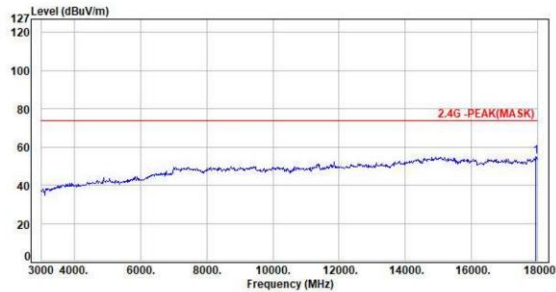




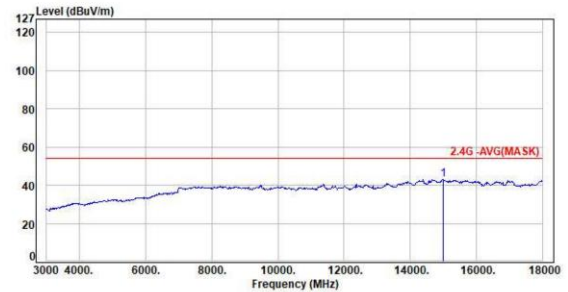
Test Mode : 1TX 11ax20 CH11 NSS1 MCS0
Pol : Vertical Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17940.00	6.33	48.61	54.94	74.00	-19.06	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

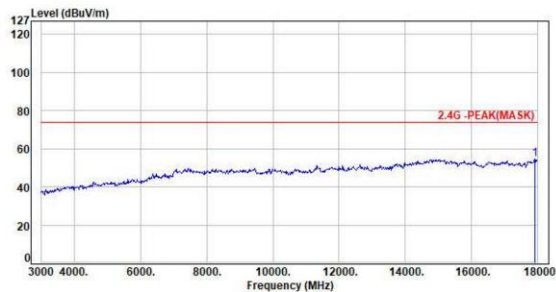
Test Mode : 1TX 11ax20 CH11 NSS1 MCS0
Pol : Vertical Detector : Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	15000.00	6.30	36.82	43.12	54.00	-10.88	Average	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

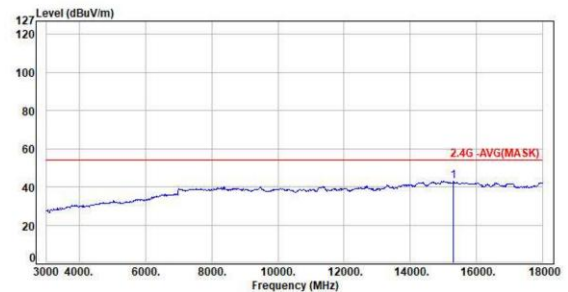
Test Mode : 1TX 11ax20 CH11 NSS1 MCS0
Pol : Horizontal Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17910.00	6.23	48.19	54.42	74.00	-19.58	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11ax20 CH11 NSS1 MCS0
Pol : Horizontal Detector : Average

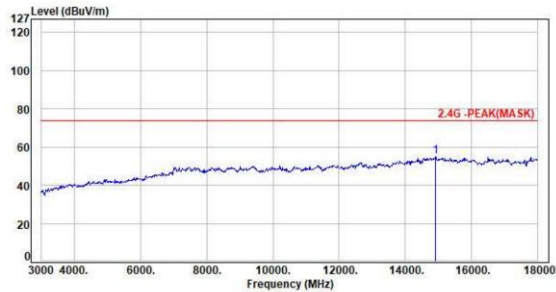


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	15300.00	5.86	37.13	42.99	54.00	-11.01	Average	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



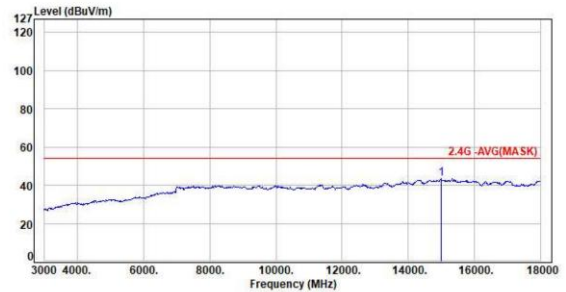
Test Mode : 1TX 11aX40 CH03 NSS1 MCS0
Pol : Vertical Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14910.00	6.18	48.90	55.08	74.00	-18.92	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

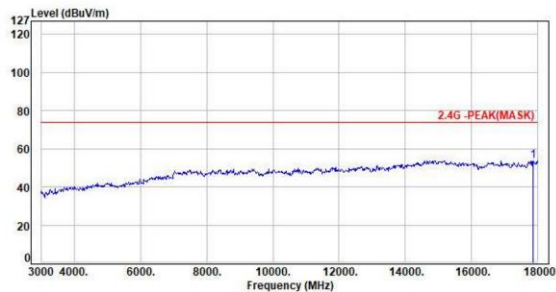
Test Mode : 1TX 11aX40 CH03 NSS1 MCS0
Pol : Vertical Detector : Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14985.00	6.27	37.03	43.30	54.00	-10.70	Average	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

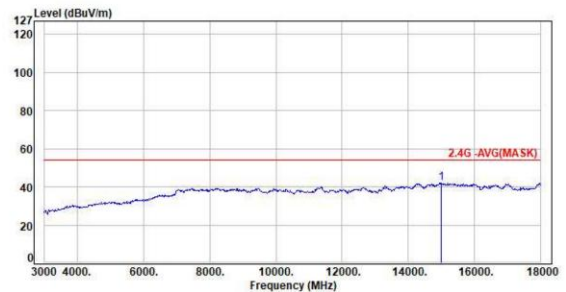
Test Mode : 1TX 11aX40 CH03 NSS1 MCS0
Pol : Horizontal Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17850.00	5.62	47.98	53.60	74.00	-20.20	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11aX40 CH03 NSS1 MCS0
Pol : Horizontal Detector : Average

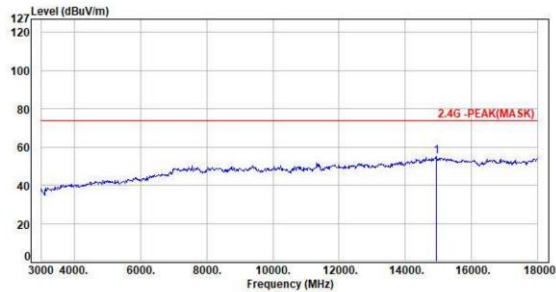


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14985.00	6.27	35.95	42.22	54.00	-11.78	Average	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



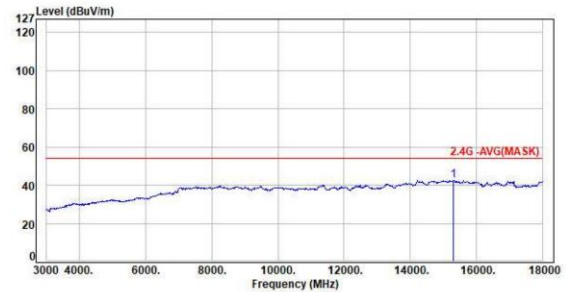
Test Mode : 1TX 11aX40 CH06 NSS1 MCS0
Pol : Vertical Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14940.00	6.19	48.67	54.86	74.00	-19.14	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

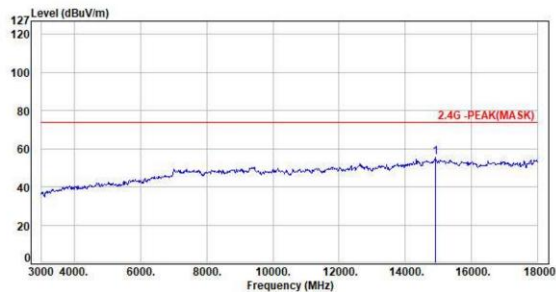
Test Mode : 1TX 11aX40 CH06 NSS1 MCS0
Pol : Vertical Detector : Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	15300.00	5.86	36.67	42.53	54.00	-11.47	Average	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

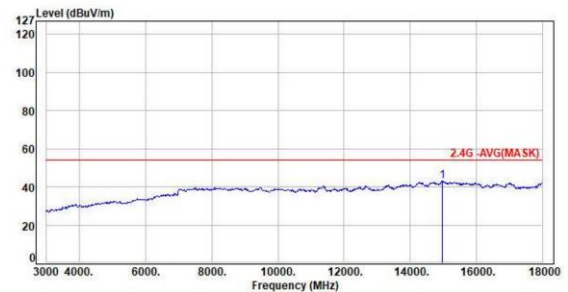
Test Mode : 1TX 11aX40 CH06 NSS1 MCS0
Pol : Horizontal Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14895.00	6.18	49.14	55.32	74.00	-18.68	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11aX40 CH06 NSS1 MCS0
Pol : Horizontal Detector : Average

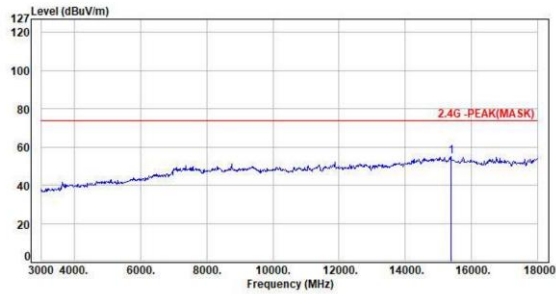


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14955.00	6.21	36.88	43.09	54.00	-10.91	Average	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



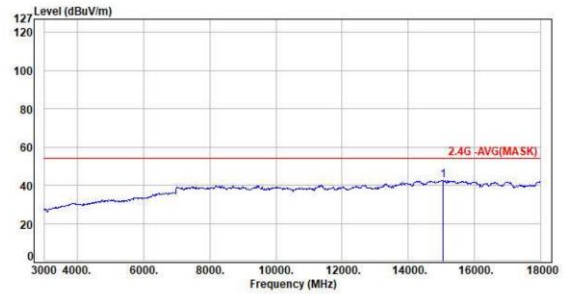
Test Mode : 1TX 11aX40 CH09 NSS1 MCS0
Pol : Vertical Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	15375.00	5.80	49.05	54.85	74.00	-19.15	Peak	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

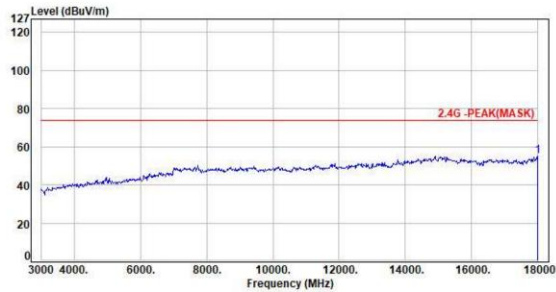
Test Mode : 1TX 11aX40 CH09 NSS1 MCS0
Pol : Vertical Detector : Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	15045.00	6.20	36.29	42.49	54.00	-11.51	Average	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

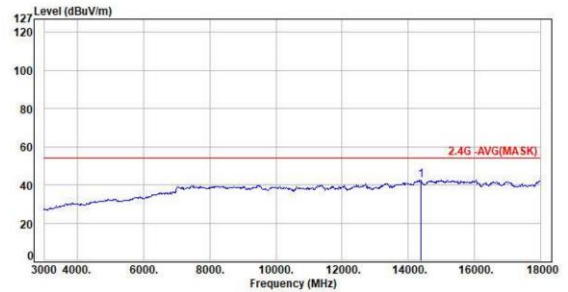
Test Mode : 1TX 11aX40 CH09 NSS1 MCS0
Pol : Horizontal Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	17985.00	6.42	48.49	54.91	74.00	-19.09	Peak	150	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11aX40 CH09 NSS1 MCS0
Pol : Horizontal Detector : Average



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	14370.00	5.92	36.78	42.70	54.00	-11.30	Average	150	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

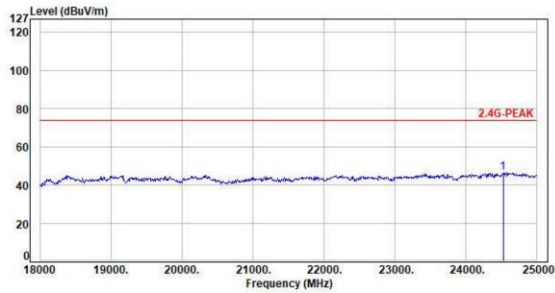


6.9 Test Result and Data (18GHz ~ 25GHz)

Test Mode : 1TX 11b CH06 1Mbps

Pol : Vertical

Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	24524.00	1.67	44.92	46.59	74.00	-27.41	Peak	150	0	P

Note: Level=Reading+Factor

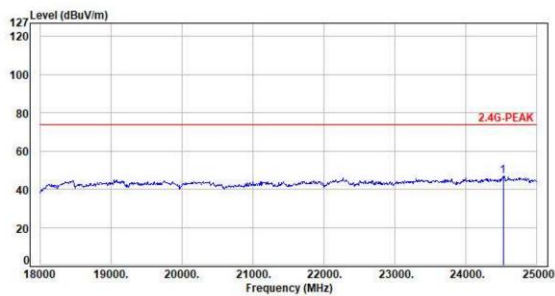
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Test Mode : 1TX 11b CH06 1Mbps

Pol : Horizontal

Detector : Peak



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	24524.00	1.67	45.08	46.75	74.00	-27.25	Peak	150	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.10 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 C63.10-2020 Section 11.11.1

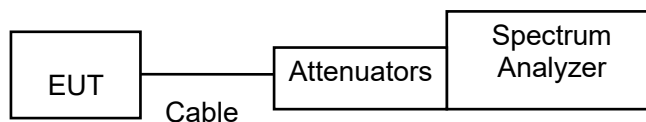
Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2020 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 100kHz and VBW of spectrum analyzer to 300kHz with convenient frequency span including 100kHz bandwidth from band edge.
- Peak conducted output power measured within any 100kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout

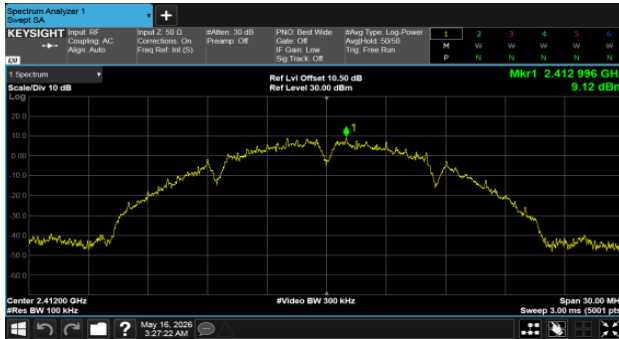


7.4 Test Result and Data

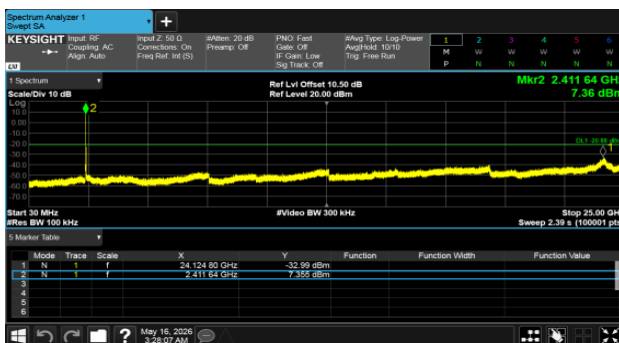
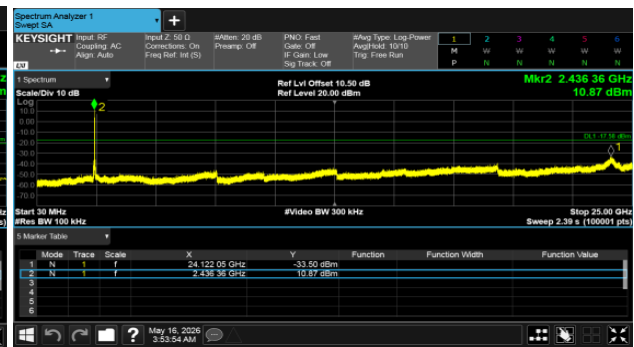
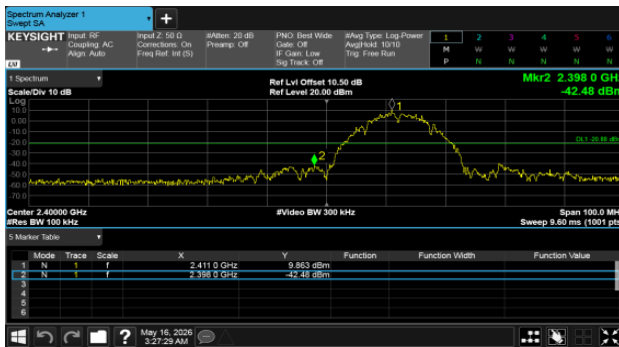
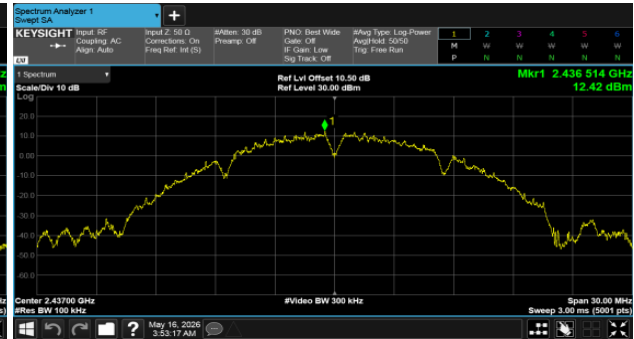
Note: Test plots refers to the following pages.



Modulation Type: 802.11b CH01

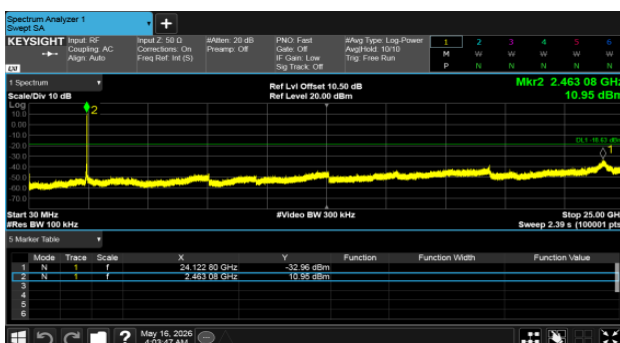
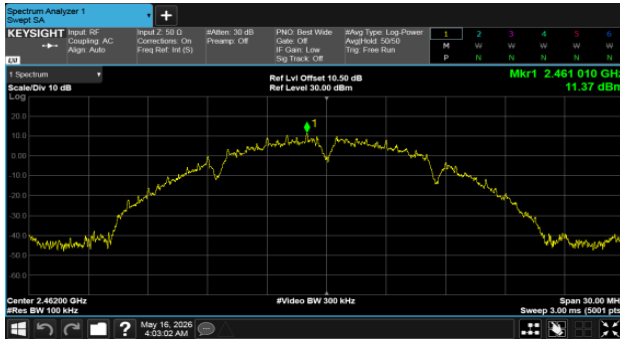


Modulation Type: 802.11b CH06



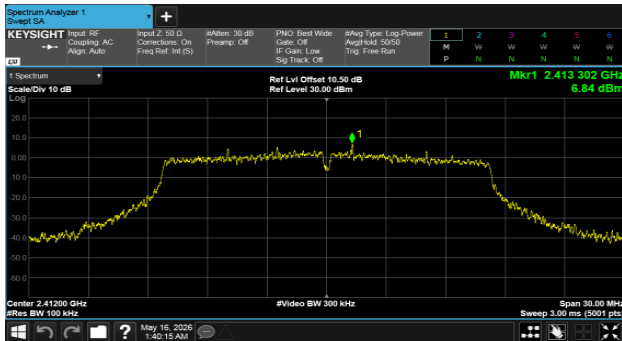


Modulation Type: 802.11b CH11

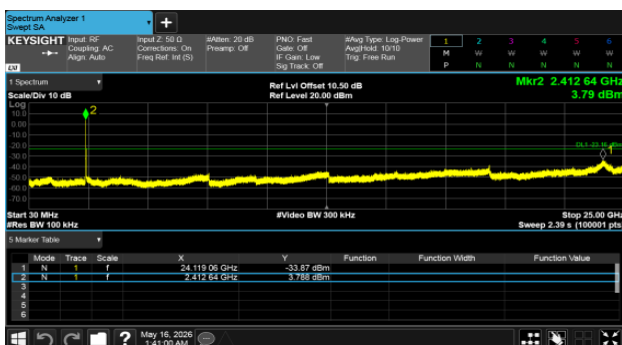
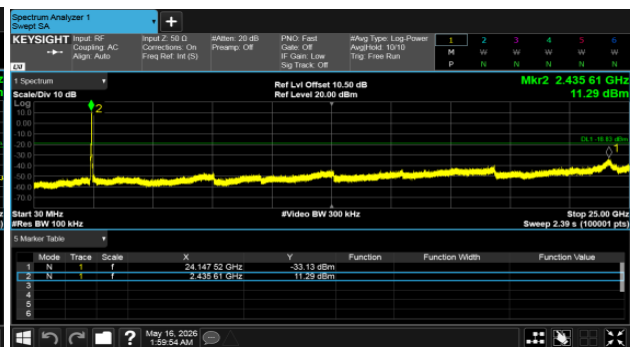
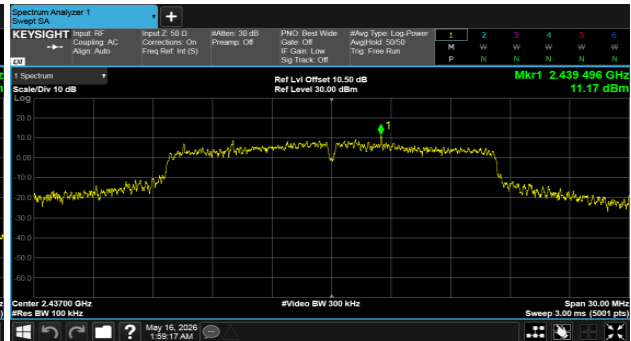




Modulation Type: 802.11g CH01

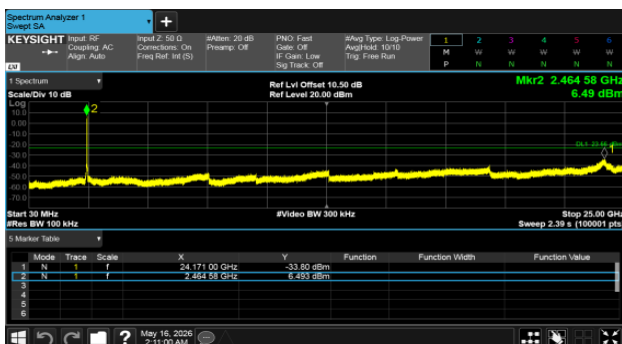
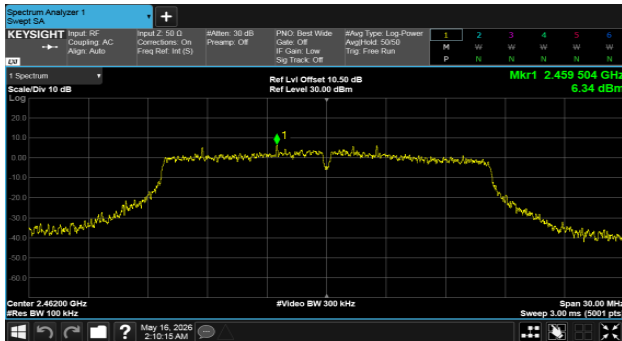


Modulation Type: 802.11g CH06



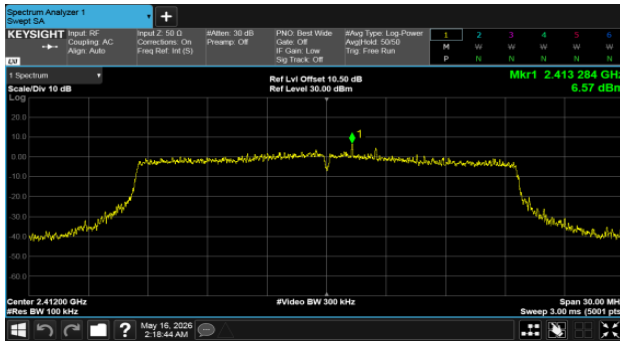


Modulation Type: 802.11g CH11

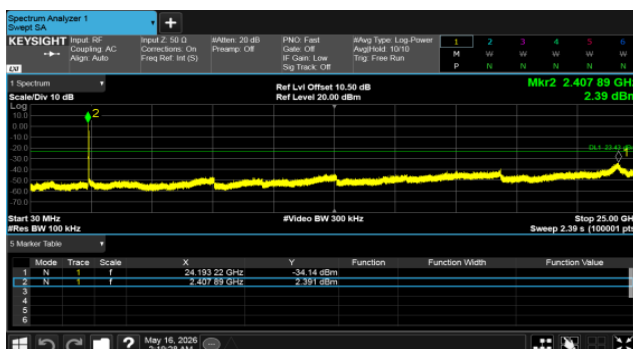
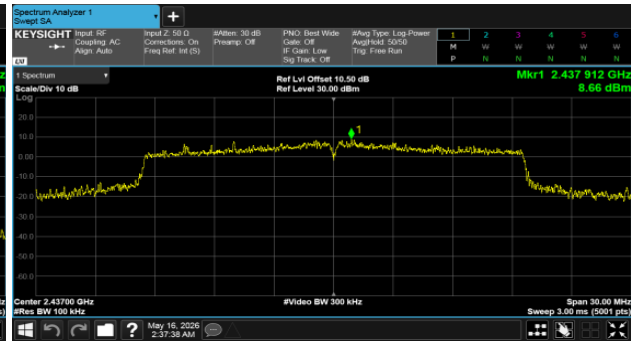




Modulation Type: 802.11ax HE20, CH01

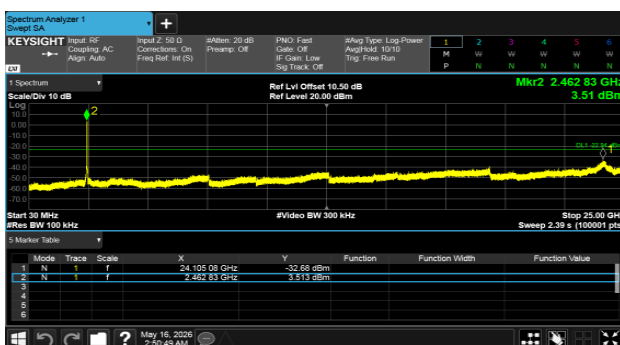
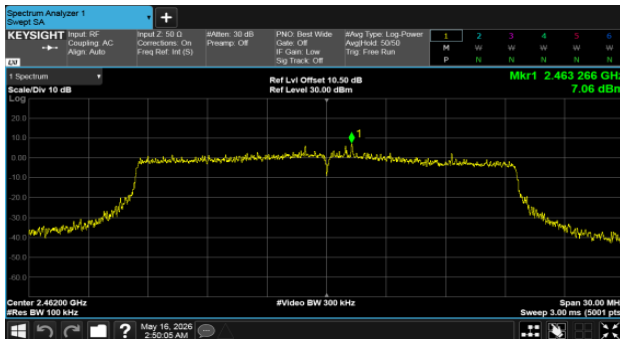


Modulation Type: 802.11ax HE20, CH06



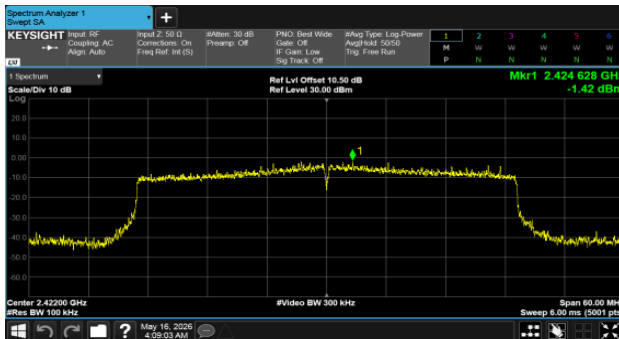


Modulation Type: 802.11ax HE20, CH11

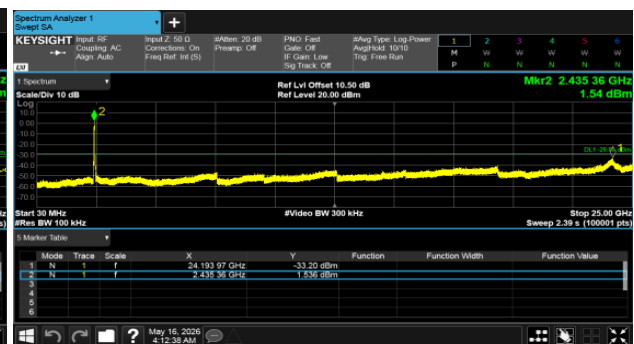
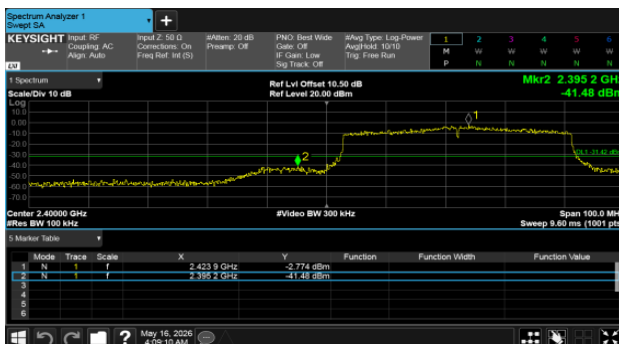
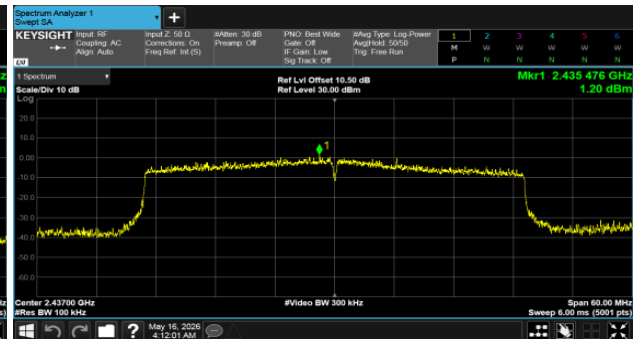




Modulation Type: 802.11ax HE40, CH03

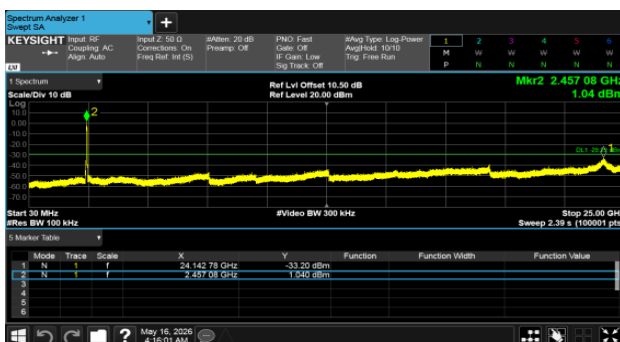
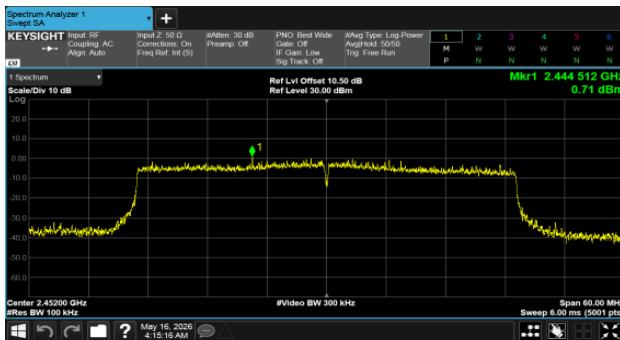


Modulation Type: 802.11ax HE40, CH06





Modulation Type: 802.11ax HE40, CH09





8. On Time, Duty Cycle and Measurement methods

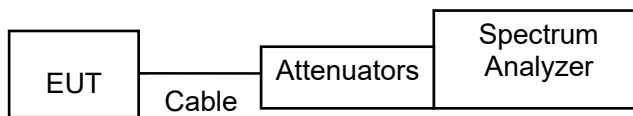
8.1 Test Limit

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

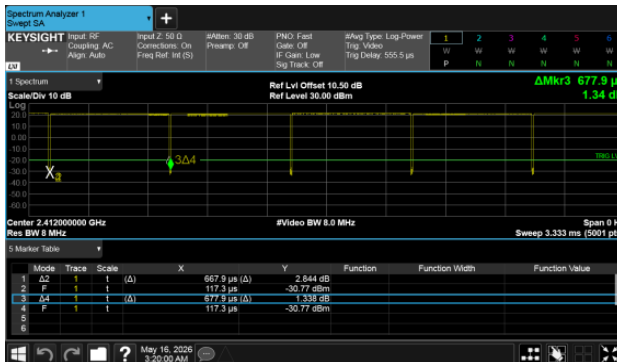


8.4 Test Result and Data

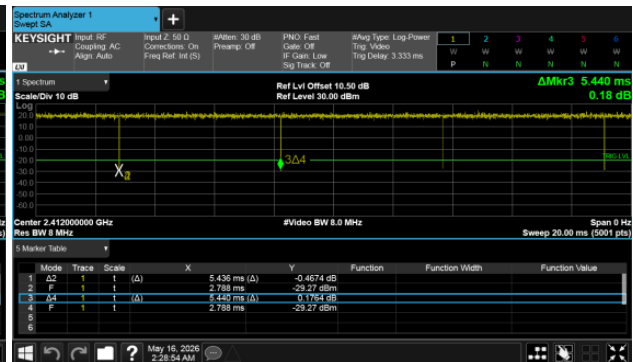
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	0.668	0.678	98.52%
11g,6M	2.102	2.112	99.53%
11ax HE20	5.436	5.440	99.93%
11ax HE40	4.116	4.120	99.90%



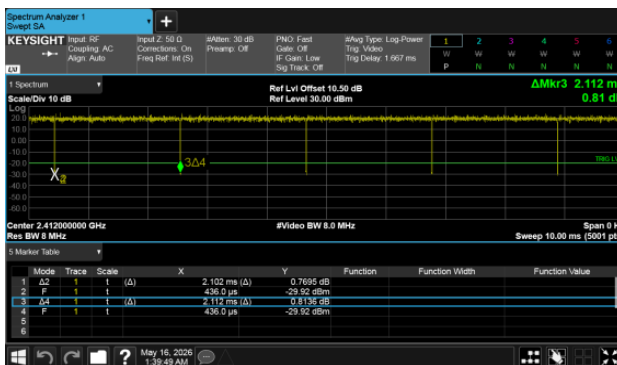
Modulation Type: 802.11b



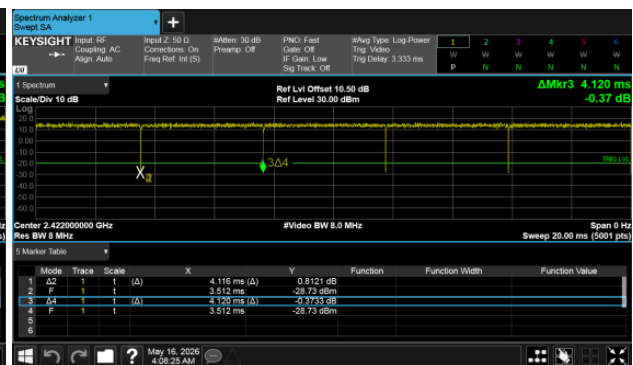
Modulation Type: 802.11ax HE20



Modulation Type: 802.11g



Modulation Type: 802.11ax HE40





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

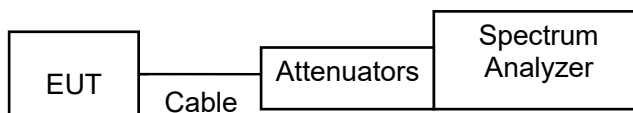
The minimum of 6dB Bandwidth Measurement is 0.5MHz.

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 100kHz and VBW to 300kHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.
- The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout

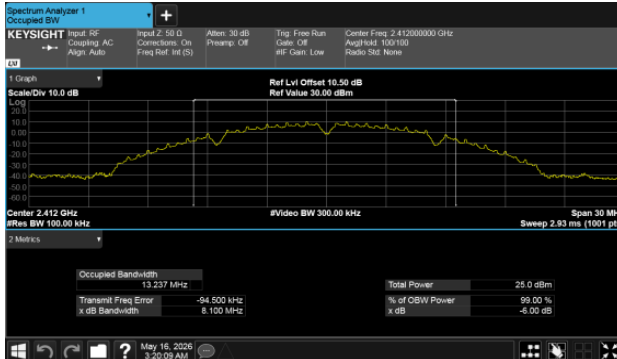


9.4 Test Result and Data

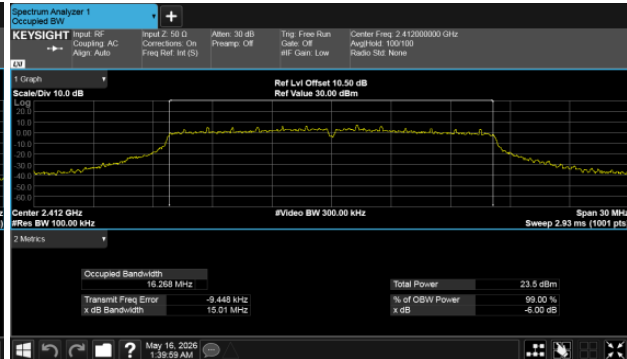
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
			ANT A	
11b	1	2412	8.10	0.5
	6	2437	8.07	0.5
	11	2462	8.10	0.5
11g	1	2412	15.01	0.5
	6	2437	15.13	0.5
	11	2462	15.05	0.5
11ax HE20	1	2412	15.29	0.5
	6	2437	15.24	0.5
	11	2462	15.45	0.5
11ax HE40	3	2422	33.85	0.5
	6	2437	35.35	0.5
	9	2452	35.28	0.5



Modulation Type: 802.11b CH01



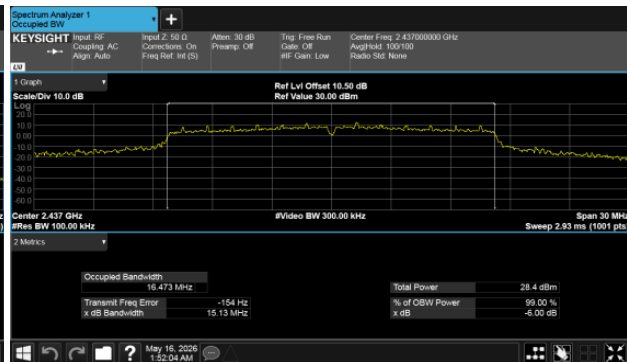
Modulation Type: 802.11g CH01



Modulation Type: 802.11b CH06



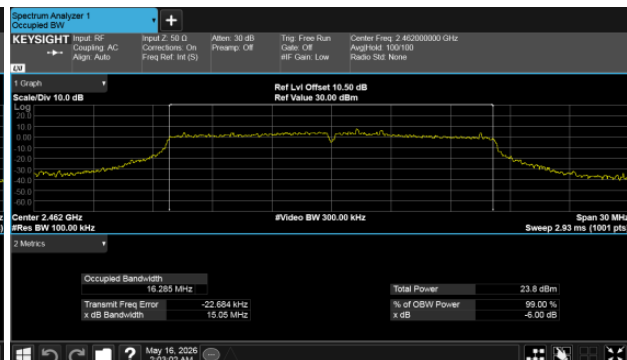
Modulation Type: 802.11g CH06



Modulation Type: 802.11b CH11

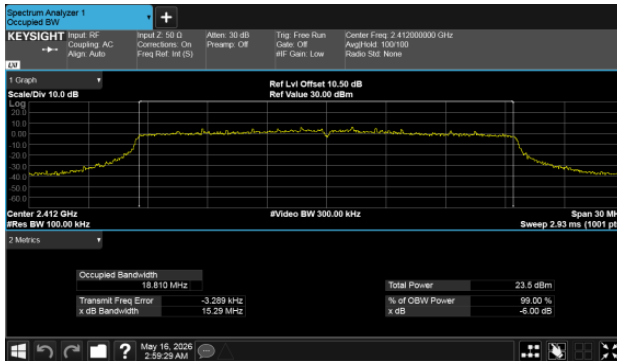


Modulation Type: 802.11g CH11





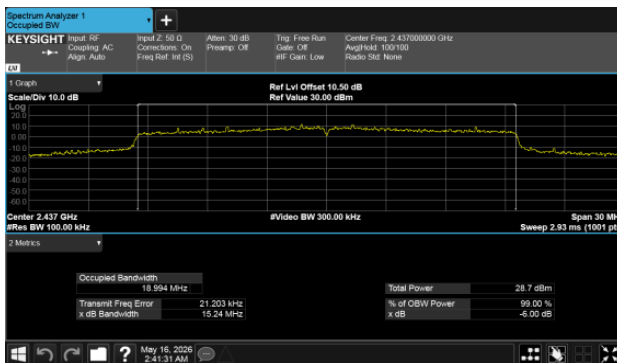
Modulation Type: 802.11ax HE20 CH01



Modulation Type: 802.11ax HE40 CH03



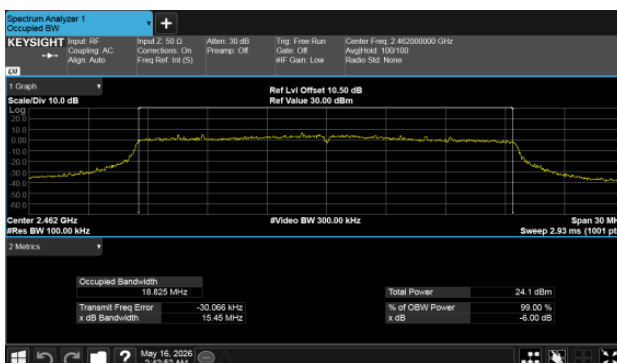
Modulation Type: 802.11ax HE20 CH06



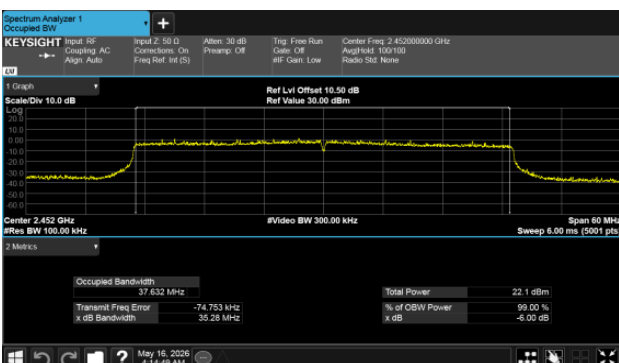
Modulation Type: 802.11ax HE40 CH06



Modulation Type: 802.11ax HE20 CH11



Modulation Type: 802.11ax HE40 CH09





10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

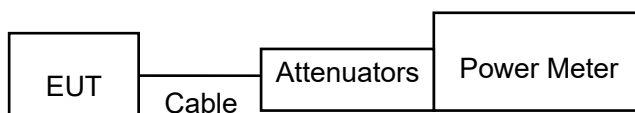
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

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

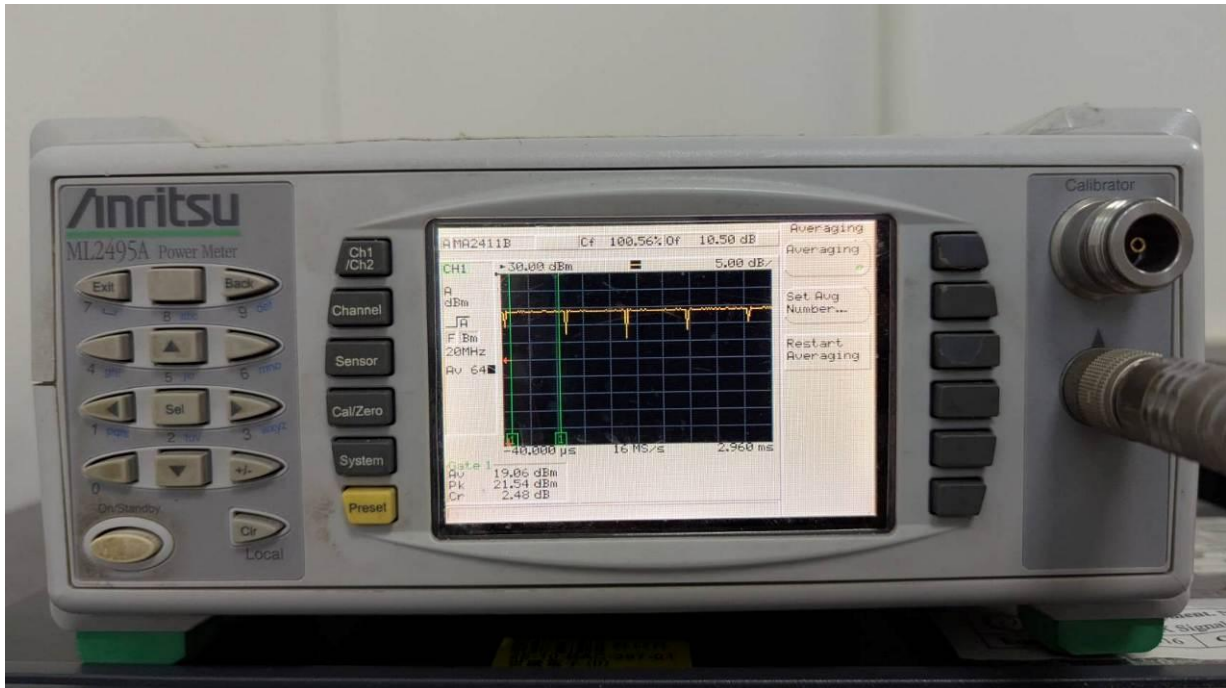


10.4 Test Result and Data

Data Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A			
1	20.5	11b	1	2412	19.06	19.06	80.538	30.00
	22		6	2437	22.58	22.58	181.134	30.00
	21.5		11	2462	20.24	20.24	105.682	30.00
6	18.5	11g	1	2412	17.57	17.57	57.148	30.00
	22		6	2437	22.29	22.29	169.434	30.00
	19		11	2462	17.95	17.95	62.373	30.00
NSS1-MCS0	18	11ax HE20	1	2412	16.92	16.92	49.204	30.00
	22		6	2437	22.14	22.14	163.682	30.00
	18.5		11	2462	17.42	17.42	55.208	30.00
NSS1-MCS0	14.5	11ax HE40	3	2422	13.61	13.61	22.961	30.00
	17		6	2437	16.53	16.53	44.978	30.00
	17.5		9	2452	16.06	16.06	40.365	30.00



Gate setup plot
Modulation Type: 802.11b

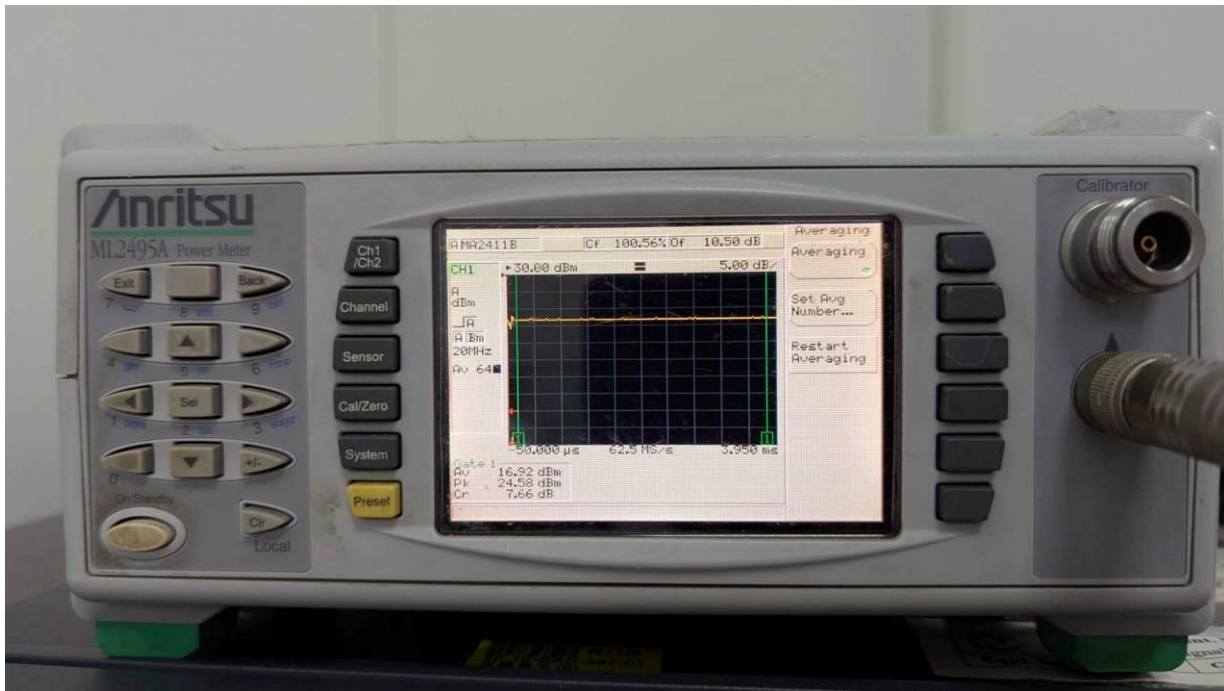


Modulation Type: 802.11g

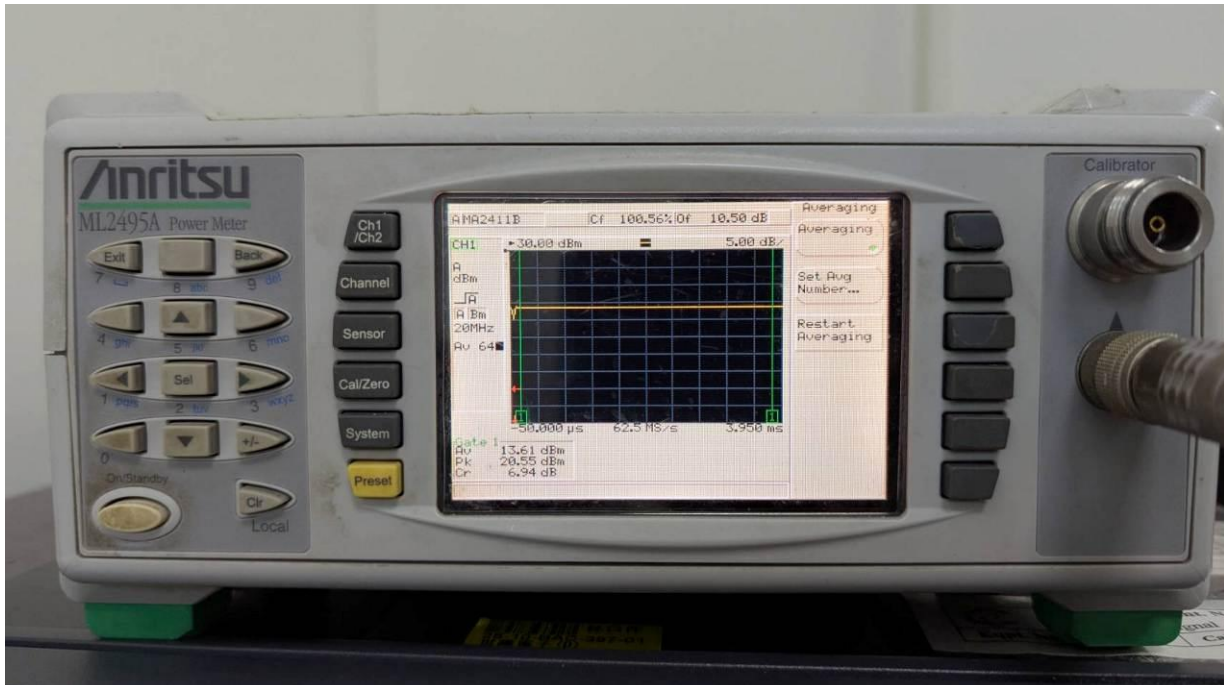




Gate setup plot
Modulation Type: 802.11ax HE20



Modulation Type: 802.11ax HE40





11. Power Spectral Density

11.1 Test Limit

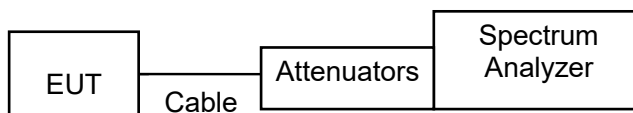
The Maximum of Power Spectral Density Measurement is 8dBm.

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



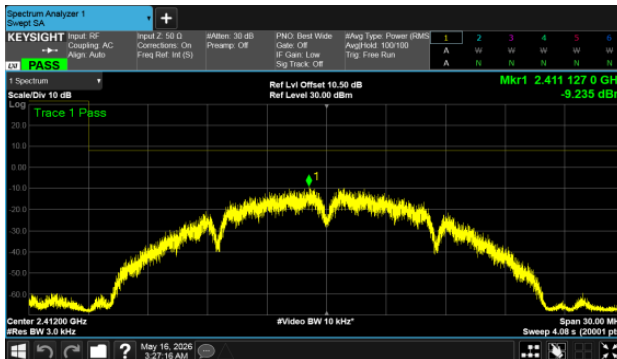
11.4 Test Result and Data

Modulation Type	CH	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	-9.235	-9.24	0.00	-9.24	8.00
	6	2437	-6.727	-6.73	0.00	-6.73	8.00
	11	2462	-7.863	-7.86	0.00	-7.86	8.00
11g	1	2412	-14.662	-14.66	0.00	-14.66	8.00
	6	2437	-9.824	-9.82	0.00	-9.82	8.00
	11	2462	-14.141	-14.14	0.00	-14.14	8.00
11ax HE20	1	2412	-18.322	-18.32	0.00	-18.32	8.00
	6	2437	-12.951	-12.95	0.00	-12.95	8.00
	11	2462	-17.651	-17.65	0.00	-17.65	8.00

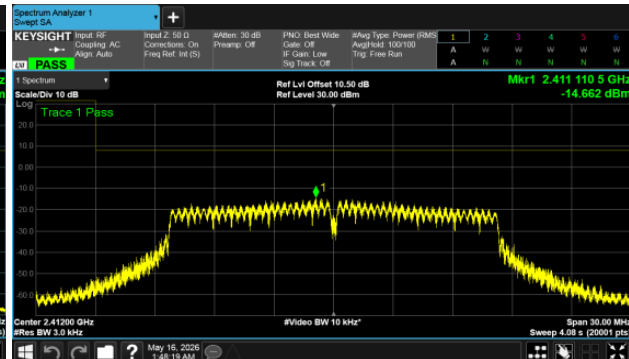
Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3kHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A				
11ax HE40	3	2422	-9.737	-9.74	0.00	-9.74	8.00
	6	2437	-6.485	-6.49	0.00	-6.49	8.00
	9	2452	-7.802	-7.80	0.00	-7.80	8.00



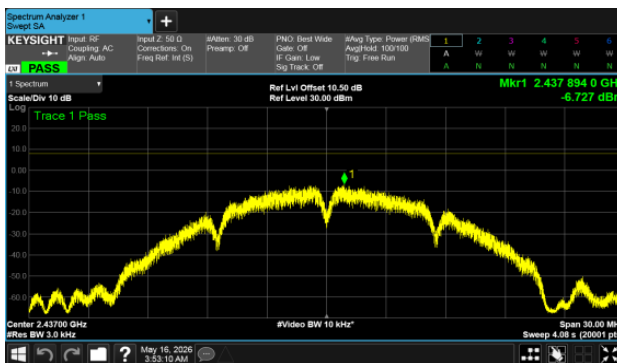
Modulation Type: 802.11b CH01



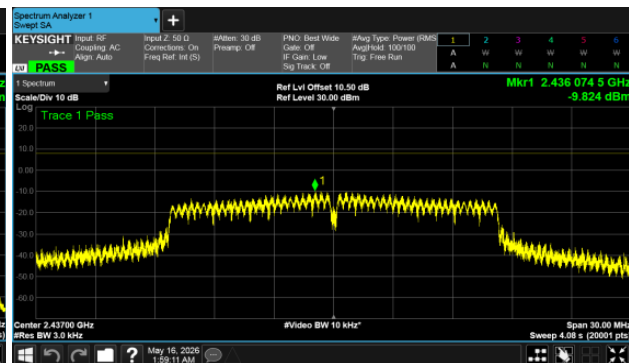
Modulation Type: 802.11g CH01



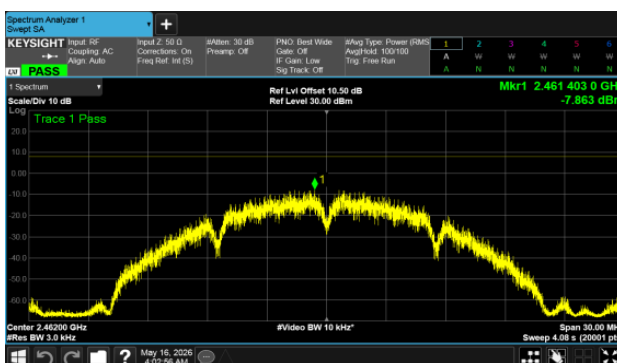
Modulation Type: 802.11b CH06



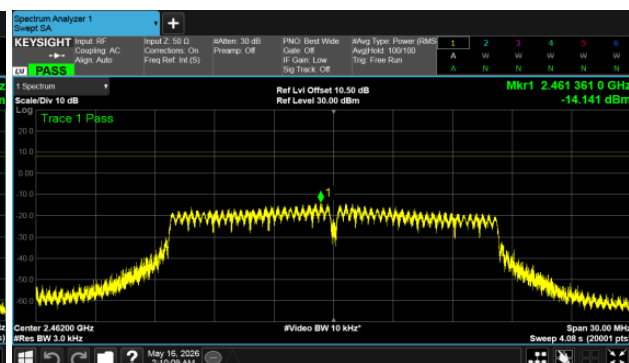
Modulation Type: 802.11g CH06



Modulation Type: 802.11b CH11

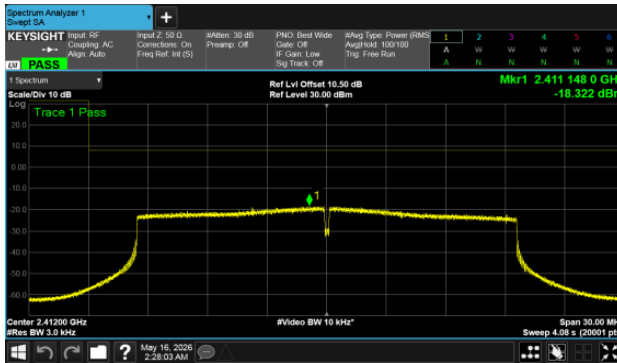


Modulation Type: 802.11g CH11

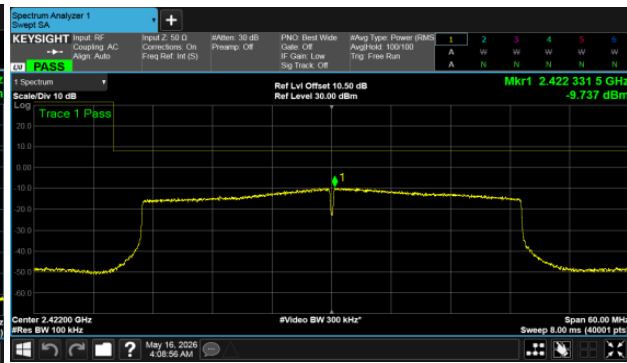




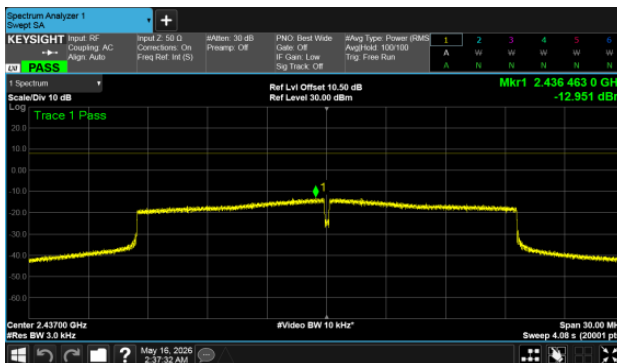
Modulation Type: 802.11ax HE20 CH01



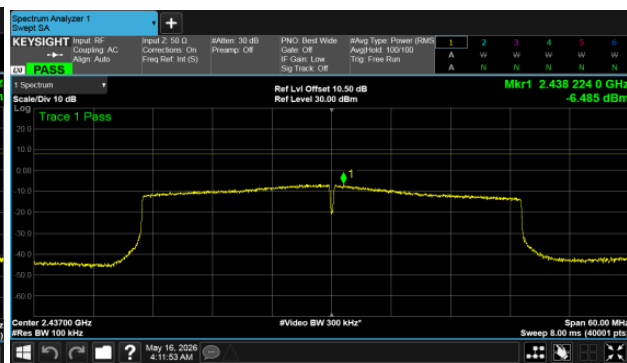
Modulation Type: 802.11ax HE40 CH03



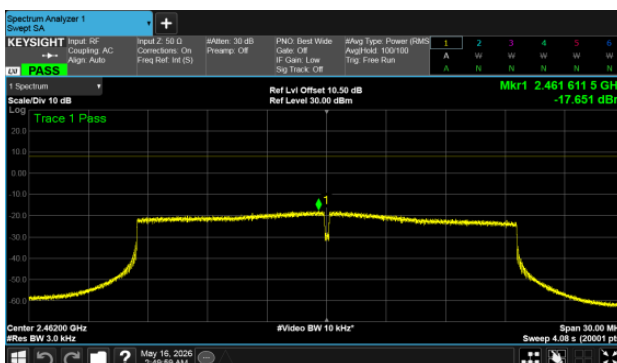
Modulation Type: 802.11ax HE20 CH06



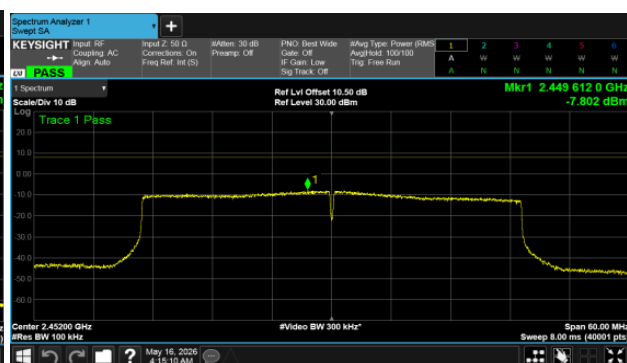
Modulation Type: 802.11ax HE40 CH06



Modulation Type: 802.11ax HE20 CH11



Modulation Type: 802.11ax HE40 CH09



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