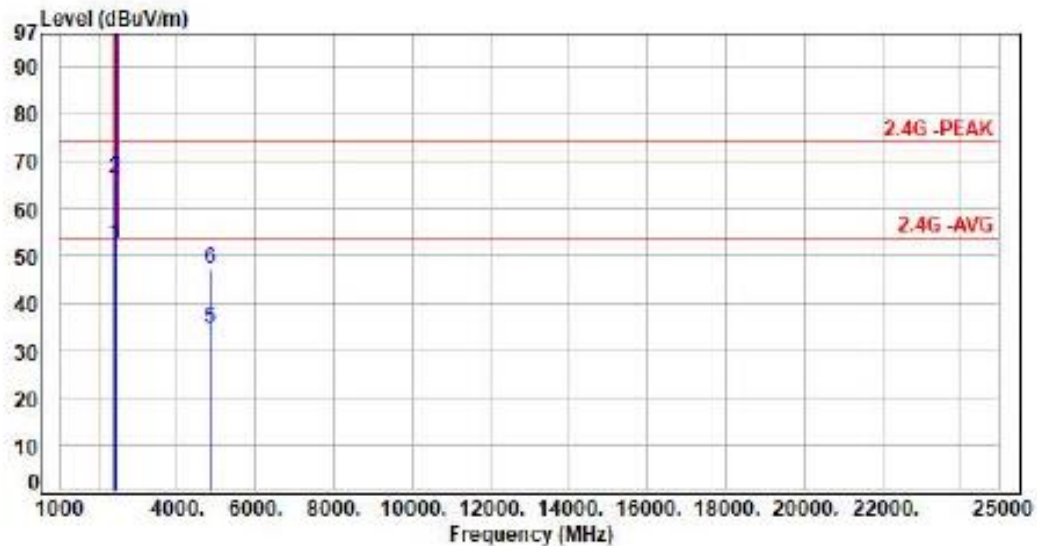




MIMO

Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	54.74	52.41	54.00	-1.59	Average	257	72	P
2	2390.00	-2.33	68.89	66.56	74.00	-7.44	Peak	257	72	P
3	2412.00	-2.29	103.27	100.98	200.00	-99.02	Average	257	72	P
4	2412.00	-2.29	116.75	114.46	200.00	-85.54	Peak	257	72	P
5	4824.00	5.95	28.63	34.58	54.00	-19.42	Average	100	187	P
6	4824.00	5.95	41.42	47.37	74.00	-26.63	Peak	100	187	P

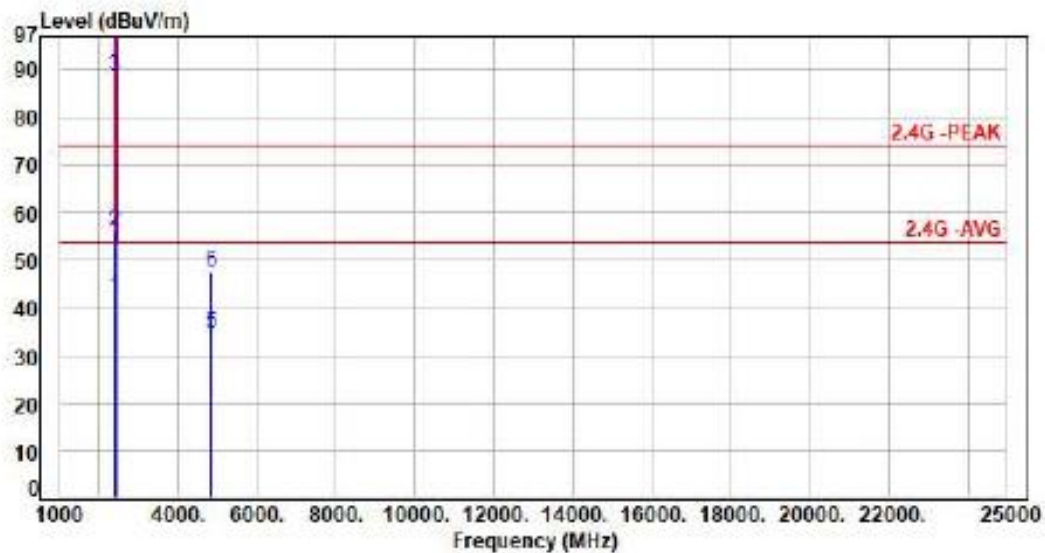
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11x20 CH01 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	44.85	42.52	54.00	-11.48	Average	100	53	P
2	2390.00	-2.33	58.24	55.91	74.00	-18.09	Peak	100	53	P
3	2412.00	-2.29	98.69	88.40	200.00	-111.60	Average	100	53	P
4	2412.00	-2.29	103.02	100.73	200.00	-99.27	Peak	100	53	P
5	4824.00	5.95	28.71	34.66	54.00	-19.34	Average	100	126	P
6	4824.00	5.95	41.44	47.39	74.00	-26.61	Peak	100	126	P

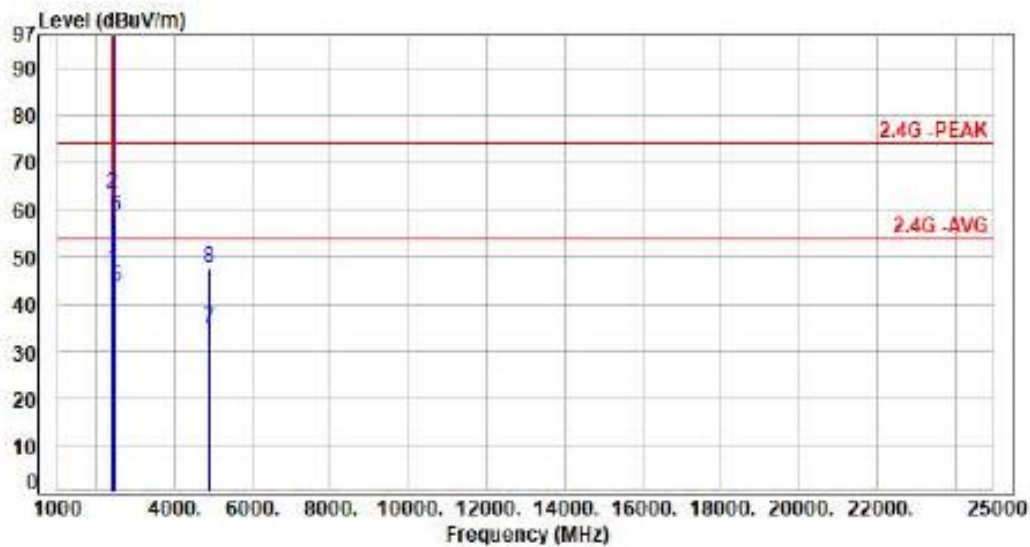
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	49.67	47.34	54.00	-6.66	Average	282	148	P
2	2390.00	-2.33	65.95	63.62	74.00	-10.38	Peak	282	148	P
3	2437.00	-2.17	106.73	104.56	200.00	-95.44	Average	282	148	P
4	2437.00	-2.17	119.22	117.05	200.00	-82.95	Peak	282	148	P
5	2483.50	-2.01	45.38	43.37	54.00	-10.63	Average	282	148	P
6	2483.50	-2.01	60.47	58.46	74.00	-15.54	Peak	282	148	P
7	4874.00	6.10	28.68	34.78	54.00	-19.22	Average	100	188	P
8	4874.00	6.10	41.63	47.73	74.00	-26.27	Peak	100	188	P

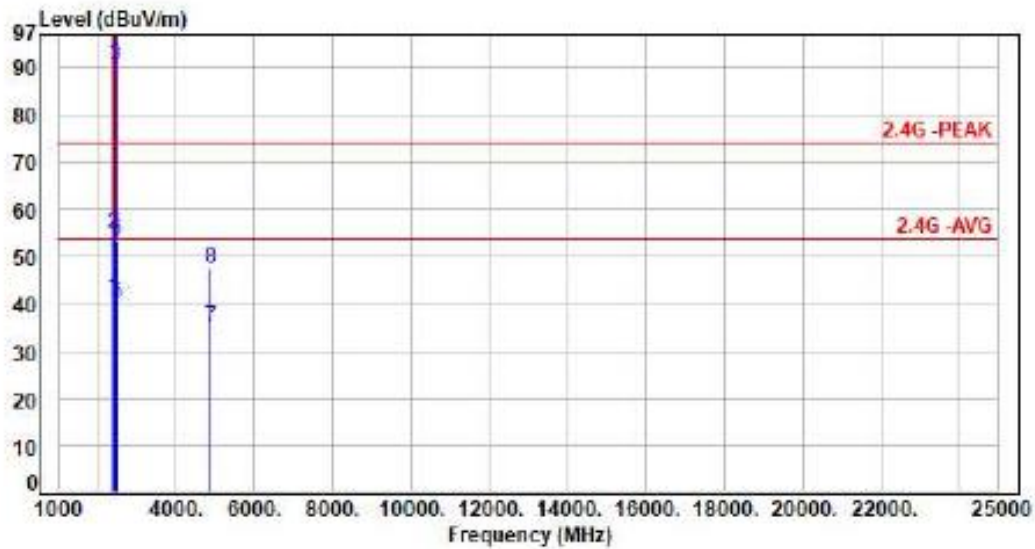
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	43.73	41.40	54.00	-12.60	Average	100	136	P
2	2390.00	-2.33	57.29	54.96	74.00	-19.04	Peak	100	136	P
3	2437.00	-2.17	92.59	90.42	200.00	-109.58	Average	100	136	P
4	2437.00	-2.17	105.02	102.85	200.00	-97.15	Peak	100	136	P
5	2483.50	-2.01	42.36	40.35	54.00	-13.65	Average	100	136	P
6	2483.50	-2.01	55.54	53.53	74.00	-20.47	Peak	100	136	P
7	4874.00	6.10	28.93	35.03	54.00	-18.97	Average	100	122	P
8	4874.00	6.10	41.36	47.46	74.00	-26.54	Peak	100	122	P

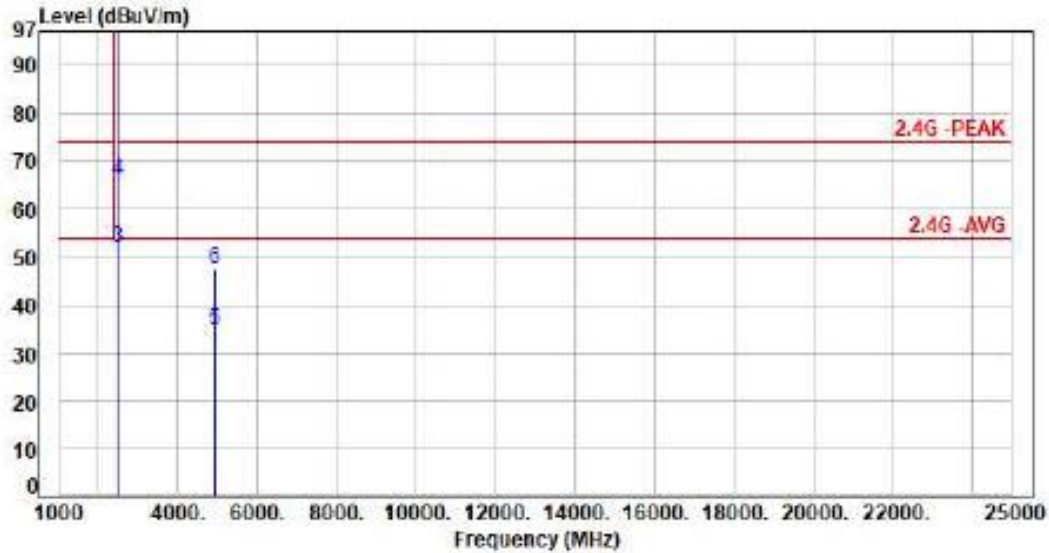
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH11 NS51 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.04	104.64	102.60	200.00	-97.40	Average	258	148	P
2	2462.00	-2.04	117.04	115.00	200.00	-85.00	Peak	258	148	P
3	2483.50	-2.01	54.10	52.09	54.00	-1.91	Average	258	148	P
4	2483.50	-2.01	67.93	65.92	74.00	-8.08	Peak	258	148	P
5	4924.00	6.26	28.48	34.74	54.00	-19.26	Average	100	182	P
6	4924.00	6.26	41.46	47.72	74.00	-26.28	Peak	100	182	P

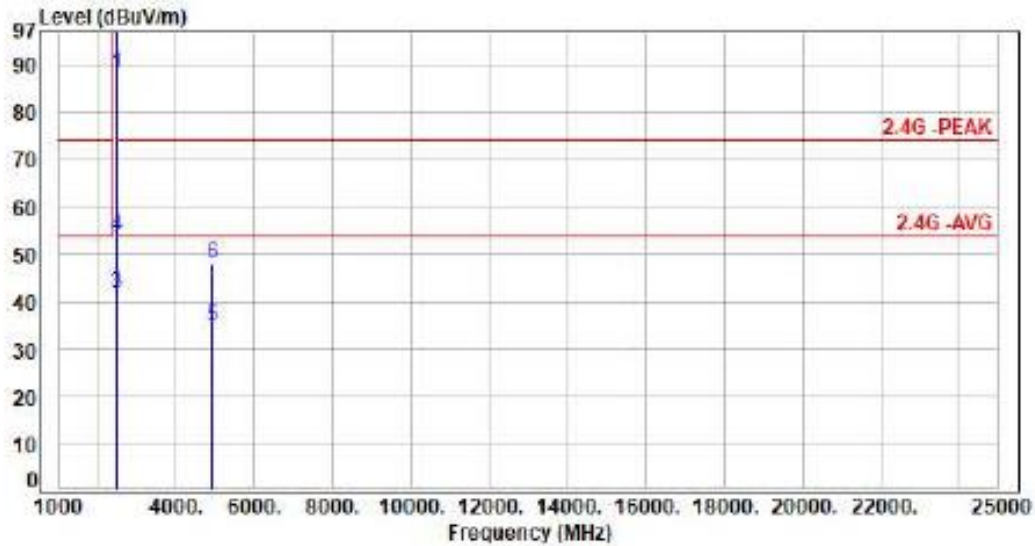
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax20 CH11 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.04	90.12	88.08	200.00	-111.92	Average	100	327	P
2	2462.00	-2.04	103.56	101.52	200.00	-98.48	Peak	100	327	P
3	2483.50	-2.01	43.79	41.78	54.00	-12.22	Average	100	327	P
4	2483.50	-2.01	55.87	53.86	74.00	-20.14	Peak	100	327	P
5	4924.00	6.26	28.46	34.72	54.00	-19.28	Average	100	128	P
6	4924.00	6.26	41.54	47.80	74.00	-26.20	Peak	100	128	P

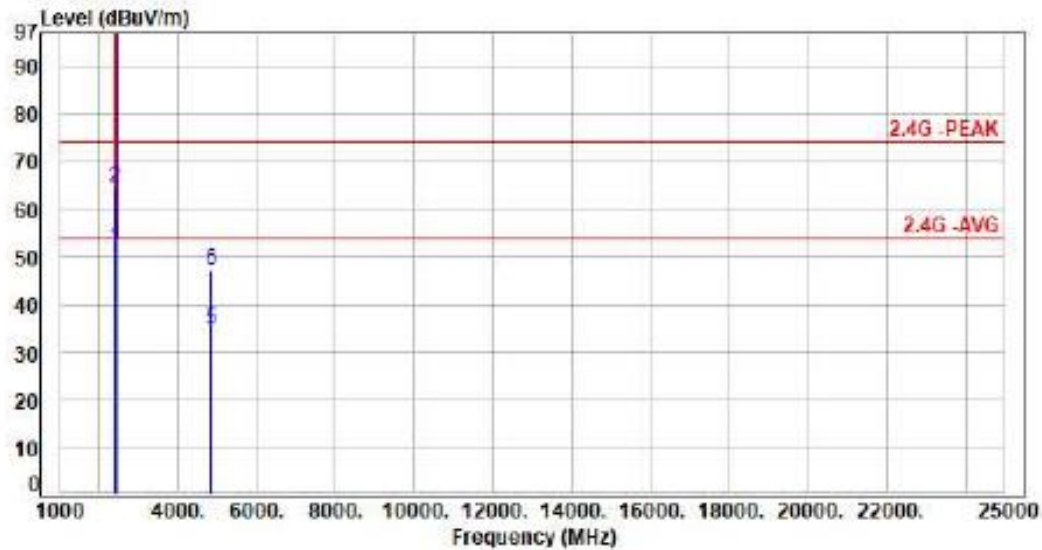
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH03 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	54.48	52.15	54.00	-1.85	Average	271	147	P
2	2390.00	-2.33	67.02	64.69	74.00	-9.31	Peak	271	147	P
3	2422.00	-2.19	99.27	97.08	200.00	-102.92	Average	271	147	P
4	2422.00	-2.19	111.28	109.09	200.00	-90.91	Peak	271	147	P
5	4844.00	6.01	28.50	34.51	54.00	-19.49	Average	100	187	P
6	4844.00	6.01	41.13	47.14	74.00	-26.86	Peak	100	187	P

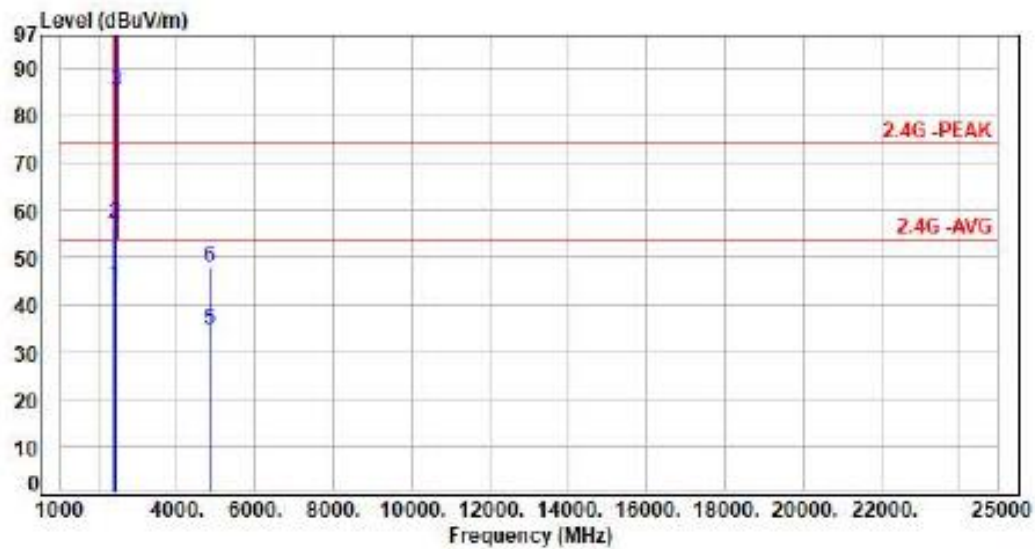
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH03 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	46.20	43.87	54.00	-10.13	Average	100	136	P
2	2390.00	-2.33	59.45	57.12	74.00	-16.88	Peak	100	136	P
3	2422.00	-2.19	87.56	85.37	200.00	-114.63	Average	100	136	P
4	2422.00	-2.19	99.75	97.56	200.00	-102.44	Peak	100	136	P
5	4844.00	6.01	28.67	34.68	54.00	-19.32	Average	100	126	P
6	4844.00	6.01	41.84	47.85	74.00	-26.15	Peak	100	126	P

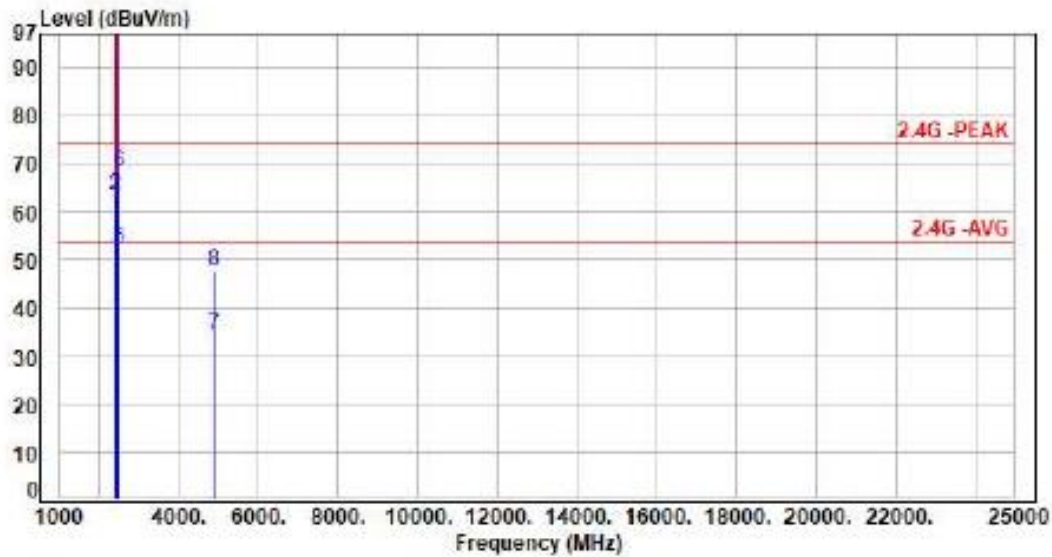
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	52.57	50.24	54.00	-3.76	Average	202	175	P
2	2390.00	-2.33	65.90	63.57	74.00	-10.43	Peak	202	175	P
3	2437.00	-2.17	102.93	100.76	200.00	-99.24	Average	202	175	P
4	2437.00	-2.17	116.19	114.02	200.00	-85.98	Peak	202	175	P
5	2483.50	-2.01	54.37	52.36	54.00	-1.64	Average	202	175	P
6	2483.50	-2.01	70.23	68.22	74.00	-5.78	Peak	202	175	P
7	4874.00	6.10	28.36	34.46	54.00	-19.54	Average	100	183	P
8	4874.00	6.10	41.35	47.45	74.00	-26.55	Peak	100	183	P

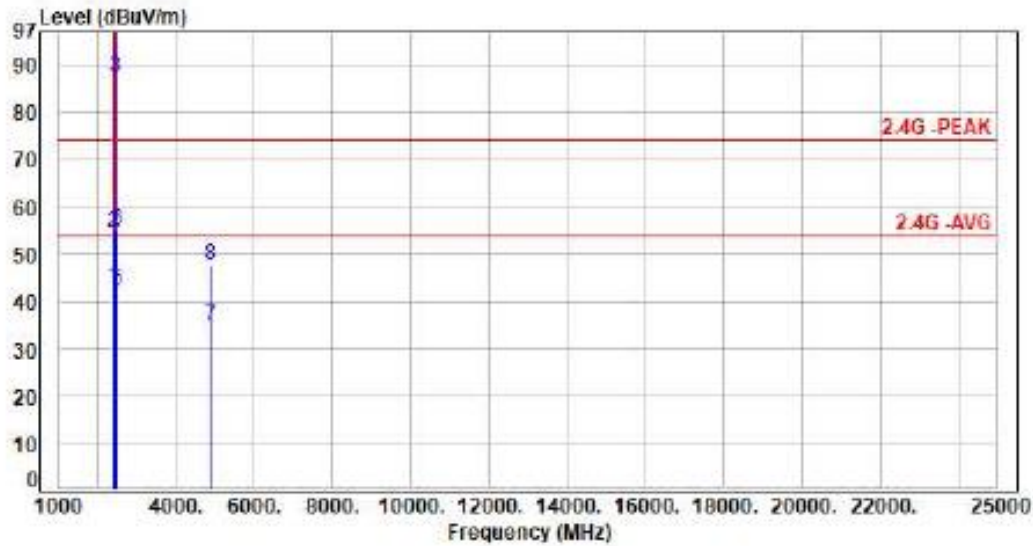
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.33	45.14	42.81	54.00	-11.19	Average	100	329	P
2	2390.00	-2.33	57.03	54.70	74.00	-19.30	Peak	100	329	P
3	2437.00	-2.17	89.46	87.29	200.00	-112.71	Average	100	329	P
4	2437.00	-2.17	101.05	98.88	200.00	-101.12	Peak	100	329	P
5	2483.50	-2.01	44.45	42.44	54.00	-11.56	Average	100	329	P
6	2483.50	-2.01	56.95	54.94	74.00	-19.06	Peak	100	329	P
7	4874.00	6.10	28.41	34.51	54.00	-19.49	Average	100	125	P
8	4874.00	6.10	41.38	47.48	74.00	-26.52	Peak	100	125	P

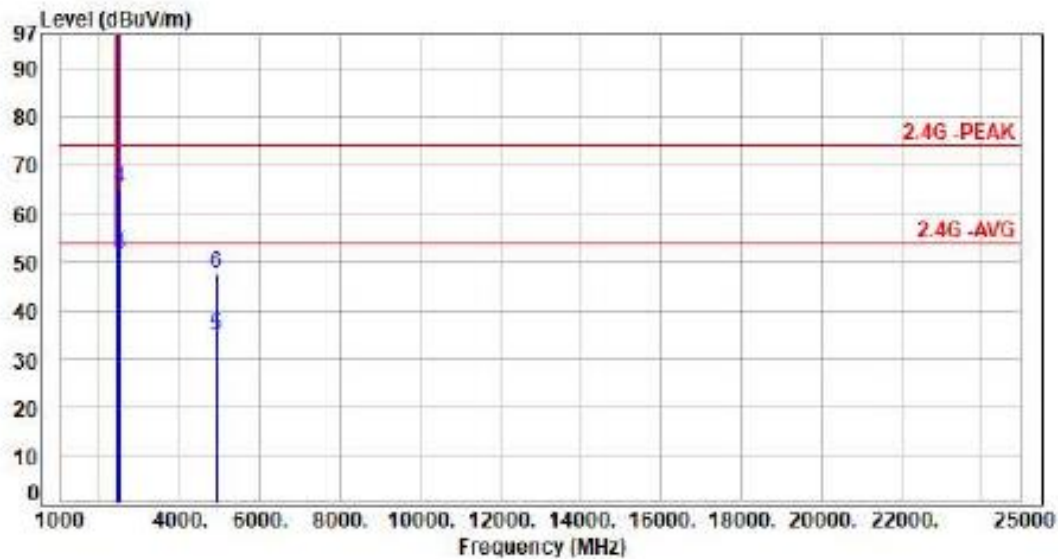
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH09 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.13	99.85	97.72	200.00	-102.28	Average	211	173	P
2	2452.00	-2.13	112.83	110.70	200.00	-89.30	Peak	211	173	P
3	2483.50	-2.01	53.69	51.68	54.00	-2.32	Average	211	173	P
4	2483.50	-2.01	67.15	65.14	74.00	-8.86	Peak	211	173	P
5	4904.00	6.20	28.45	34.65	54.00	-19.35	Average	100	185	P
6	4904.00	6.20	41.47	47.67	74.00	-26.33	Peak	100	185	P

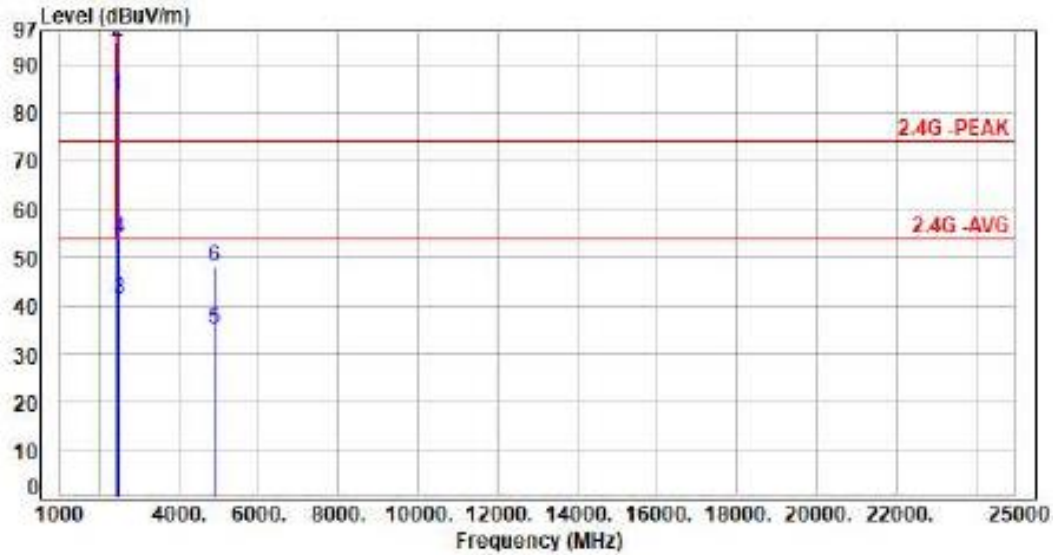
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11ax40 CH09 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.13	85.63	83.50	200.00	-116.50	Average	100	39	P
2	2452.00	-2.13	97.03	94.90	200.00	-105.10	Peak	100	39	P
3	2483.50	-2.01	43.44	41.43	54.00	-12.57	Average	100	39	P
4	2483.50	-2.01	55.96	53.95	74.00	-20.05	Peak	100	39	P
5	4904.00	6.20	28.76	34.96	54.00	-19.04	Average	100	127	P
6	4904.00	6.20	41.63	47.83	74.00	-26.17	Peak	100	127	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

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



7. Test of Conducted Spurious Emission

7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 11.11.1

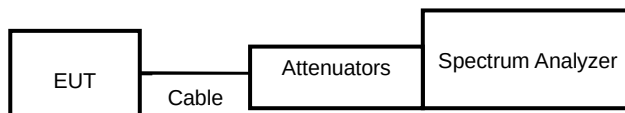
Below –30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout



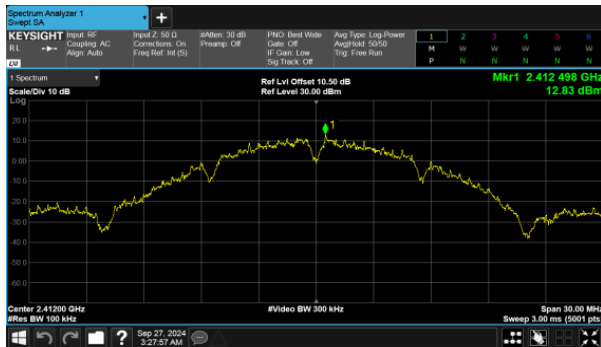
7.4 Test Result and Data

Note: Test plots refers to the following pages.

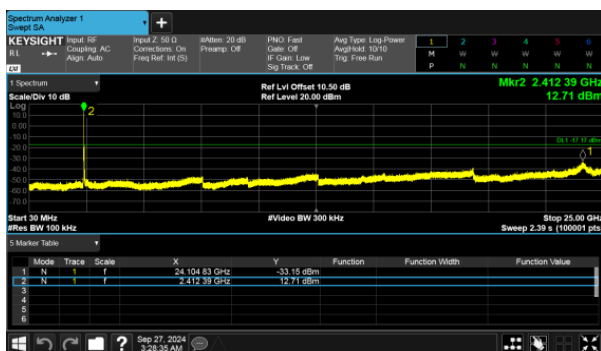
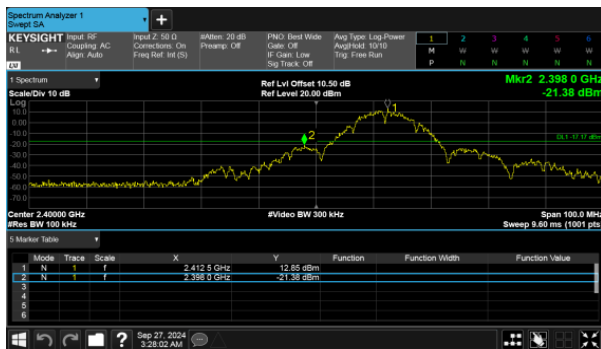
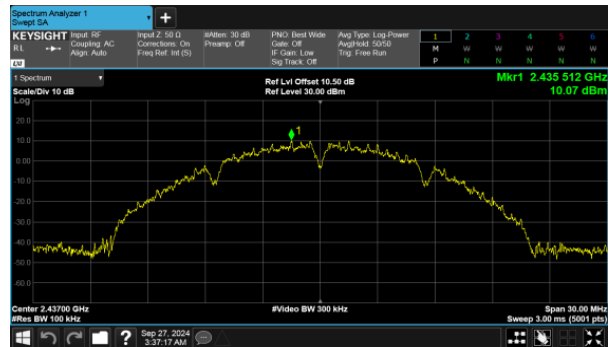


SISO ANT A

Modulation Type: 802.11b, CH 01

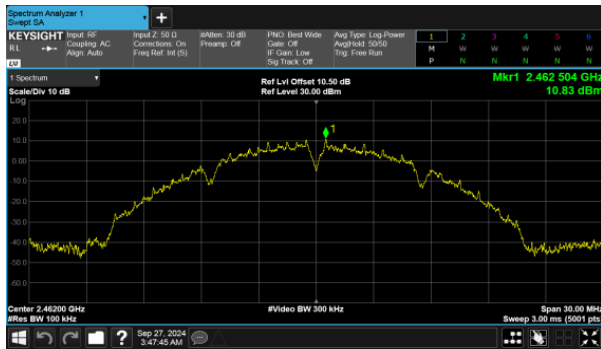


Modulation Type: 802.11b, CH 06





Modulation Type: 802.11b, CH 11



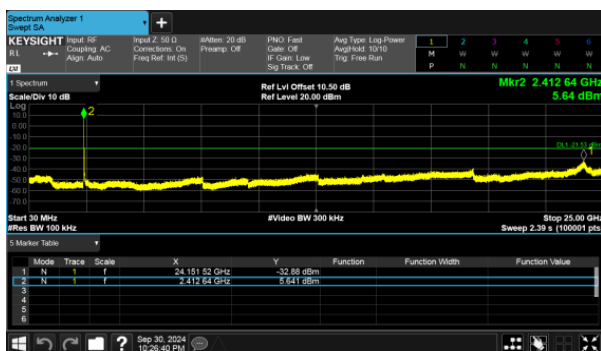
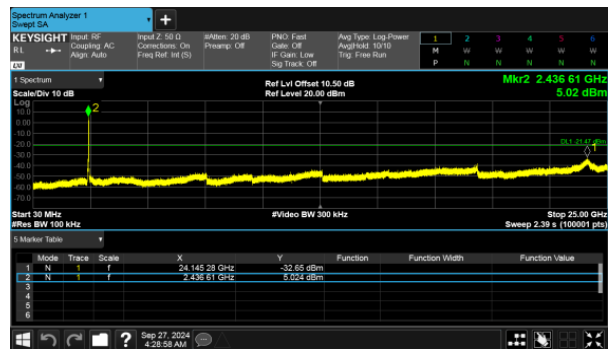
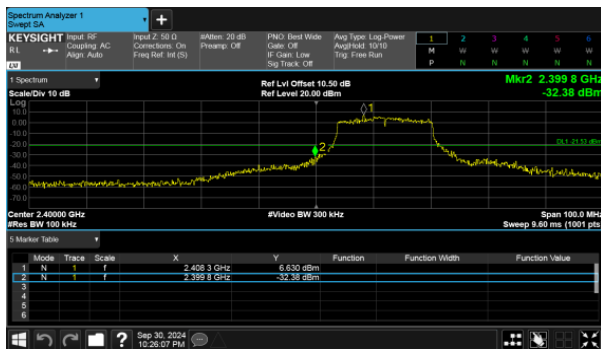
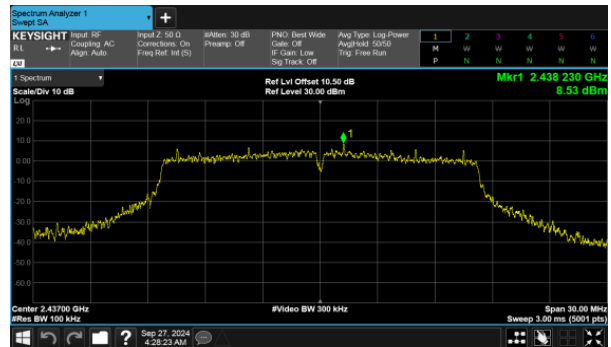


SISO ANT A

Modulation Type: 802.11g, CH 01

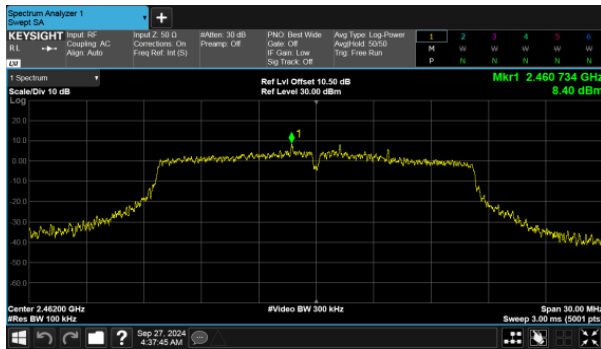


Modulation Type: 802.11g, CH 06





Modulation Type: 802.11g, CH 11

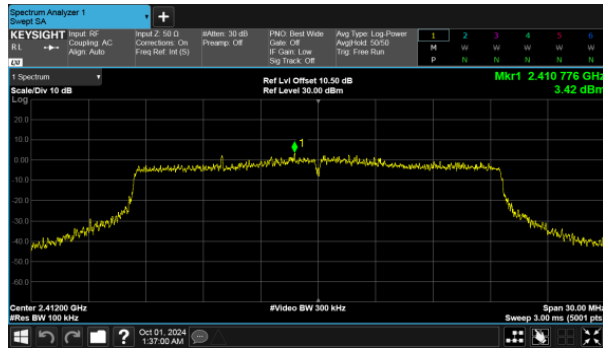




MIMO

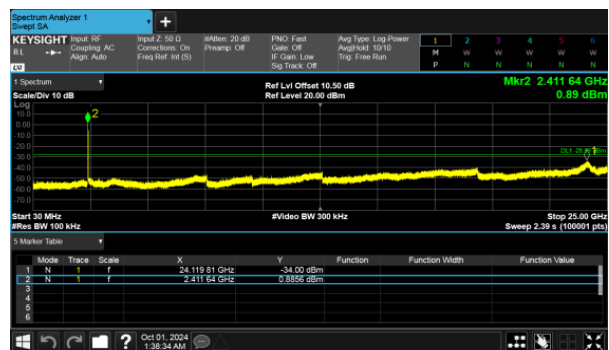
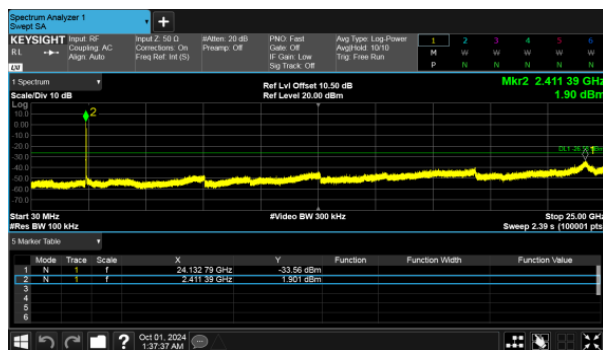
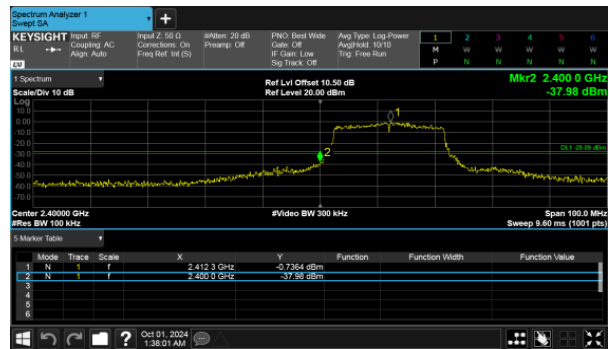
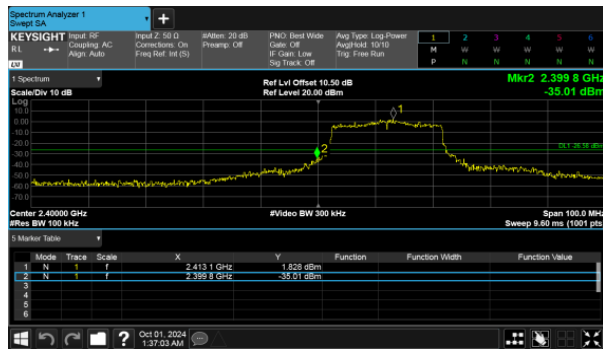
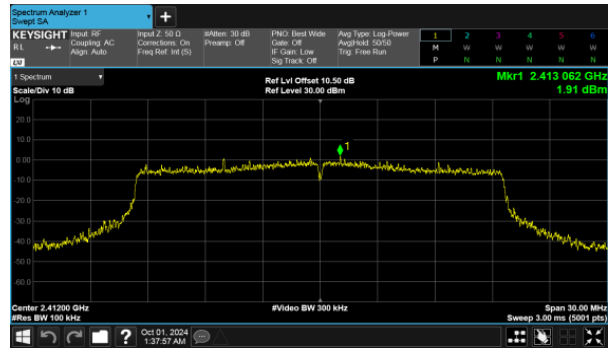
ANT A

Modulation Type: 802.11ax20, CH01



ANT B

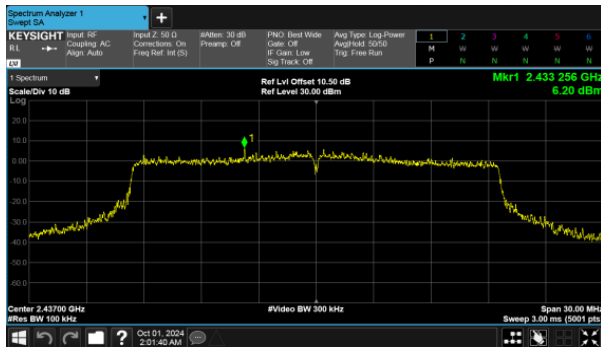
Modulation Type: 802.11ax20, CH01





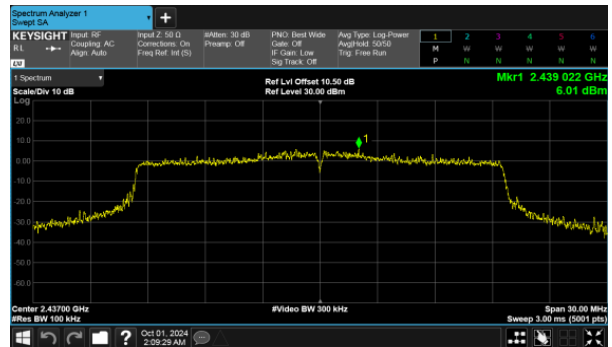
ANT A

Modulation Type: 802.11ax20, CH06



ANT B

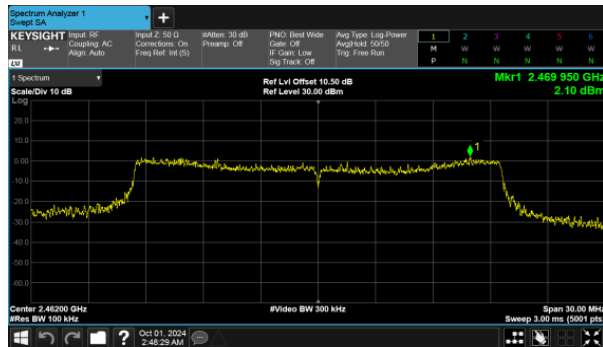
Modulation Type: 802.11ax20, CH06





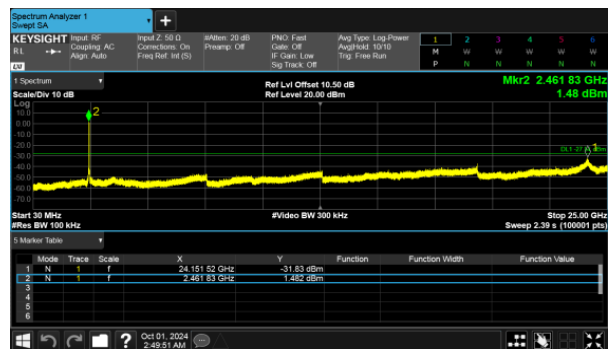
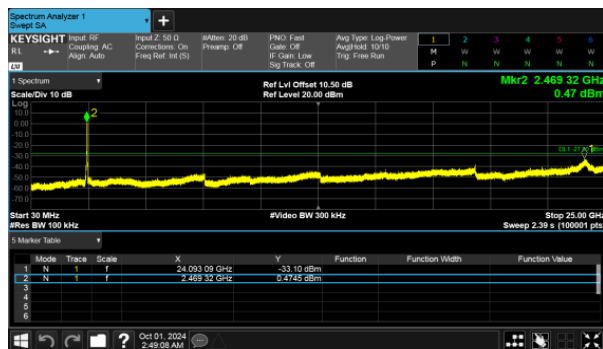
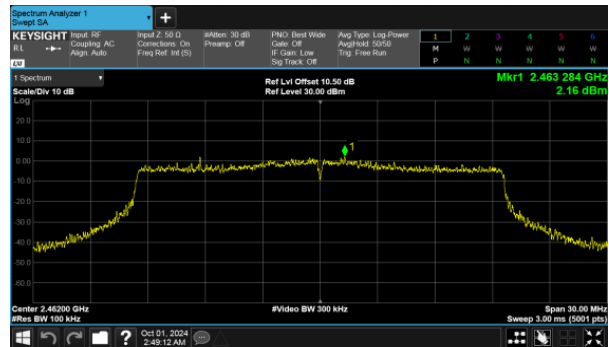
ANT A

Modulation Type: 802.11ax20, CH11



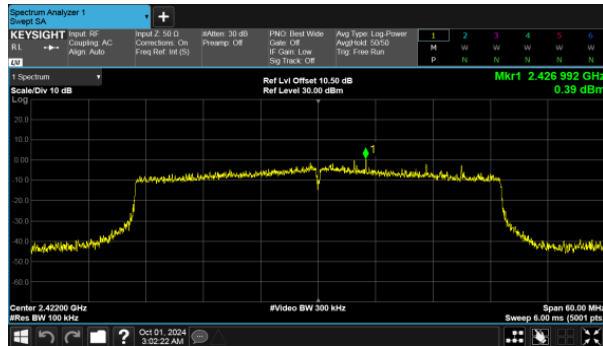
ANT B

Modulation Type: 802.11ax20, CH11

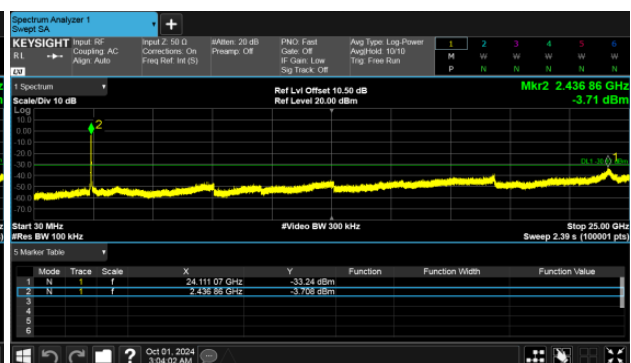
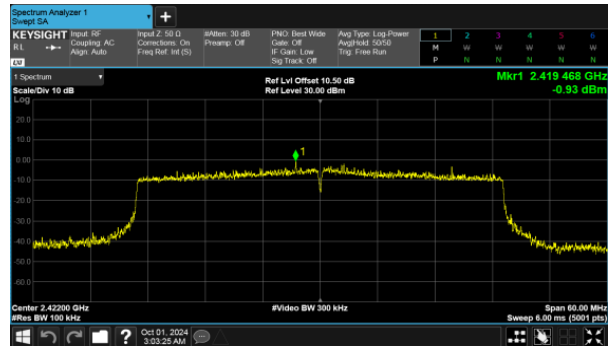




MIMO
ANT A
Modulation Type: 802.11ax40, CH03

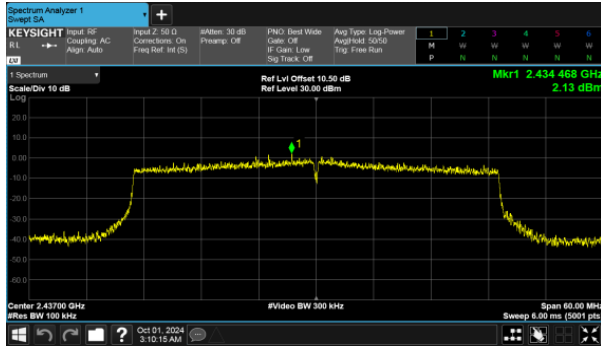


MIMO
ANT B
Modulation Type: 802.11ax40, CH03

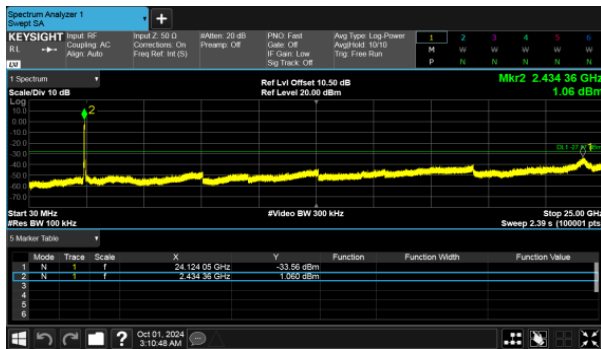
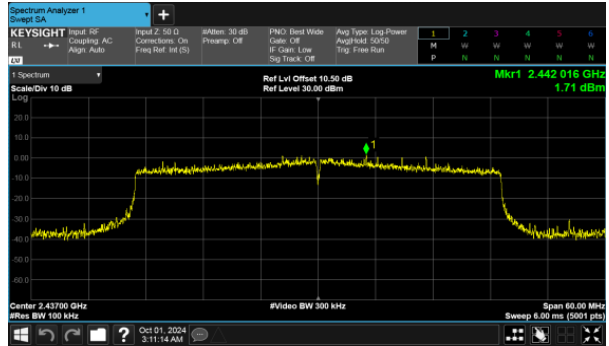




MIMO
ANT A
Modulation Type: 802.11ax40, CH06

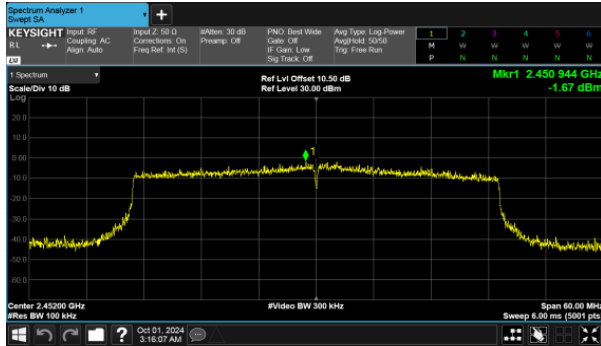


MIMO
ANT B
Modulation Type: 802.11ax40, CH06

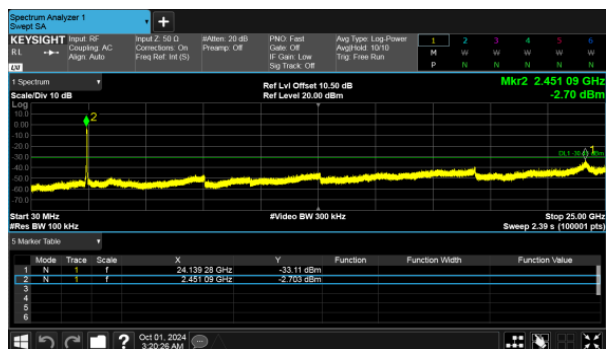
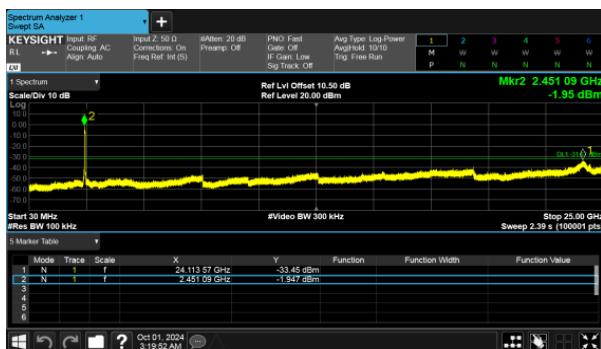
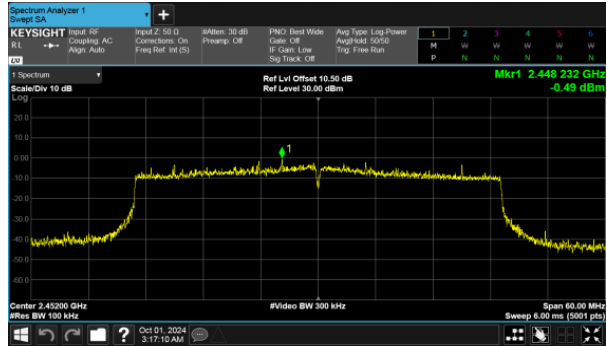




MIMO
ANT A
Modulation Type: 802.11ax40, CH09



MIMO
ANT B
Modulation Type: 802.11ax40, CH09





8. On Time, Duty Cycle and Measurement methods

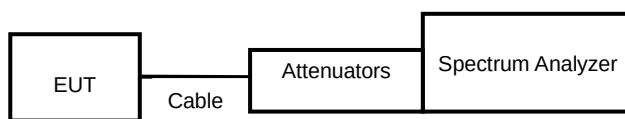
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6
Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

SISO

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	0.667	0.677	98.46%
11g,6M	2.108	2.115	99.67%

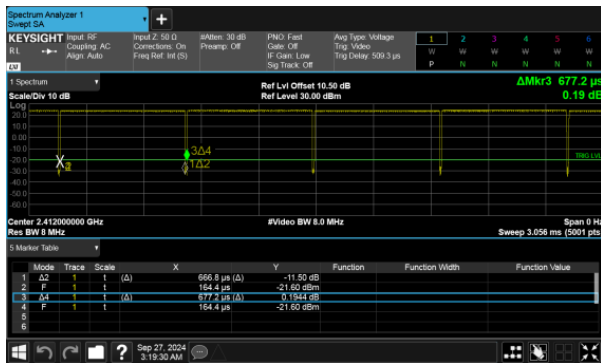
MIMO

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11ax HE20	5.432	5.436	99.93%
11ax HE40	4.120	4.124	99.90%



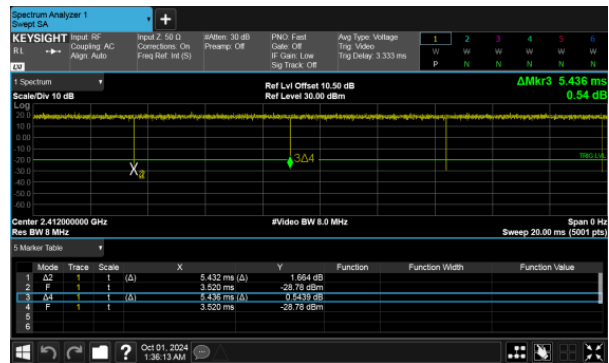
SISO

Modulation Type: 802.11b

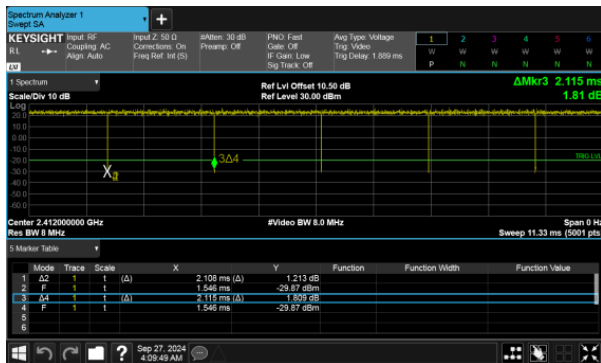


MIMO

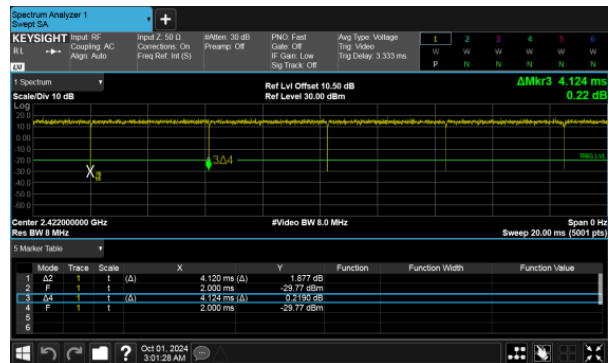
Modulation Type: 802.11ax20



Modulation Type: 802.11g



Modulation Type: 802.11ax40





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

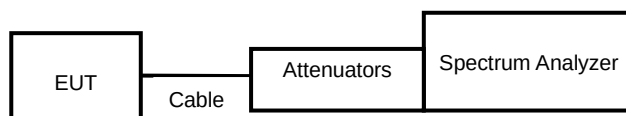
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout





9.4 Test Result and Data

SISO

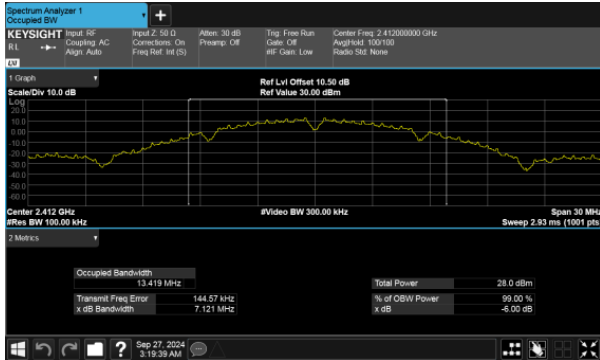
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
			ANT A	
11b	1	2412	7.12	0.5
	6	2437	7.59	0.5
	11	2462	7.59	0.5
11g	1	2412	15.15	0.5
	6	2437	15.16	0.5
	11	2462	15.35	0.5

MIMO

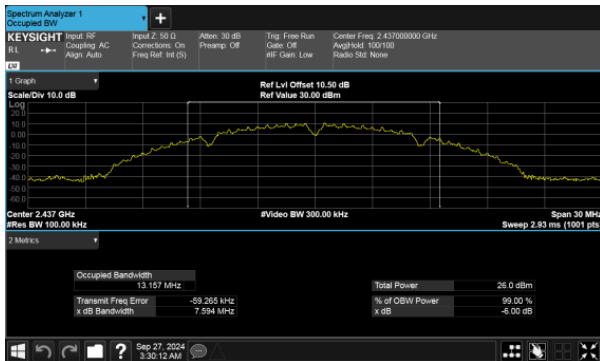
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
11ax HE20	1	2412	16.75	16.82	0.5
	6	2437	16.60	16.87	0.5
	11	2462	16.80	16.75	0.5
11ax HE40	3	2422	34.22	34.33	0.5
	6	2437	36.62	34.90	0.5
	9	2452	34.74	35.42	0.5



6dB Bandwidth
SISO ANT A
Modulation Type: 802.11b
CH01



CH06

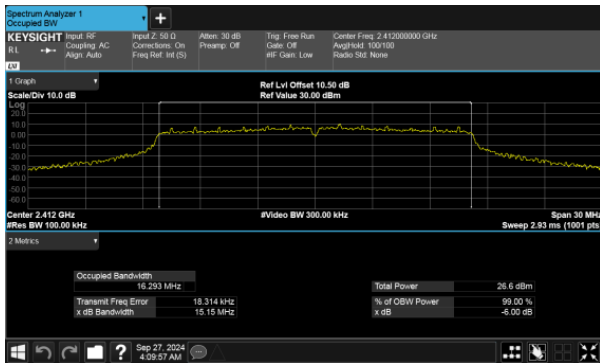


CH11





SISO ANT A
Modulation Type: 802.11g
CH01



CH06

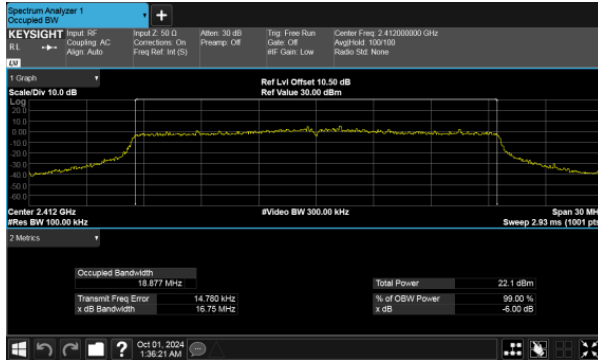


CH11

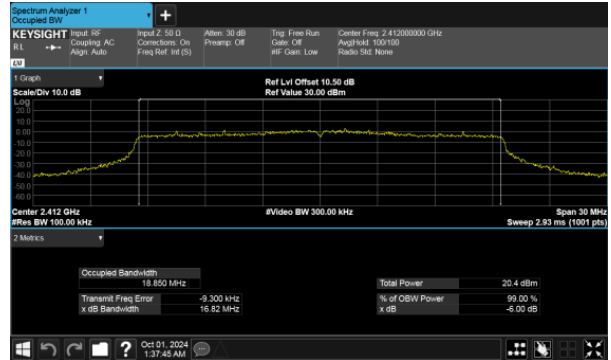




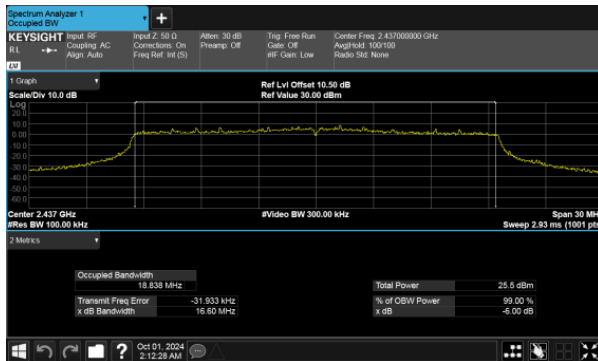
MIMO
ANT A
Modulation Type: 802.11ax20
CH01



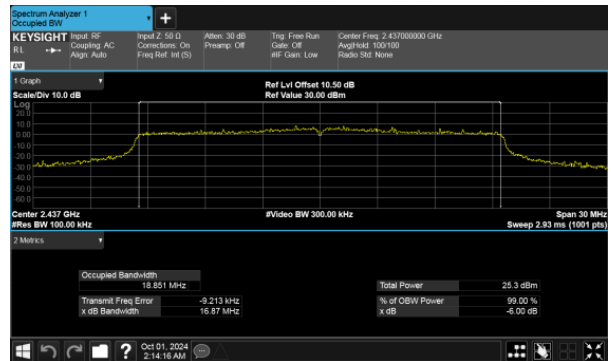
ANT B
Modulation Type: 802.11ax20
CH01



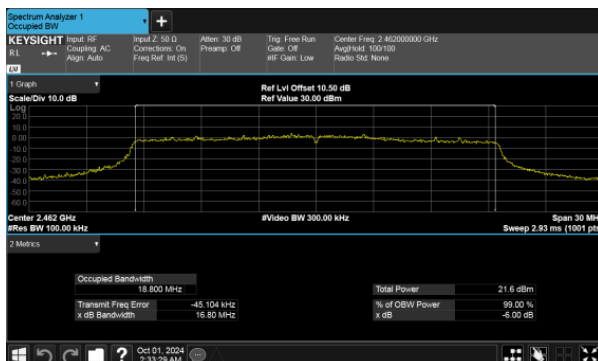
CH06



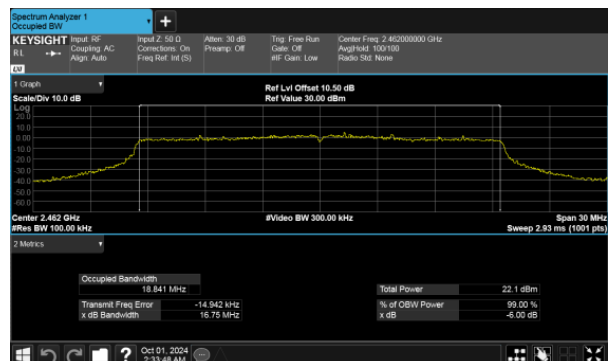
CH06



CH11

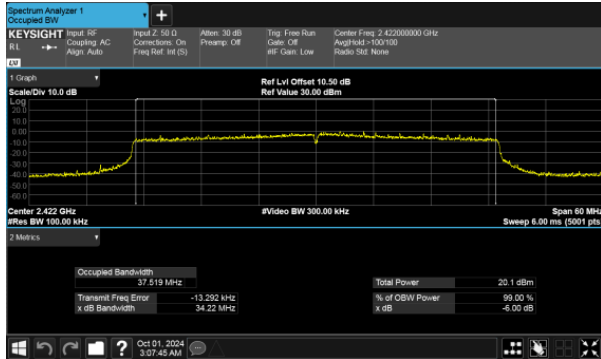


CH11





MIMO
ANT A
Modulation Type: 802.11ax40
CH03



ANT B
Modulation Type: 802.11ax40
CH03



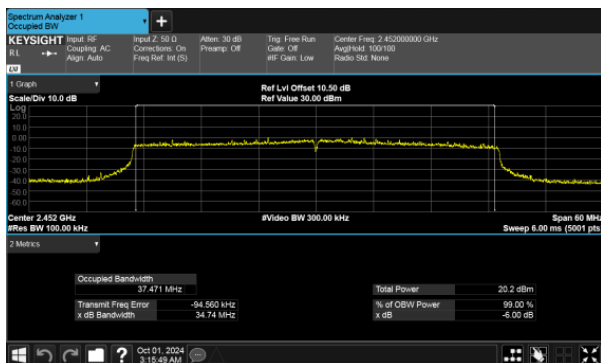
CH06



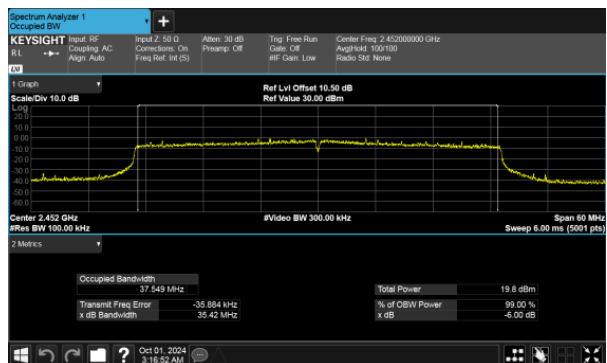
CH06



CH09



CH09





10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

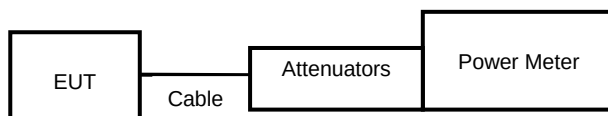
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout





10.4 Test Result and Data

ANT A

Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A			
1	22	11b	1	2412	20.86	20.86	121.899	30.00
	22		6	2437	19.36	19.36	86.298	30.00
	22		11	2462	19.24	19.24	83.946	30.00
6	20	11g	1	2412	18.96	18.96	78.705	30.00
	21		6	2437	18.78	18.78	75.509	30.00
	21		11	2462	18.54	18.54	71.450	30.00

ANT B

Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT B			
1	21	11b	1	2412	18.57	18.57	71.945	30.00
	20.5		6	2437	18.89	18.89	77.446	30.00
	21		11	2462	19.02	19.02	79.799	30.00
6	20	11g	1	2412	17.72	17.72	59.156	30.00
	20		6	2437	18.49	18.49	70.632	30.00
	20		11	2462	18.11	18.11	64.714	30.00



ANT A, B

Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
NSS1-MCS0	16	11ax HE20	1	2412	14.78	13.56	17.22	52.759	30.00
	20		6	2437	17.81	18.35	21.10	128.786	30.00
	16.5		11	2462	14.10	14.69	17.42	55.148	30.00
NSS1-MCS0	15	11ax HE40	3	2422	13.18	13.07	16.14	41.074	30.00
	18.5		6	2437	15.99	15.86	18.94	78.267	30.00
	15.5		9	2452	13.22	13.01	16.13	40.988	30.00



11. Power Spectral Density

11.1 Test Limit

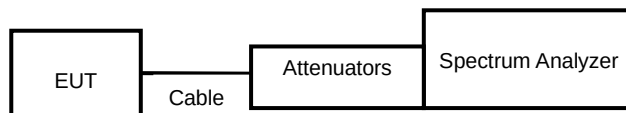
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.10

11.3 Test Setup Layout





11.4 Test Result and Data

SISO

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A				
11b	1	2412	-5.449	-5.45	0.00	-5.45	8.00
	6	2437	-8.714	-8.71	0.00	-8.71	8.00
	11	2462	-9.138	-9.14	0.00	-9.14	8.00
11g	1	2412	-12.006	-12.01	0.00	-12.01	8.00
	6	2437	-12.33	-12.33	0.00	-12.33	8.00
	11	2462	-12.481	-12.48	0.00	-12.48	8.00

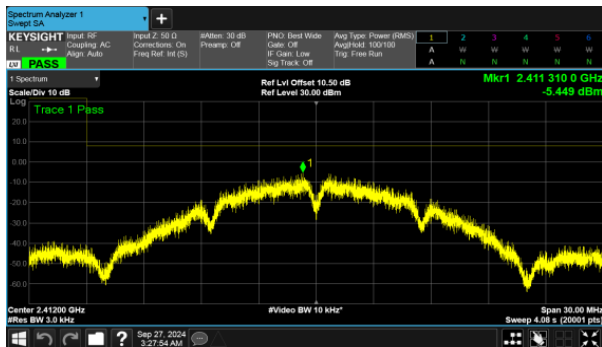
MIMO

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE20	1	2412	-19.063	-20.534	-16.73	0.00	-16.73	7.99
	6	2437	-16.268	-15.877	-13.06	0.00	-13.06	7.99
	11	2462	-19.901	-19.55	-16.71	0.00	-16.71	7.99

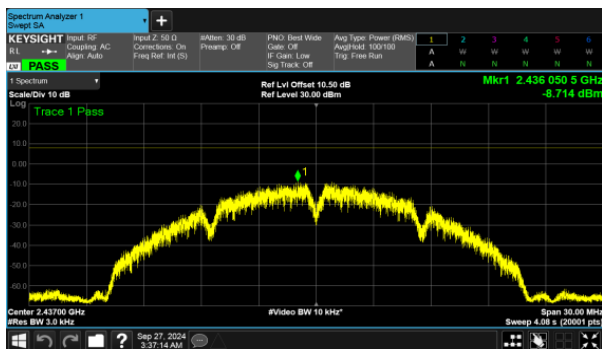
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 100KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE40	3	2422	-9.289	-9.943	-6.59	0.00	-6.59	7.99
	6	2437	-6.98	-6.797	-3.88	0.00	-3.88	7.99
	9	2452	-9.302	-9.772	-6.52	0.00	-6.52	7.99



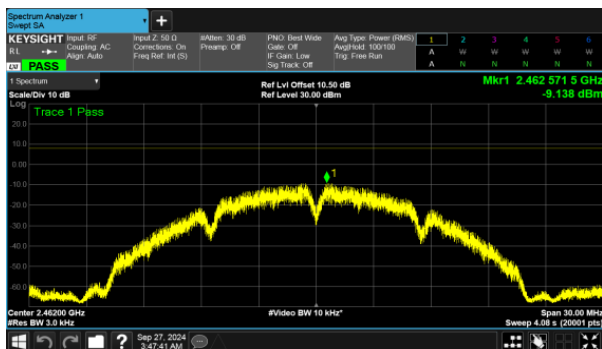
SISO
Modulation Type: 802.11b
CH01



CH06

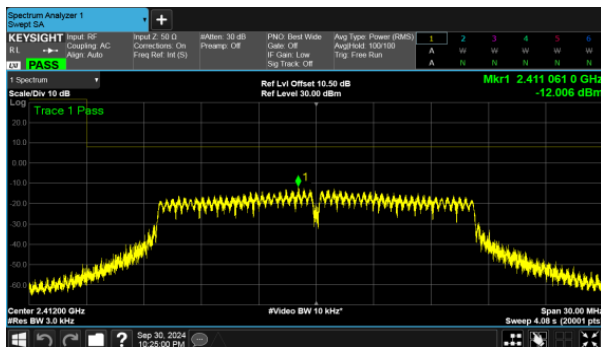


CH11

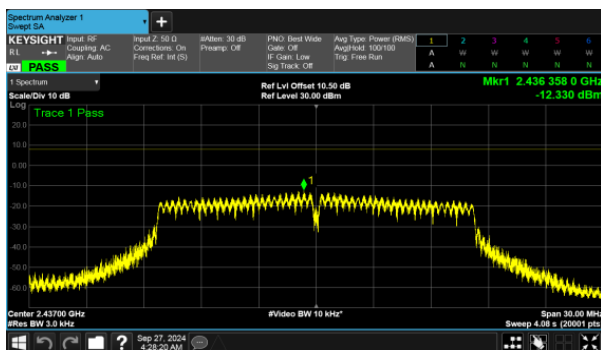




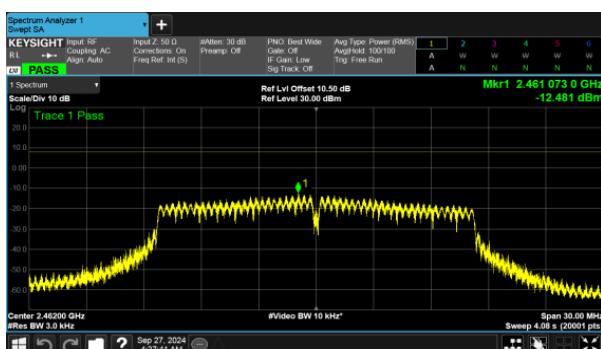
SISO
Modulation Type: 802.11g
CH01



CH06

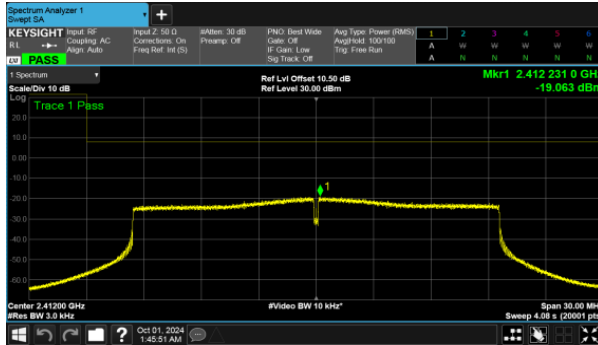


CH11

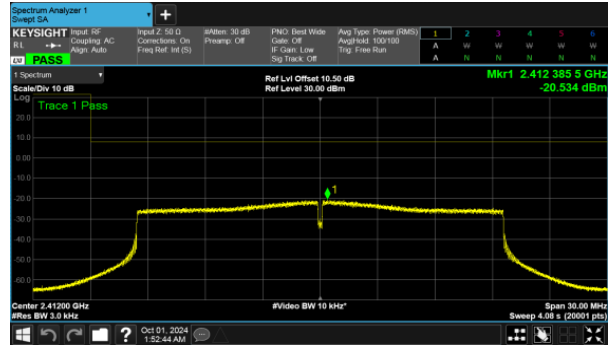




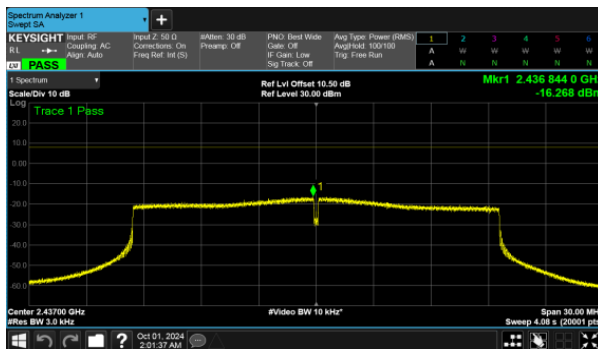
MIMO
ANT A
Modulation Type: 802.11ax20
CH01



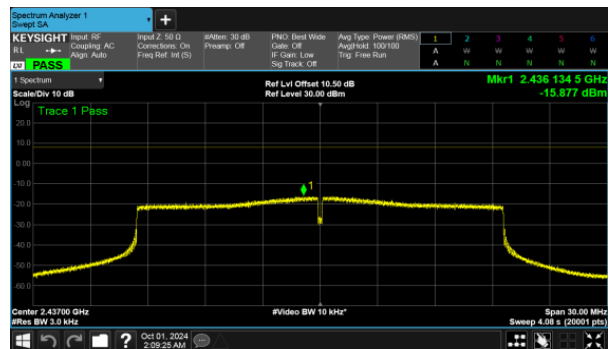
ANT B
Modulation Type: 802.11ax20
CH01



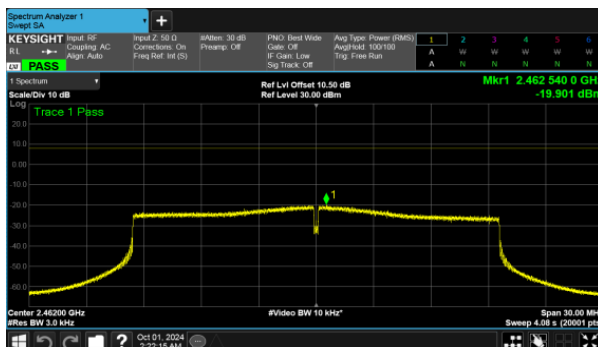
CH06



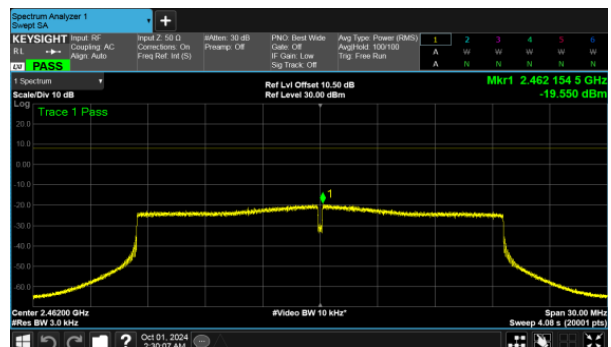
CH06



CH11

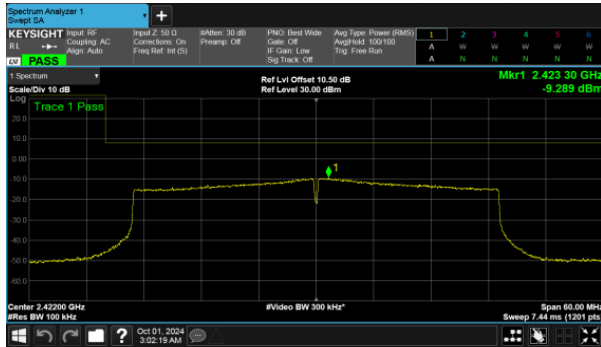


CH11

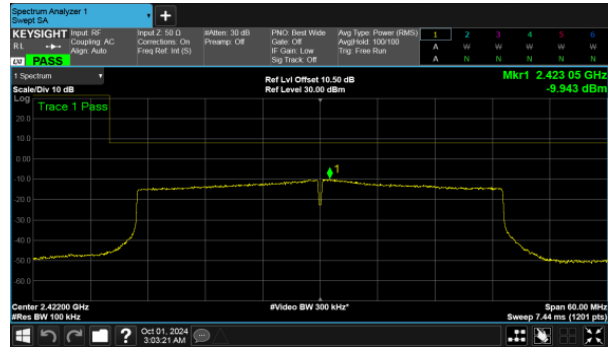




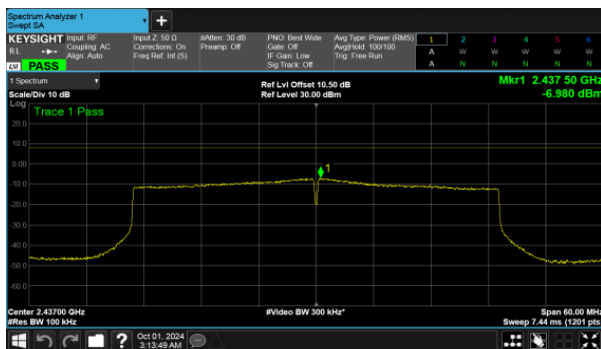
MIMO
ANT A
Modulation Type: 802.11ax40
CH03



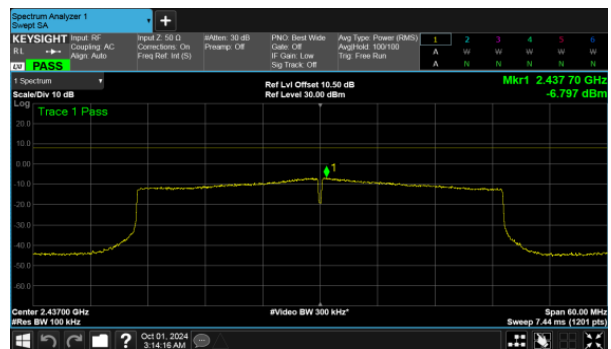
ANT B
Modulation Type: 802.11ax40
CH03



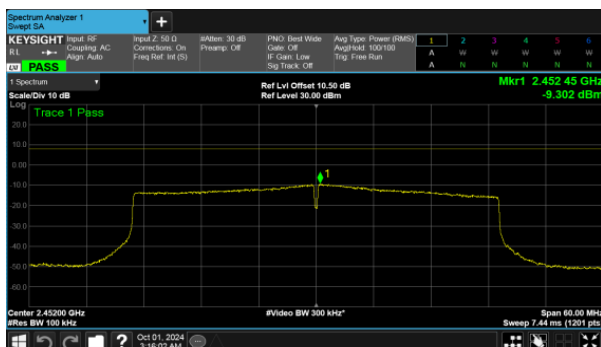
CH06



CH06



CH09



CH09

