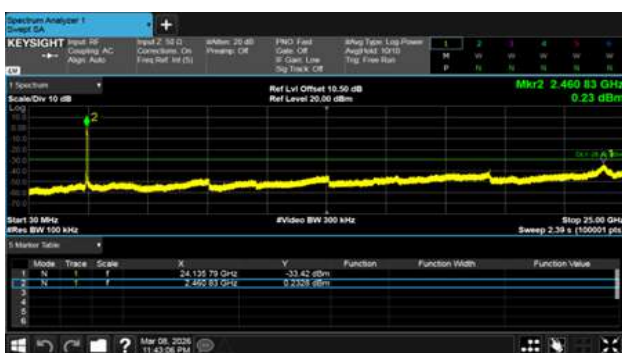
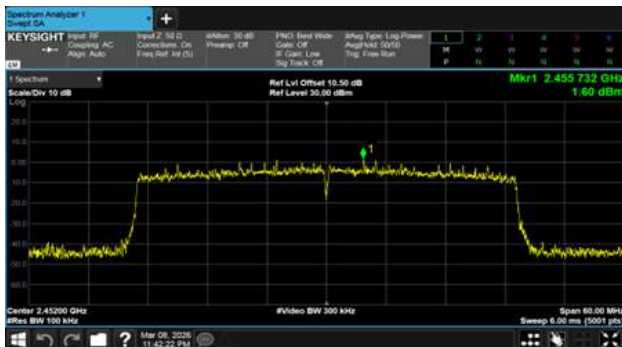




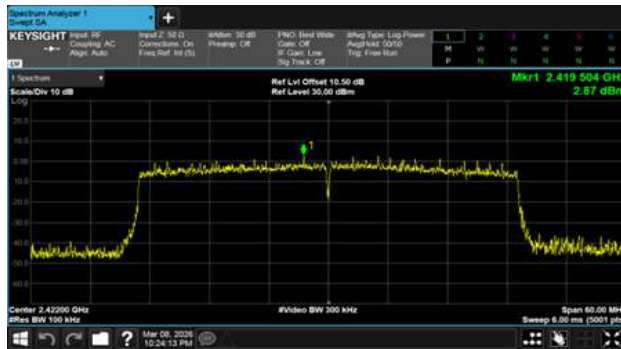
Modulation Type: 802.11be EHT40, CH09



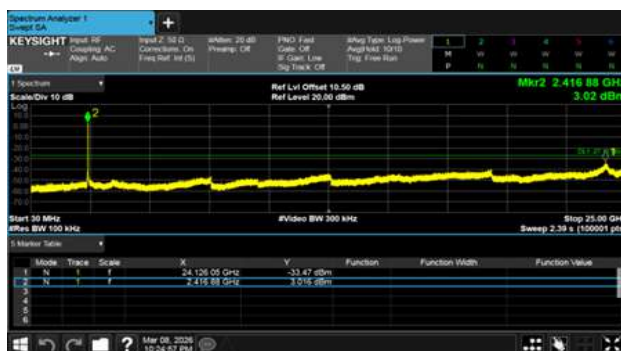
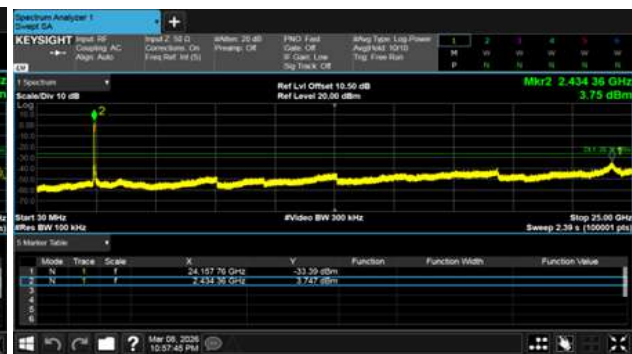
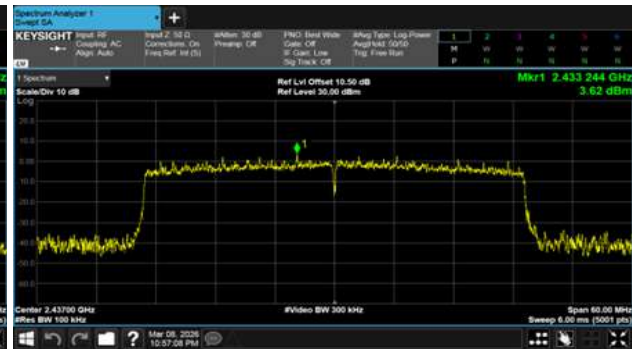


Non-Beamforming-ANT B

Modulation Type: 802.11be EHT40, CH03

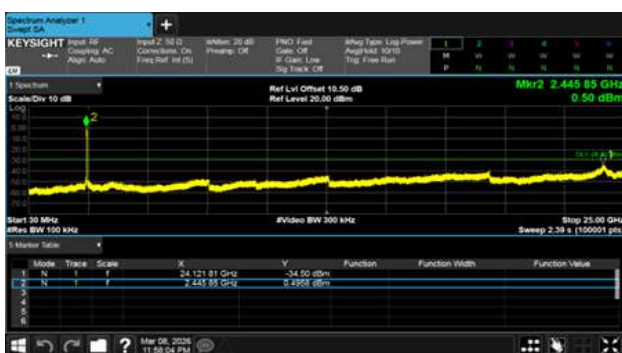
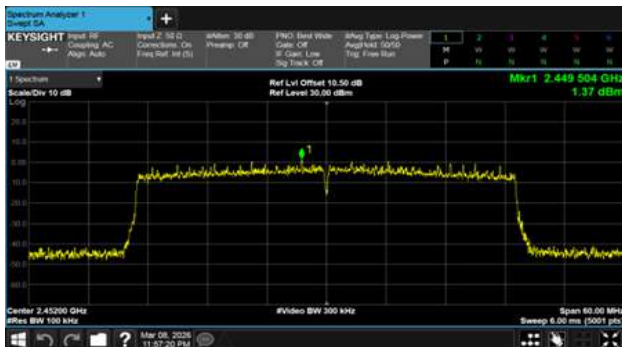


Modulation Type: 802.11be EHT40, CH06





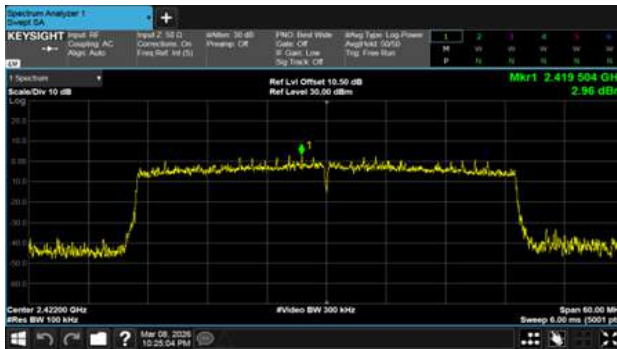
Modulation Type: 802.11be EHT40, CH09



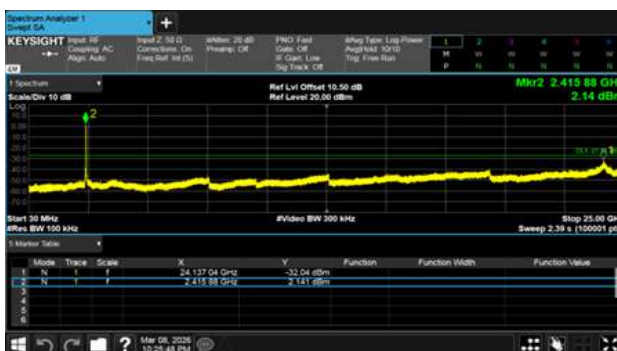
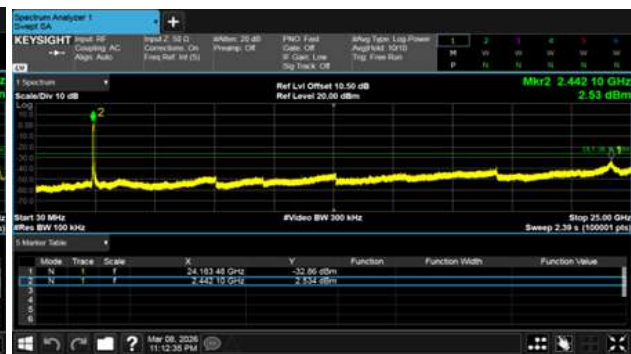
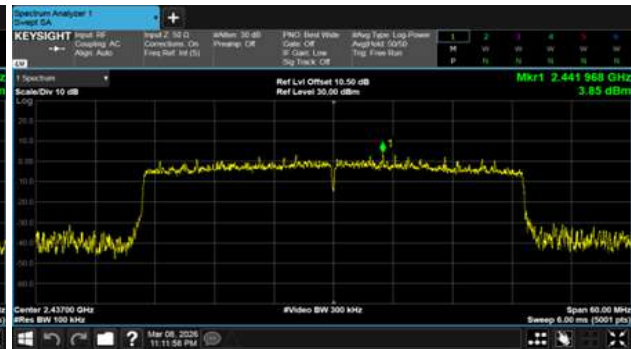


Non-Beamforming-ANT C

Modulation Type: 802.11be EHT40, CH03

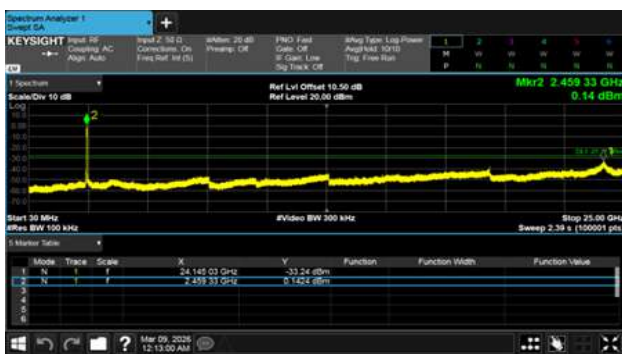
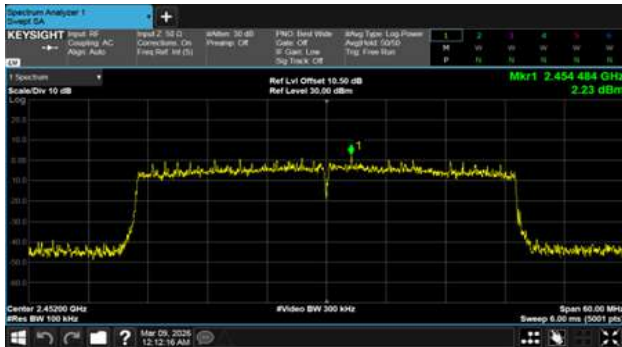


Modulation Type: 802.11be EHT40, CH06





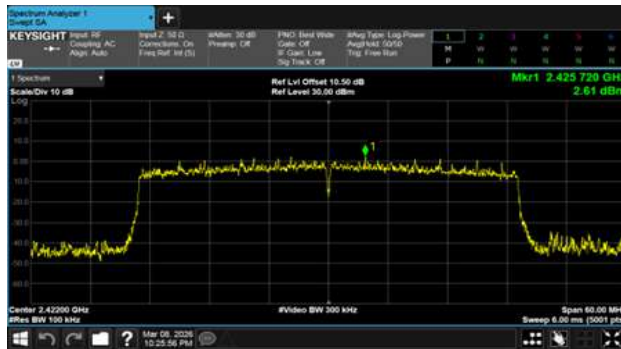
Modulation Type: 802.11be EHT40, CH09



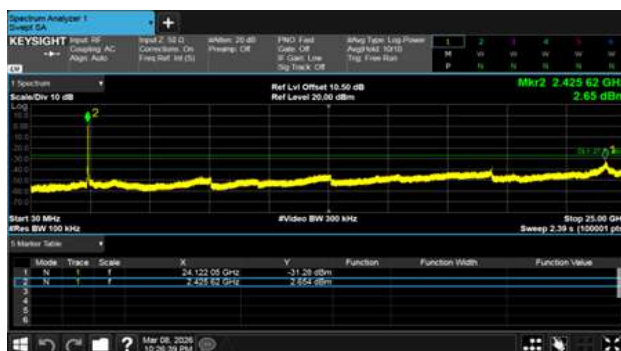
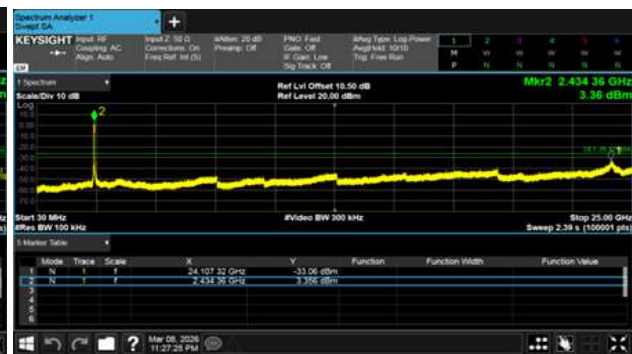
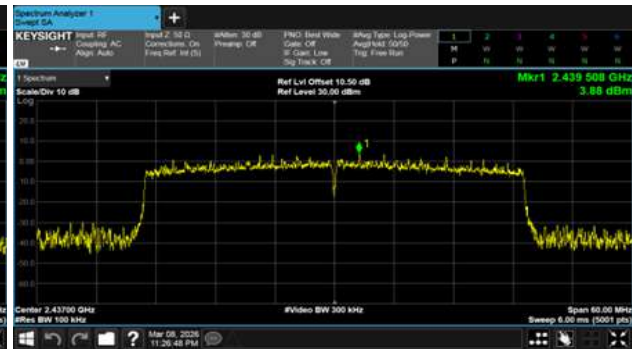


Non-Beamforming-ANT D

Modulation Type: 802.11be EHT40, CH03

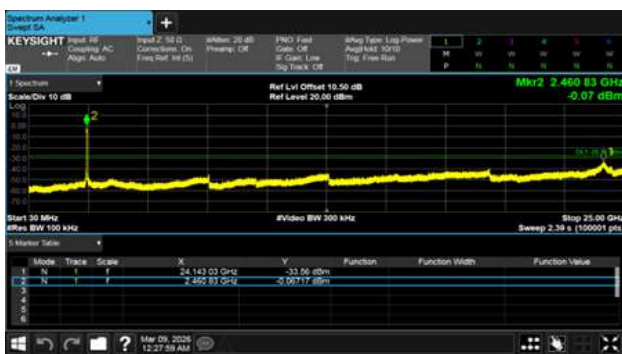
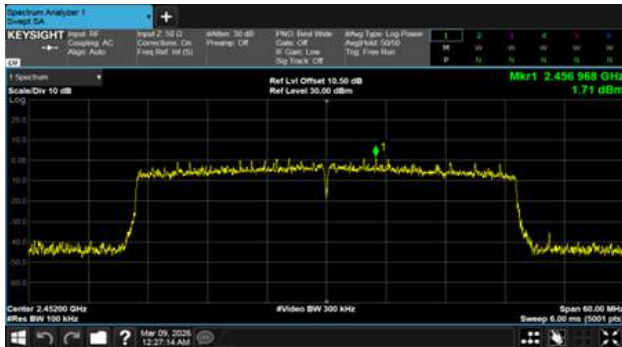


Modulation Type: 802.11be EHT40, CH06





Modulation Type: 802.11be EHT40, CH09





8. On Time, Duty Cycle and Measurement methods

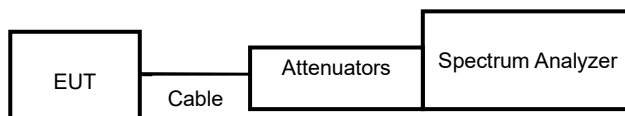
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2020 Section 11.6
Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	3.96	4.31	91.84%
11g,6M	0.65	1.01	64.40%
11n HT20	0.62	0.98	63.20%
11n HT40	0.32	0.68	46.81%
11be EHT20	0.59	0.96	62.19%
11be EHT40	0.34	0.70	48.38%



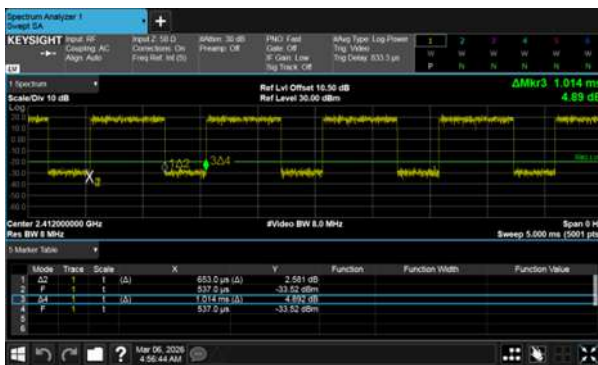
Modulation Type: 802.11b(1Mbps)



Modulation Type: 802.11n HT40(13.5Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11be EHT20(6.5Mbps)



Modulation Type: 802.11n HT20(6.5Mbps)



Modulation Type: 802.11be EHT40(13.5Mbps)





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

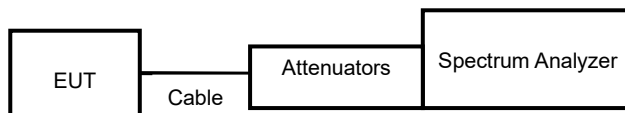
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2020 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

Non Beamforming

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11b	1	2412	10.12	10.14	10.14	10.12	0.5
	6	2437	10.13	10.13	10.14	10.14	0.5
	11	2462	10.12	10.13	10.14	10.13	0.5
11g	1	2412	15.80	15.12	15.15	15.12	0.5
	6	2437	15.10	15.15	15.17	15.13	0.5
	11	2462	14.19	15.12	15.16	15.17	0.5
11n HT20	1	2412	15.11	15.16	15.15	15.15	0.5
	6	2437	15.10	15.16	15.13	15.16	0.5
	11	2462	15.16	15.15	15.15	15.15	0.5
11n HT40	3	2422	35.08	35.06	35.12	35.11	0.5
	6	2437	35.07	35.11	35.09	35.10	0.5
	9	2452	35.11	35.07	35.06	35.11	0.5
11be EHT20	1	2412	16.42	15.13	16.37	17.08	0.5
	6	2437	15.12	15.15	15.16	15.20	0.5
	11	2462	16.37	15.21	15.18	15.53	0.5
11be EHT40	3	2422	35.10	35.12	36.27	35.11	0.5
	6	2437	35.10	35.08	35.10	35.09	0.5
	9	2452	35.11	35.09	36.31	35.11	0.5



Non Beamforming
6dB Bandwidth-ANT A
Modulation Type: 802.11b
CH01



Modulation Type: 802.11g
CH01



CH06



CH06



CH11



CH11





ANT A
Modulation Type: 802.11n HT20
CH01



Modulation Type: 802.11n HT40
CH03



CH06



CH06



CH11



CH09





ANT A
Modulation Type: 802.11be EHT20
CH01



Modulation Type: 802.11be EHT40
CH03



CH06



CH06



CH11



CH09





Non Beamforming

6dB Bandwidth-ANT B

Modulation Type: 802.11b

CH01

Modulation Type: 802.11g
CH01

CH06



CH06



CH11



CH11





ANT B

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

CH06



CH06



CH11



CH09





ANT B

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

CH06



CH06



CH11



CH09





Non Beamforming
6dB Bandwidth-ANT C
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



CH06



CH06



CH11



CH11





ANT C

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

CH06



CH06



CH11



CH09





ANT C

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

CH06



CH06



CH11



CH09





Non Beamforming

6dB Bandwidth-ANT D

Modulation Type: 802.11b

CH01

Modulation Type: 802.11g
CH01

CH06



CH06



CH11



CH11





ANT D

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

CH06



CH06



CH11



CH09





ANT D

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

CH06



CH06



CH11



CH09





10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

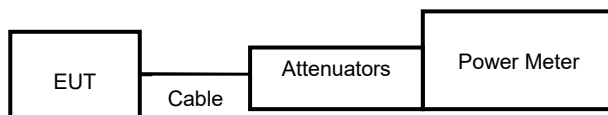
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2020 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****MIMO****Non Beamforming**

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	ANT C	ANT D			
1	18.5	11b	1	2412	18.40	18.63	18.62	18.38	24.53	283.772	29.50
	23		6	2437	20.92	21.15	21.22	21.03	27.10	513.111	29.50
	18		11	2462	17.57	17.83	17.94	17.60	23.76	237.596	29.50
6	17	11g	1	2412	16.68	18.07	18.35	16.88	23.58	227.824	29.50
	23		6	2437	20.66	21.51	21.33	20.34	27.01	501.967	29.50
	18.5		11	2462	18.11	19.21	19.30	18.08	24.73	297.465	29.50
MCS0	19.5	11n HT20	1	2412	19.49	20.42	20.32	19.13	25.89	388.567	29.50
	23		6	2437	20.22	21.13	21.56	20.18	26.83	482.365	29.50
	18		11	2462	17.18	18.38	18.53	17.28	23.91	245.847	29.50
MCS0	17.5	11n HT40	3	2422	17.42	18.03	17.83	17.45	23.71	235.005	29.50
	18.5		6	2437	18.07	18.67	18.64	18.24	24.43	277.536	29.50
	16.5		9	2452	16.17	16.82	16.58	16.23	22.48	176.959	29.50
NSS1-MCS0	19.5	11be EHT20	1	2412	19.16	20.58	20.37	19.50	25.96	394.720	29.50
	23		6	2437	20.51	21.27	21.60	20.64	27.05	506.850	29.50
	18		11	2462	17.57	18.37	18.45	17.43	24.00	251.174	29.50
NSS1-MCS0	17.5	11be EHT40	3	2422	17.56	17.91	18.15	17.24	23.75	237.097	29.50
	18.5		6	2437	18.28	18.64	18.66	18.35	24.51	282.254	29.50
	16.5		9	2452	16.13	16.85	17.01	16.09	22.56	180.316	29.50



Beamforming

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	ANT C	ANT D			
NSS1-MCS0	17	11be EHT20	1	2412	16.47	16.84	16.93	16.88	22.80	190.737	26.50
	20		6	2437	17.82	17.99	17.91	17.81	23.90	245.681	26.50
	15		11	2462	14.52	14.59	14.61	14.76	20.64	115.917	26.50
NSS1-MCS0	14.5	11be EHT40	3	2422	14.26	14.51	14.55	14.39	20.45	110.907	26.50
	15.5		6	2437	15.18	15.32	15.34	15.58	21.38	137.341	26.50
	14		9	2452	13.31	13.42	13.66	13.53	19.50	89.177	26.50



SISO-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	18.5	11b	1	2412	18.34	18.34	68.234	29.50
	21		6	2437	20.87	20.87	122.180	29.50
	18		11	2462	17.48	17.48	55.976	29.50
6	17	11g	1	2412	16.59	16.59	45.604	29.50
	20.5		6	2437	20.54	20.54	113.240	29.50
	18.5		11	2462	18.05	18.05	63.826	29.50
MCS0	19.5	11n HT20	1	2412	19.42	19.42	87.498	29.50
	21		6	2437	20.14	20.14	103.276	29.50
	18		11	2462	17.04	17.04	50.582	29.50
MCS0	17.5	11n HT40	3	2422	17.34	17.34	54.200	29.50
	18.5		6	2437	17.98	17.98	62.806	29.50
	16.5		9	2452	16.10	16.10	40.738	29.50
NSS1-MCS0	19.5	11be EHT20	1	2412	19.04	19.04	80.168	29.50
	21		6	2437	20.42	20.42	110.154	29.50
	18		11	2462	17.49	17.49	56.105	29.50
NSS1-MCS0	17.5	11be EHT40	3	2422	17.44	17.44	55.463	29.50
	18.5		6	2437	18.18	18.18	65.766	29.50
	16.5		9	2452	16.04	16.04	40.179	29.50



SISO-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	18.5	11b	1	2412	18.52	18.52	71.121	29.50
	21		6	2437	21.07	21.07	127.938	29.50
	18		11	2462	17.74	17.74	59.429	29.50
6	17	11g	1	2412	17.95	17.95	62.373	29.50
	20.5		6	2437	21.44	21.44	139.316	29.50
	18.5		11	2462	19.13	19.13	81.846	29.50
MCS0	19.5	11n HT20	1	2412	20.28	20.28	106.660	29.50
	21		6	2437	20.98	20.98	125.314	29.50
	18		11	2462	18.32	18.32	67.920	29.50
MCS0	17.5	11n HT40	3	2422	17.91	17.91	61.802	29.50
	18.5		6	2437	18.57	18.57	71.945	29.50
	16.5		9	2452	16.74	16.74	47.206	29.50
NSS1-MCS0	19.5	11be EHT20	1	2412	20.50	20.50	112.202	29.50
	21		6	2437	21.16	21.16	130.617	29.50
	18		11	2462	18.24	18.24	66.681	29.50
NSS1-MCS0	17.5	11be EHT40	3	2422	17.85	17.85	60.954	29.50
	18.5		6	2437	18.52	18.52	71.121	29.50
	16.5		9	2452	16.71	16.71	46.881	29.50



SISO-ANT C

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 C			
1	18.5	11b	1	2412	18.48	18.48	70.469	29.50
	21		6	2437	21.16	21.16	130.617	29.50
	18		11	2462	17.86	17.86	61.094	29.50
6	17	11g	1	2412	18.29	18.29	67.453	29.50
	20.5		6	2437	21.26	21.26	133.660	29.50
	18.5		11	2462	19.16	19.16	82.414	29.50
MCS0	19.5	11n HT20	1	2412	20.21	20.21	104.954	29.50
	21		6	2437	21.45	21.45	139.637	29.50
	18		11	2462	18.41	18.41	69.343	29.50
MCS0	17.5	11n HT40	3	2422	17.73	17.73	59.293	29.50
	18.5		6	2437	18.54	18.54	71.450	29.50
	16.5		9	2452	16.49	16.49	44.566	29.50
NSS1-MCS0	19.5	11be EHT20	1	2412	20.29	20.29	106.905	29.50
	21		6	2437	21.46	21.46	139.959	29.50
	18		11	2462	18.33	18.33	68.077	29.50
NSS1-MCS0	17.5	11be EHT40	3	2422	18.03	18.03	63.533	29.50
	18.5		6	2437	18.57	18.57	71.945	29.50
	16.5		9	2452	16.94	16.94	49.431	29.50



SISO-ANT D

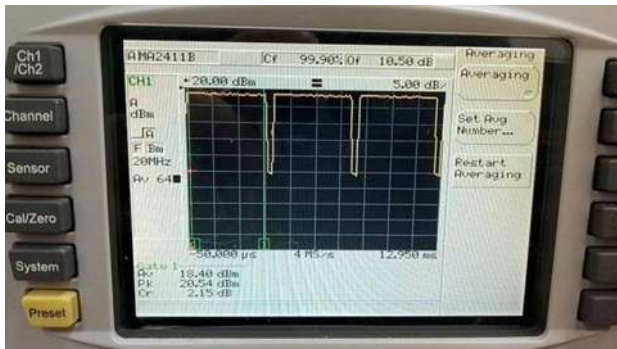
Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT D			
1	18.5	11b	1	2412	18.30	18.30	67.608	29.50
	21		6	2437	20.94	20.94	124.165	29.50
	18		11	2462	17.48	17.48	55.976	29.50
6	17	11g	1	2412	16.77	16.77	47.534	29.50
	20.5		6	2437	20.23	20.23	105.439	29.50
	18.5		11	2462	17.96	17.96	62.517	29.50
MCS0	19.5	11n HT20	1	2412	19.04	19.04	80.168	29.50
	21		6	2437	20.10	20.10	102.329	29.50
	18		11	2462	17.14	17.14	51.761	29.50
MCS0	17.5	11n HT40	3	2422	17.37	17.37	54.576	29.50
	18.5		6	2437	18.07	18.07	64.121	29.50
	16.5		9	2452	16.15	16.15	41.210	29.50
NSS1-MCS0	19.5	11be EHT20	1	2412	19.35	19.35	86.099	29.50
	21		6	2437	20.53	20.53	112.980	29.50
	18		11	2462	17.36	17.36	54.450	29.50
NSS1-MCS0	17.5	11be EHT40	3	2422	17.18	17.18	52.240	29.50
	18.5		6	2437	18.26	18.26	66.988	29.50
	16.5		9	2452	16.01	16.01	39.902	29.50



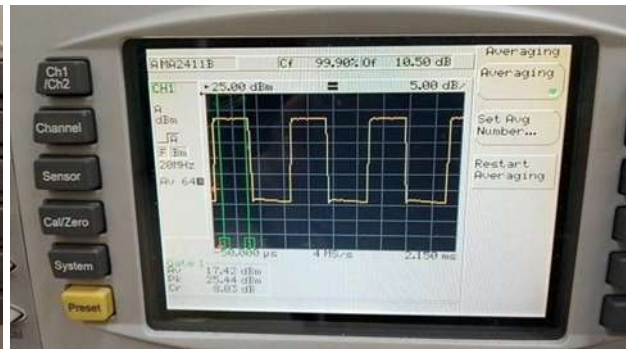
Non Beamforming

Gate setup plot:

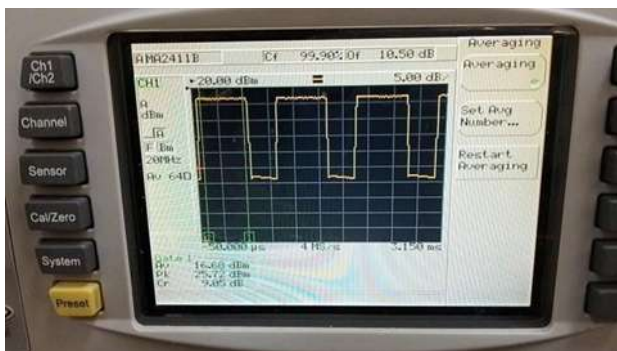
Modulation Type: 802.11b(1Mbps)



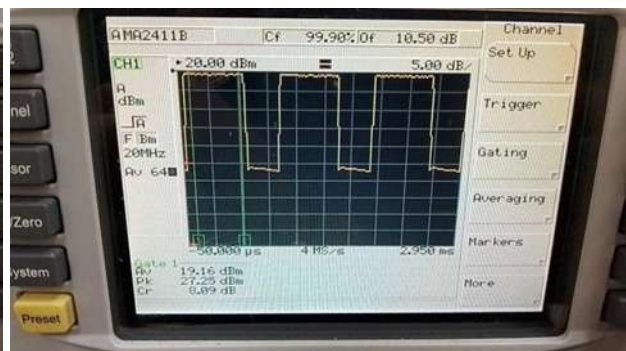
Modulation Type: 802.11n HT40(13.5Mbps)



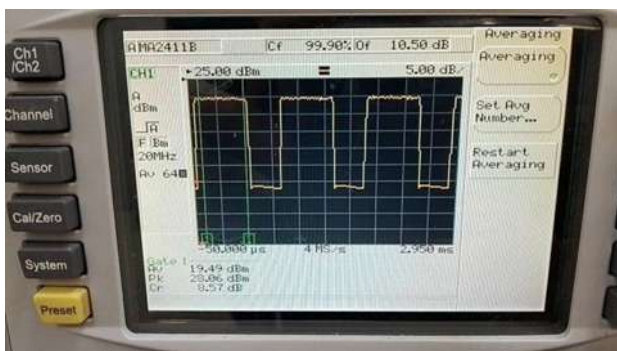
Modulation Type: 802.11g(6Mbps)



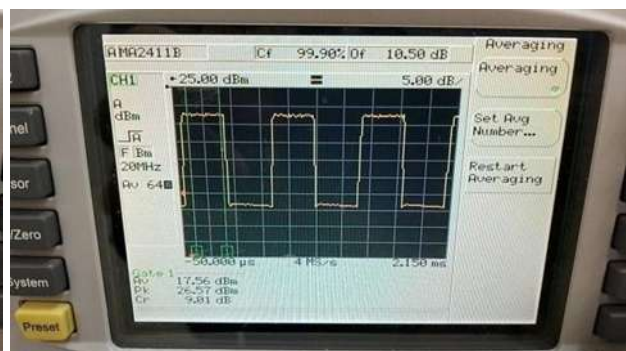
Modulation Type: 802.11be EHT20(6.5Mbps)



Modulation Type: 802.11n HT20(6.5Mbps)



Modulation Type: 802.11be EHT40(13.5Mbps)





11. Power Spectral Density

11.1 Test Limit

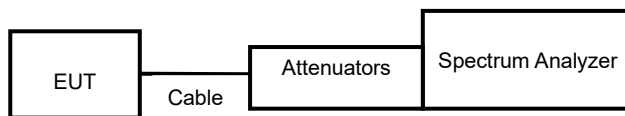
The Maximum of Power Spectral Density Measurement is 8dBm.

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 C63.10-2020 Section 11.10

11.3 Test Setup Layout



11.4 Test Result and Data

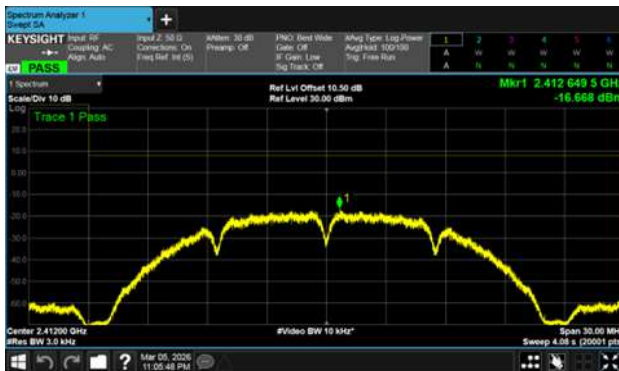
Non Beamforming

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	ANT C	ANT D				
11b	1	2412	-16.668	-16.103	-16.374	-16.432	-10.37	0.37	-10.00	4.50
	6	2437	-14.092	-14.164	-14.057	-14.354	-8.14	0.37	-7.77	4.50
	11	2462	-17.219	-17.381	-16.914	-17.226	-11.16	0.37	-10.79	4.50
11g	1	2412	-20.036	-19.32	-18.945	-18.972	-13.28	1.91	-11.37	4.50
	6	2437	-13.047	-12.242	-12.129	-13.222	-6.61	1.91	-4.70	4.50
	11	2462	-18.835	-17.914	-17.6	-17.363	-11.87	1.91	-9.96	4.50
11n HT20	1	2412	-17.389	-16.532	-16.866	-16.64	-10.82	1.99	-8.83	4.50
	6	2437	-13.025	-11.954	-12.542	-13.116	-6.61	1.99	-4.62	4.50
	11	2462	-18.201	-18.5	-18.026	-18.012	-12.16	1.99	-10.17	4.50
11n HT40	3	2422	-21.804	-21.077	-21.748	-21.564	-15.52	3.30	-12.22	4.50
	6	2437	-20.351	-20.594	-20.492	-19.666	-14.24	3.30	-10.94	4.50
	9	2452	-22.817	-22.751	-22.931	-22.397	-16.70	3.30	-13.40	4.50
11be EHT20	1	2412	-17.395	-16.215	-17.373	-17.746	-11.12	2.06	-9.06	4.50
	6	2437	-15.829	-15.697	-15.67	-15.712	-9.71	2.06	-7.65	4.50
	11	2462	-19.083	-18.757	-18.953	-19.107	-12.95	2.06	-10.89	4.50
11be EHT40	3	2422	-23.798	-23.857	-22.754	-23.111	-17.33	3.15	-14.18	4.50
	6	2437	-22.394	-22.006	-21.62	-22.571	-16.11	3.15	-12.96	4.50
	9	2452	-23.631	-24.93	-23.663	-24.874	-18.21	3.15	-15.06	4.50

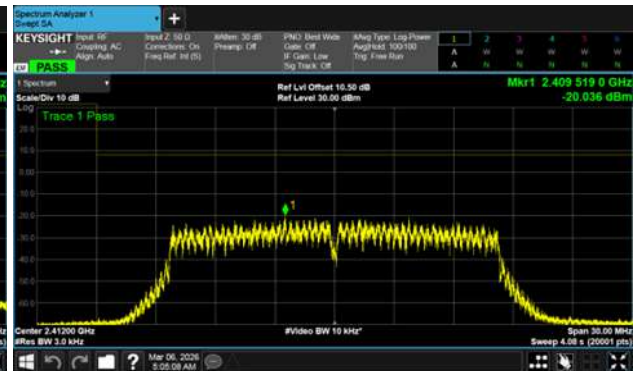


Non Beamforming-ANT A

Modulation Type: 802.11b
CH01



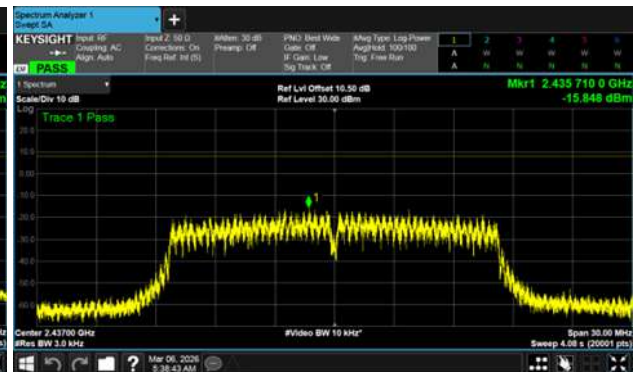
Modulation Type: 802.11g
CH01



CH06



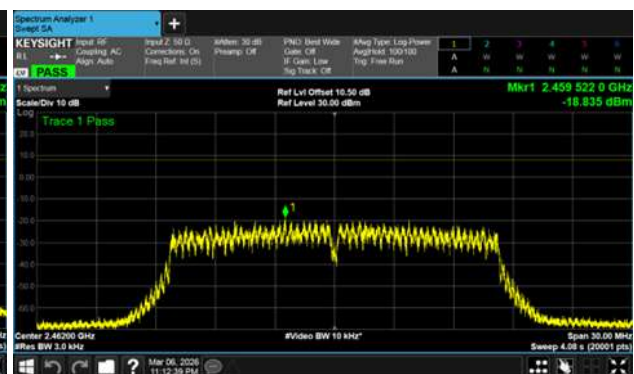
CH06



CH11

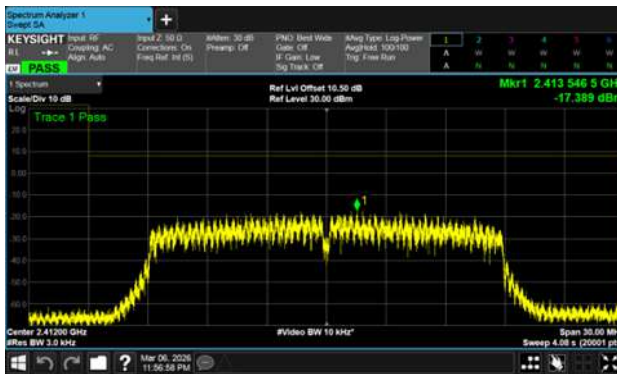


CH11

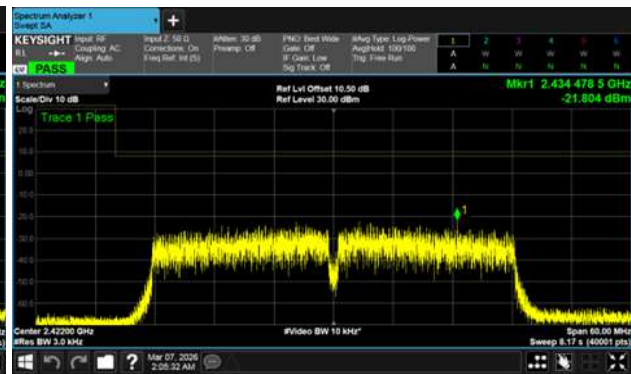




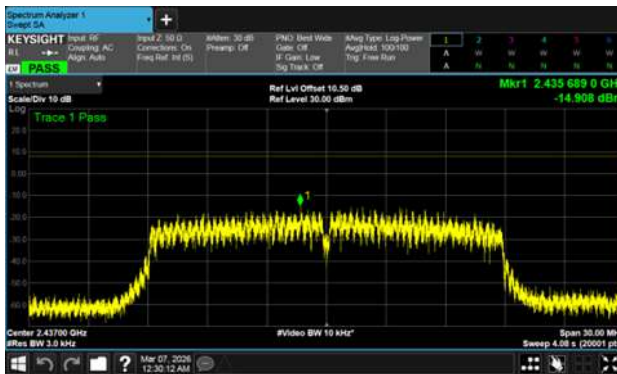
ANT A
Modulation Type: 802.11n HT20
CH01



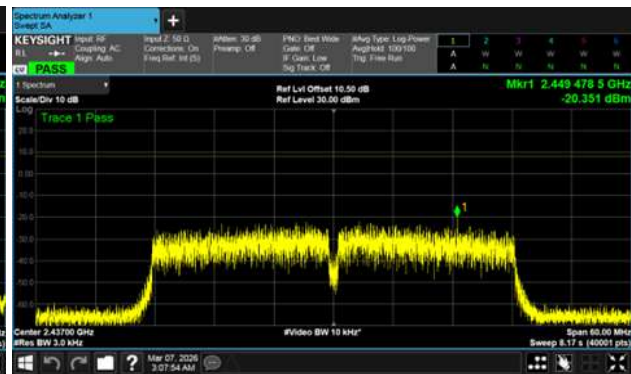
Modulation Type: 802.11n HT40
CH03



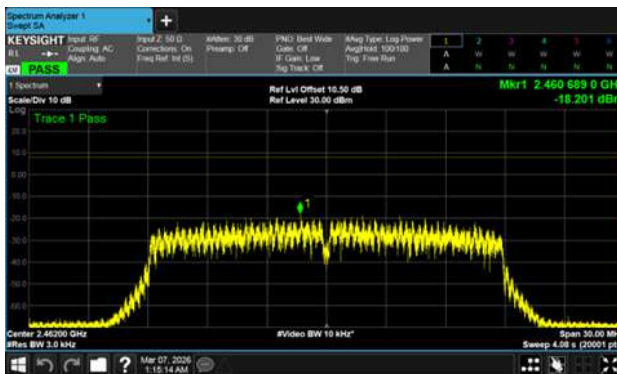
CH06



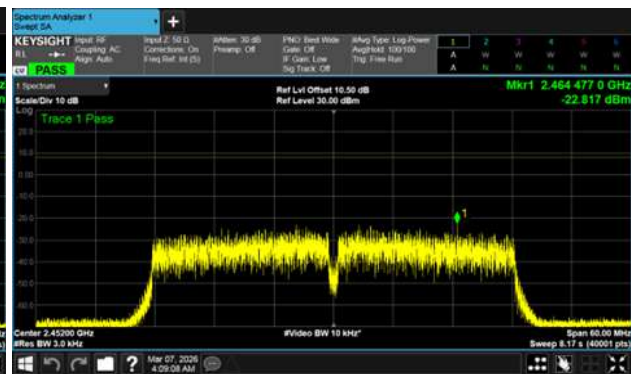
CH06



CH11

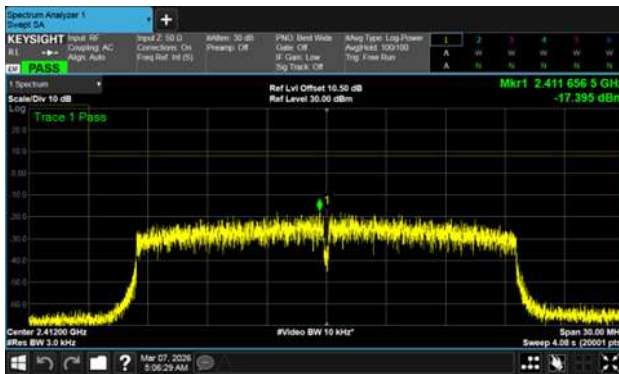


CH09

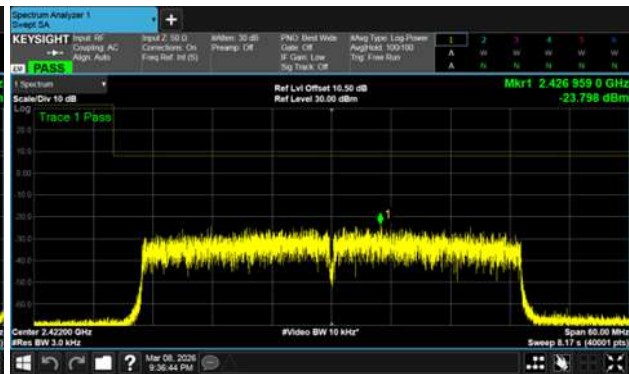




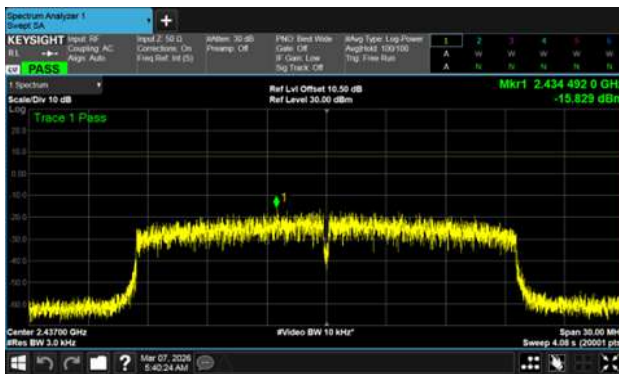
ANT A
Modulation Type: 802.11be EHT20
CH01



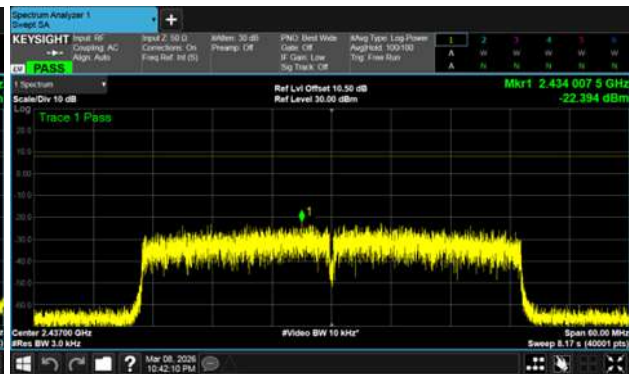
Modulation Type: 802.11be EHT40
CH03



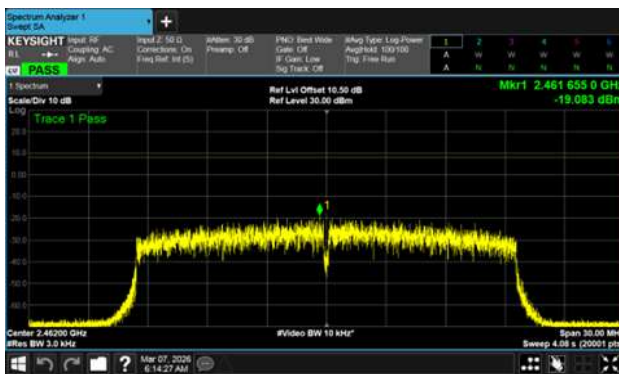
CH06



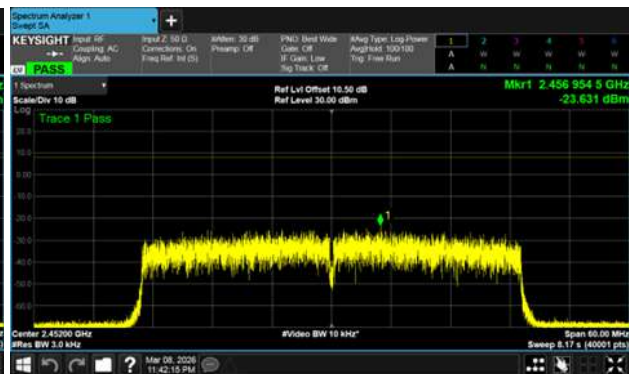
CH06



CH11



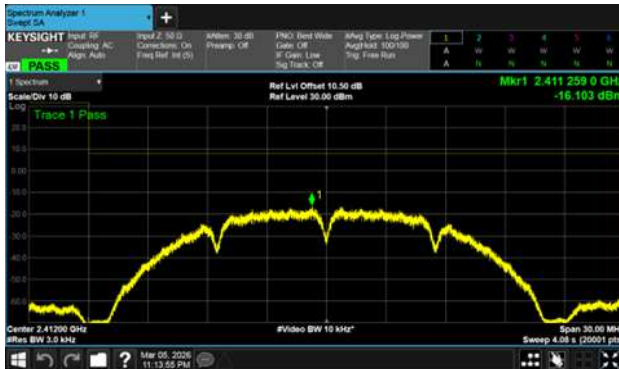
CH09



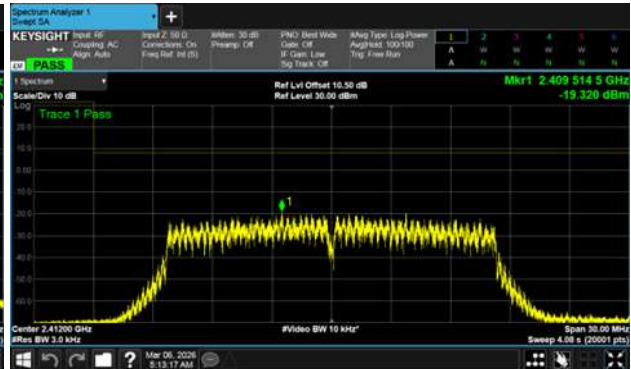


Non Beamforming-ANT B

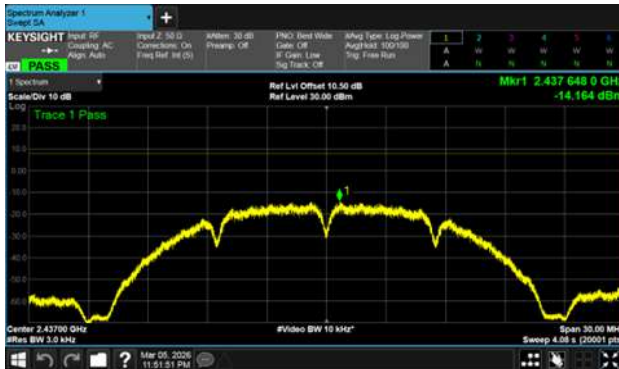
Modulation Type: 802.11b
CH01



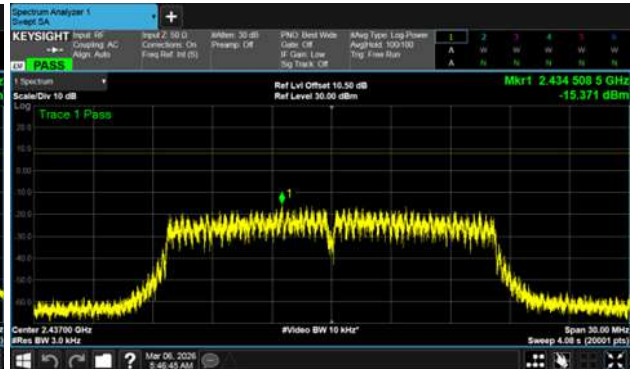
Modulation Type: 802.11g
CH01



CH06



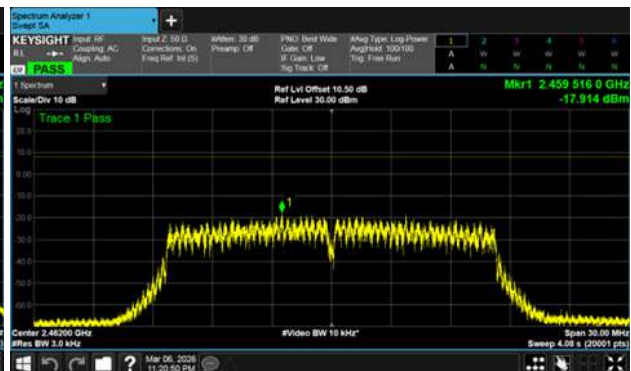
CH06



CH11

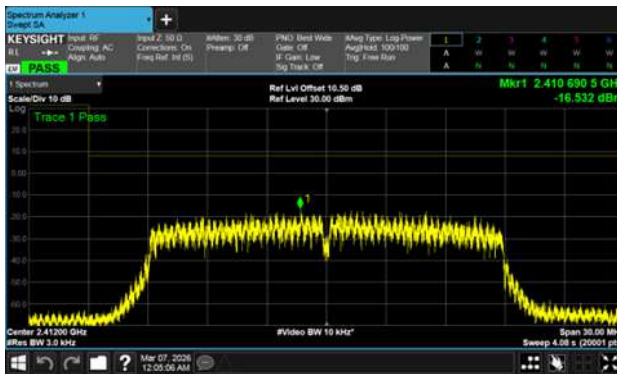
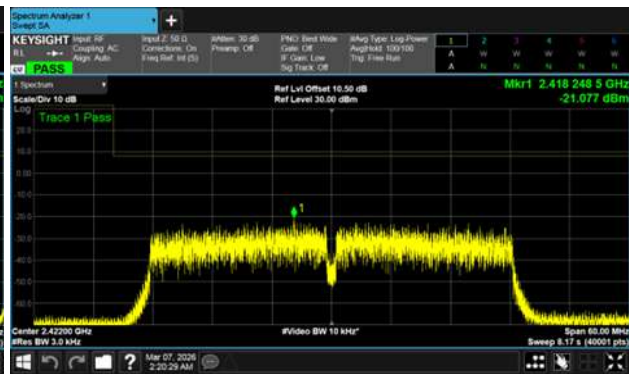


CH11

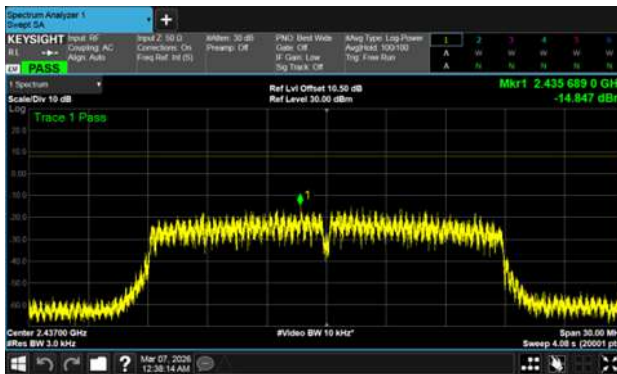




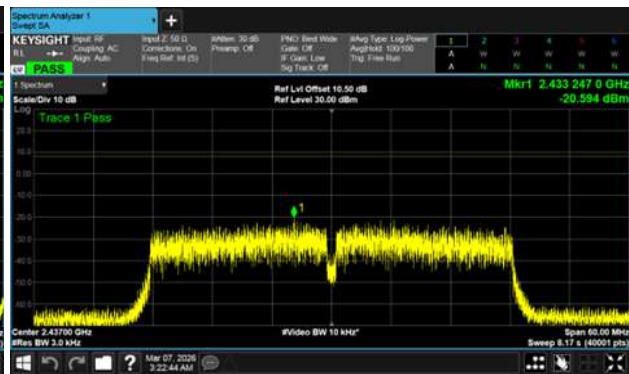
ANT B

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

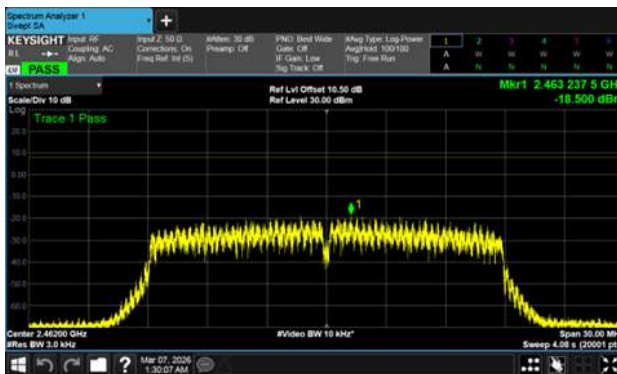
CH06



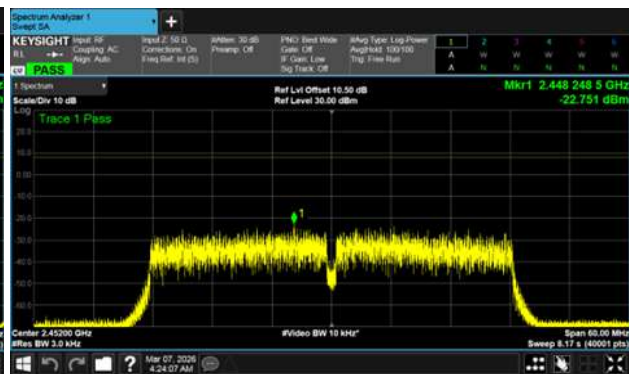
CH06



CH11

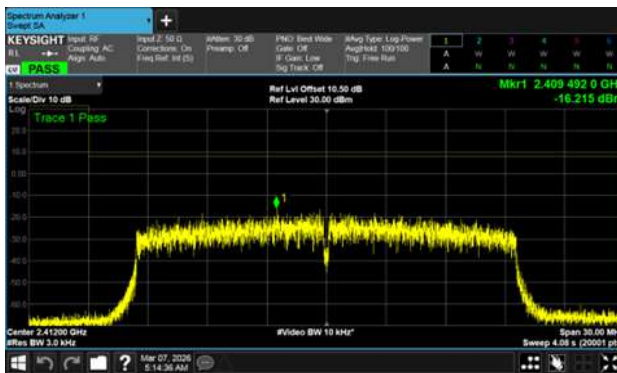
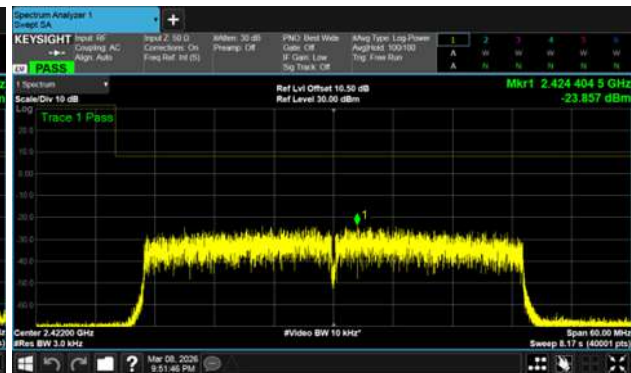


CH09

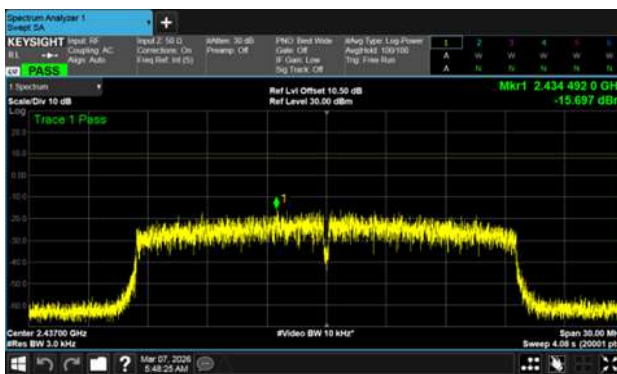




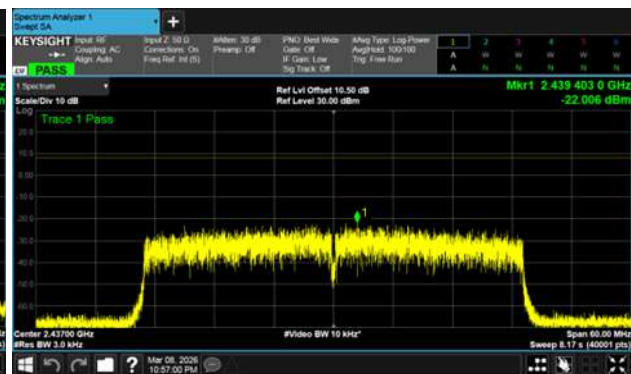
ANT B

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

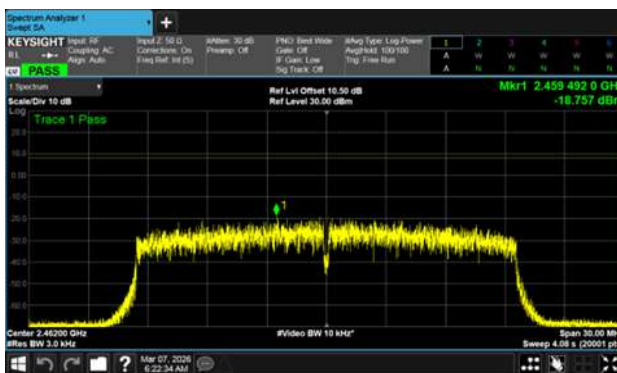
CH06



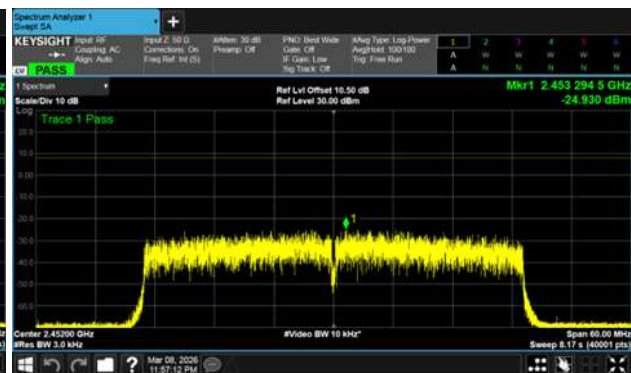
CH06



CH11

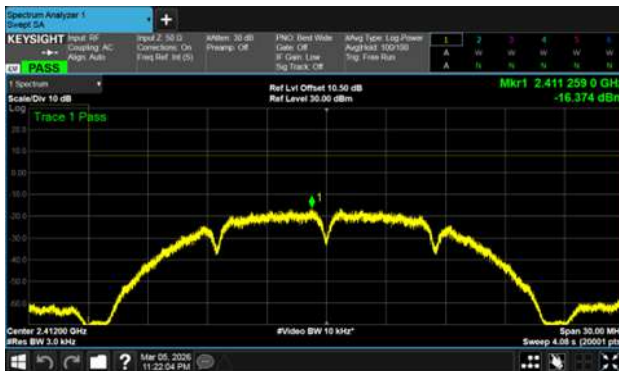


CH09

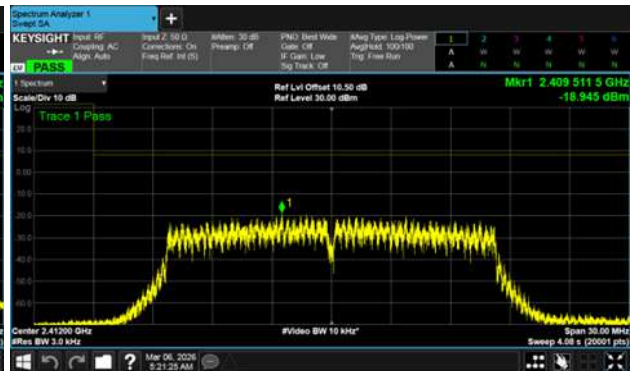




Non Beamforming-ANT C
Modulation Type: 802.11b
CH01



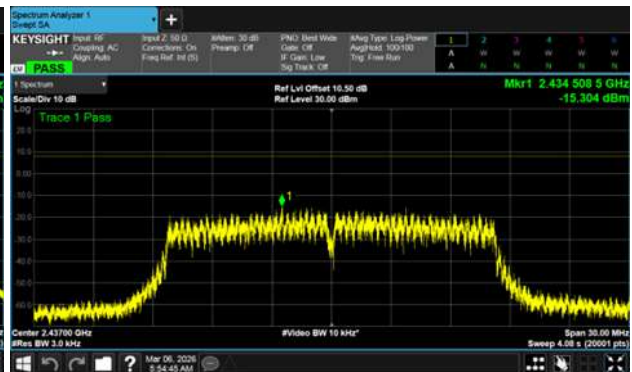
Modulation Type: 802.11g
CH01



CH06



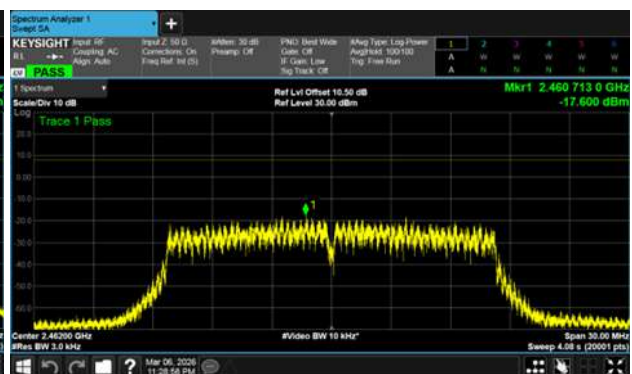
CH06



CH11

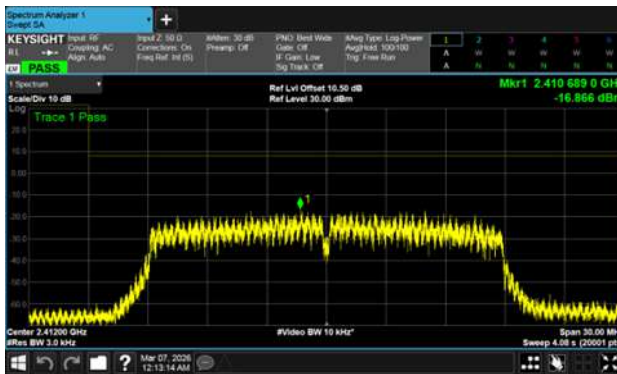
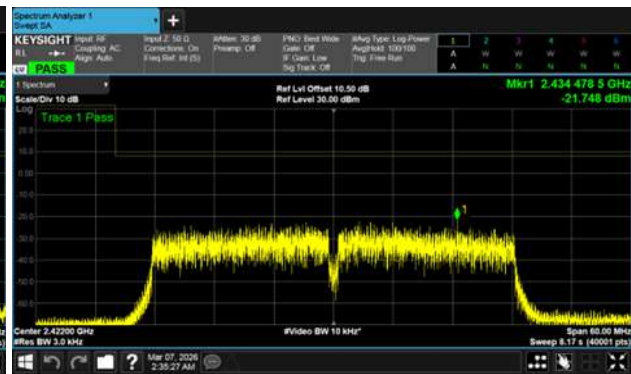


CH11

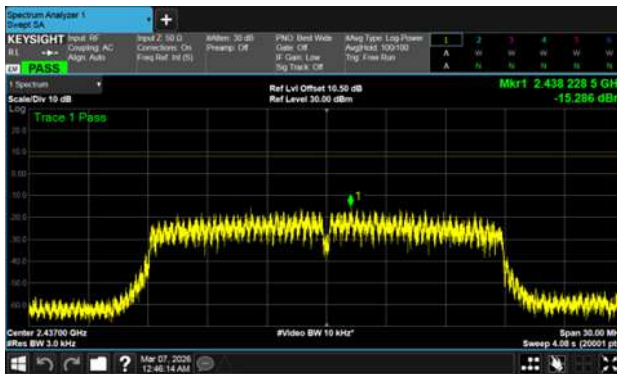




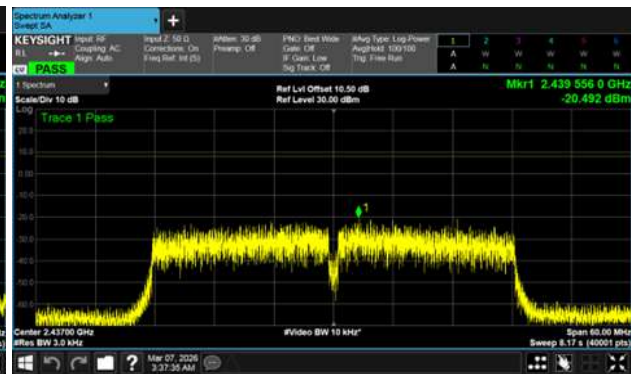
ANT C

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

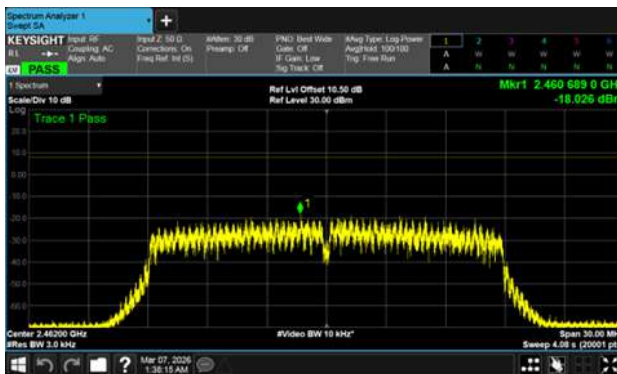
CH06



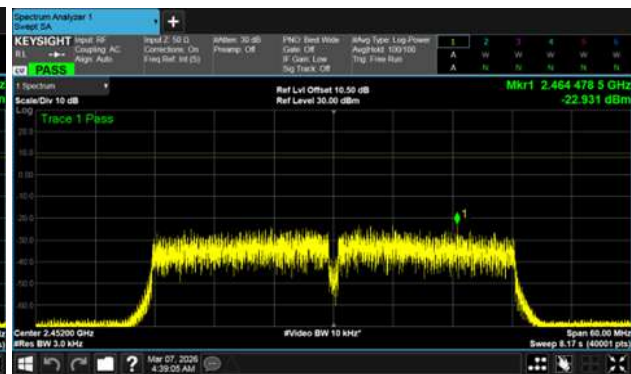
CH06



CH11

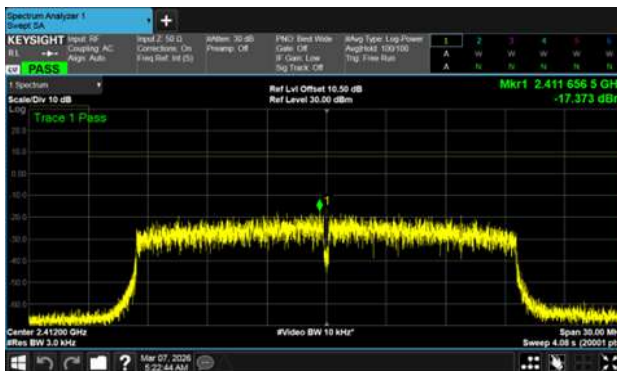
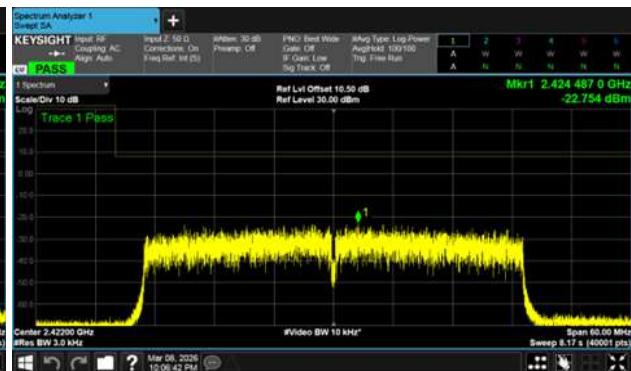


CH09

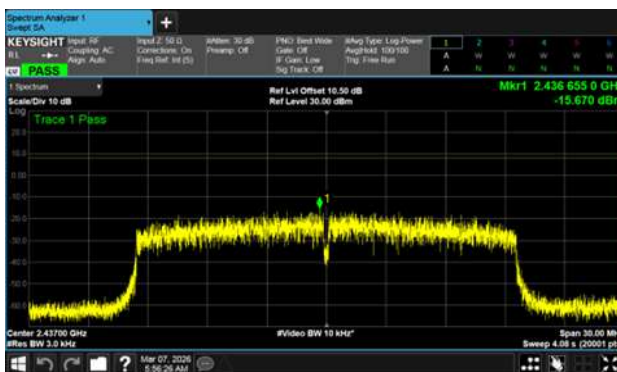




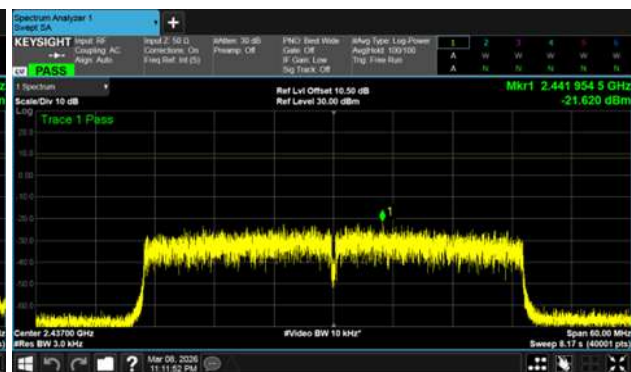
ANT C

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

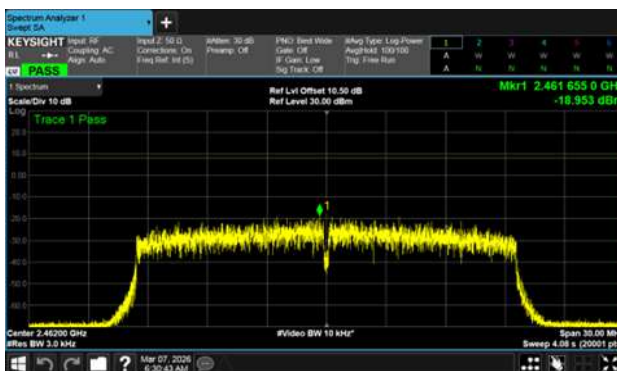
CH06



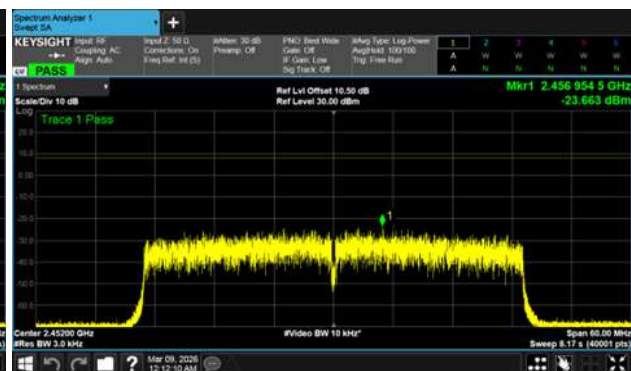
CH06



CH11



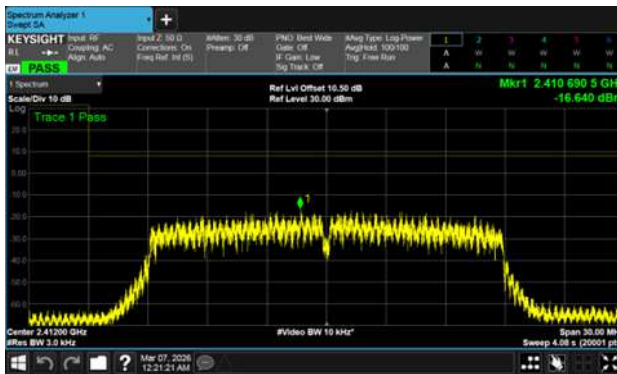
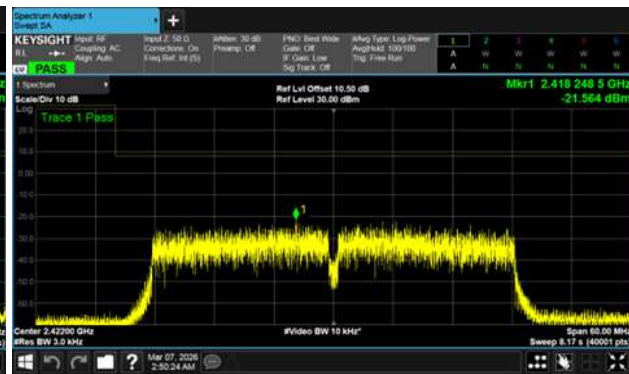
CH09



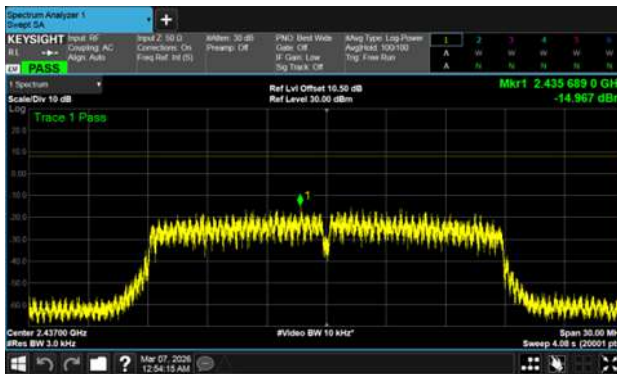




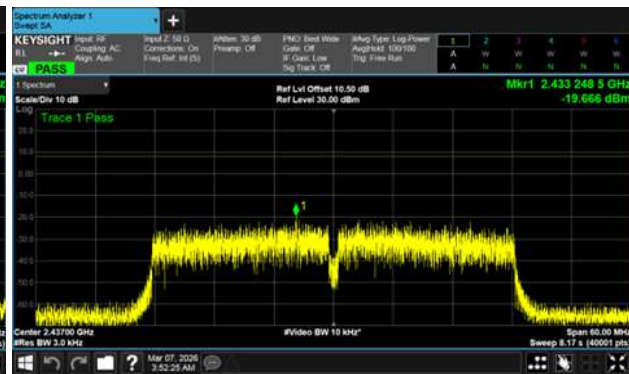
ANT D

Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03

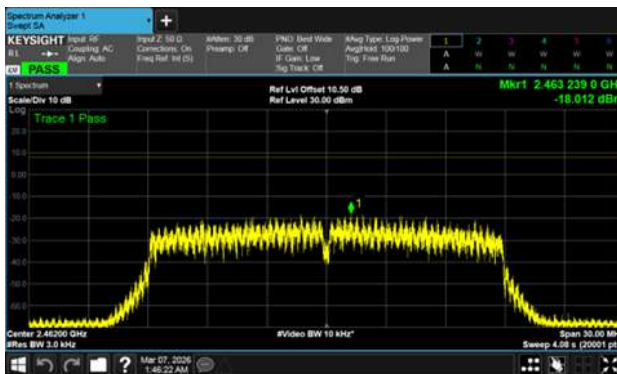
CH06



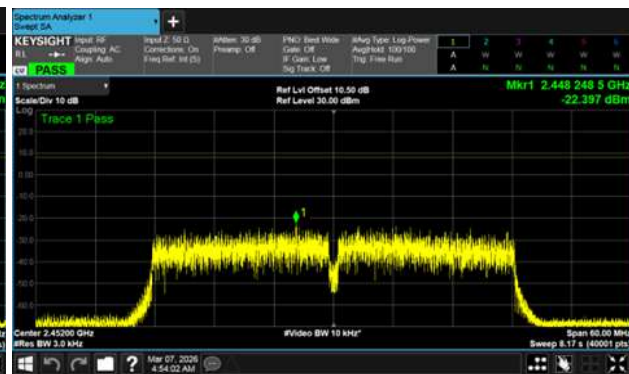
CH06



CH11

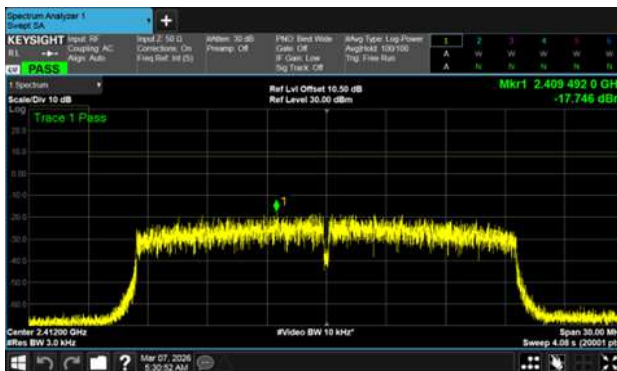
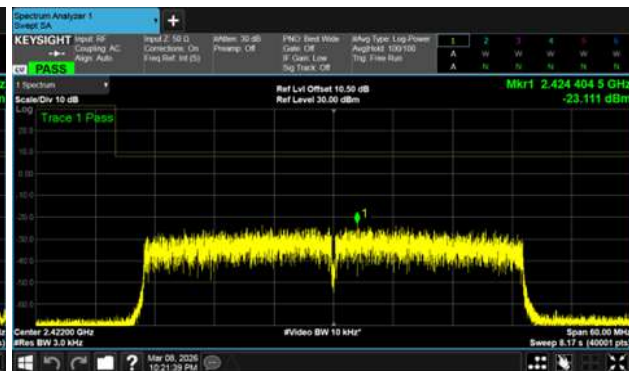


CH09

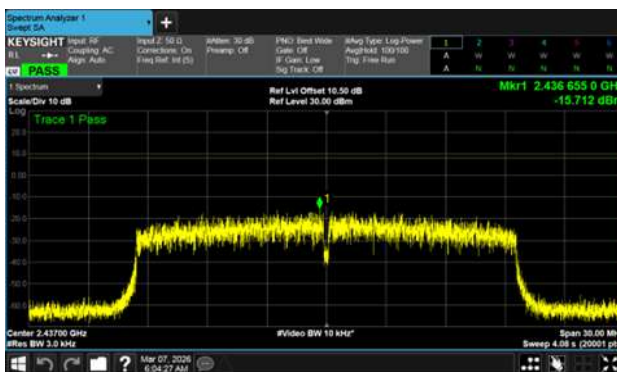




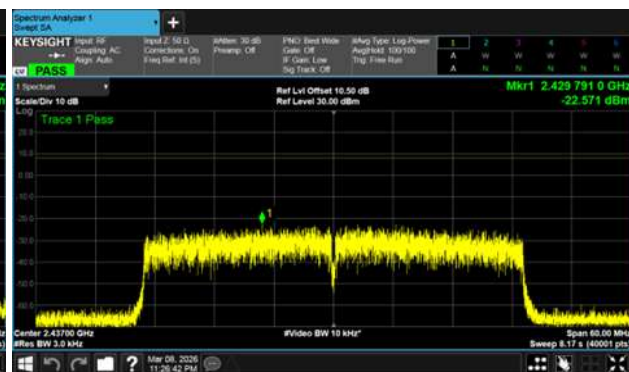
ANT D

Modulation Type: 802.11be EHT20
CH01Modulation Type: 802.11be EHT40
CH03

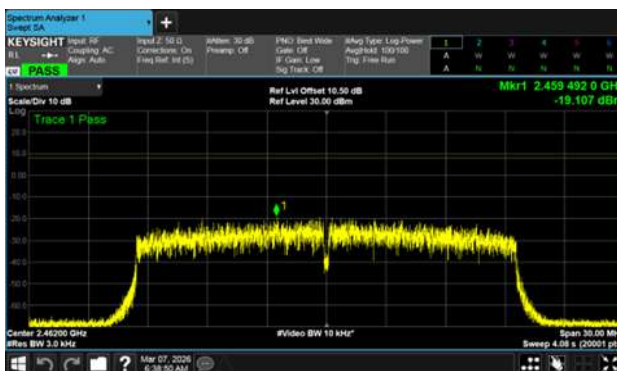
CH06



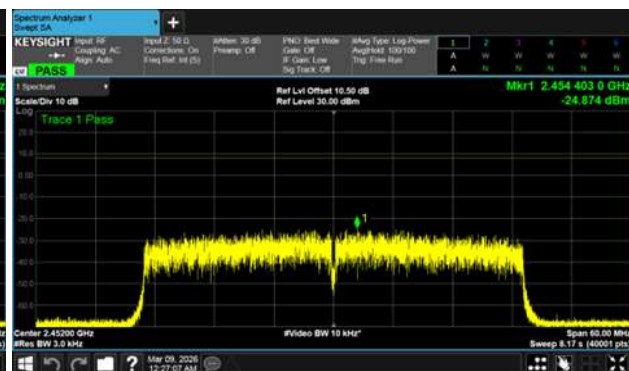
CH06



CH11



CH09



-----THE END OF REPORT-----