

ANT 1



ANT 2



Wi-Fi 802.11 n(HT20) mode, MCS0

ANT 1



ANT 2



Wi-Fi 802.11 n(HT40) mode, MCS0

ANT 1



ANT 2



Wi-Fi Module 2: (model: 8812 CU)

Test Mode	Data Rate	Test Channel (MHz)	6dB Bandwidth (MHz)		Limit (kHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	10.120	10.560	> 500
		2437	11.120	9.720	
		2462	10.280	11.160	
802.11g	6 Mbps	2412	15.520	16.520	
		2437	16.400	16.280	
		2462	16.440	15.400	
802.11n (HT20)	MCS0	2412	17.080	17.240	
		2437	15.580	17.000	
		2462	17.640	17.320	
802.11n (HT40)	MCS0	2422	34.240	34.560	
		2437	35.280	35.600	
		2452	35.200	35.200	

Wi-Fi 802.11 b mode, 1 Mbps



Wi-Fi 802.11 g mode, 6 Mbps

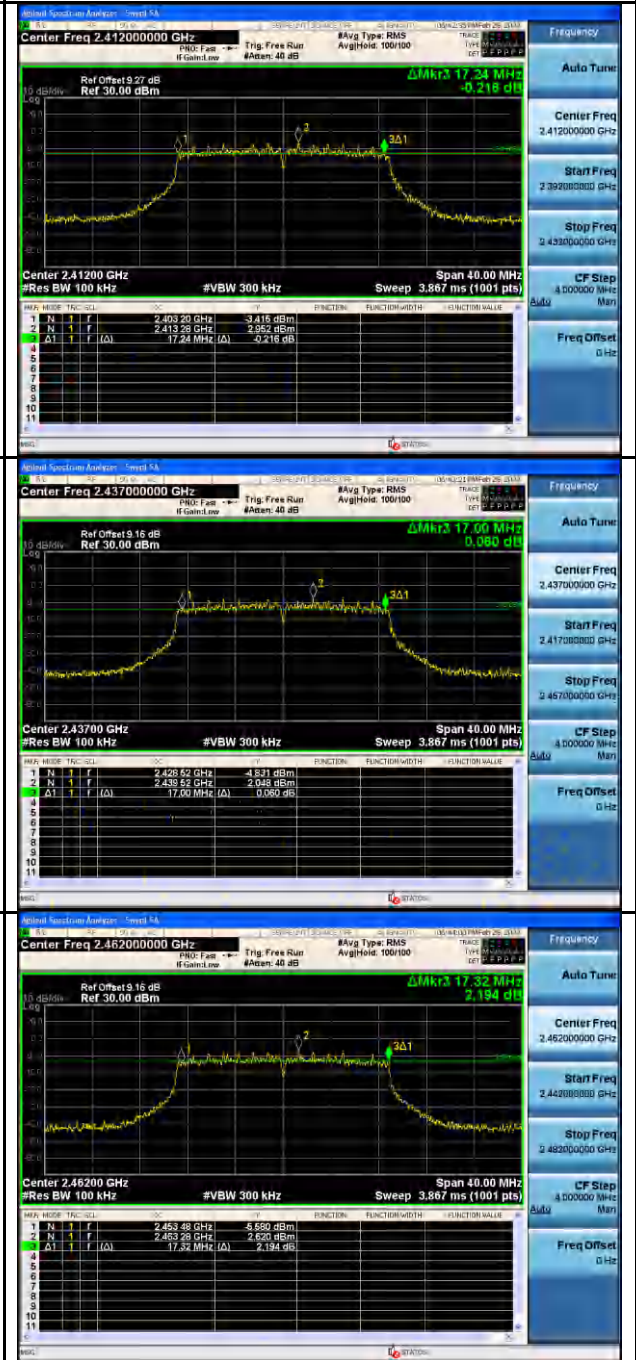


Wi-Fi 802.11 n(HT20) mode, MCS0

ANT 1



ANT 2



Wi-Fi 802.11 n(HT40) mode, MCS0

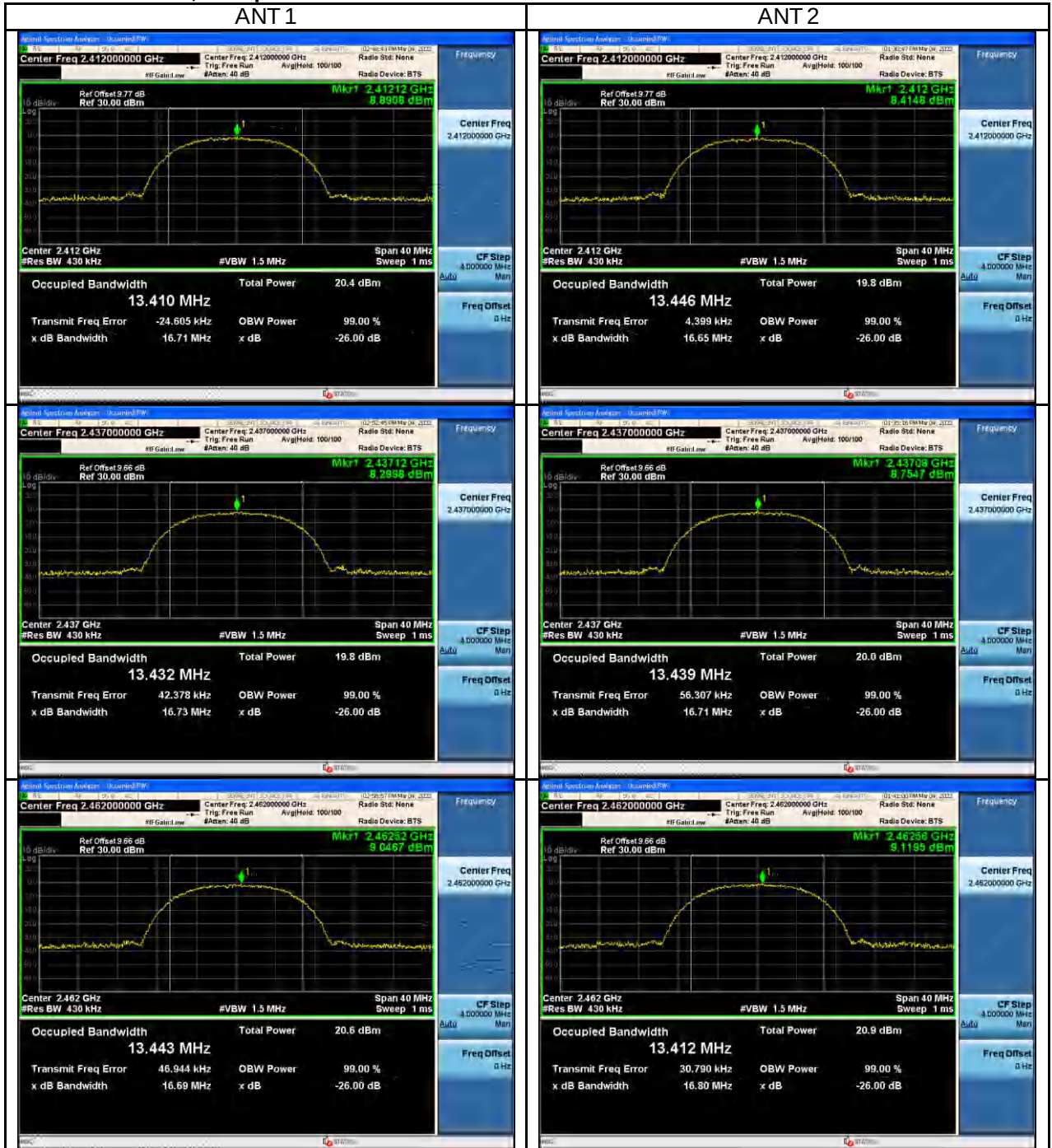


Appendix B.3: Test Results of 99% Bandwidth

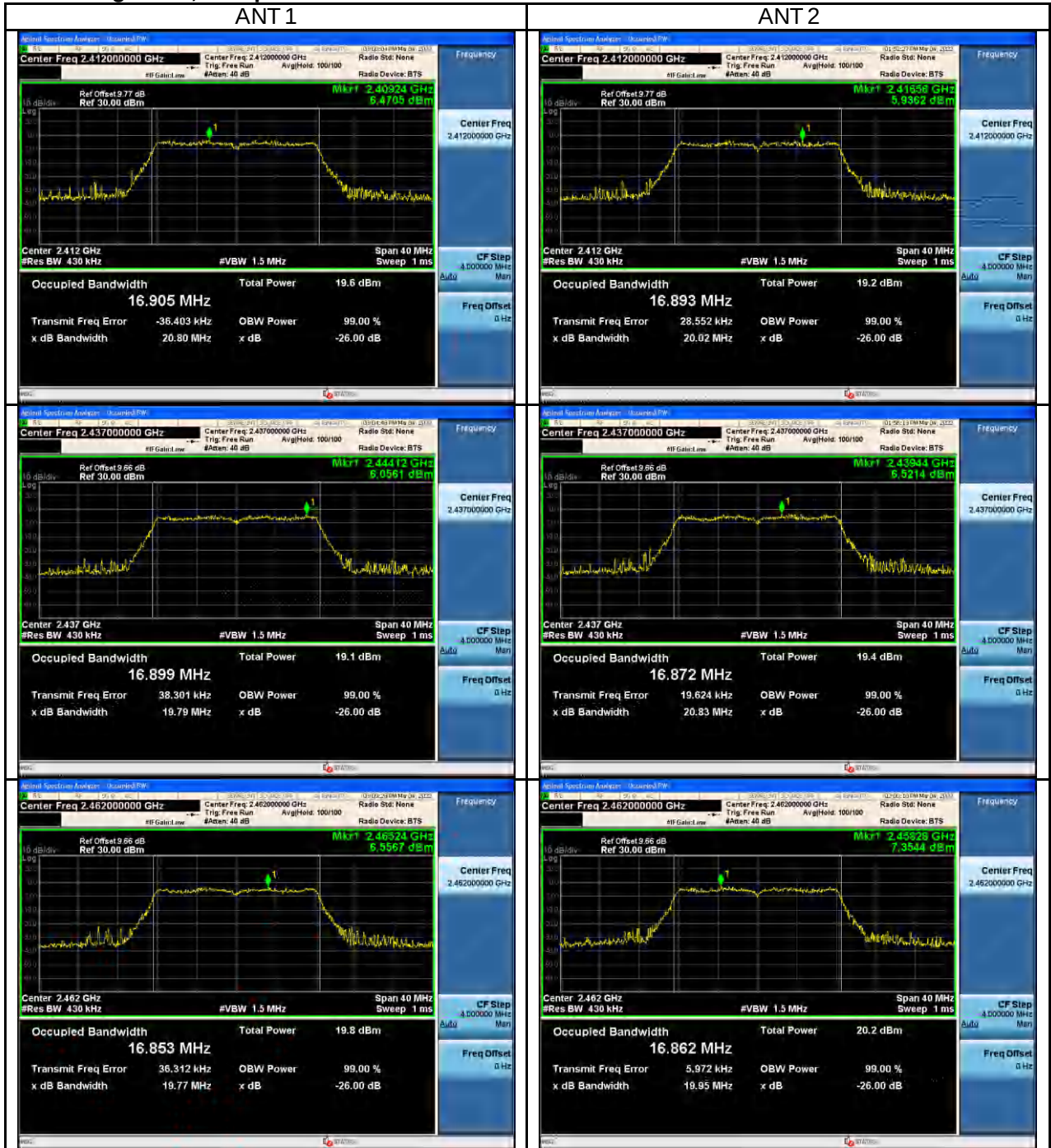
Wi-Fi Module 1 (model: nxp8997):

Test Mode	Data Rate	Test Channel (MHz)	99% Bandwidth (MHz)		Limit (MHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	13.410	13.446	N/A
		2437	13.432	13.439	
		2462	13.443	13.412	
802.11g	6 Mbps	2412	16.905	16.893	
		2437	16.899	16.872	
		2462	16.853	16.862	
802.11n (HT20)	MCS0	2412	17.854	17.856	
		2437	17.854	17.860	
		2462	17.840	17.859	
802.11n (HT40)	MCS0	2422	36.511	36.512	
		2437	36.497	36.440	
		2452	36.505	36.543	

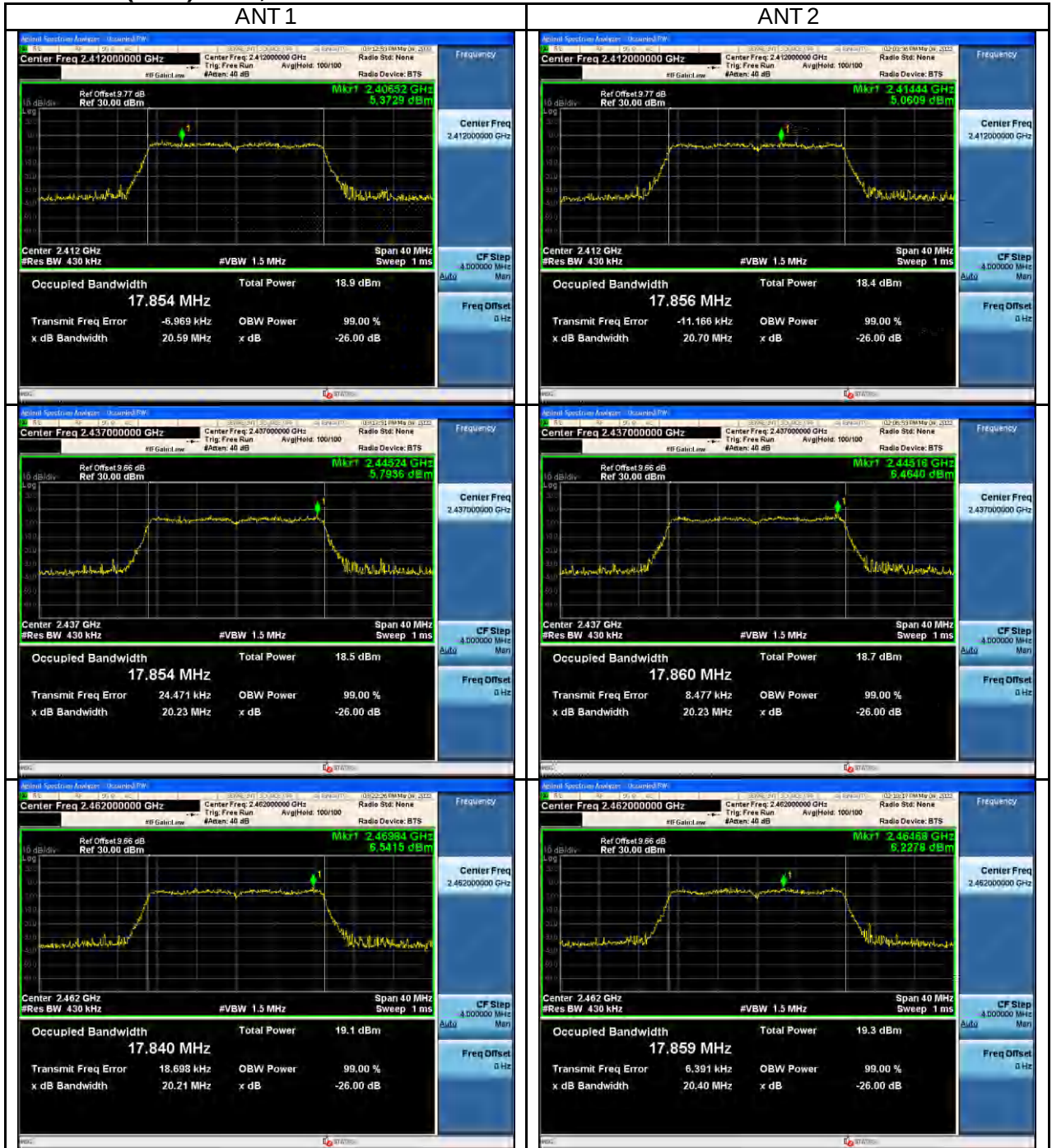
Wi-Fi 802.11 b mode, 1 Mbps



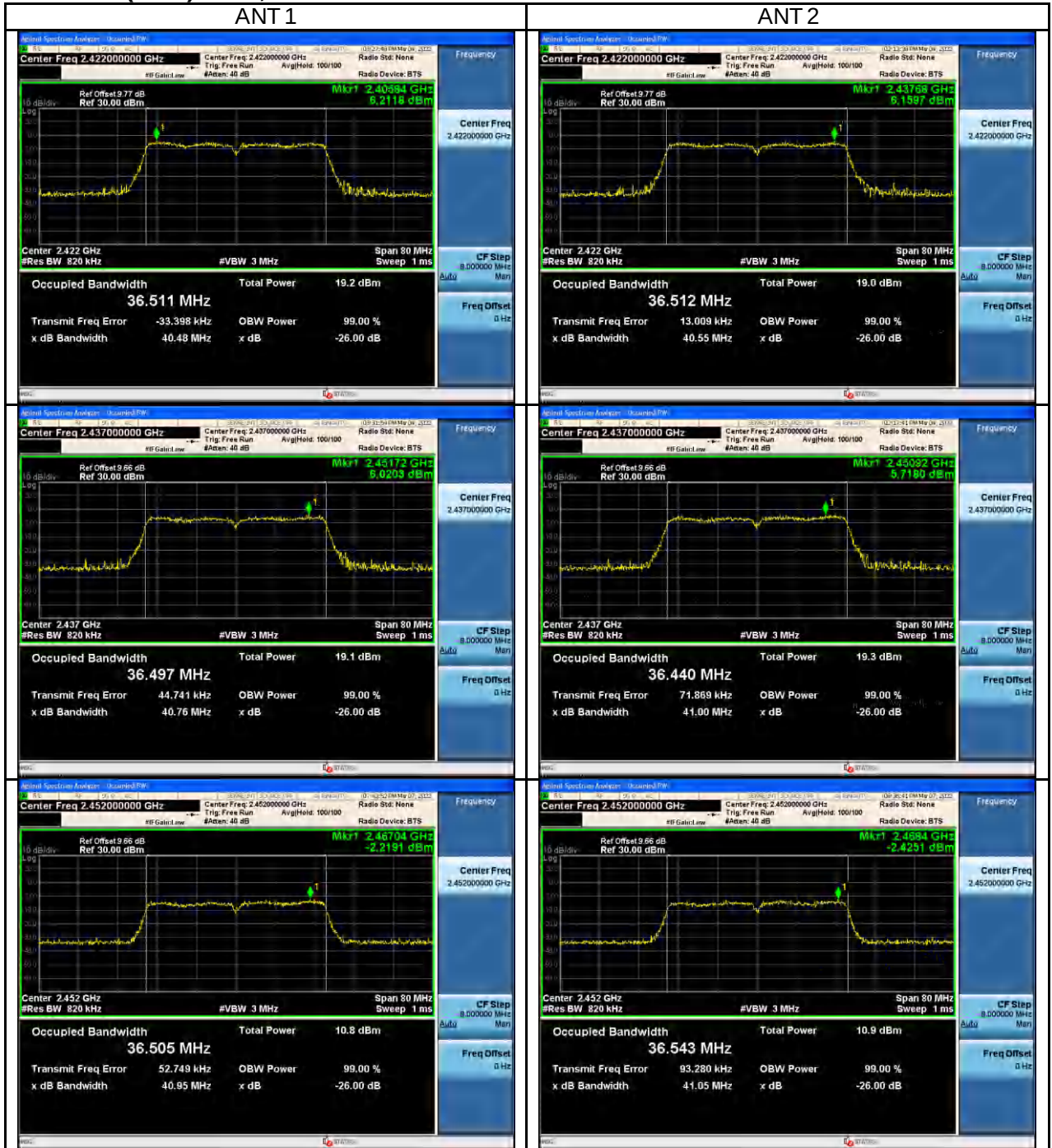
Wi-Fi 802.11 g mode, 6 Mbps



Wi-Fi 802.11 n(HT20) mode, MCS0



Wi-Fi 802.11 n(HT40) mode, MCS0



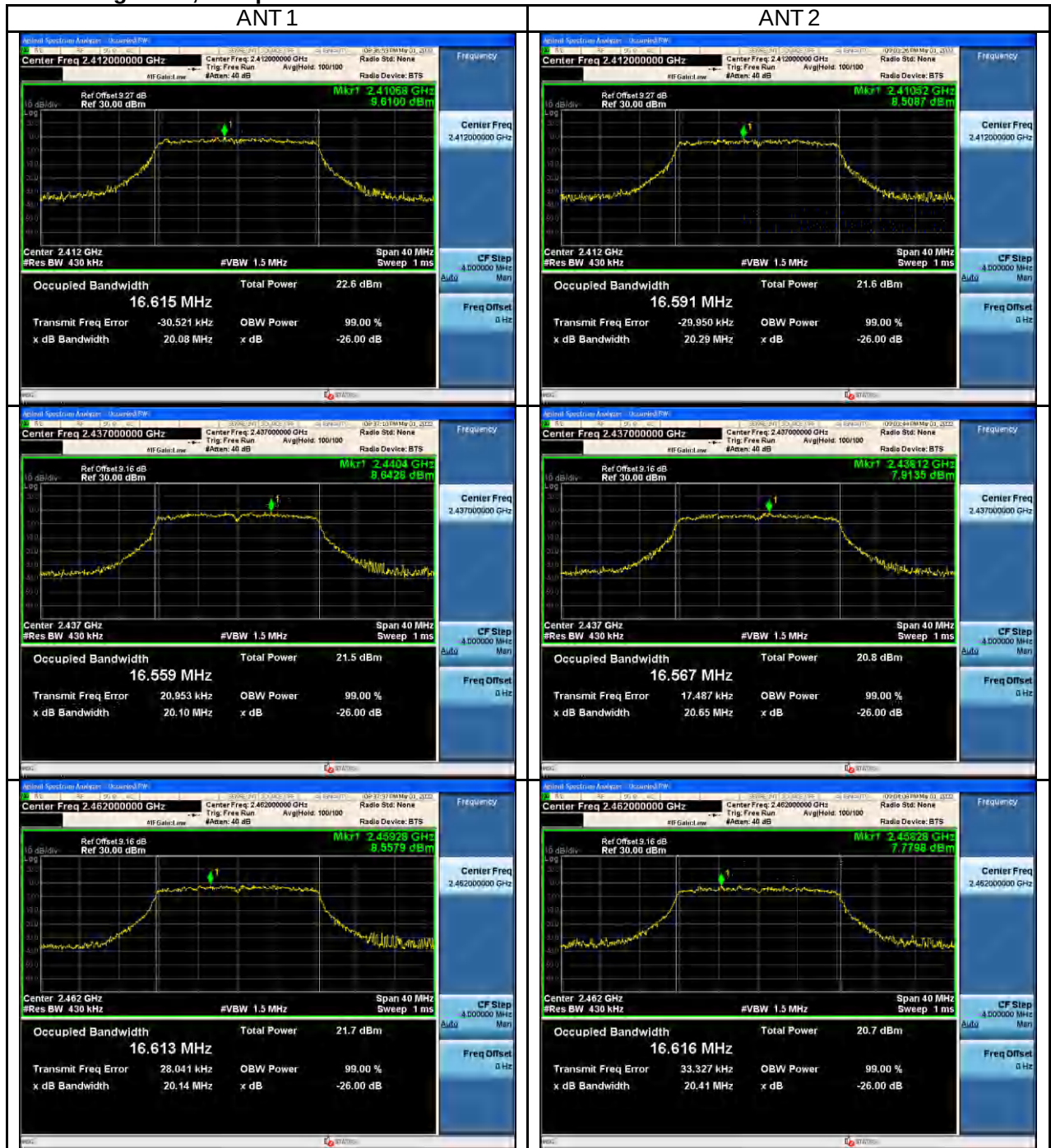
Wi-Fi Module 2: (model: 8812 CU)

Test Mode	Data Rate	Test Channel (MHz)	99% Bandwidth (MHz)		Limit (kHz)
			ANT1	ANT2	
802.11b	1 Mbps	2412	15.111	14.425	N/A
		2437	14.475	14.456	
		2462	14.515	14.455	
802.11g	6 Mbps	2412	16.615	16.591	
		2437	16.559	16.567	
		2462	16.613	16.616	
802.11n (HT20)	MCS0	2412	17.876	17.821	
		2437	17.784	17.803	
		2462	17.789	17.826	
802.11n (HT40)	MCS0	2422	36.287	36.304	
		2437	36.274	36.234	
		2452	36.116	36.204	

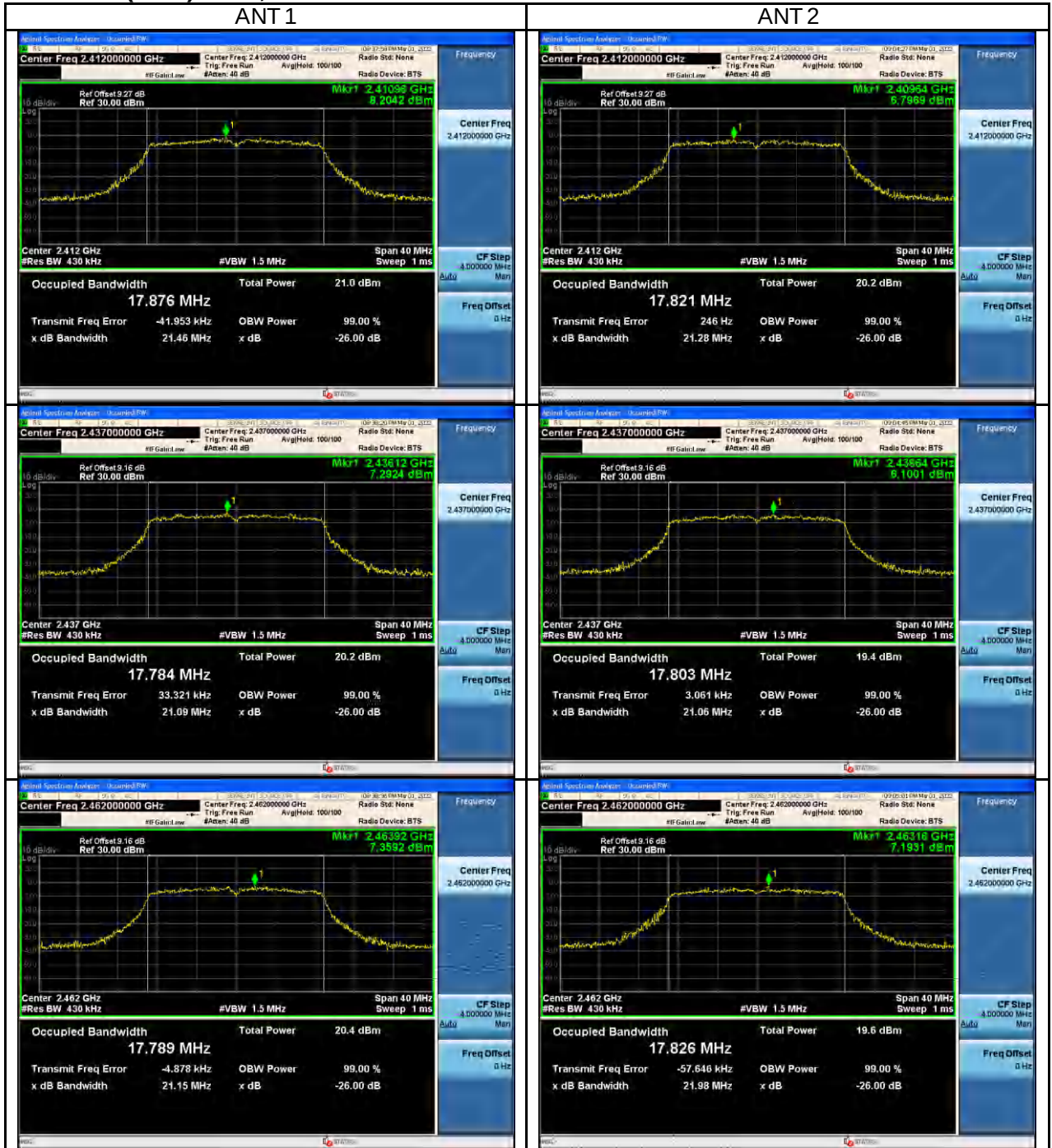
Wi-Fi 802.11 b mode, 1 Mbps



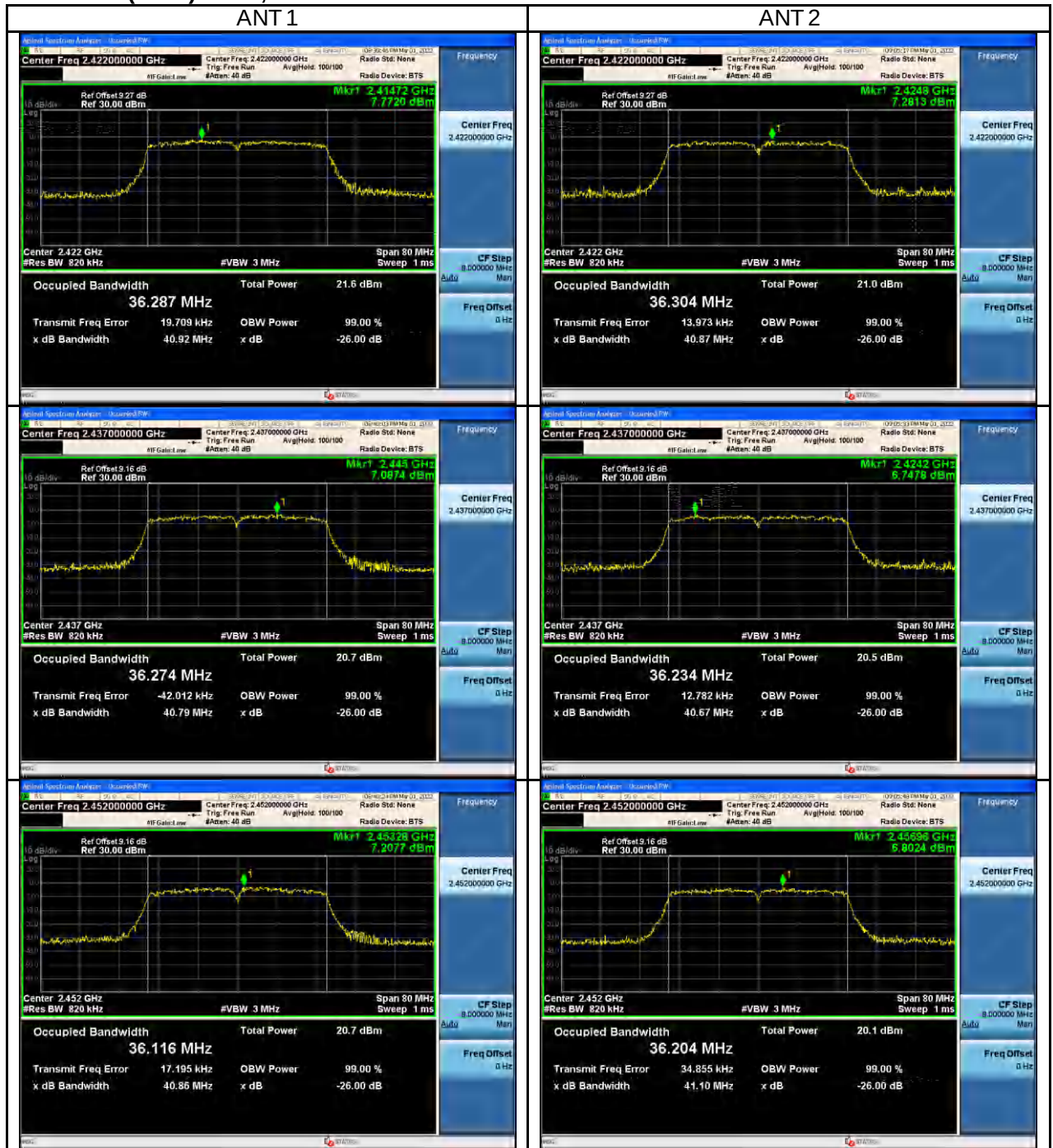
Wi-Fi 802.11 g mode, 6 Mbps



Wi-Fi 802.11 n(HT20) mode, MCS0



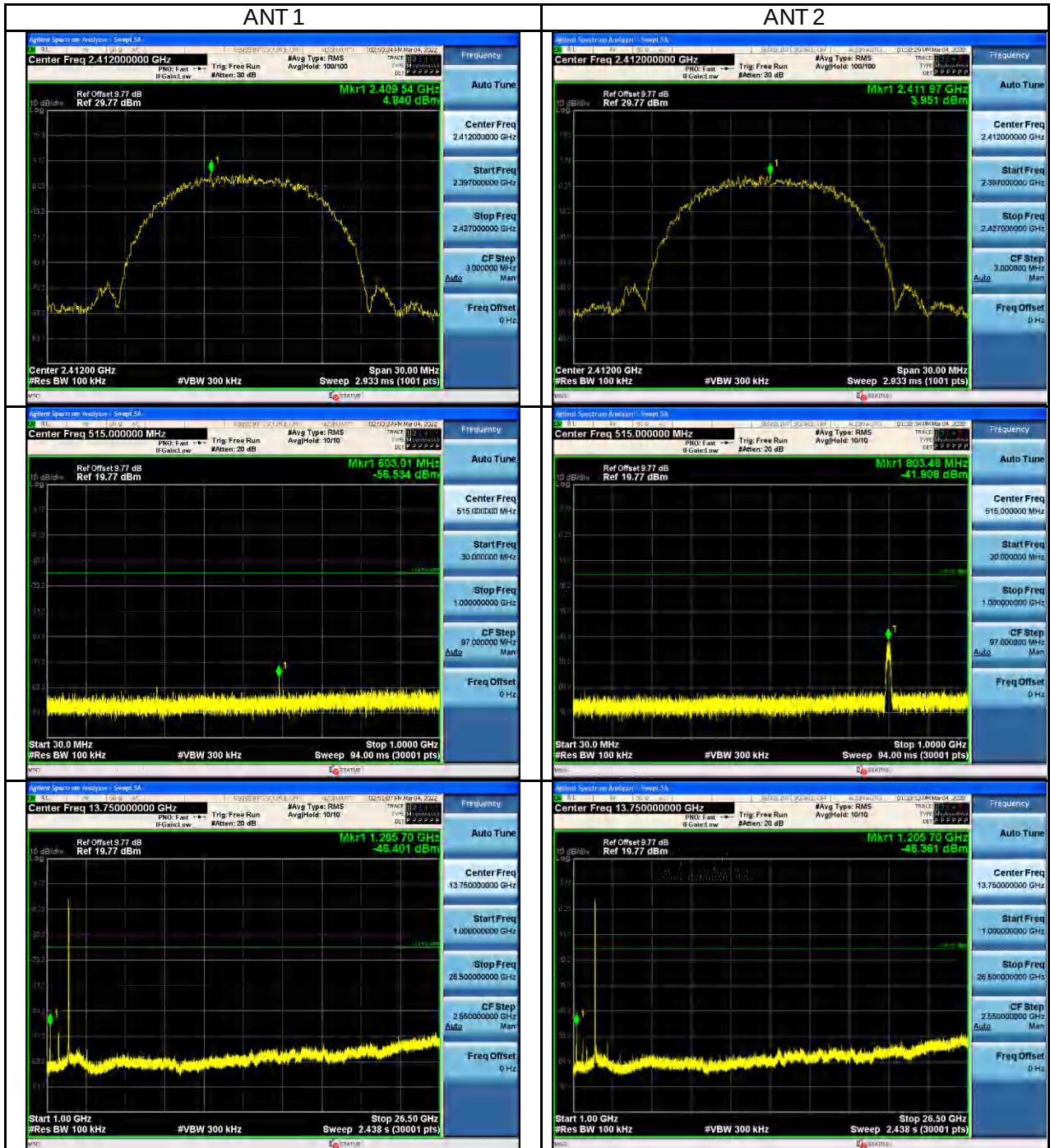
Wi-Fi 802.11 n(HT40) mode, MCS0



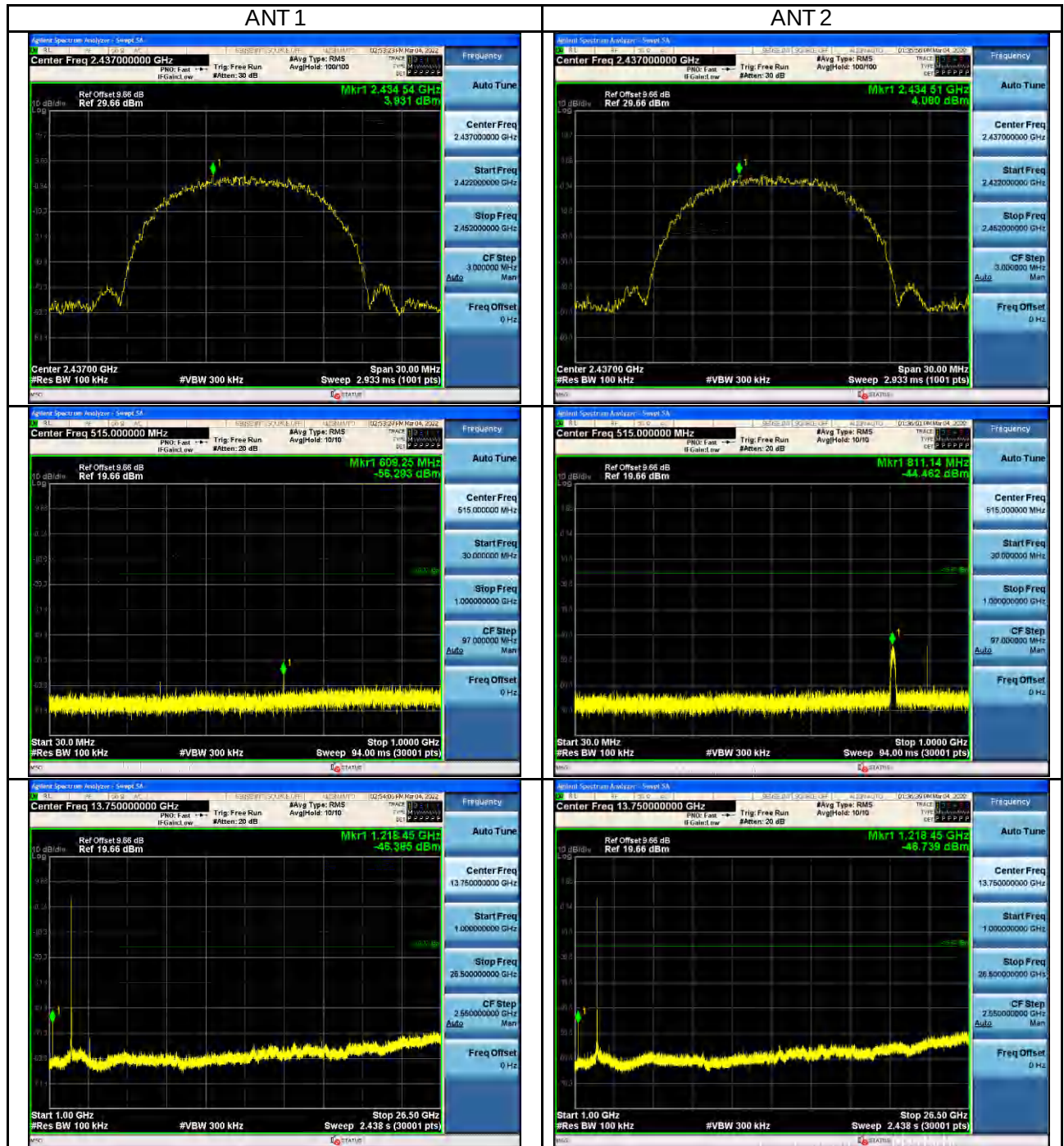
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Wi-Fi Module 1 (model: nxp8997):

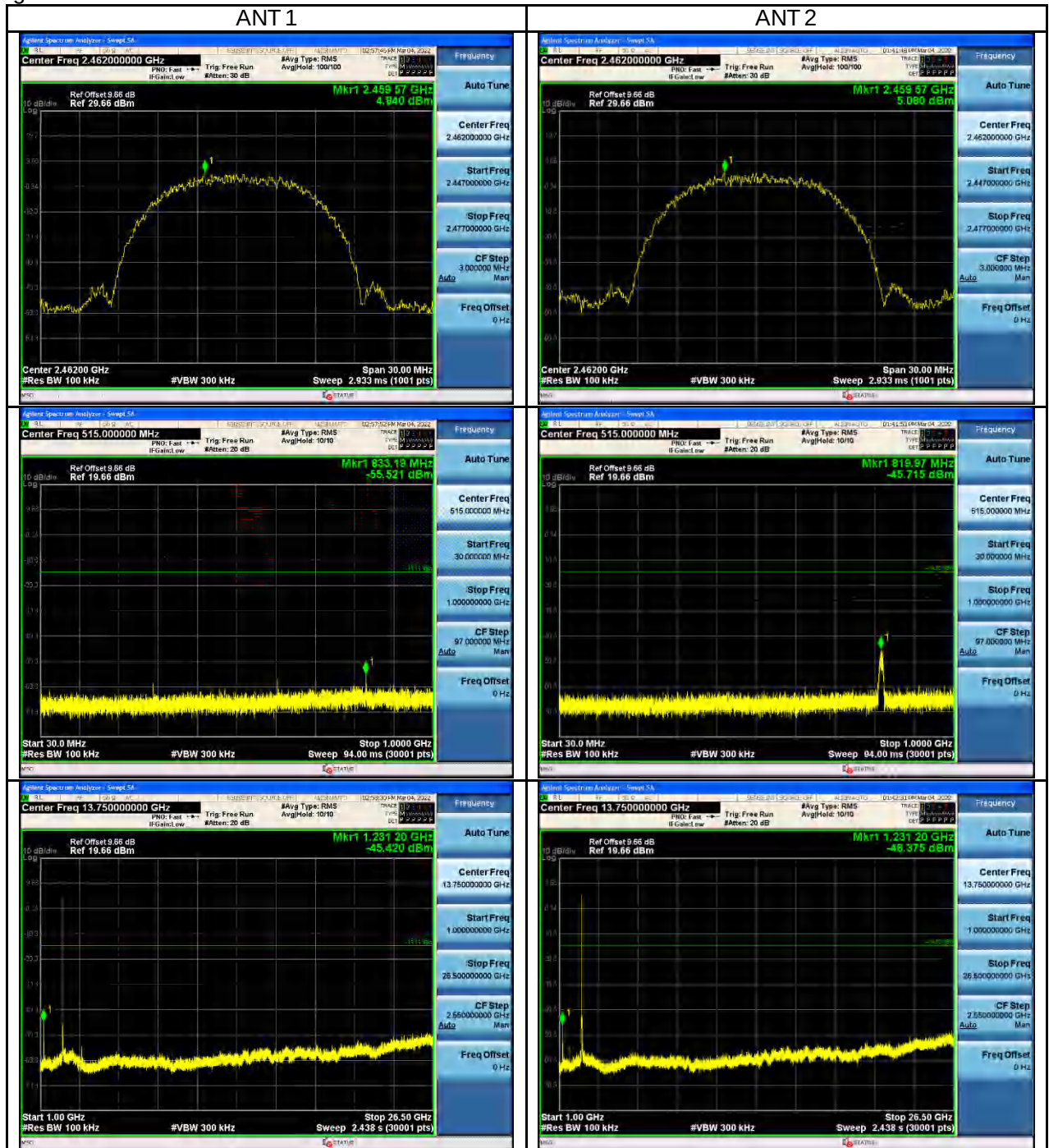
Wi-Fi 802.11 b mode, 1 Mbps
Low Channel:



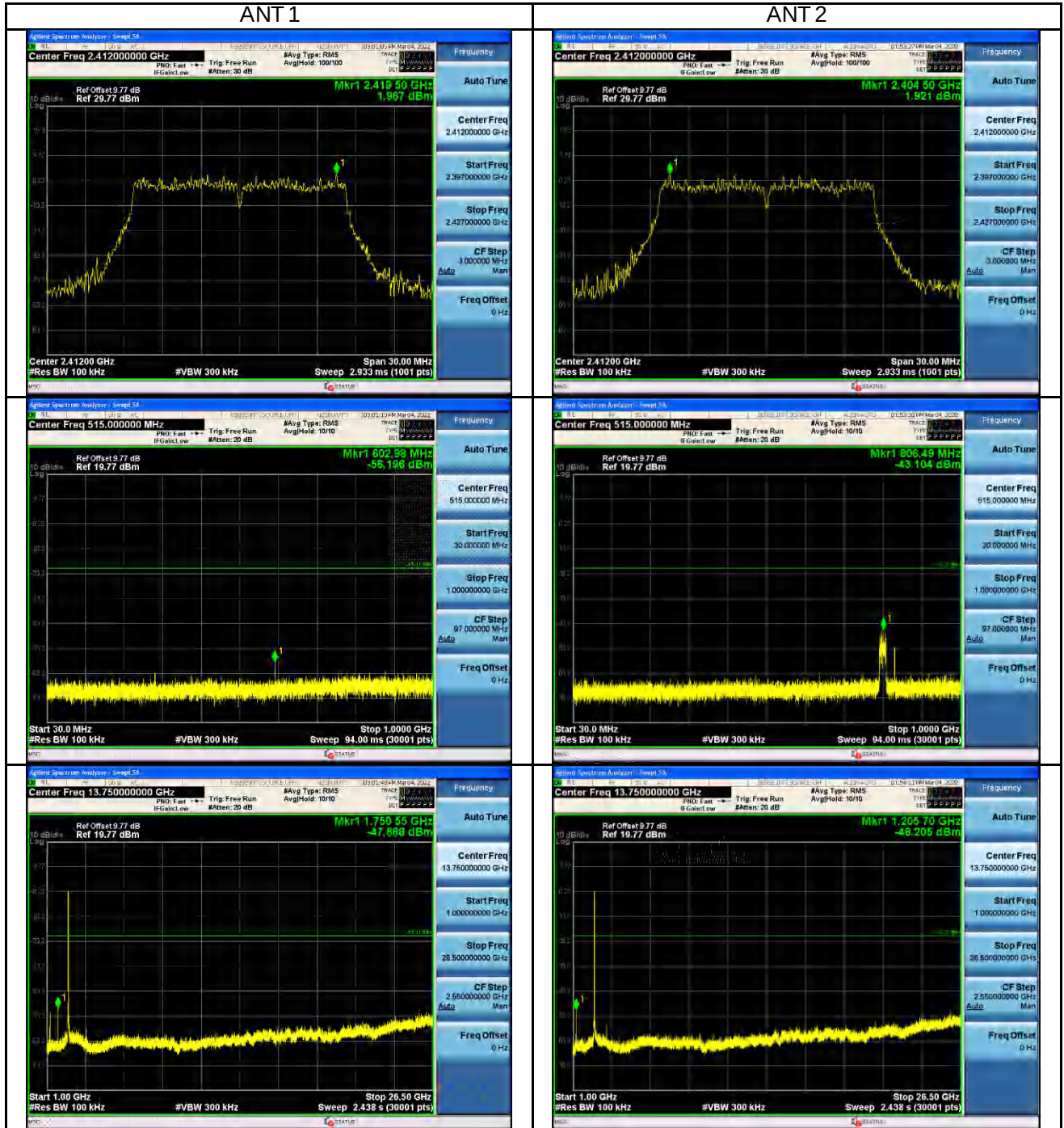
Middle Channel:



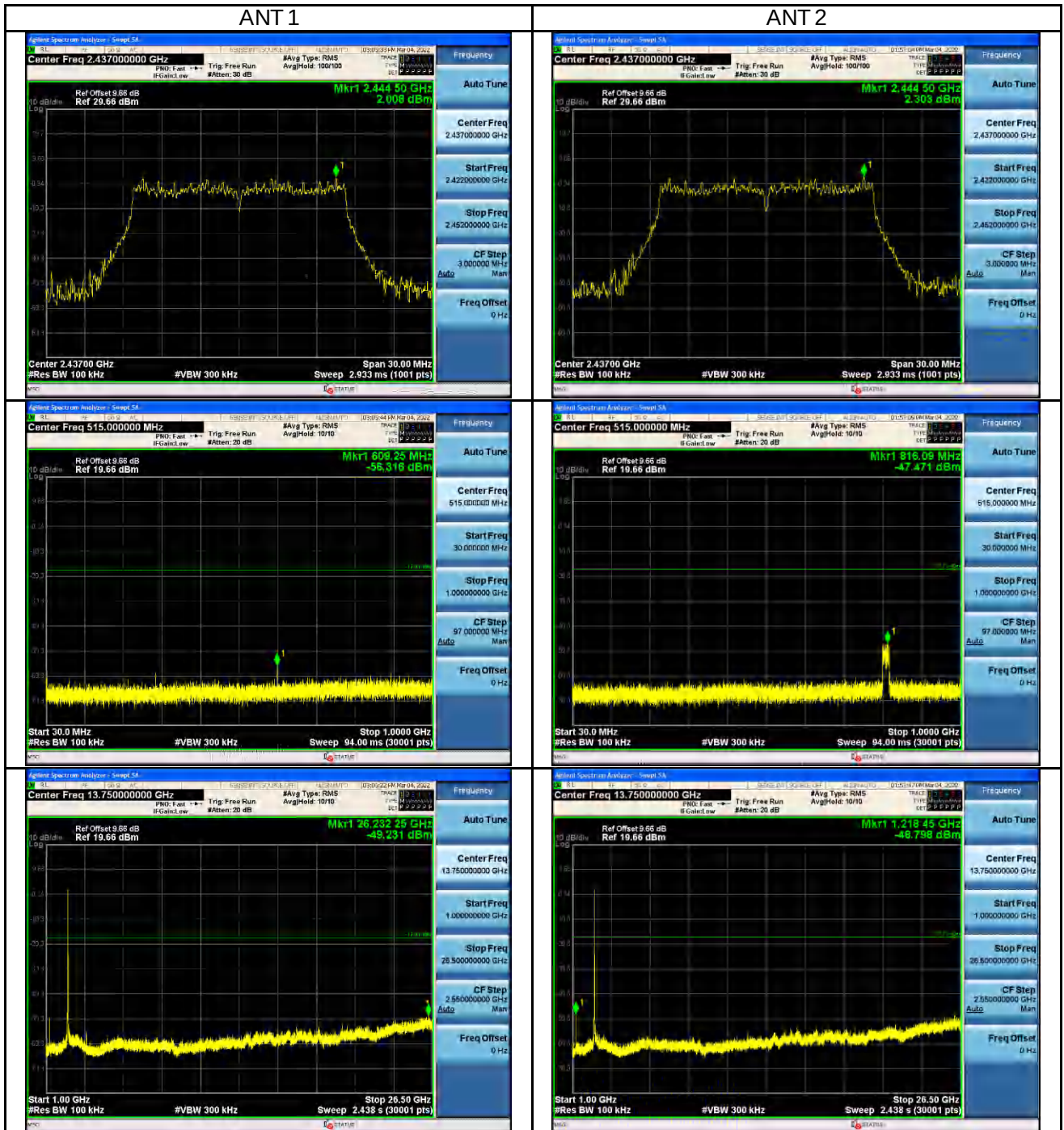
High Channel:



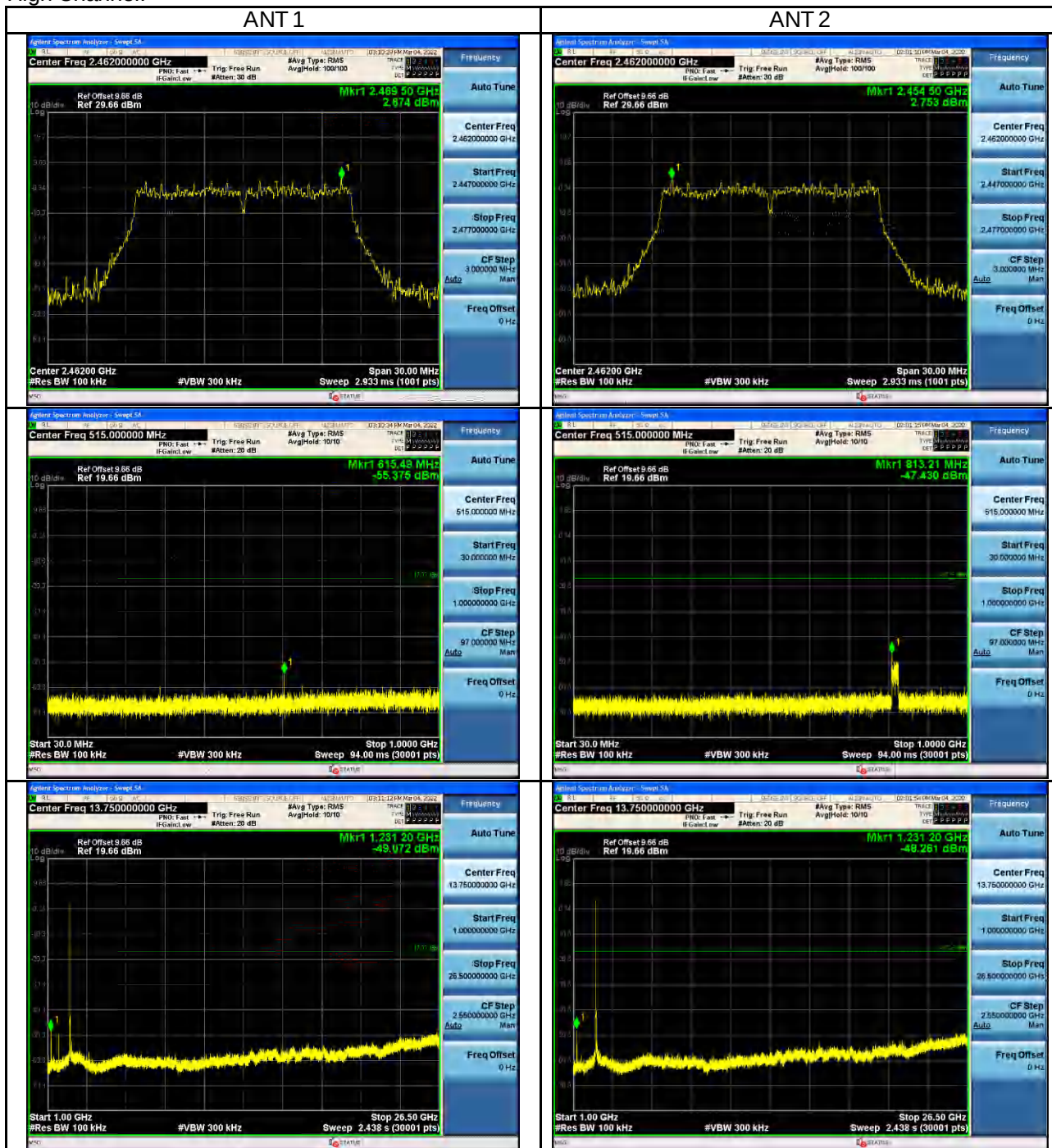
Wi-Fi 802.11 g mode, 6 Mbps
Low Channel:



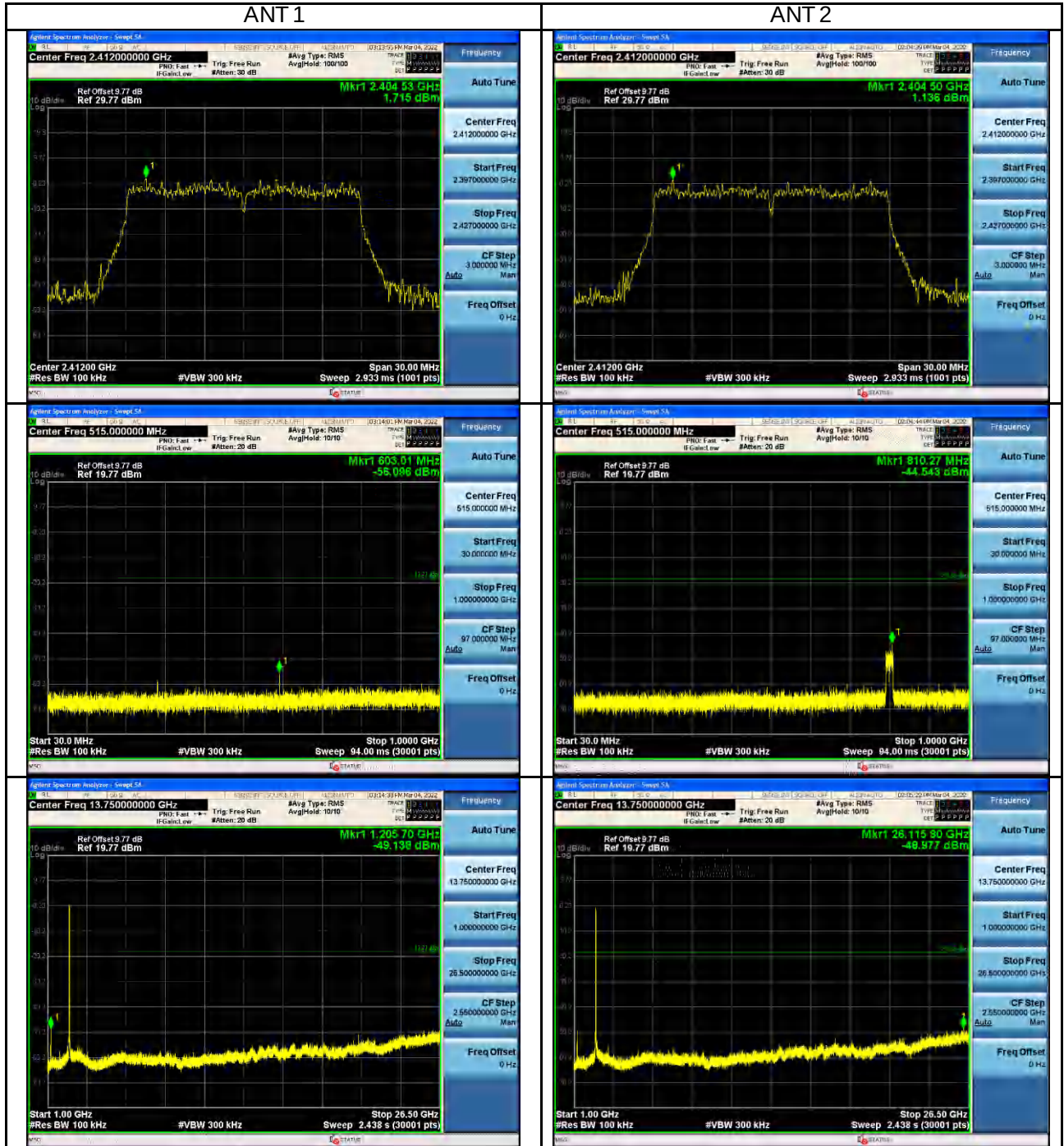
Middle Channel:



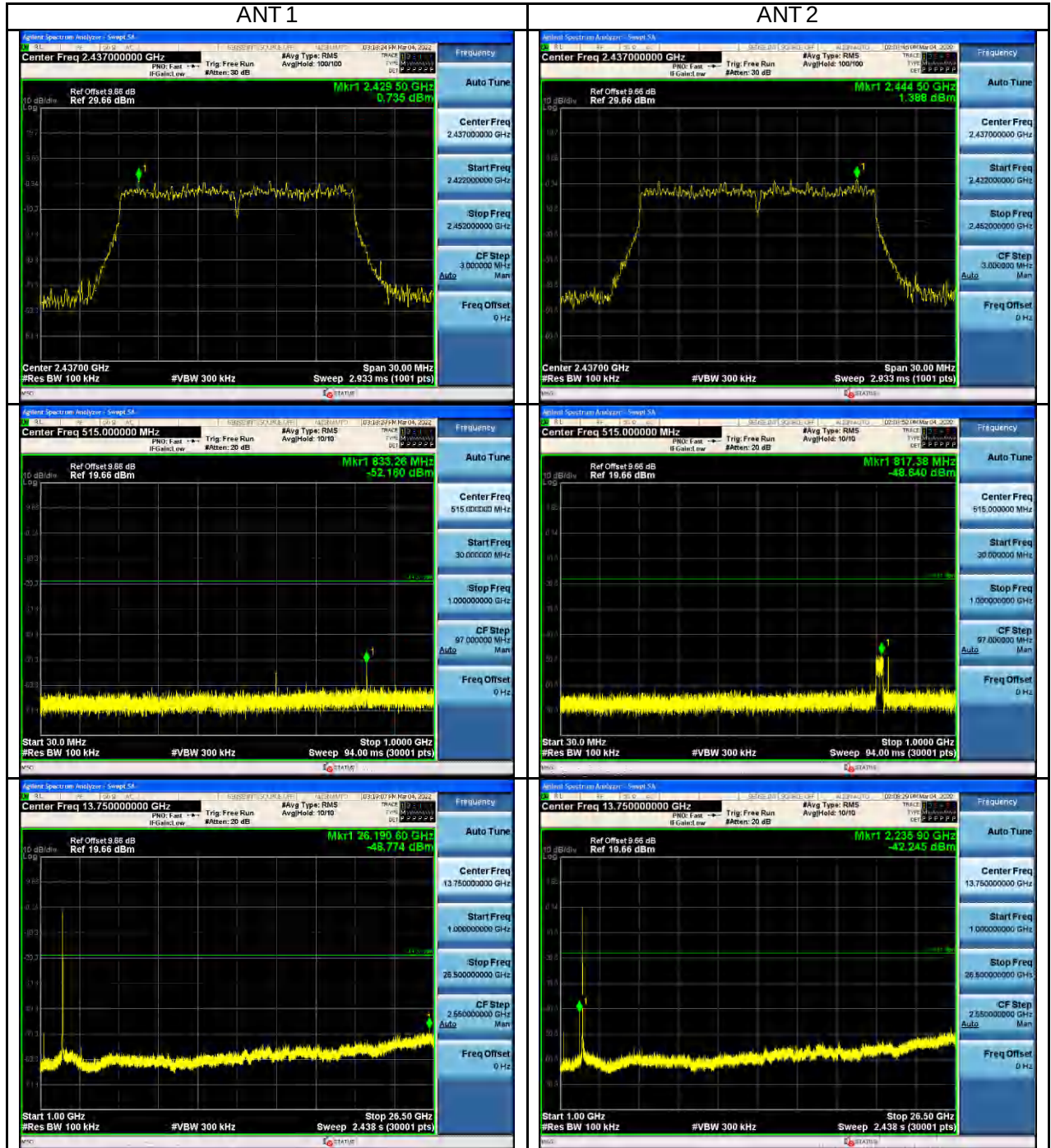
High Channel:



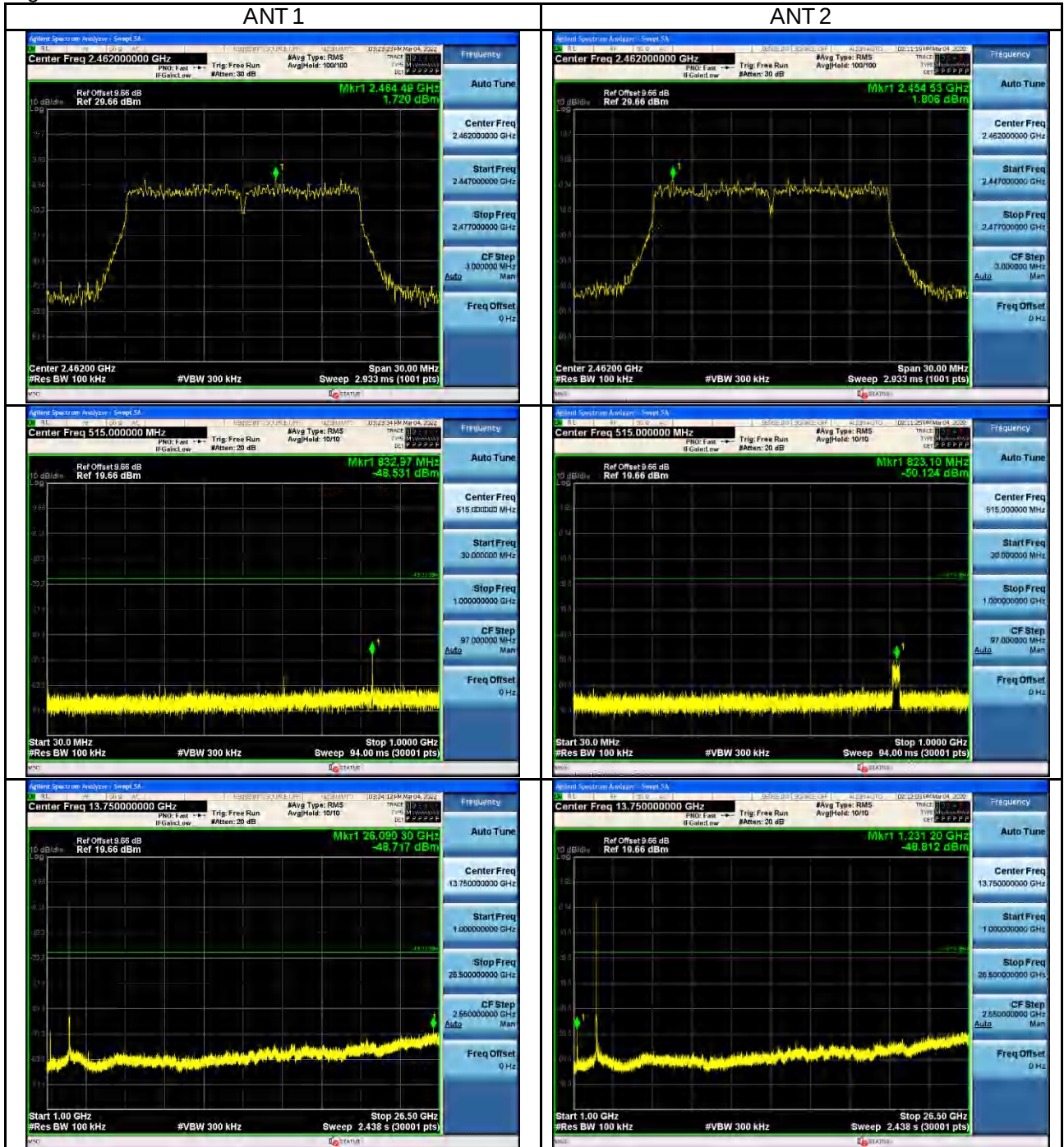
Wi-Fi 802.11 n(HT20) mode, MCS0
Low Channel:



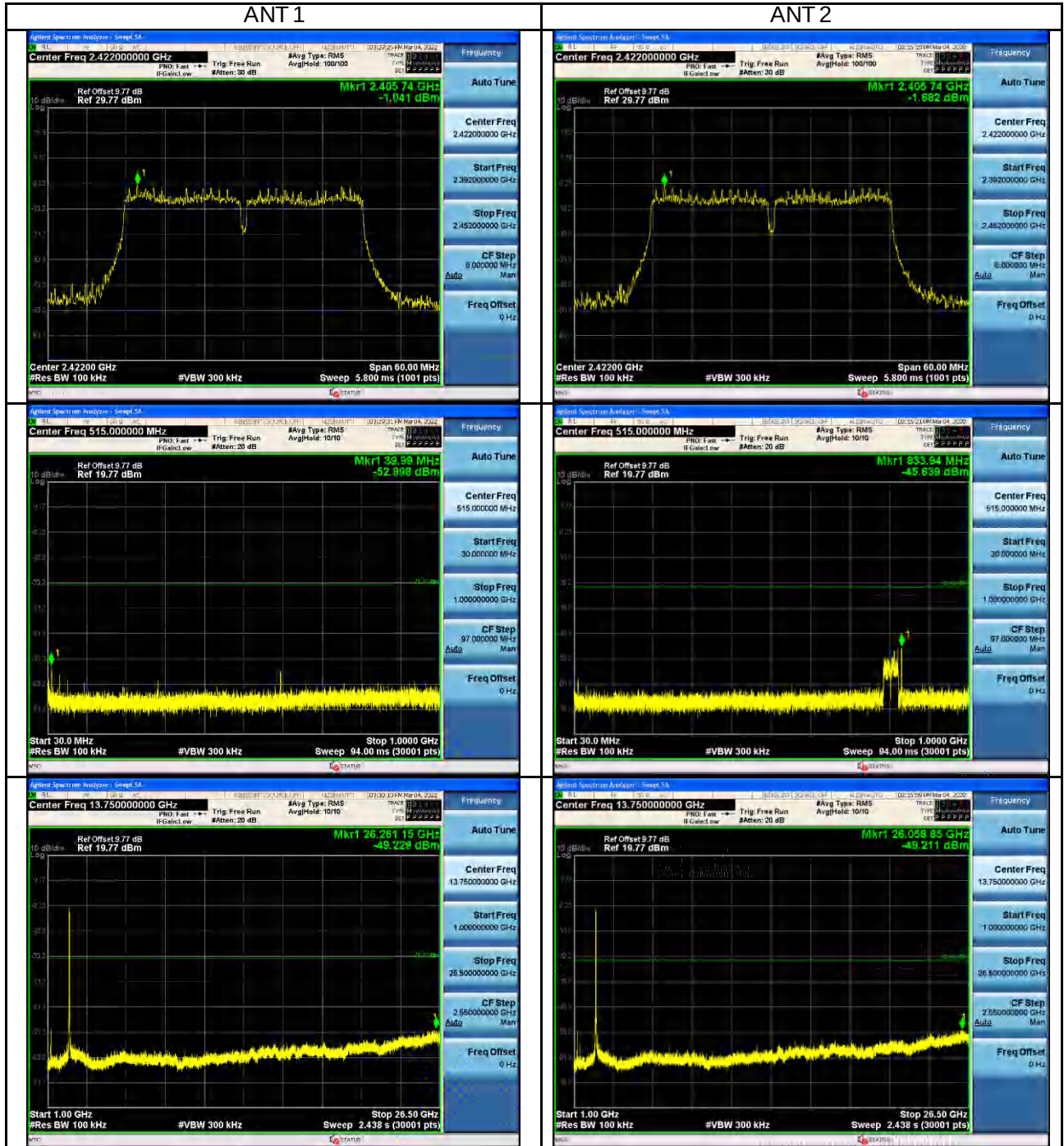
Middle Channel:



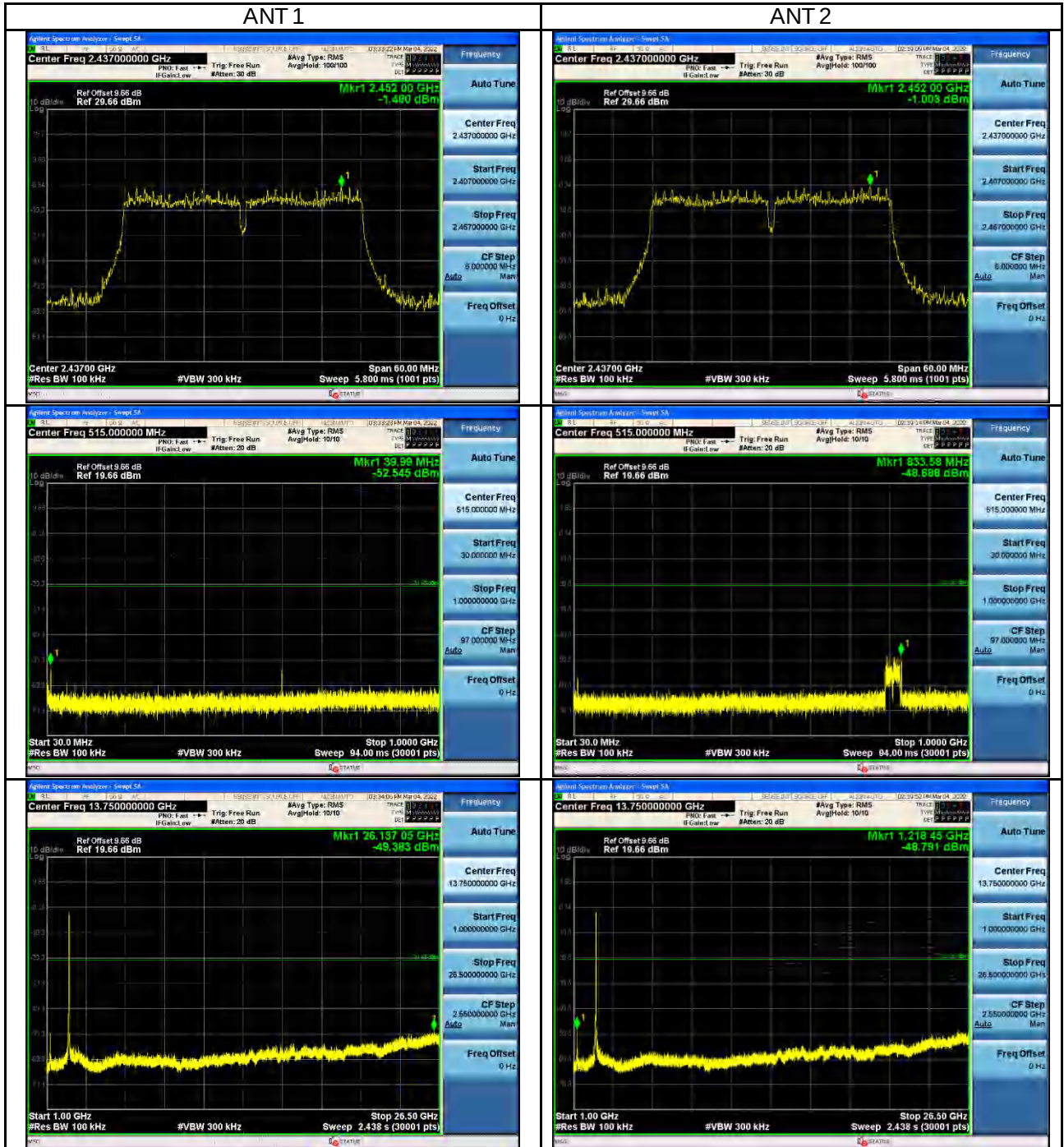
High Channel:



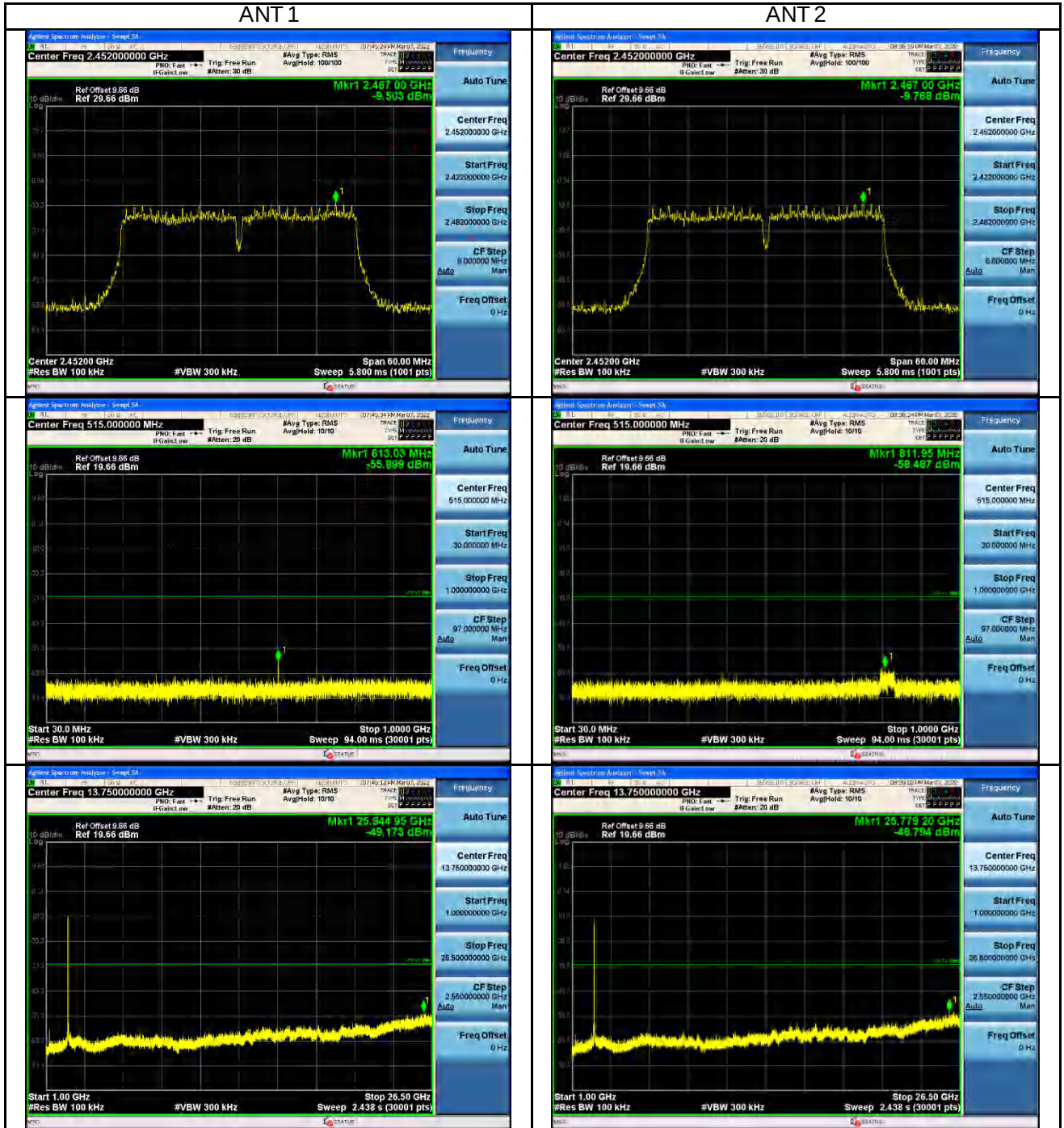
Wi-Fi 802.11 n(HT40) mode, MCS0
Low Channel:



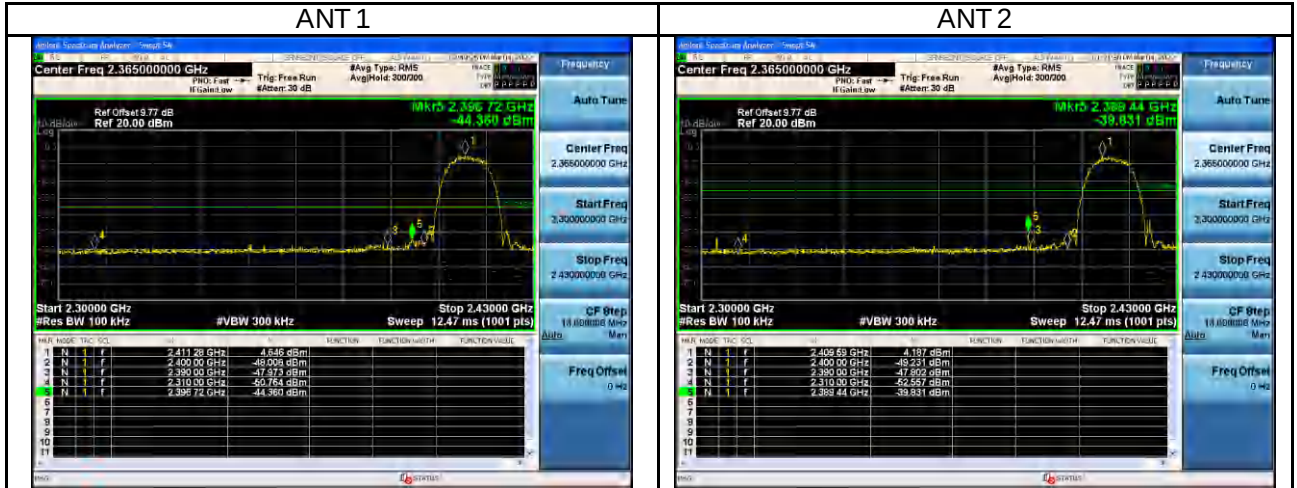
Middle Channel:



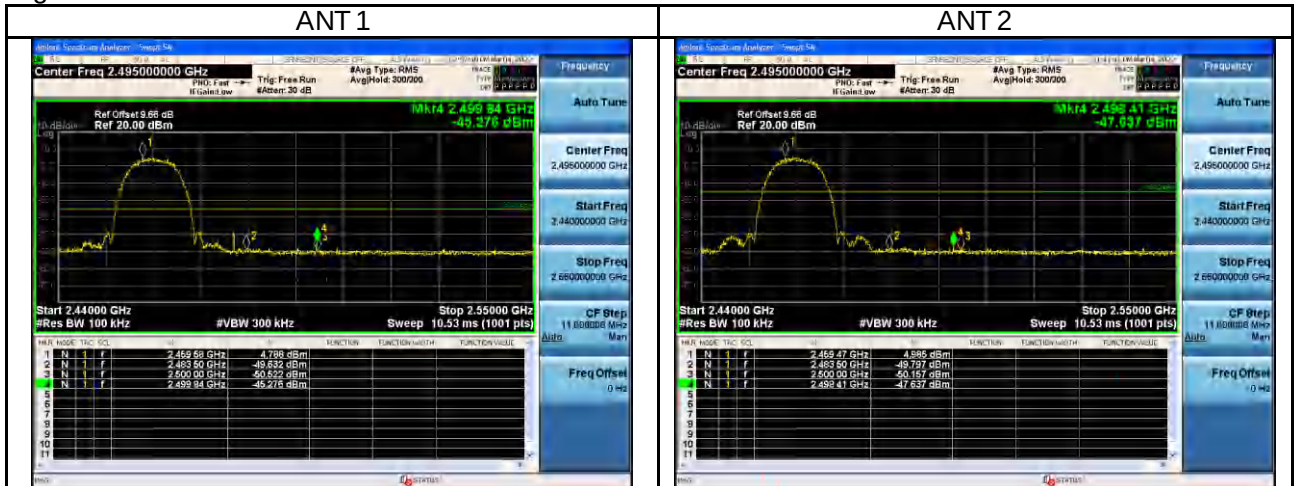
High Channel:



Wi-Fi 802.11 b mode, Band Edge
Low Channel:

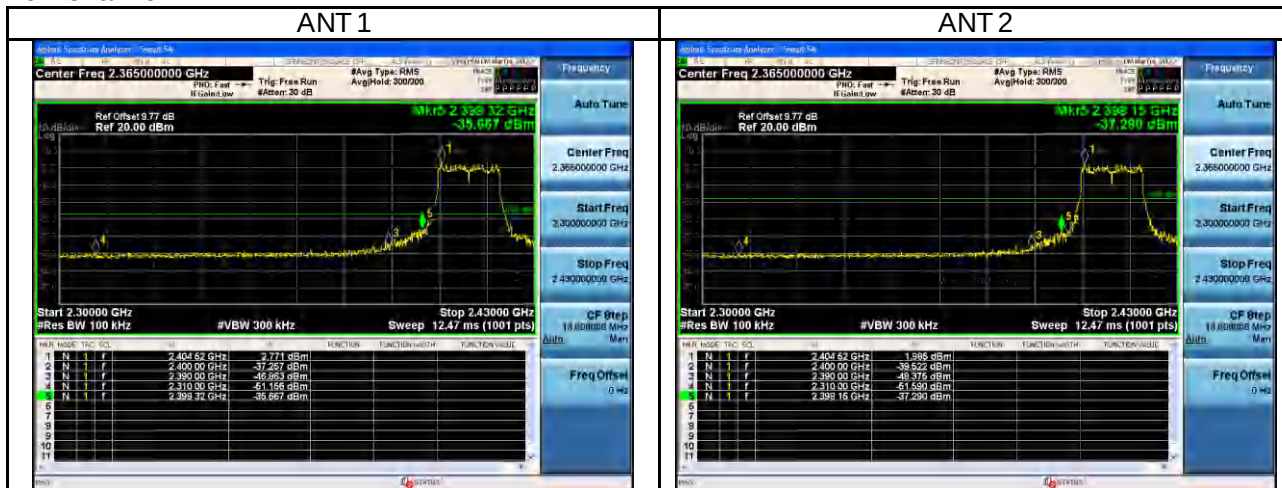


High Channel:



Wi-Fi 802.11 g mode, Band Edge

Low Channel:



High Channel:

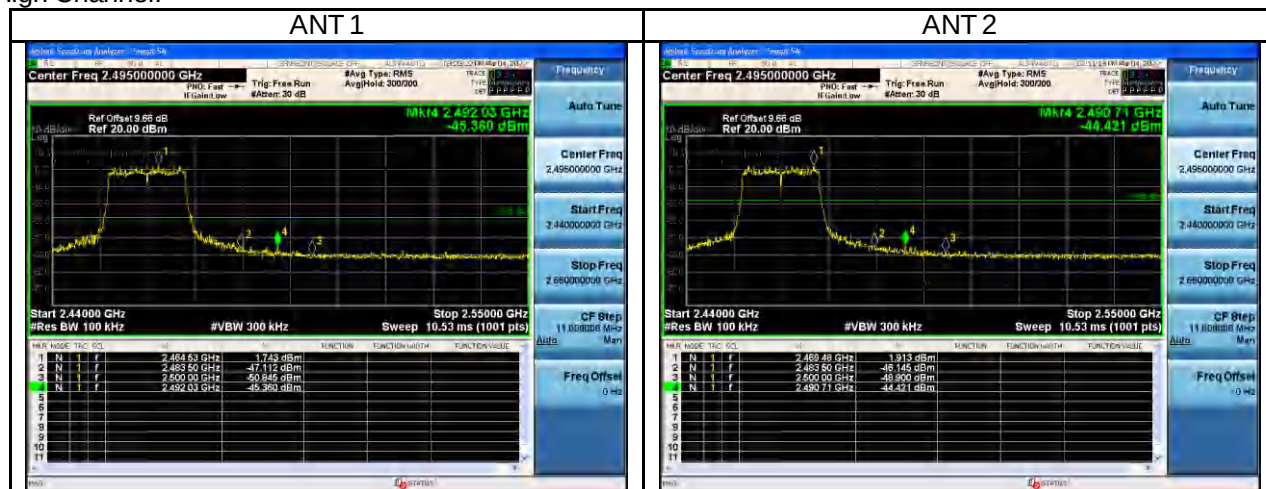


Wi-Fi 802.11 n(HT20) mode, Band Edge

Low Channel:



High Channel:



Wi-Fi 802.11 n(HT40) mode, Band Edge

Low Channel:

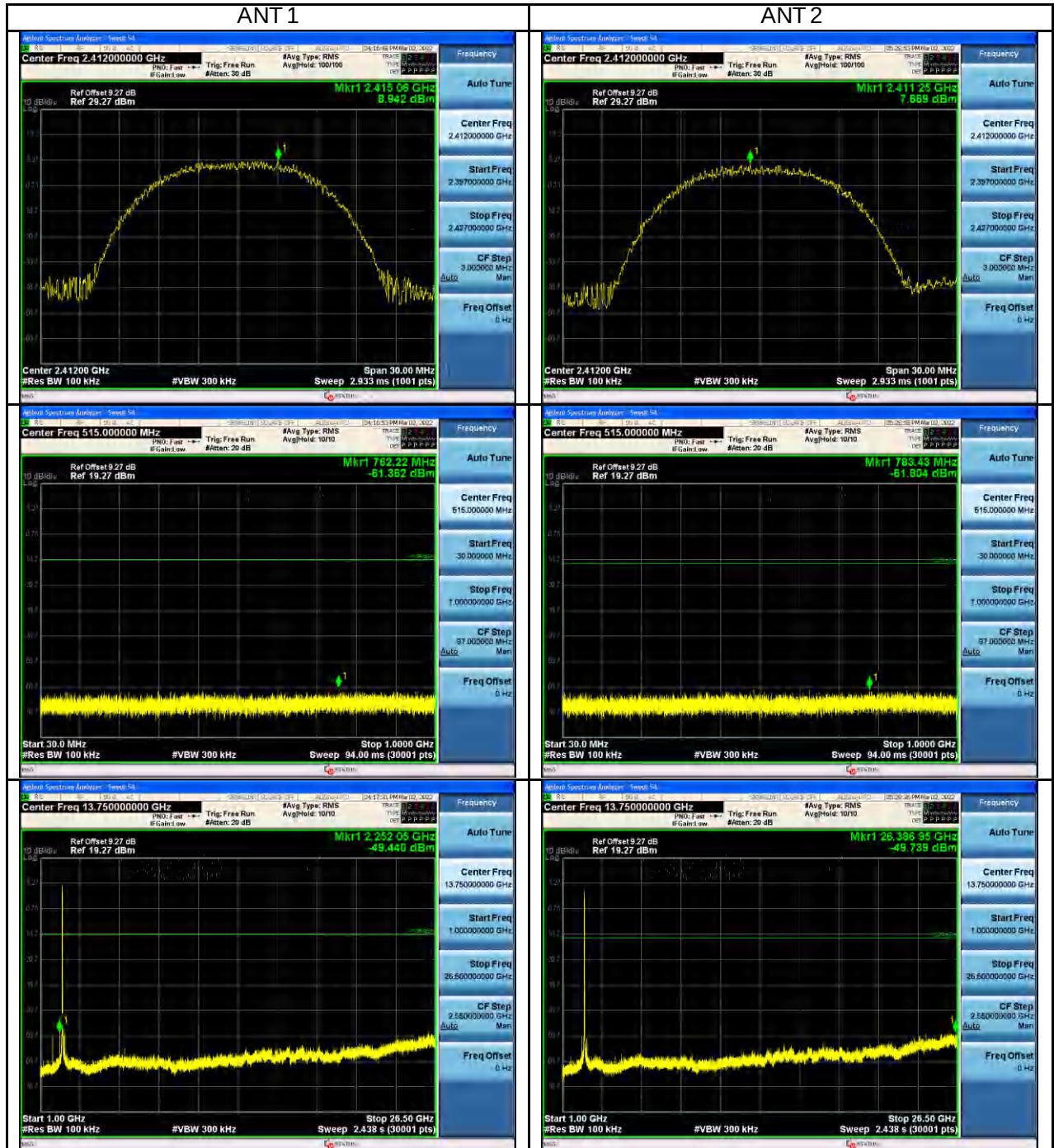


High Channel:

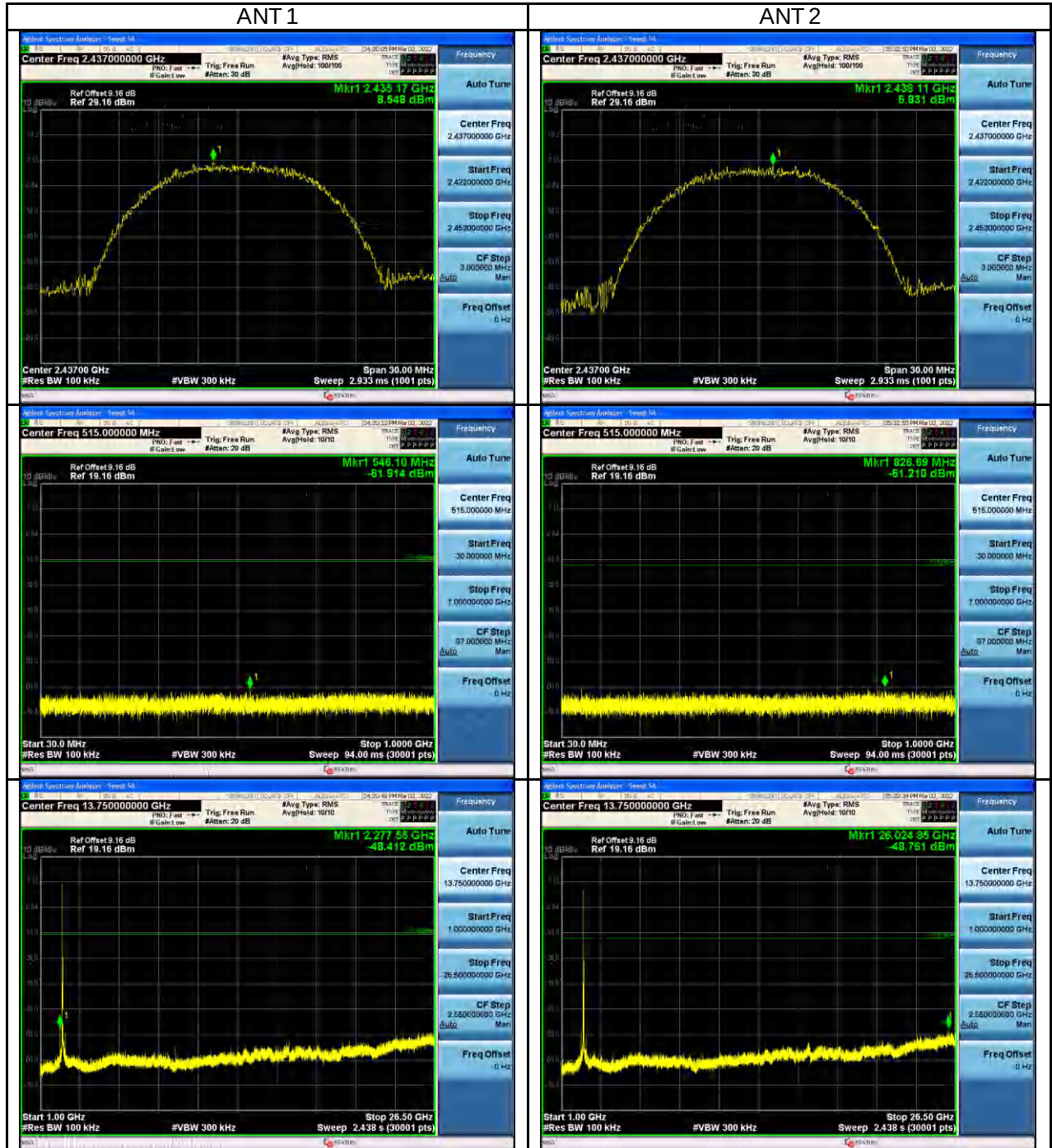


Wi-Fi Module 2: (model: 8812 CU)

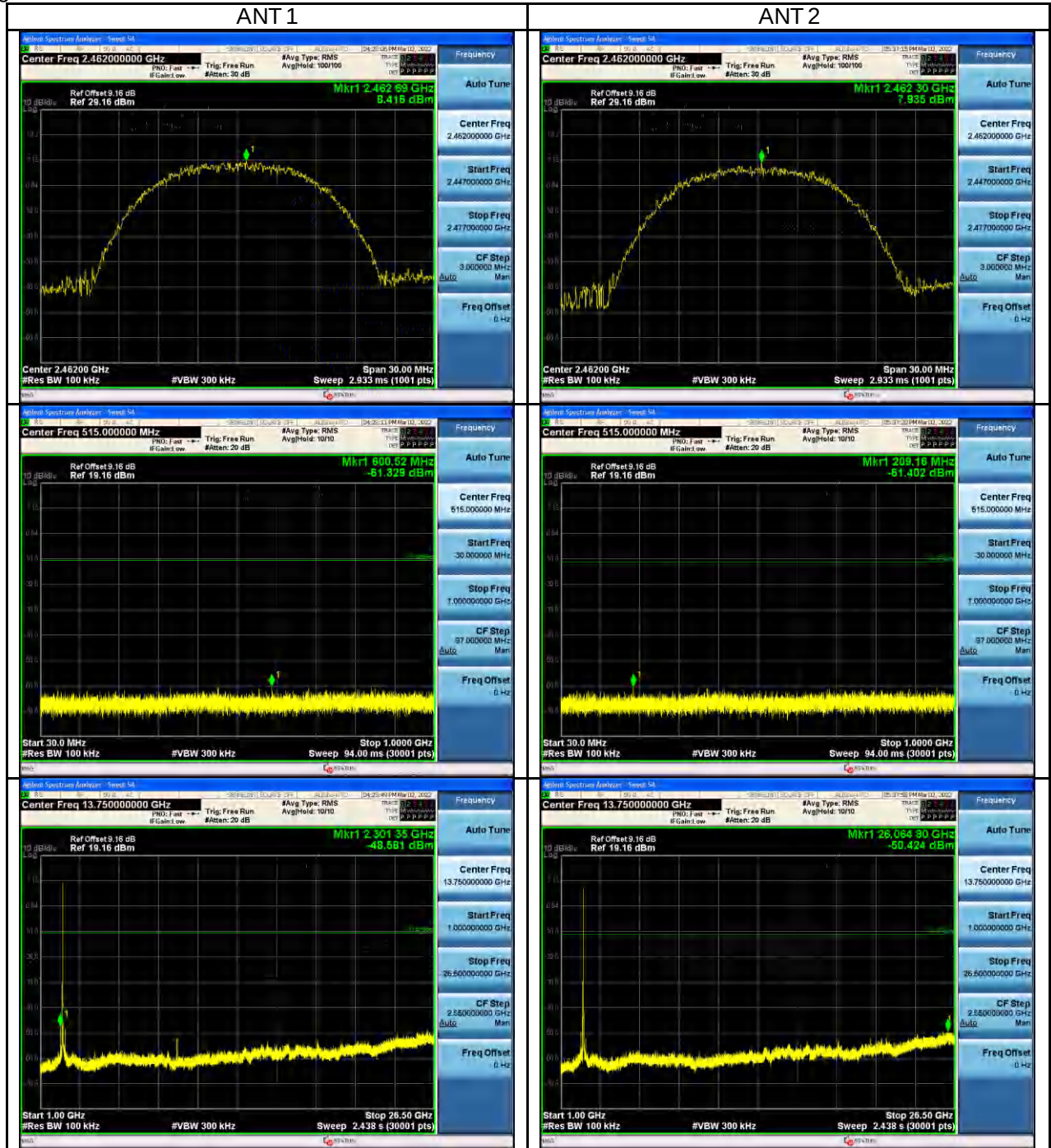
Wi-Fi 802.11 b mode, 1 Mbps Low Channel:



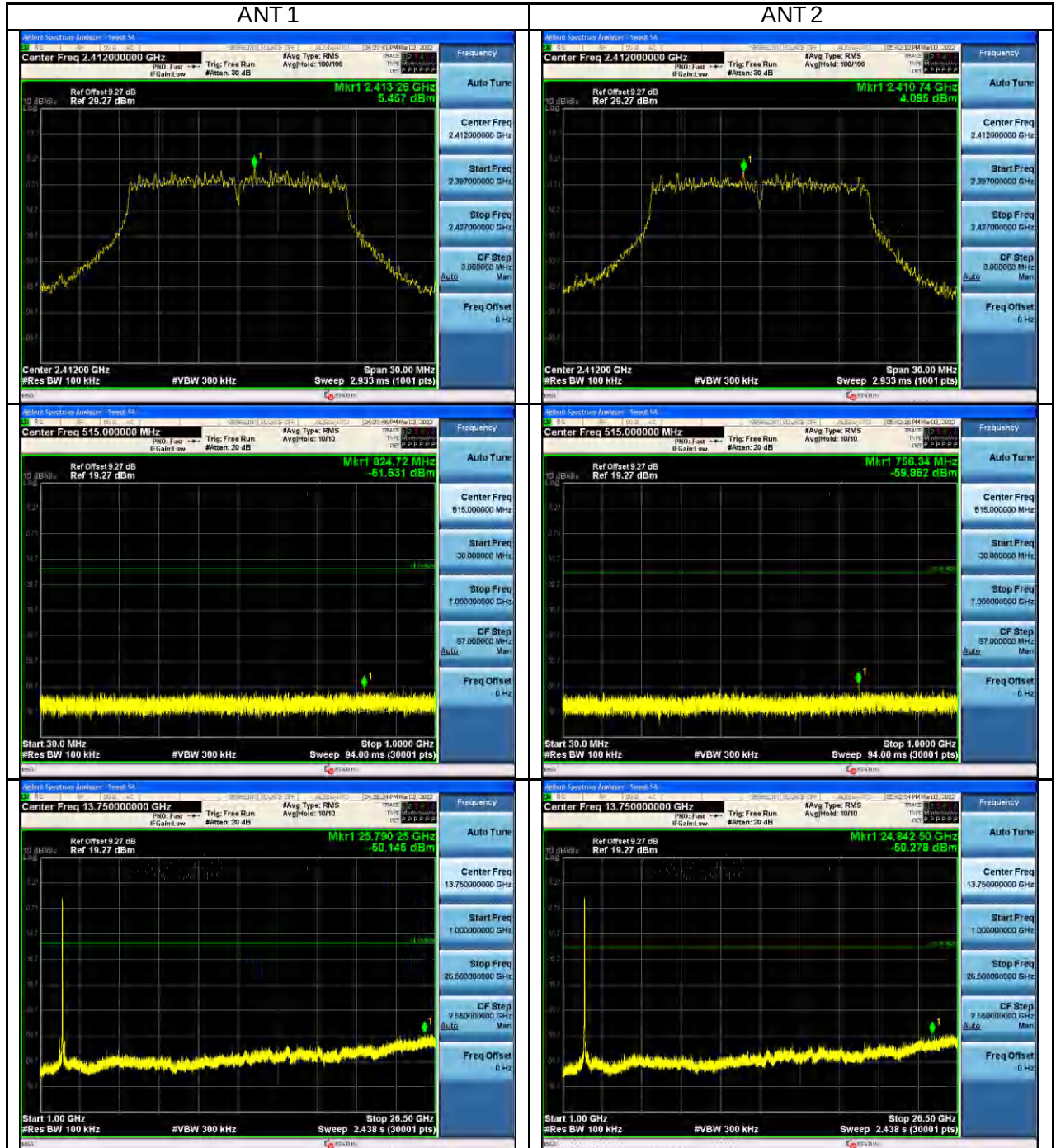
Middle Channel:



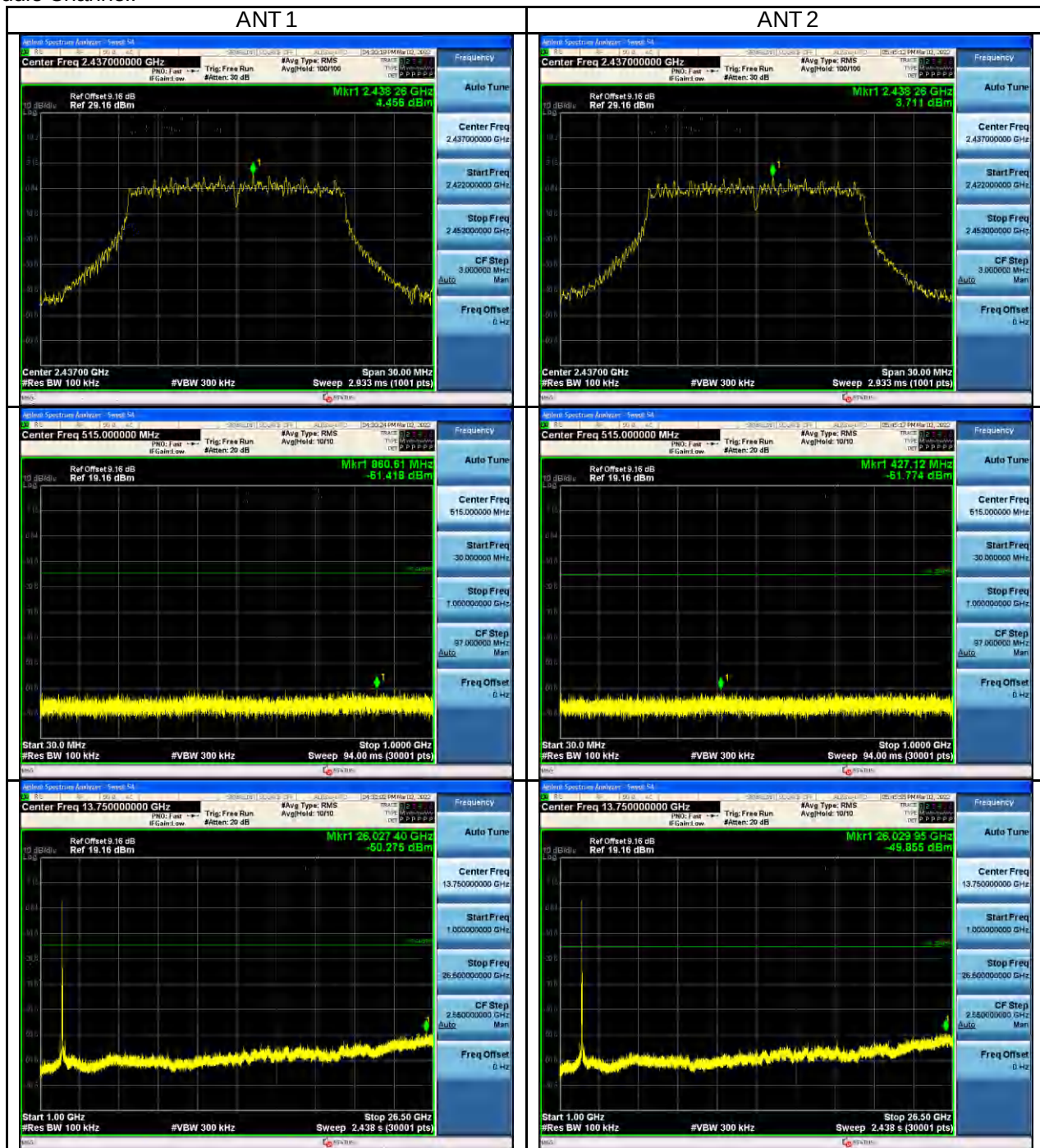
High Channel:



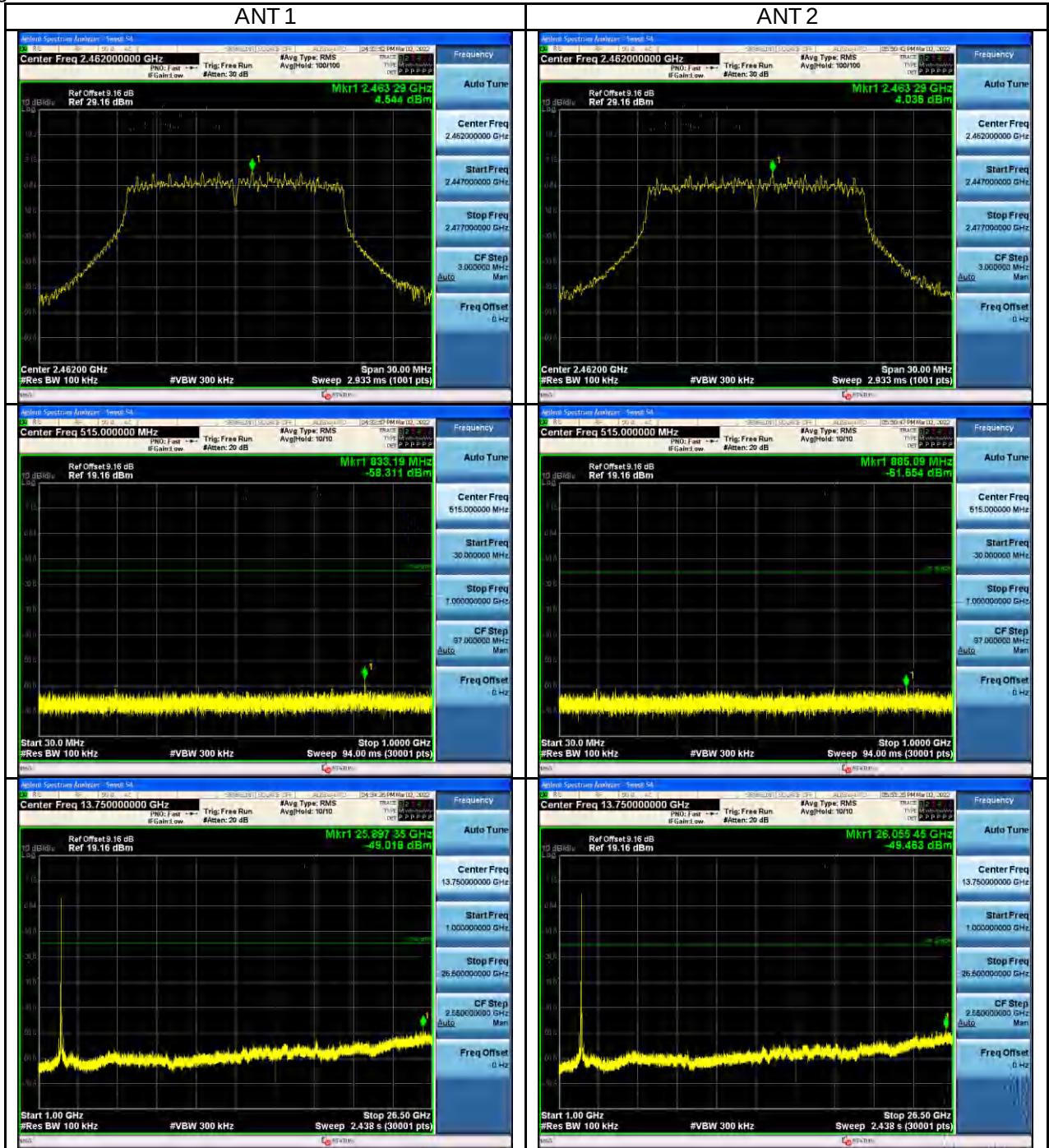
Wi-Fi 802.11 g mode, 6 Mbps
Low Channel:



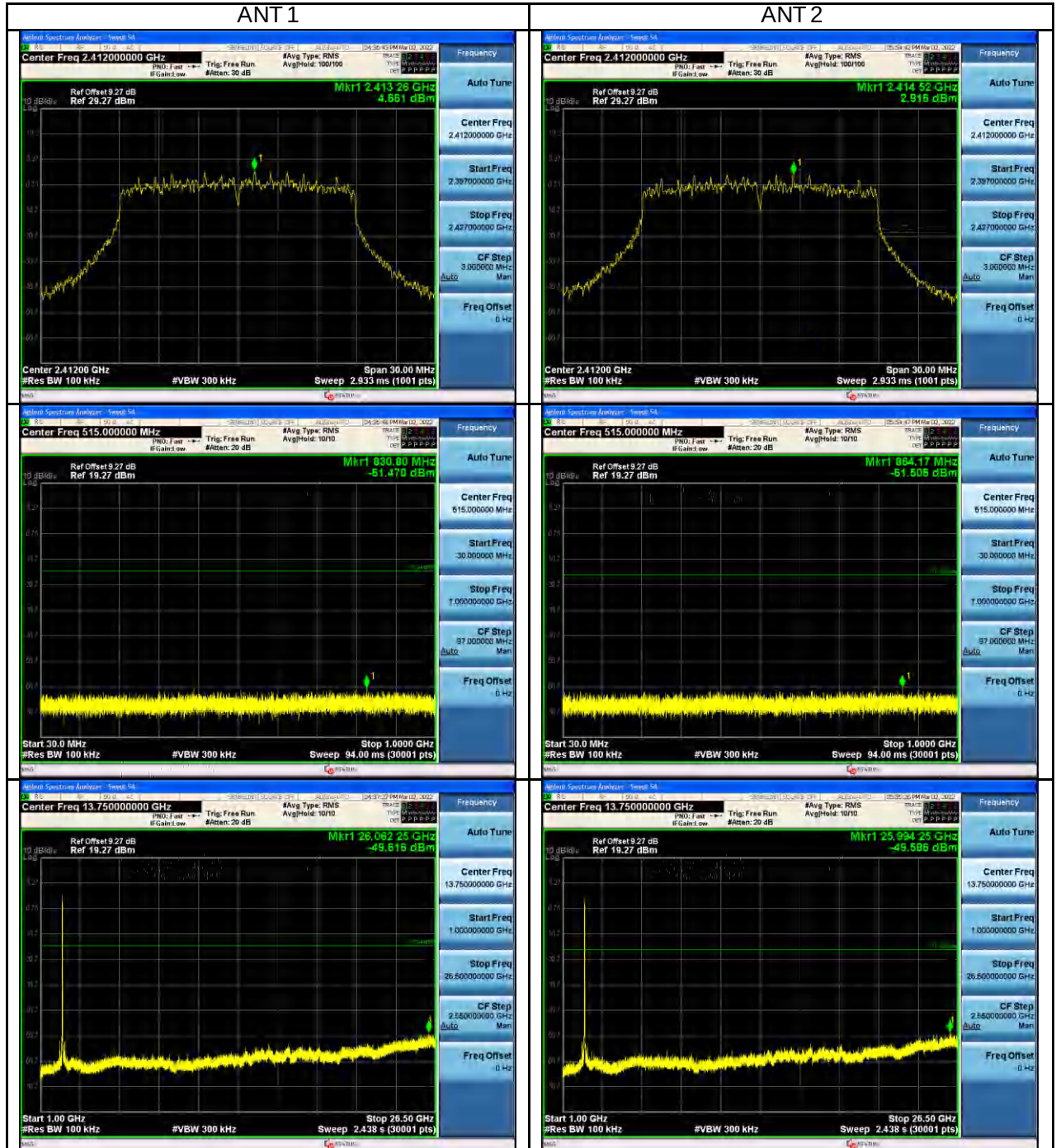
Middle Channel:



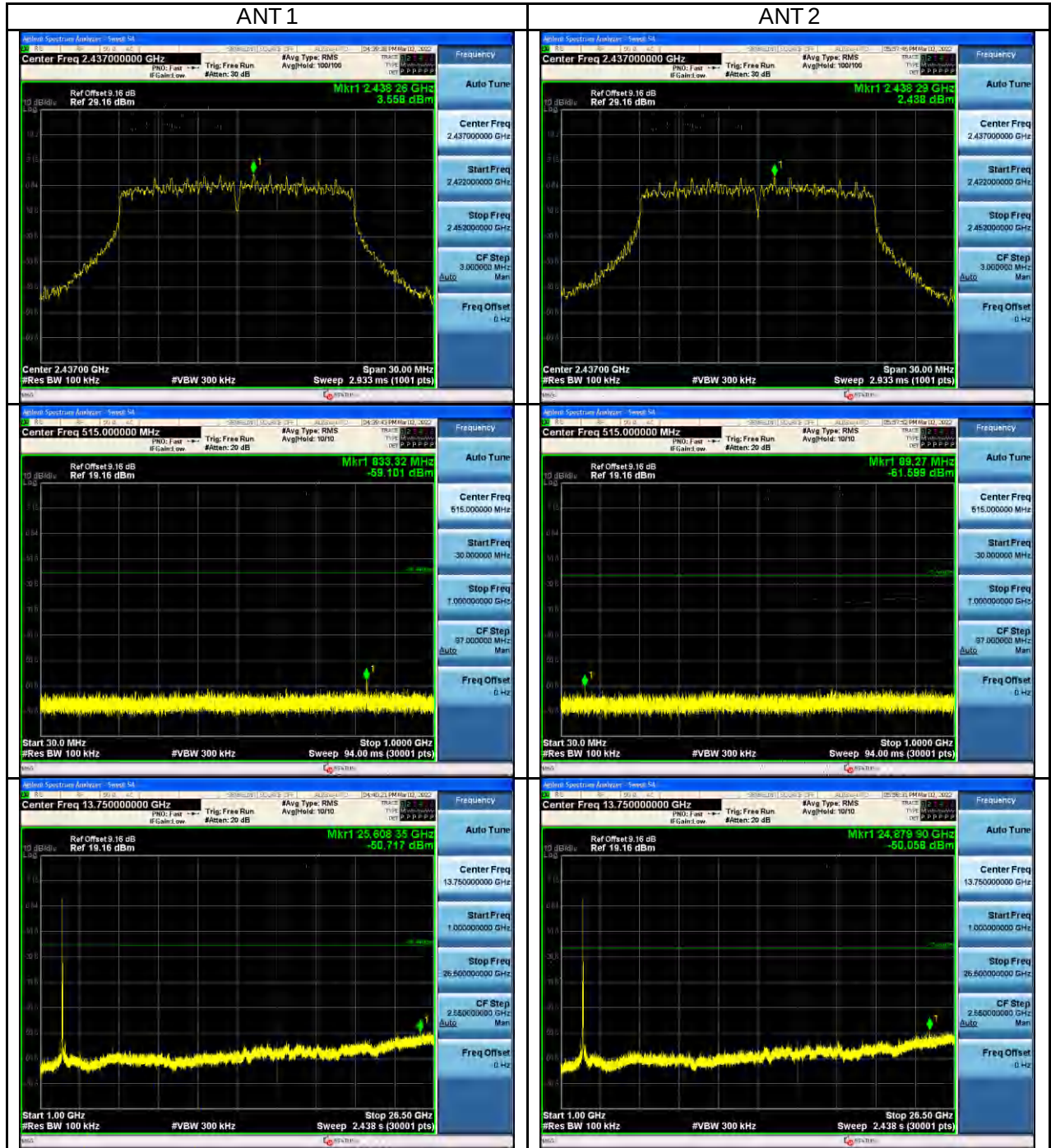
High Channel:



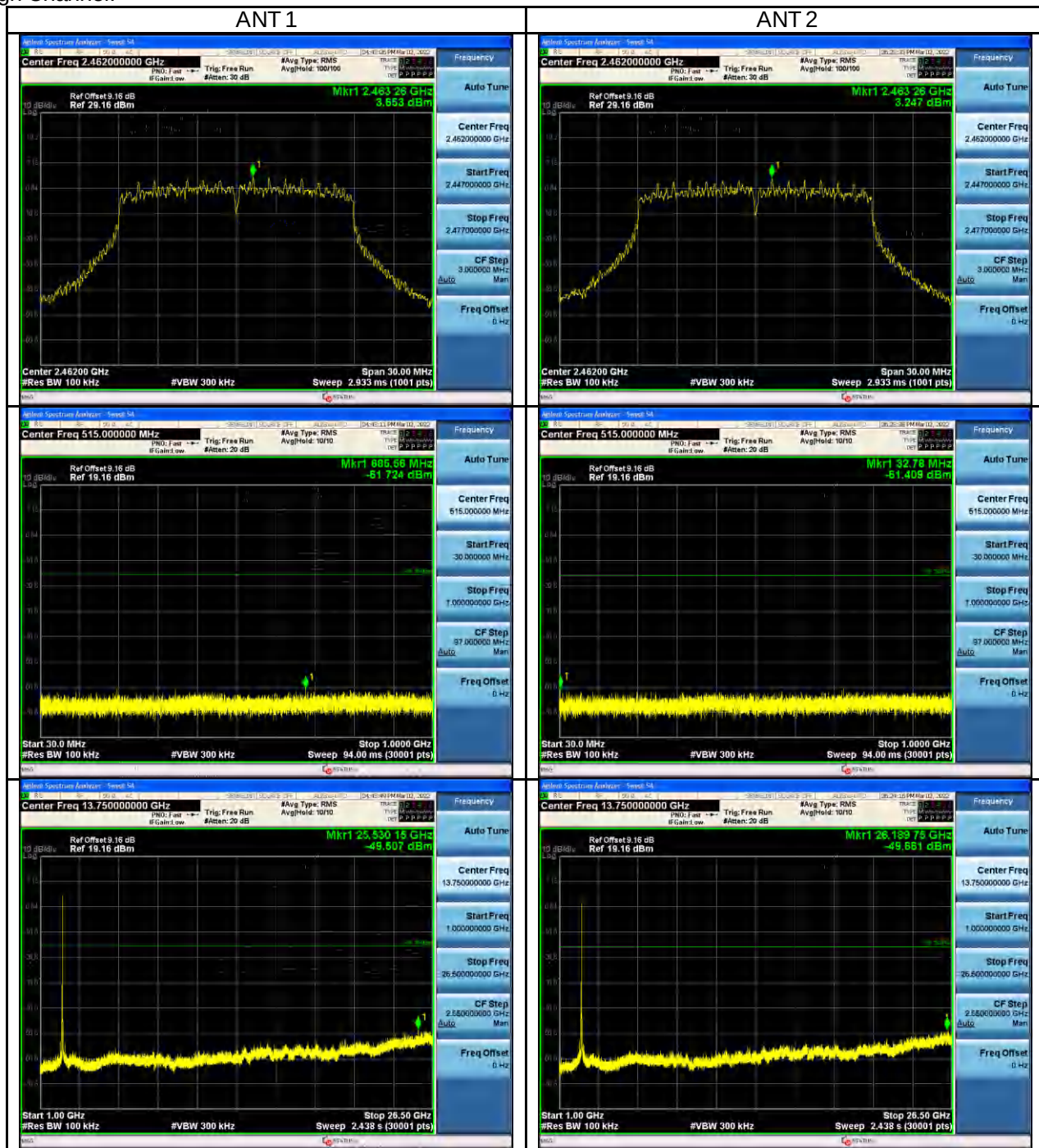
Wi-Fi 802.11 n(HT20) mode, MCS0
Low Channel:



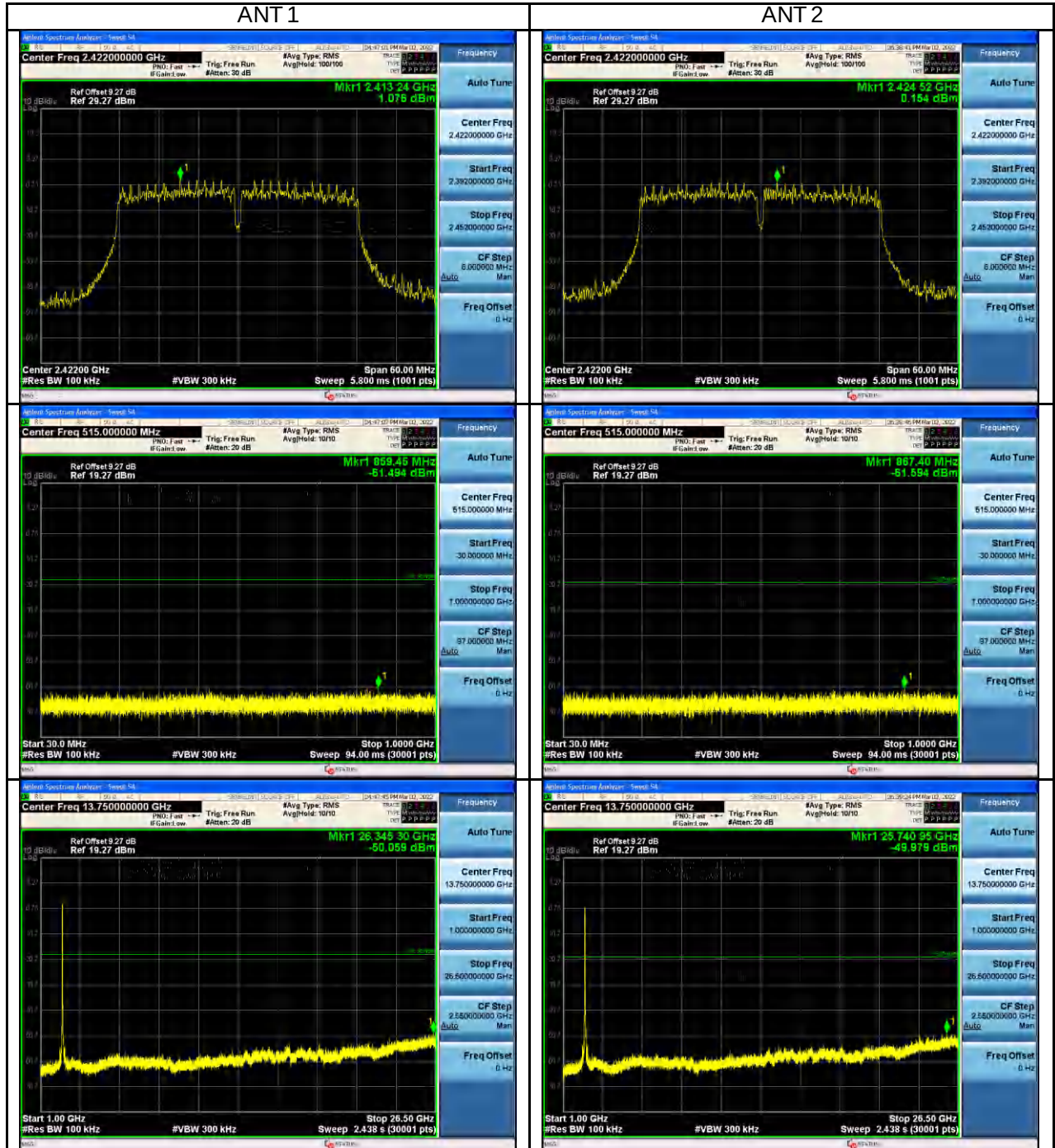
Middle Channel:



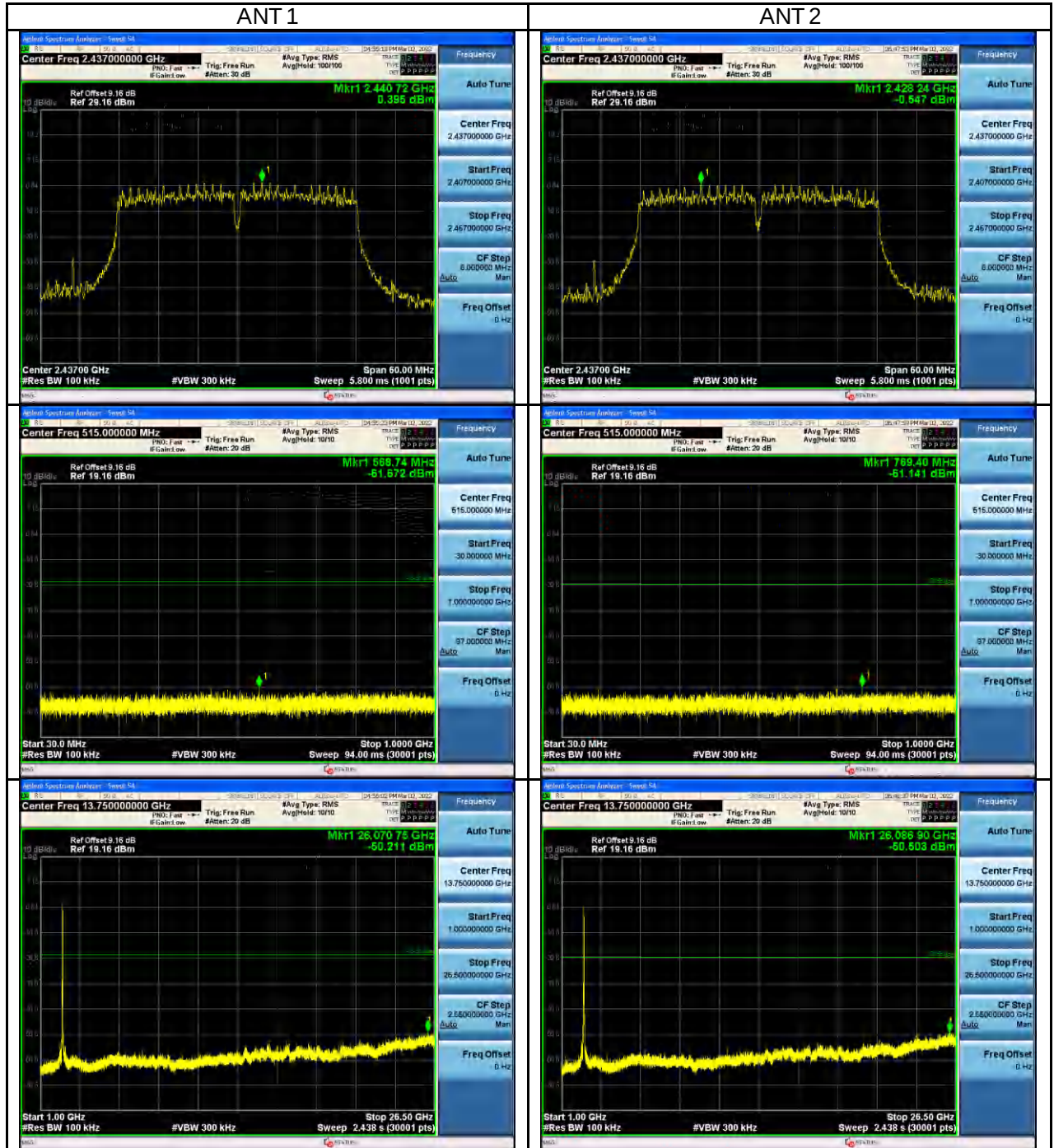
High Channel:



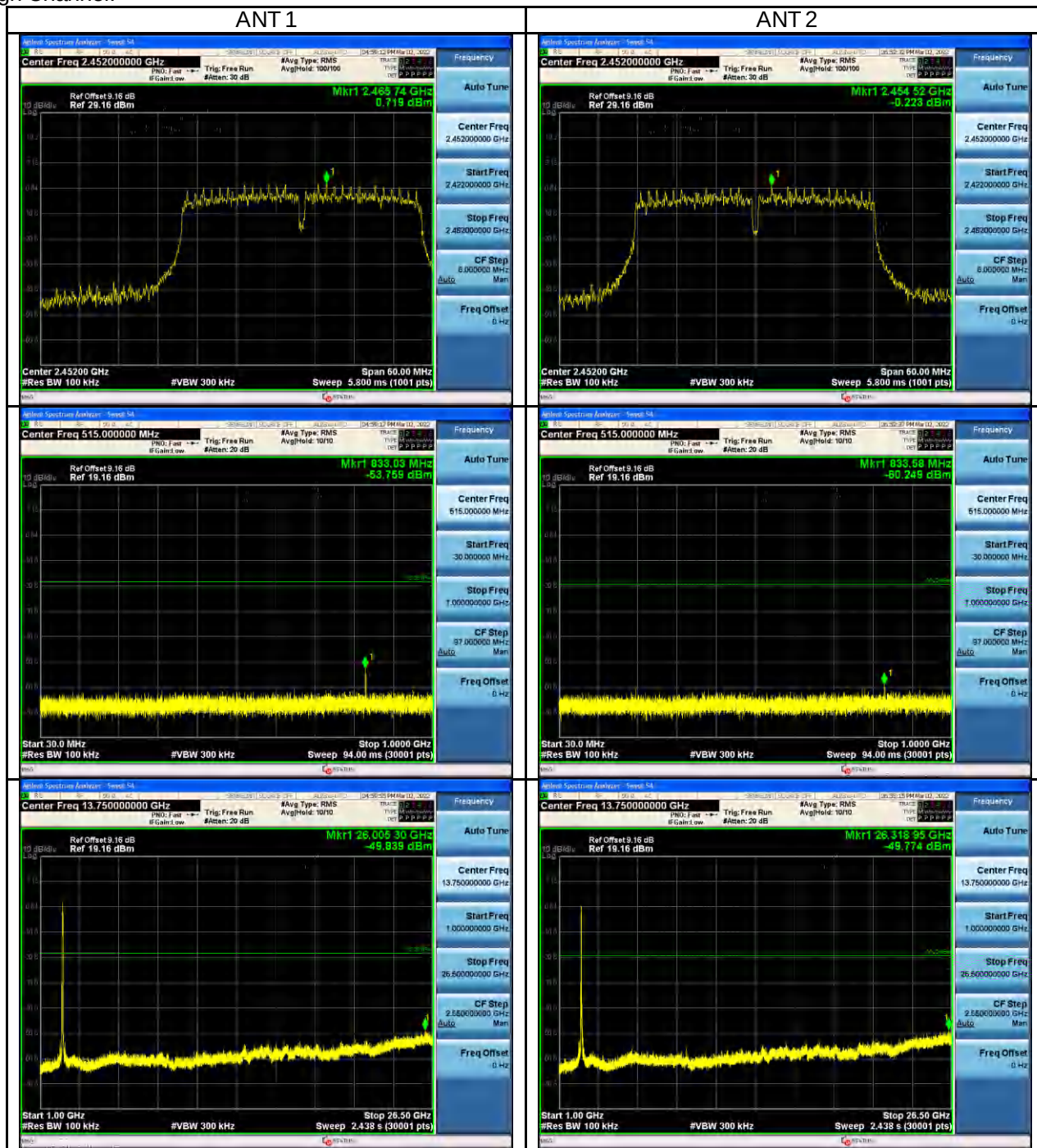
Wi-Fi 802.11 n(HT40) mode, MCS0
Low Channel:



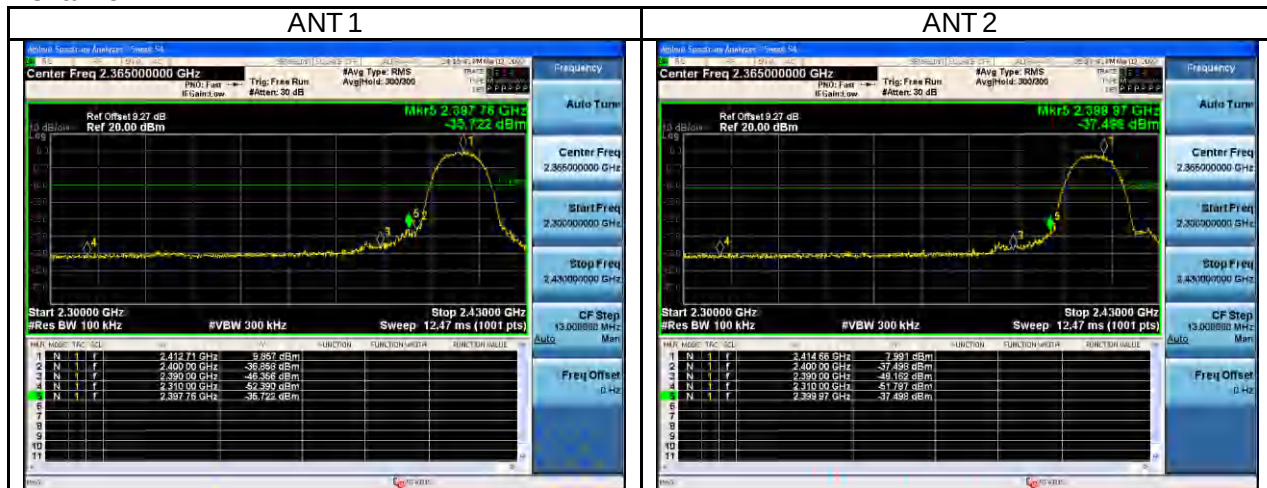
Middle Channel:



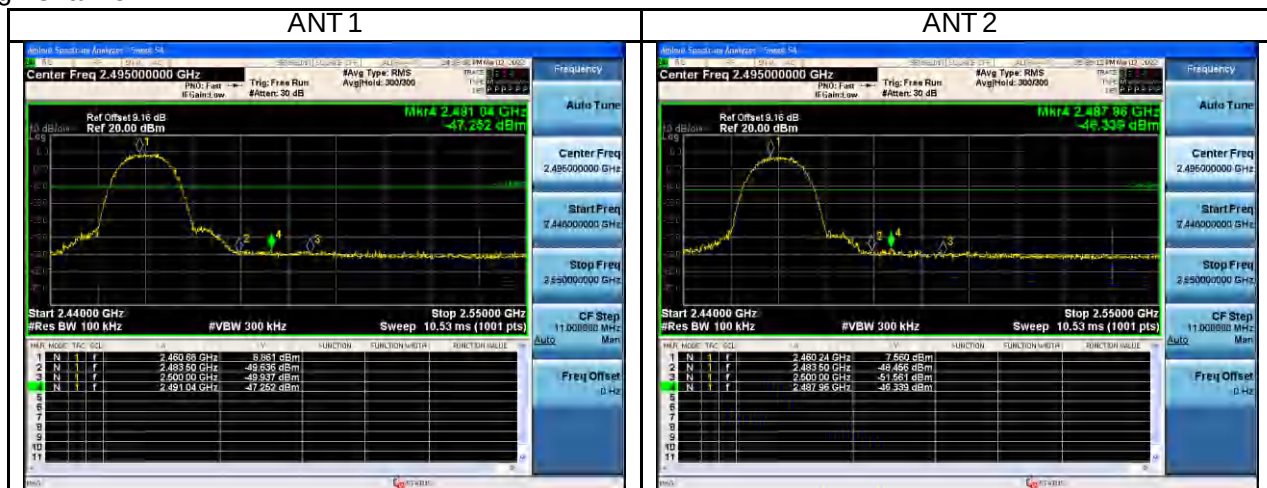
High Channel:



Wi-Fi 802.11 b mode, Band Edge
Low Channel:

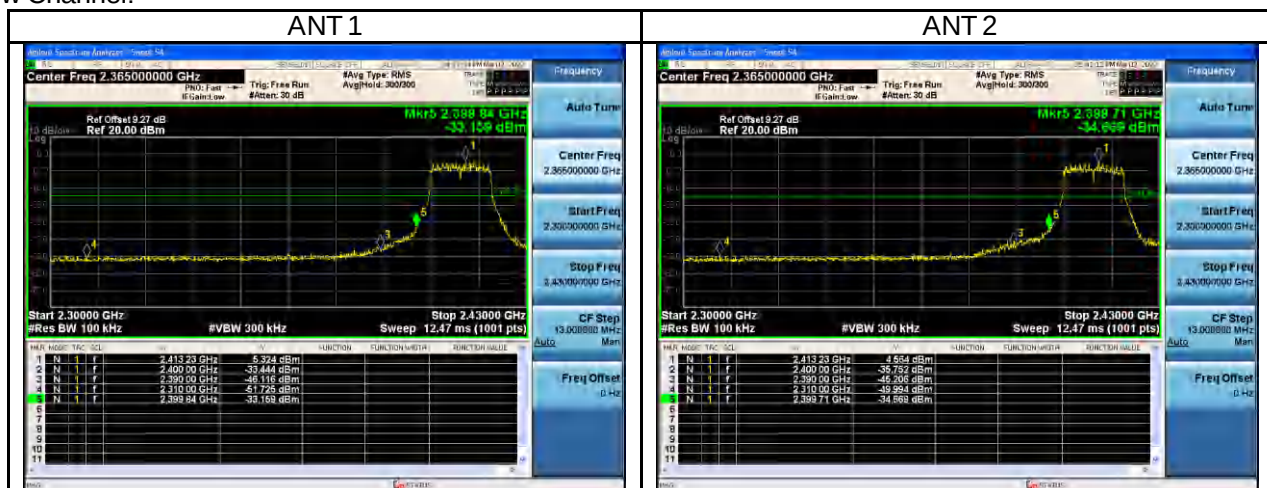


High Channel:

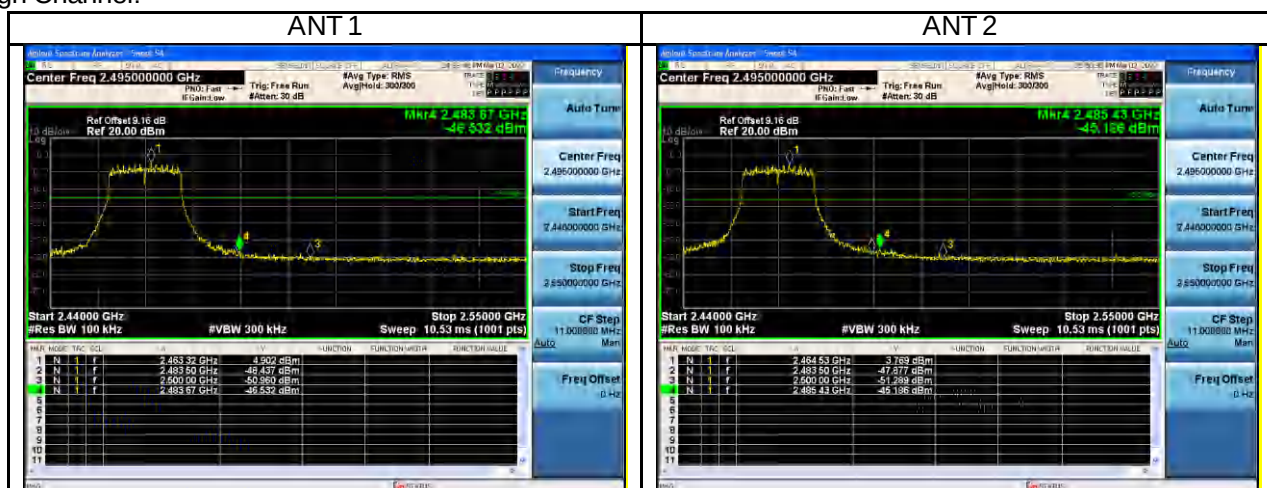


Wi-Fi 802.11 g mode, Band Edge

Low Channel:

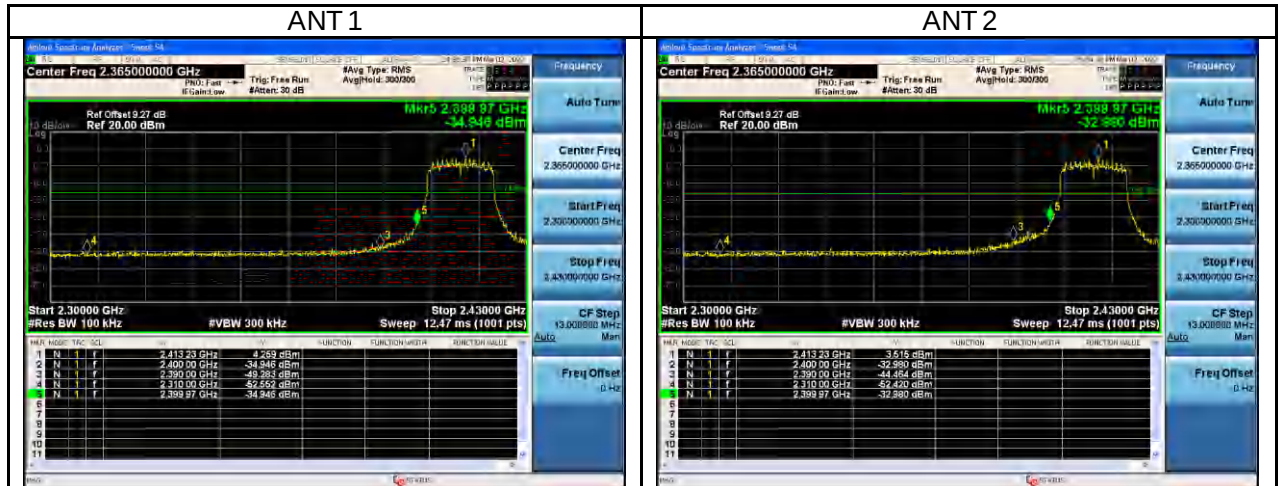


High Channel:

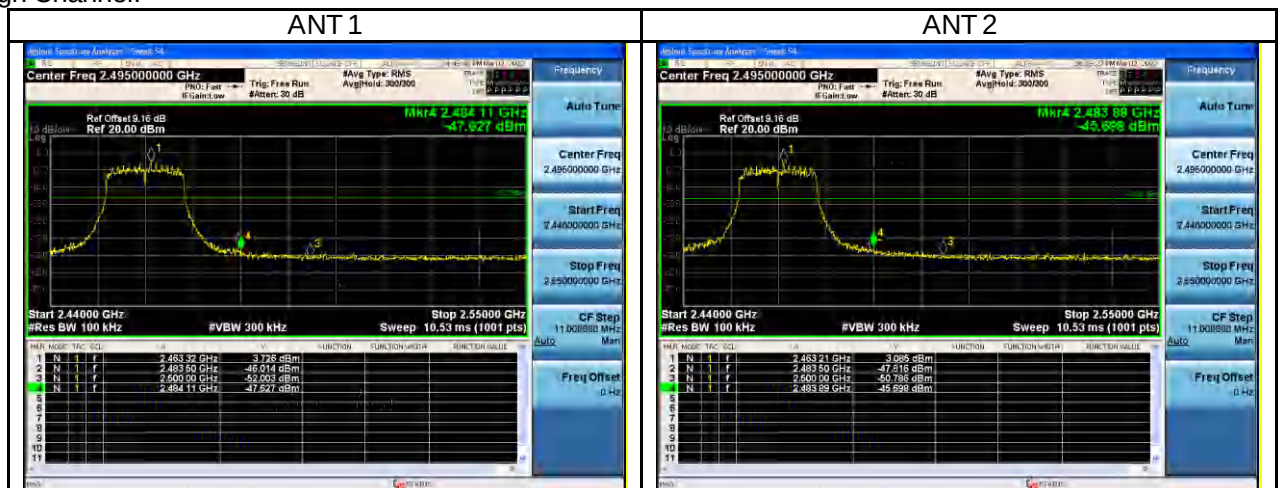


Wi-Fi 802.11 n(HT20) mode, Band Edge

Low Channel:

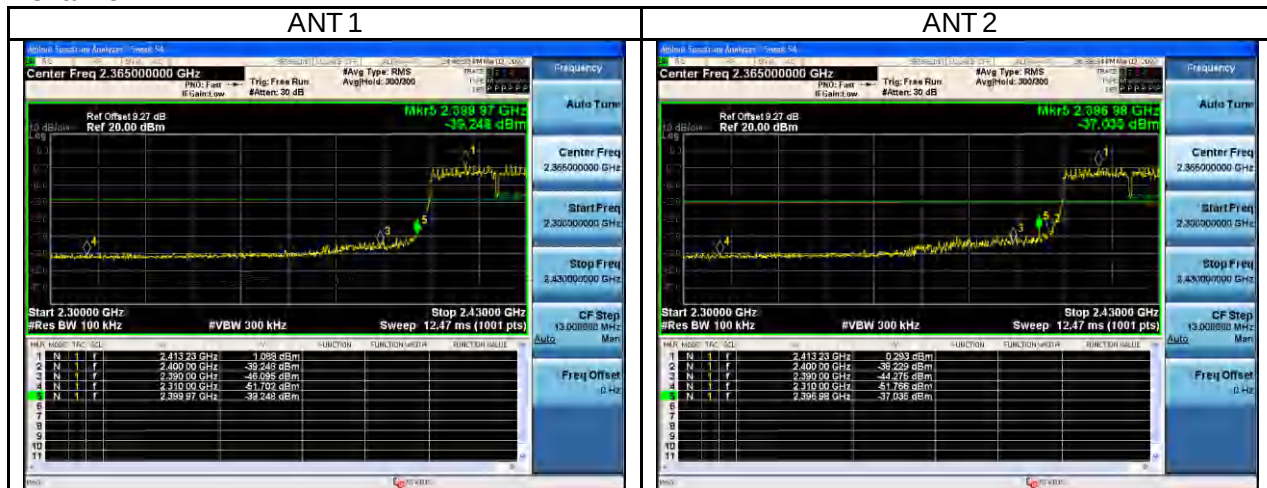


High Channel:

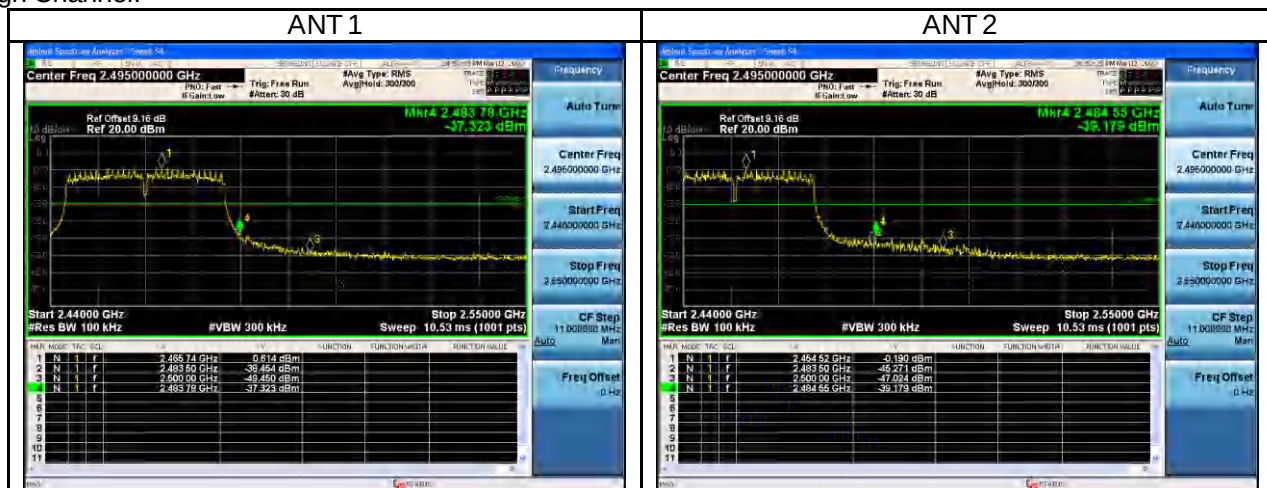


Wi-Fi 802.11 n(HT40) mode, Band Edge

Low Channel:



High Channel:



Appendix B.5: Test Results of Radiated Spurious Emissions

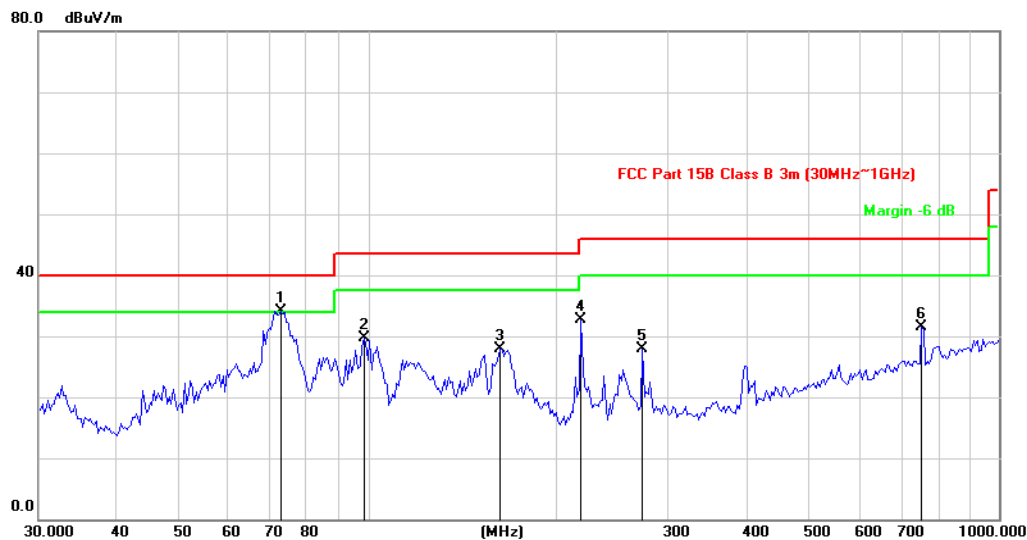
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

Wi-Fi Module 1 (model: nxp8997):

EUT Information

EUT Name:	Smart interactive whiteboard
Model:	DHI-LCH75-MC410-B
Test Mode:	WIFI 2.4G_11b_Ch1
Test Voltage:	AC120V/60Hz
Remark:	Temp 23.6 Humi:46.2%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Tank Tan

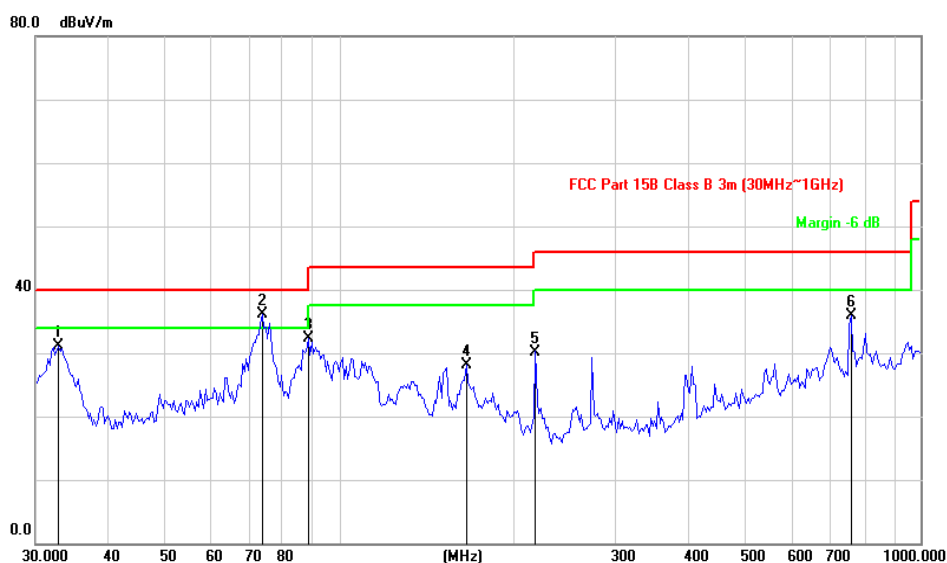


Critical_Freqs

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.7203	34.09	40.00	-5.91	200	H	132	-17.23
98.3752	29.64	43.50	-13.86	300	H	184	-17.59
162.0197	27.99	43.50	-15.51	200	H	154	-12.94
217.6437	32.78	46.00	-13.22	200	H	211	-16.22
272.5246	27.95	46.00	-18.05	200	H	212	-14.77
754.9628	31.48	46.00	-14.52	300	H	294	-3.90

EUT Information

EUT Name: Smart interactive whiteboard
 Model: DHI-LCH75-MC410-B
 Test Mode: WIFI 2.4G_11b_Ch1
 Test Voltage: AC120V/60Hz
 Remark: Temp 23.6 Humi:46.2%
 Test Standard: FCC 15.247
 Tested By: Jim Xu
 Reviewed By: Tank Tan

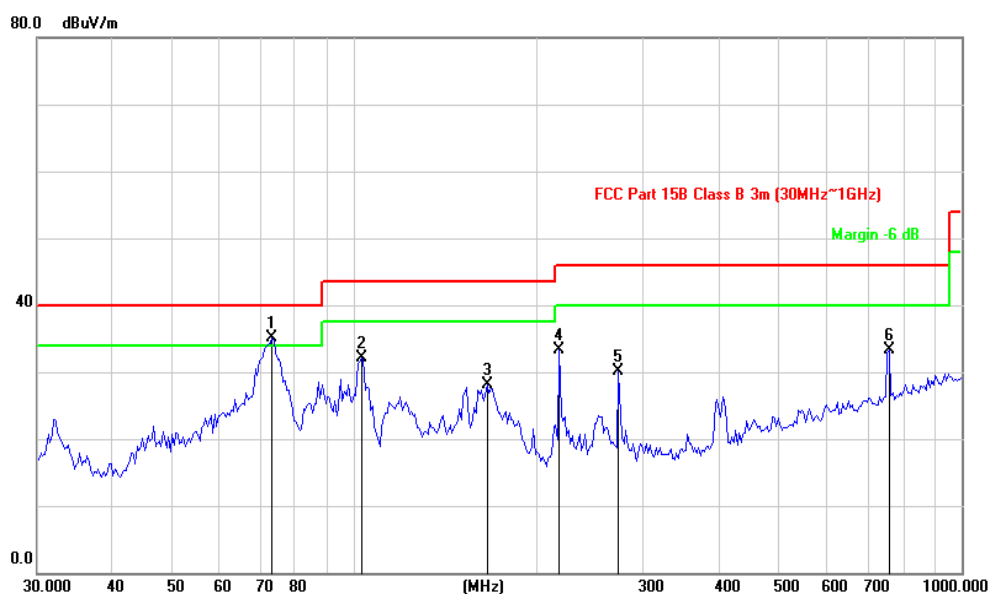


Critical_Freqs

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.8697	31.03	40.00	-8.97	200	V	322	-16.79
73.7496	36.01	40.00	-3.99	200	V	124	-17.28
88.5336	32.38	43.50	-11.12	100	V	183	-18.38
165.4716	28.03	43.50	-15.47	200	V	148	-12.81
217.6437	30.20	46.00	-15.80	100	V	164	-16.22
760.2867	35.95	46.00	-10.05	100	V	201	-3.82

EUT Information

EUT Name: Smart interactive whiteboard
 Model: DHI-LCH75-MC410-B
 Test Mode: WIFI 2.4G_11b_Ch11
 Test Voltage: AC120V/60Hz
 Remark: Temp 23.6 Humi:46.2%
 Test Standard: FCC 15.247
 Tested By: Jim Xu
 Reviewed By: Tank Tan

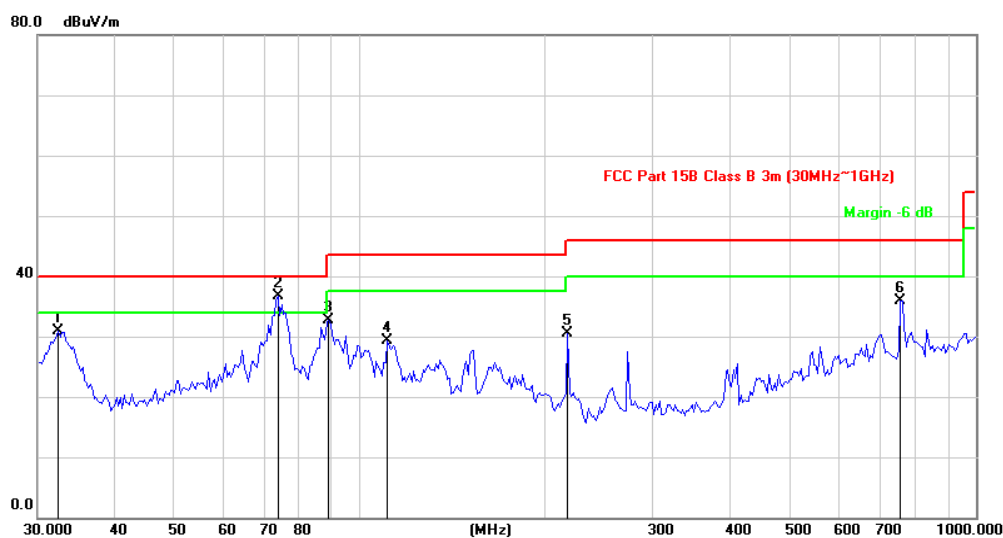


Critical_Freqs

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
73.2331	35.09	40.00	-4.91	200	H	218	-17.27
102.6117	32.11	43.50	-11.39	200	H	211	-17.33
165.4716	28.10	43.50	-15.40	200	H	146	-12.81
217.6437	33.36	46.00	-12.64	300	H	294	-16.22
272.5246	30.08	46.00	-15.92	200	H	231	-14.77
760.2867	33.31	46.00	-12.69	300	H	214	-3.82

EUT Information

EUT Name: Smart interactive whiteboard
 Model: DHI-LCH75-MC410-B
 Test Mode: WIFI 2.4G_11b_Ch11
 Test Voltage: AC120V/60Hz
 Remark: Temp 23.6 Humi:46.2%
 Test Standard: FCC 15.247
 Tested By: Jim Xu
 Reviewed By: Tank Tan



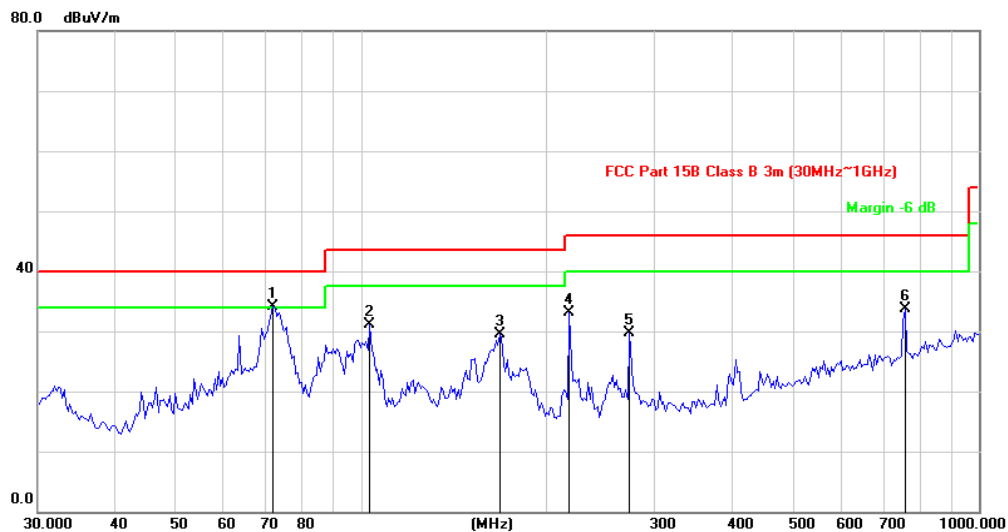
Critical_Freqs

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.4109	30.86	40.00	-9.14	100	V	321	-16.79
73.7496	36.75	40.00	-3.25	100	V	151	-17.28
89.1579	32.80	43.50	-10.70	100	V	148	-18.44
110.8581	29.32	43.50	-14.18	200	V	122	-16.96
217.6437	30.57	46.00	-15.43	200	V	165	-16.22
754.9628	35.96	46.00	-10.04	100	V	248	-3.90

Wi-Fi Module 2: (model: 8812 CU)

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Ch1
Test Voltage: AC120V/60Hz
Remark: Temp 23.6 Humi:46.2%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

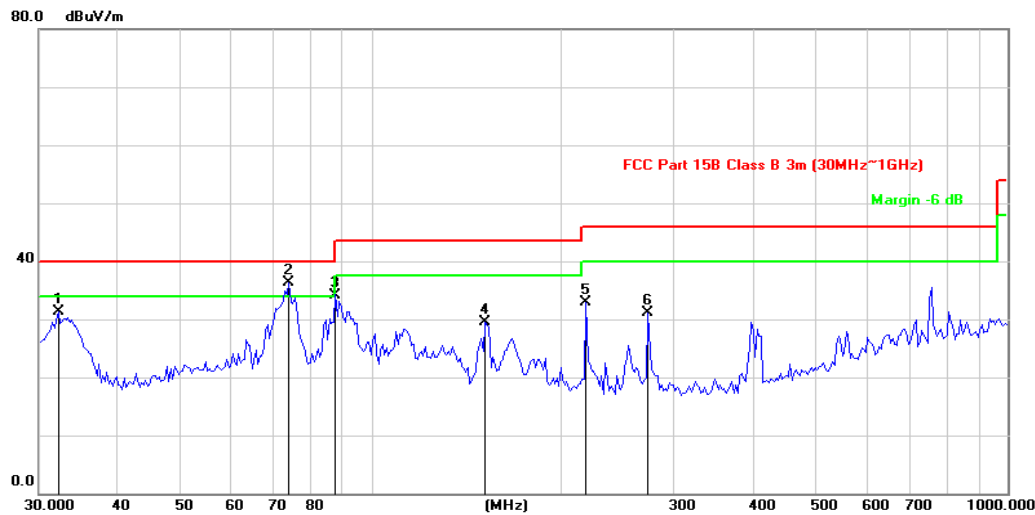


Critical_Freqs

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.2111	34.18	40.00	-5.82	200	H	124	-17.20
103.3353	31.13	43.50	-12.37	300	H	167	-17.29
167.8136	29.44	43.50	-14.06	200	H	284	-12.73
217.6437	33.07	46.00	-12.93	200	H	116	-16.22
272.5246	29.63	46.00	-16.37	300	H	284	-14.77
760.2867	33.63	46.00	-12.37	200	H	175	-3.82

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Ch1
Test Voltage: AC120V/60Hz
Remark: Temp 23.6 Humi:46.2%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

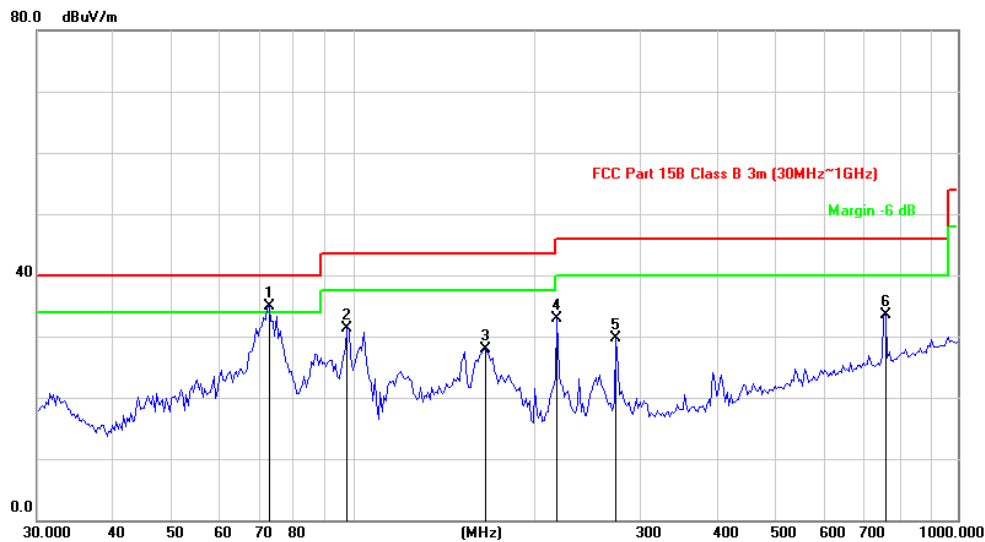


Critical_Freqs

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.1840	31.31	40.00	-8.69	100	V	162	-16.79
74.2696	36.32	40.00	-3.68	200	V	162	-17.32
87.9136	34.20	40.00	-5.80	100	V	248	-18.33
151.0252	29.55	43.50	-13.95	200	V	232	-14.48
217.6437	32.87	46.00	-13.13	100	V	176	-16.22
272.5246	31.12	46.00	-14.88	200	V	210	-14.77

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Ch11
Test Voltage: AC120V/60Hz
Remark: Temp 23.6 Humi:46.2%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

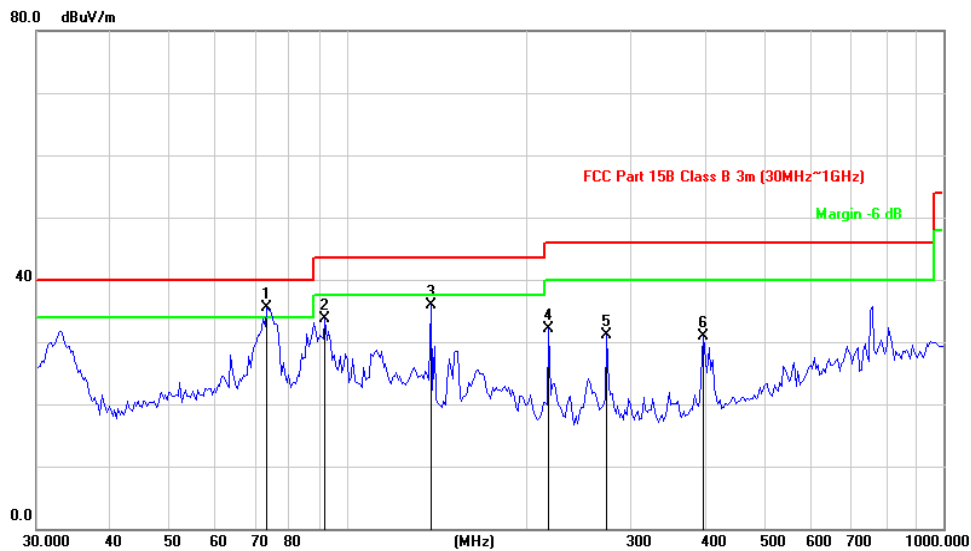


Critical_Freqs

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
72.7203	34.96	40.00	-5.04	300	H	115	-17.23
97.6864	31.27	43.50	-12.23	200	H	221	-17.66
165.4716	27.82	43.50	-15.68	200	H	148	-12.81
217.6437	33.00	46.00	-13.00	200	H	122	-16.22
272.5246	29.65	46.00	-16.35	300	H	136	-14.77
760.2867	33.44	46.00	-12.56	200	H	245	-3.82

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Ch11
Test Voltage: AC120V/60Hz
Remark: Temp 23.6 Humi:46.2%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan



Critical_Freqs

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
73.2330	35.45	40.00	-4.55	100	V	100	-17.27
91.6994	33.65	43.50	-9.85	100	V	100	-18.33
137.8400	35.91	43.50	-7.59	200	V	200	-15.15
217.6436	32.16	46.00	-13.84	200	V	200	-16.22
272.5246	31.12	46.00	-14.88	200	V	200	-14.77
395.5070	30.87	46.00	-15.13	100	V	100	-11.99

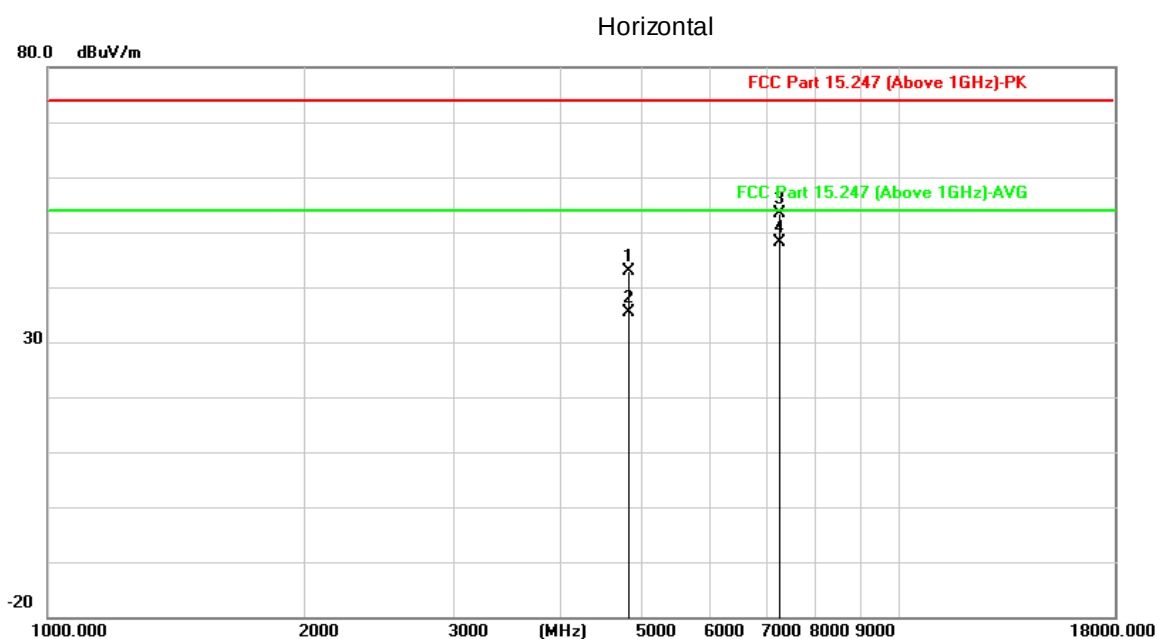
1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

Wi-Fi Module 1 (model: nxp8997):

EUT Information

EUT Name:	Smart interactive whiteboard
Model:	DHI-LCH75-MC410-B
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage:	AC120V/60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Tank Tan

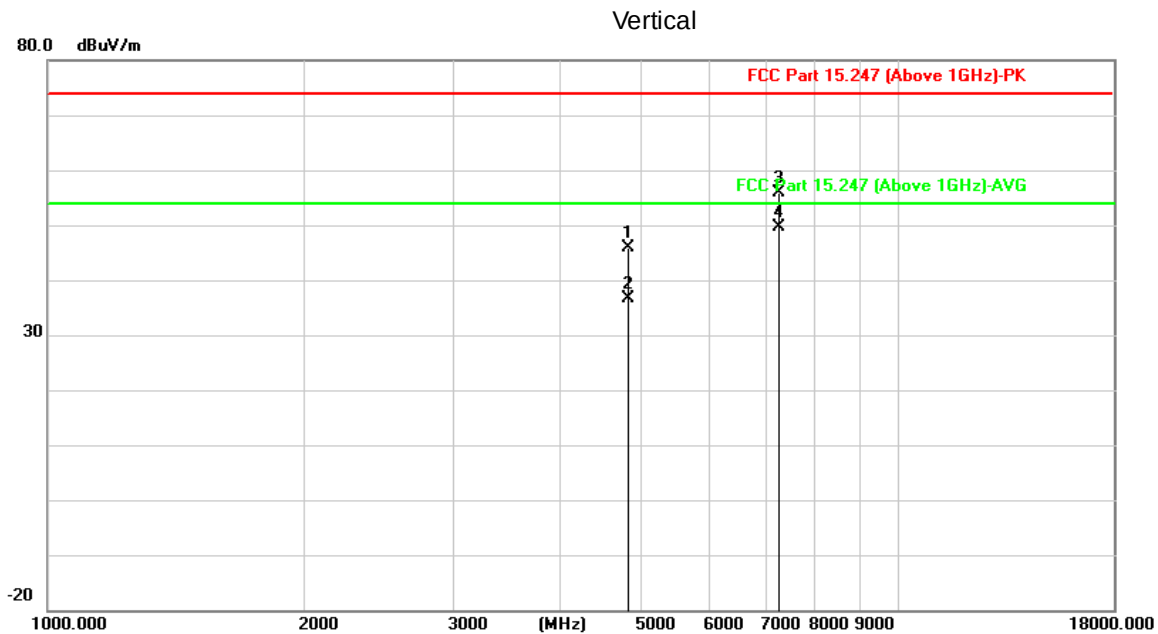


Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4824.000	39.96	2.89	42.85	74.00	-31.15	peak	100	200
4824.000	32.37	2.89	35.26	54.00	-18.74	AVG	100	200
7236.000	43.98	9.47	53.45	74.00	-20.55	peak	160	300
7236.000	38.68	9.47	48.15	54.00	-5.85	AVG	160	300

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Low channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

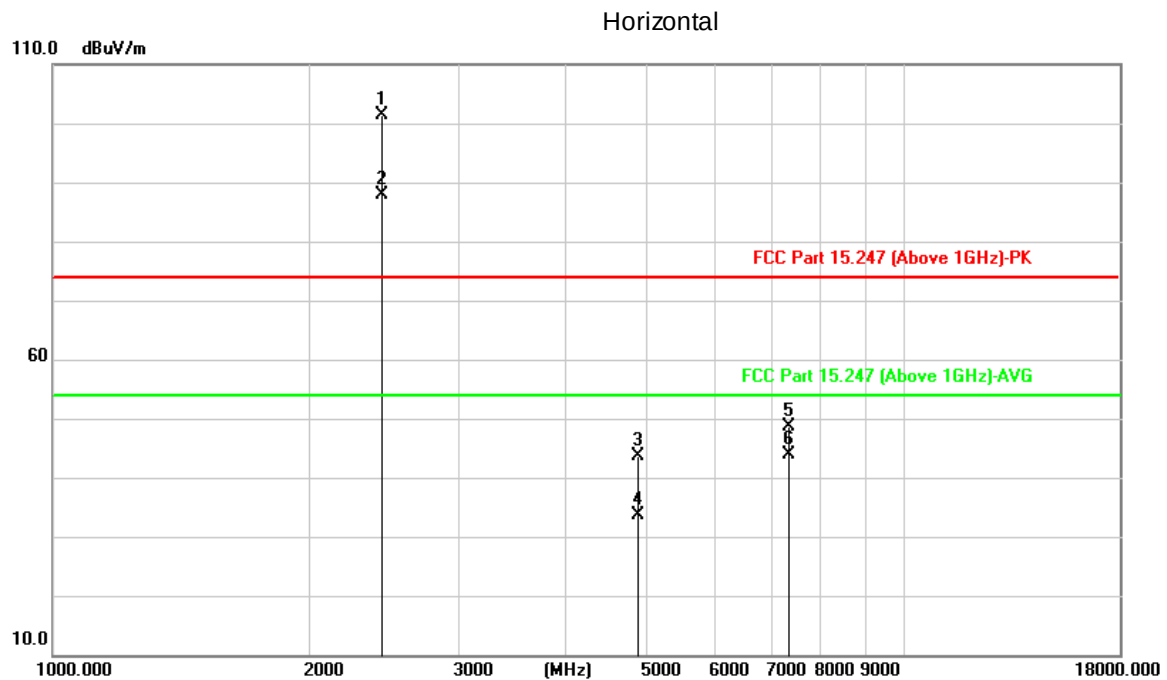


Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4824.000	43.08	2.89	45.97	74.00	-28.03	peak	130	100
4824.000	33.65	2.89	36.54	54.00	-17.46	AVG	130	100
7236.000	46.46	9.47	55.93	74.00	-18.07	peak	200	250
7236.000	40.18	9.47	49.65	54.00	-4.35	AVG	200	250

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Mid channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

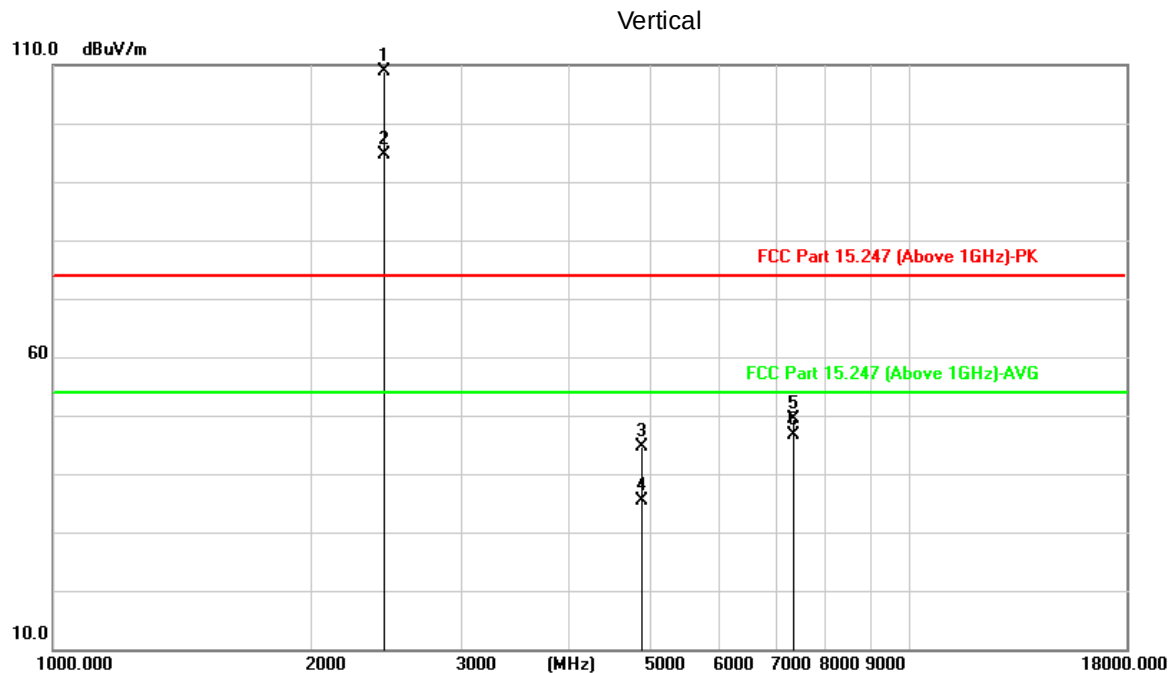


Critical Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
2437.000	103.84	-2.34	101.50			peak	210	360
2437.000	90.26	-2.34	87.92			AVG	210	360
4874.000	40.17	3.50	43.67	74.00	-30.33	peak	100	100
4874.000	30.07	3.50	33.57	54.00	-20.43	AVG	100	100
7311.000	38.92	9.63	48.55	74.00	-25.45	peak	100	280
7311.000	34.15	9.63	43.78	54.00	-10.22	AVG	100	280

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_Mid channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan



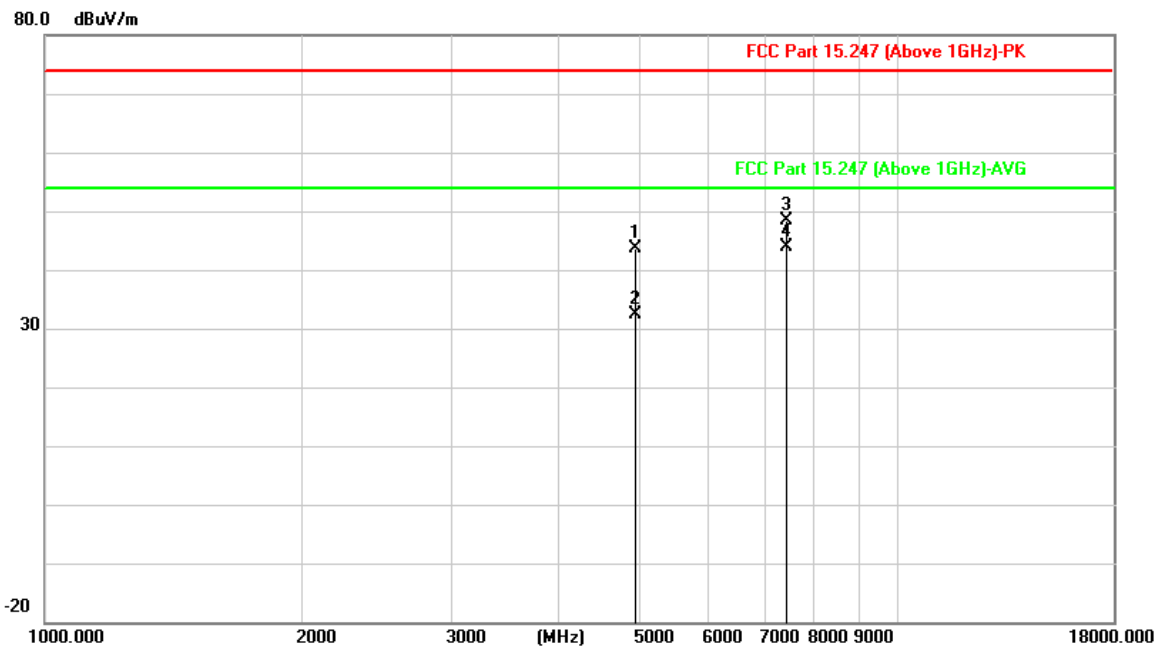
Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
2437.000	111.11	-2.34	108.77			peak	230	360
2437.000	96.85	-2.34	94.51			AVG	230	360
4874.000	41.18	3.50	44.68	74.00	-29.32	peak	100	250
4874.000	31.99	3.50	35.49	54.00	-18.51	AVG	100	250
7311.000	39.71	9.63	49.34	74.00	-24.66	peak	100	300

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_High channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

Horizontal

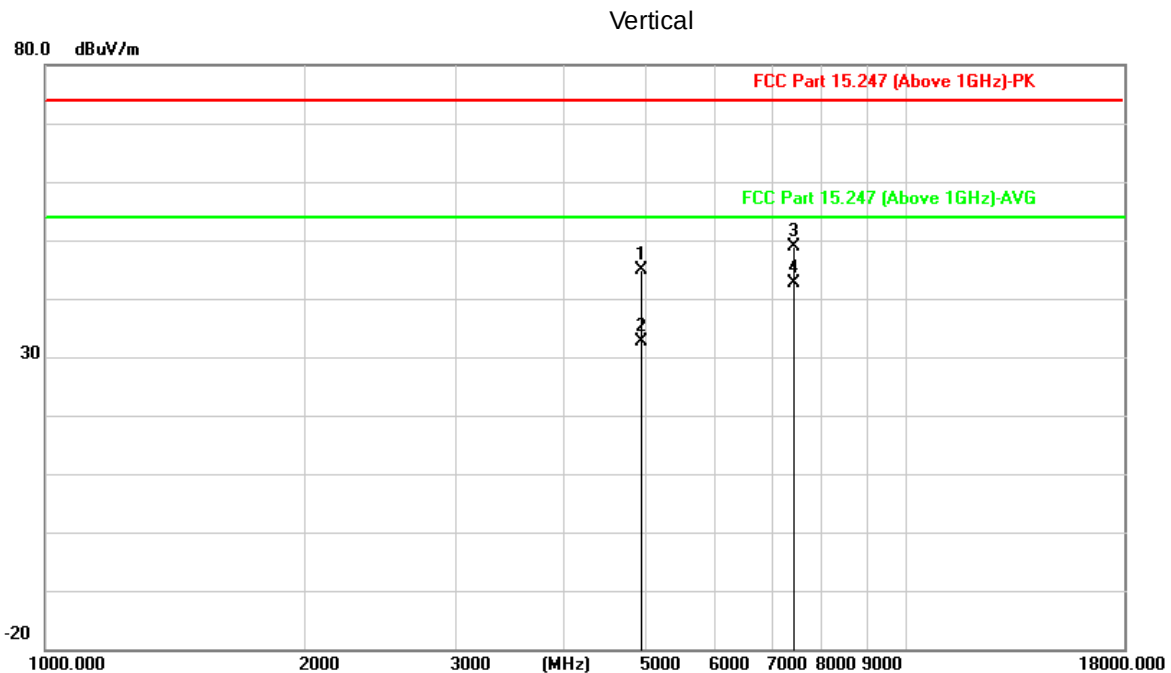


Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4924.000	39.97	3.70	43.67	74.00	-30.33	peak	100	310
4924.000	28.58	3.70	32.28	54.00	-21.72	AVG	100	310
7386.000	38.57	9.77	48.34	74.00	-25.66	peak	100	100
7386.000	34.08	9.77	43.85	54.00	-10.15	AVG	100	100

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11b_ High channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

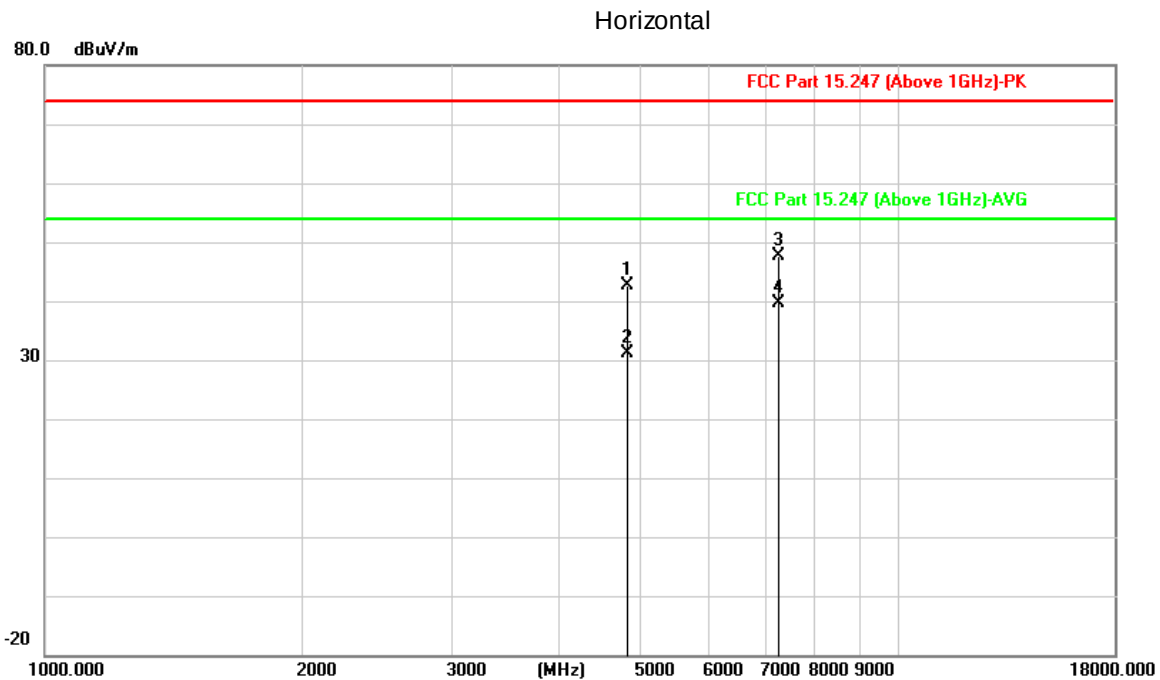


Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4924.000	41.28	3.70	44.98	74.00	-29.02	peak	100	140
4924.000	28.95	3.70	32.65	54.00	-21.35	AVG	100	140
7386.000	39.20	9.77	48.97	74.00	-25.03	peak	100	260
7386.000	32.89	9.77	42.66	54.00	-11.34	AVG	100	260

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11g_Low channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan

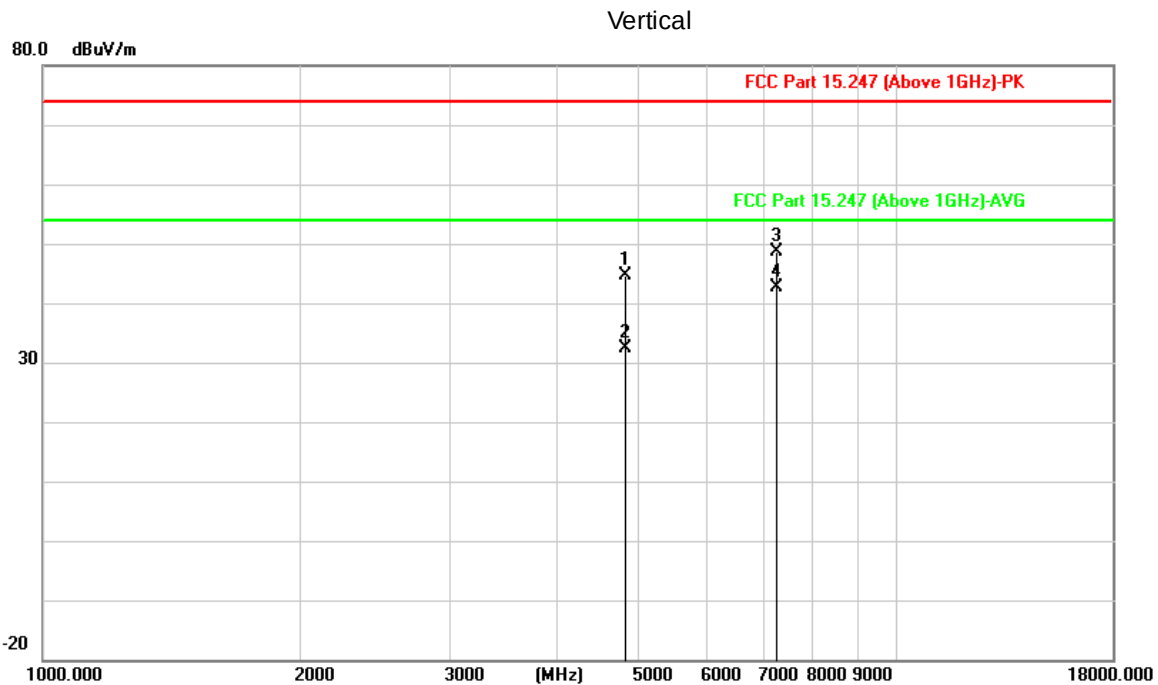


Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4824.000	39.78	2.89	42.67	74.00	-31.33	peak	100	100
4824.000	28.33	2.89	31.22	54.00	-22.78	AVG	100	100
7236.000	38.13	9.47	47.60	74.00	-26.40	peak	100	130
7236.000	30.09	9.47	39.56	54.00	-14.44	AVG	100	130

EUT Information

EUT Name: Smart interactive whiteboard
Model: DHI-LCH75-MC410-B
Test Mode: WIFI 2.4G_11g_Low channel
Test Voltage: AC120V/60Hz
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Tank Tan



Critical_Freqs

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
4824.000	41.80	2.89	44.69	74.00	-29.31	peak	100	200
4824.000	29.56	2.89	32.45	54.00	-21.55	AVG	100	200
7236.000	39.20	9.47	48.67	74.00	-25.33	peak	180	100
7236.000	33.16	9.47	42.63	54.00	-11.37	AVG	180	100