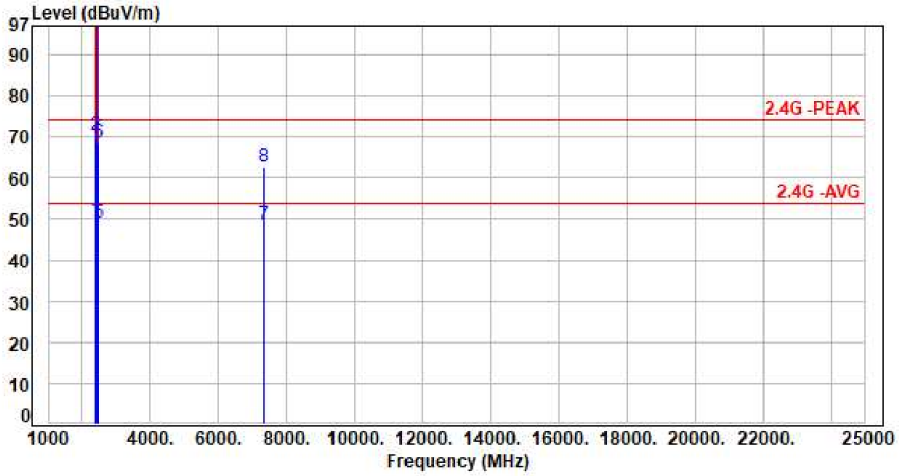
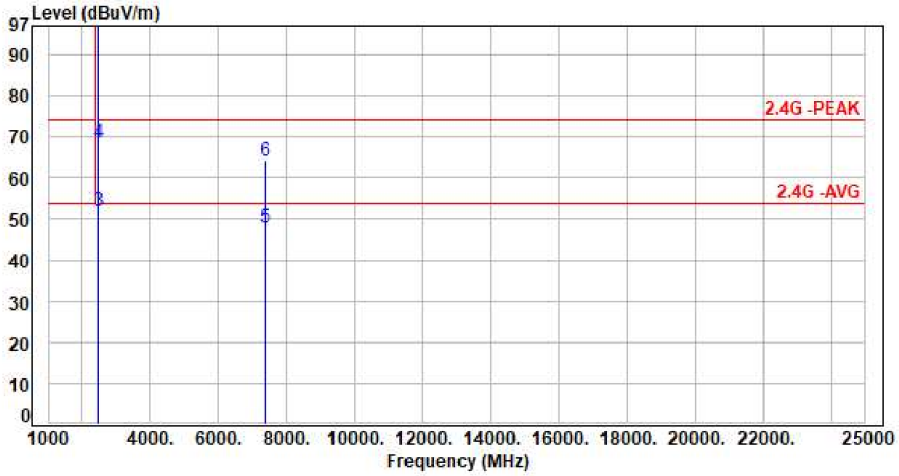
Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	-4.52	54.16	49.64	54.00	-4.36	Average	117	37	P
2	2390.00	-4.52	75.04	70.52	74.00	-3.48	Peak	117	37	P
3	2437.00	-4.71	104.50	99.79	200.00	-100.21	Average	117	37	P
4	2437.00	-4.71	117.18	112.47	200.00	-87.53	Peak	117	37	P
5	2483.50	-4.75	53.85	49.10	54.00	-4.90	Average	117	37	P
6	2483.50	-4.75	73.49	68.74	74.00	-5.26	Peak	117	37	P
7	7311.00	12.96	35.64	48.60	54.00	-5.40	Average	199	33	P
8	7311.00	12.96	49.59	62.55	74.00	-11.45	Peak	199	33	P

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

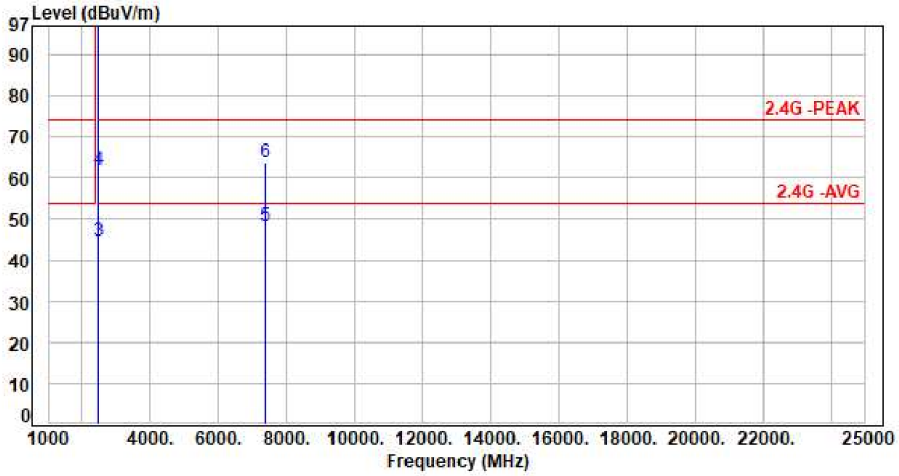
Test Mode : 2TX 11ax20 CH11 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	-4.70	102.42	97.72	200.00	-102.28	Average	363	95	P
2	2462.00	-4.70	116.18	111.48	200.00	-88.52	Peak	363	95	P
3	2483.50	-4.75	56.92	52.17	54.00	-1.83	Average	363	95	P
4	2483.50	-4.75	73.41	68.66	74.00	-5.34	Peak	363	95	P
5	7386.00	13.19	34.94	48.13	54.00	-5.87	Average	223	72	P
6	7386.00	13.19	51.16	64.35	74.00	-9.65	Peak	223	72	P

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

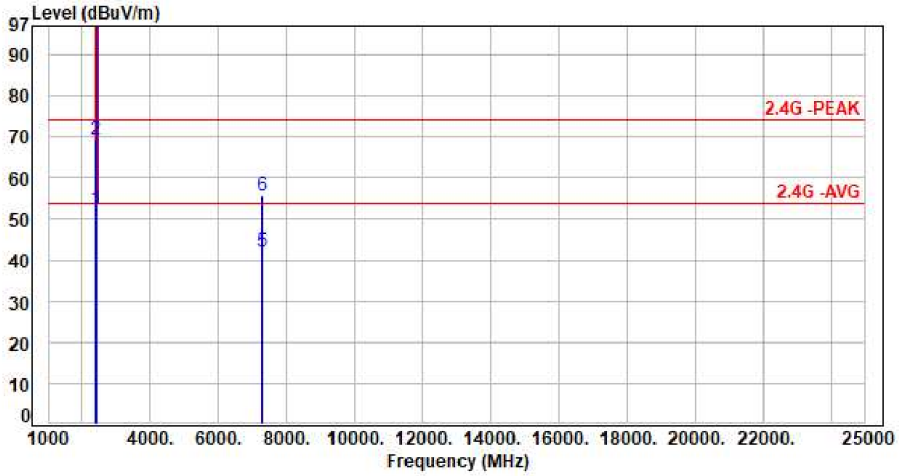
Test Mode : 2TX 11ax20 CH11 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	-4.70	101.67	96.97	200.00	-103.03	Average	114	33	P
2	2462.00	-4.70	114.67	109.97	200.00	-90.03	Peak	114	33	P
3	2483.50	-4.75	49.55	44.80	54.00	-9.20	Average	114	33	P
4	2483.50	-4.75	66.81	62.06	74.00	-11.94	Peak	114	33	P
5	7386.00	13.19	35.00	48.19	54.00	-5.81	Average	250	27	P
6	7386.00	13.19	50.78	63.97	74.00	-10.03	Peak	250	27	P

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

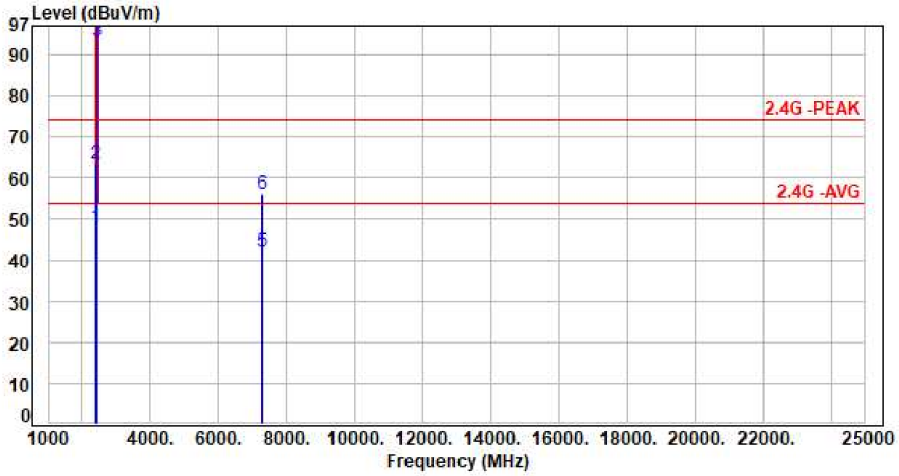
Test Mode : 2TX 11ax40 CH03 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	-4.52	56.84	52.32	54.00	-1.68	Average	209	121	P
2	2390.00	-4.52	73.87	69.35	74.00	-4.65	Peak	209	121	P
3	2422.00	-4.61	101.14	96.53	200.00	-103.47	Average	209	121	P
4	2422.00	-4.61	114.78	110.17	200.00	-89.83	Peak	209	121	P
5	7266.00	12.80	29.16	41.96	54.00	-12.04	Average	100	311	P
6	7266.00	12.80	42.93	55.73	74.00	-18.27	Peak	100	311	P

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

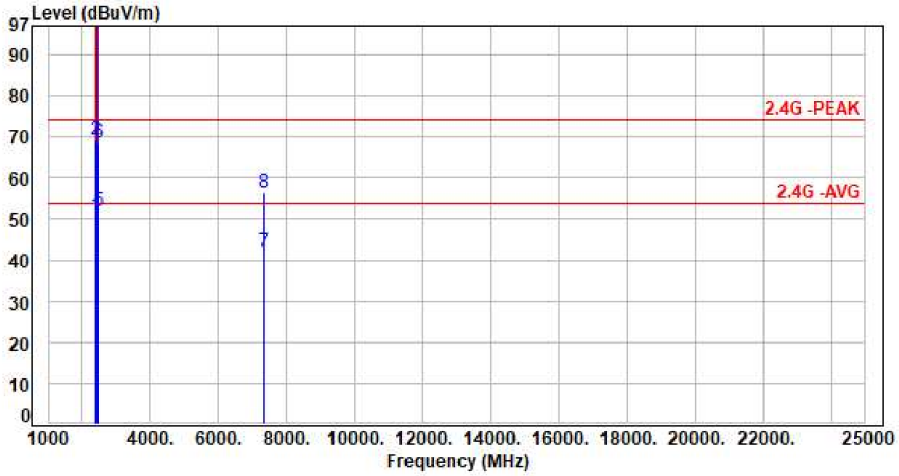
Test Mode : 2TX 11ax40 CH03 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	-4.52	52.44	47.92	54.00	-6.08	Average	118	34	P
2	2390.00	-4.52	67.97	63.45	74.00	-10.55	Peak	118	34	P
3	2422.00	-4.61	97.86	93.25	200.00	-106.75	Average	118	34	P
4	2422.00	-4.61	110.43	105.82	200.00	-94.18	Peak	118	34	P
5	7266.00	12.80	29.18	41.98	54.00	-12.02	Average	100	269	P
6	7266.00	12.80	43.39	56.19	74.00	-17.81	Peak	100	269	P

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

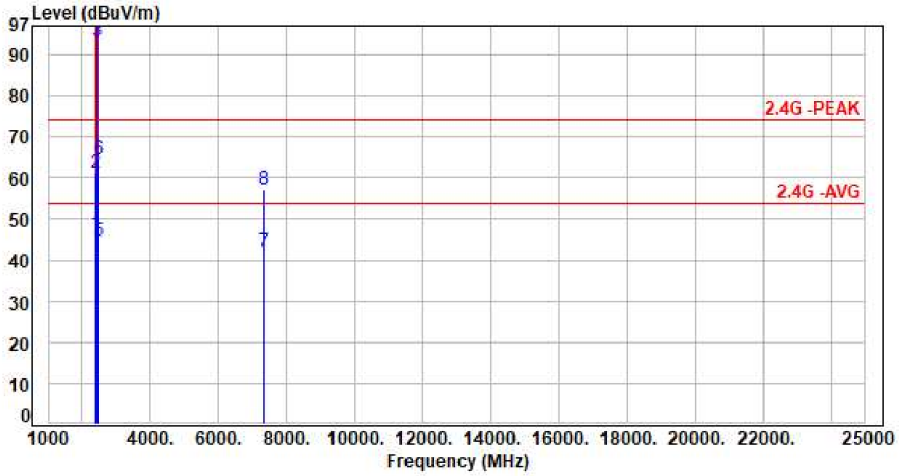
Test Mode : 2TX 11ax40 CH06 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	-4.52	55.37	50.85	54.00	-3.15	Average	371	103	P
2	2390.00	-4.52	73.86	69.34	74.00	-4.66	Peak	371	103	P
3	2437.00	-4.71	101.07	96.36	200.00	-103.64	Average	371	103	P
4	2437.00	-4.71	113.10	108.39	200.00	-91.61	Peak	371	103	P
5	2483.50	-4.75	56.74	51.99	54.00	-2.01	Average	371	103	P
6	2483.50	-4.75	73.47	68.72	74.00	-5.28	Peak	371	103	P
7	7311.00	12.96	29.25	42.21	54.00	-11.79	Average	100	154	P
8	7311.00	12.96	43.32	56.28	74.00	-17.72	Peak	100	154	P

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

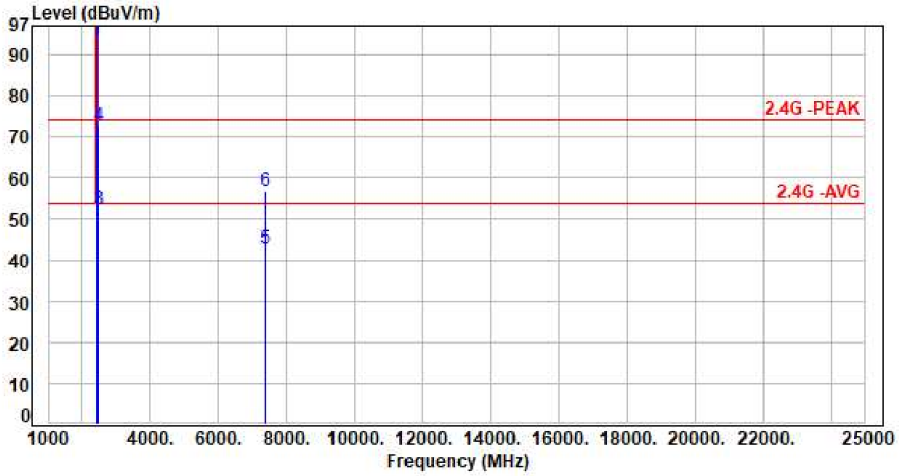
Test Mode : 2TX 11ax40 CH06 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	-4.52	51.02	46.50	54.00	-7.50	Average	147	32	P
2	2390.00	-4.52	65.65	61.13	74.00	-12.87	Peak	147	32	P
3	2437.00	-4.71	98.15	93.44	200.00	-106.56	Average	147	32	P
4	2437.00	-4.71	110.69	105.98	200.00	-94.02	Peak	147	32	P
5	2483.50	-4.75	49.48	44.73	54.00	-9.27	Average	147	32	P
6	2483.50	-4.75	69.31	64.56	74.00	-9.44	Peak	147	32	P
7	7311.00	12.96	29.21	42.17	54.00	-11.83	Average	100	225	P
8	7311.00	12.96	44.28	57.24	74.00	-16.76	Peak	100	225	P

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

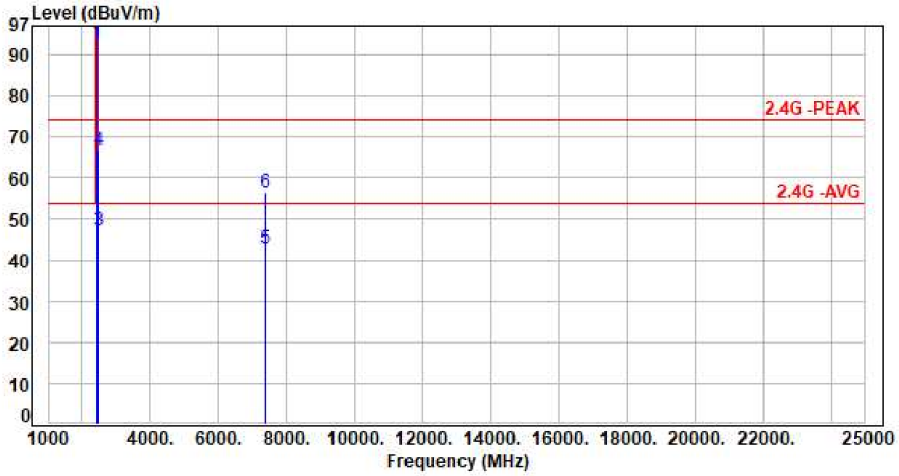
Test Mode : 2TX 11ax40 CH09 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	-4.76	98.59	93.83	200.00	-106.17	Average	370	121	P
2	2452.00	-4.76	111.32	106.56	200.00	-93.44	Peak	370	121	P
3	2483.50	-4.75	57.23	52.48	54.00	-1.52	Average	370	121	P
4	2483.50	-4.75	77.36	72.61	74.00	-1.39	Peak	370	121	P
5	7356.00	13.16	29.49	42.65	54.00	-11.35	Average	100	154	P
6	7356.00	13.16	43.51	56.67	74.00	-17.33	Peak	100	154	P

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

Test Mode : 2TX 11ax40 CH09 NSS1 MCS0
Voltage : From POE(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	-4.76	97.84	93.08	200.00	-106.92	Average	136	36	P
2	2452.00	-4.76	110.05	105.29	200.00	-94.71	Peak	136	36	P
3	2483.50	-4.75	51.99	47.24	54.00	-6.76	Average	136	36	P
4	2483.50	-4.75	71.40	66.65	74.00	-7.35	Peak	136	36	P
5	7356.00	13.16	29.53	42.69	54.00	-11.31	Average	100	244	P
6	7356.00	13.16	43.41	56.57	74.00	-17.43	Peak	100	244	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

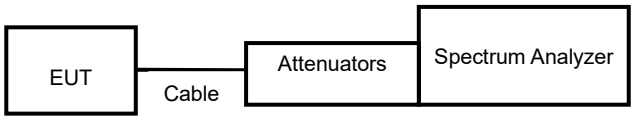
According to the methods defined in ANSI C63.10-2013 Section 11.11.1
Below –30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

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

a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
b. 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.
c. 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.
d. The band edges was measured and recorded.

7.3 Test Setup Layout

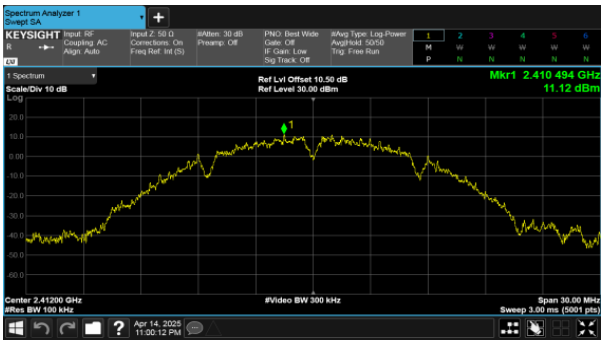


7.4 Test Result and Data

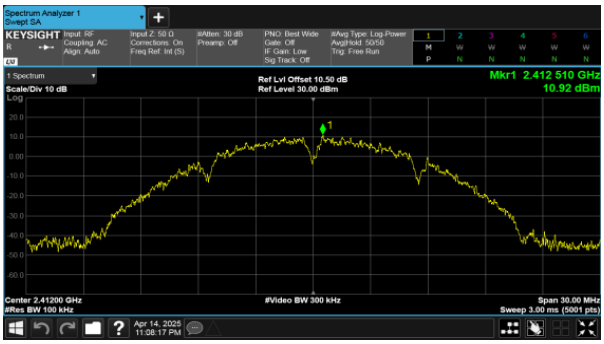
Note: Test plots refers to the following pages.

Modulation Type: 802.11b, CH01

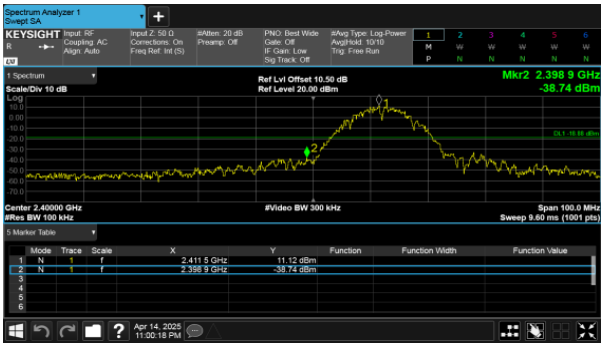
Ant 1



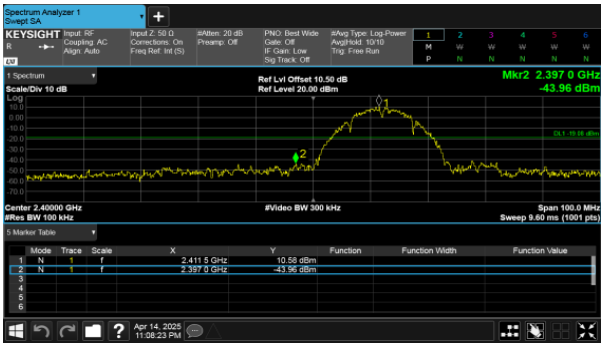
Ant 2



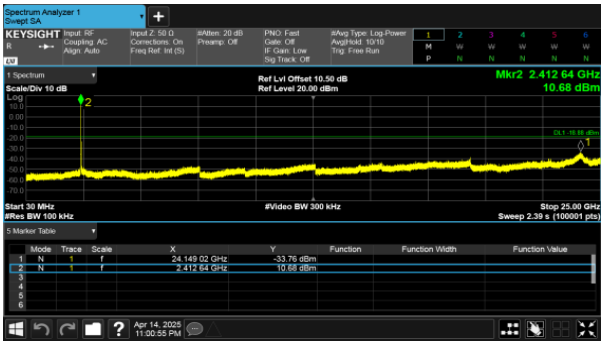
Ant 1



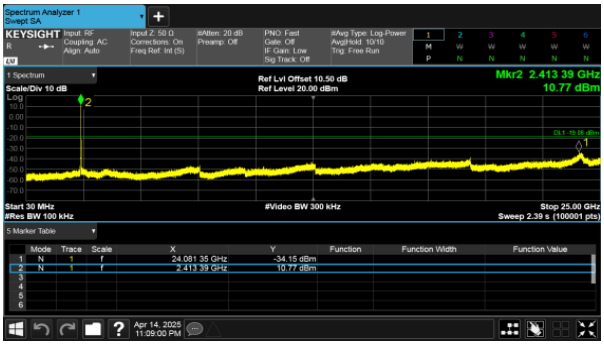
Ant 2



Ant 1

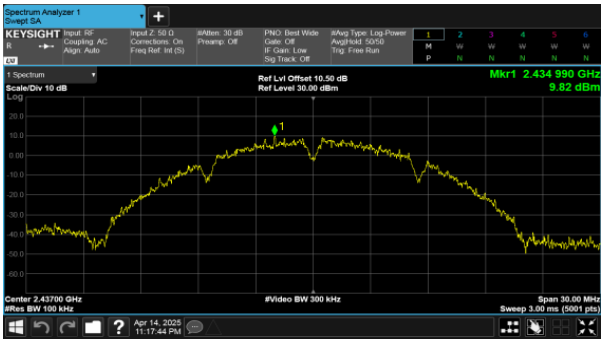


Ant 2

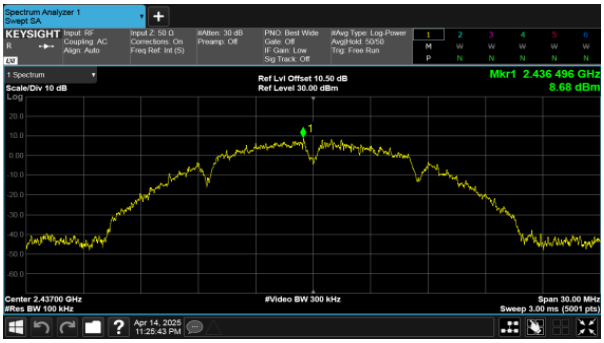


Modulation Type: 802.11b, CH06

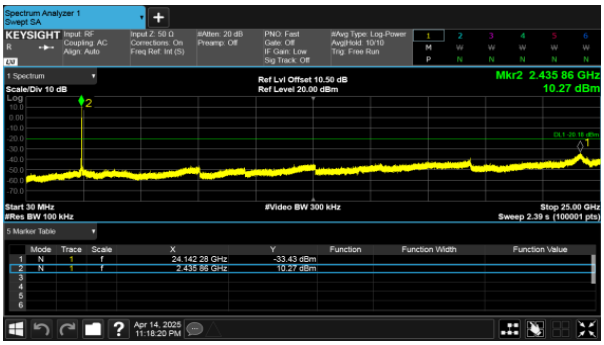
Ant 1



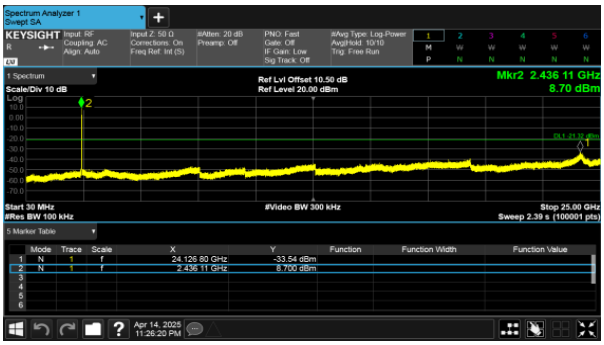
Ant 2



Ant 1

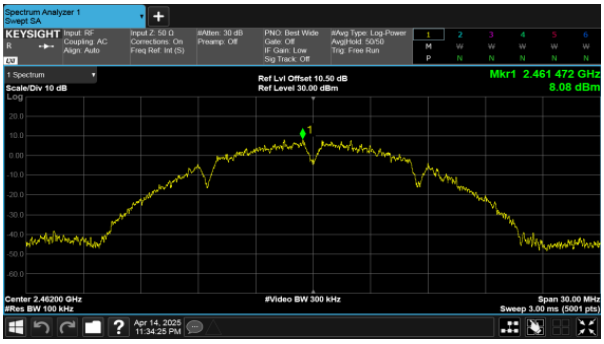


Ant 2

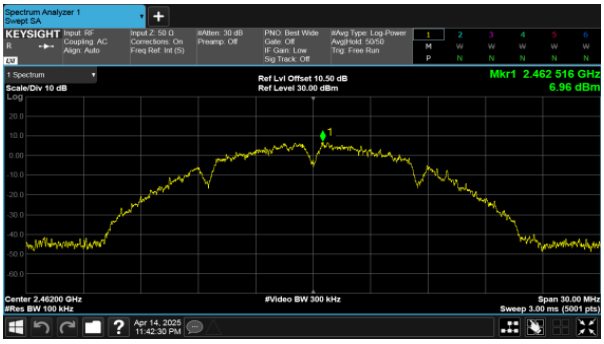


Modulation Type: 802.11b, CH11

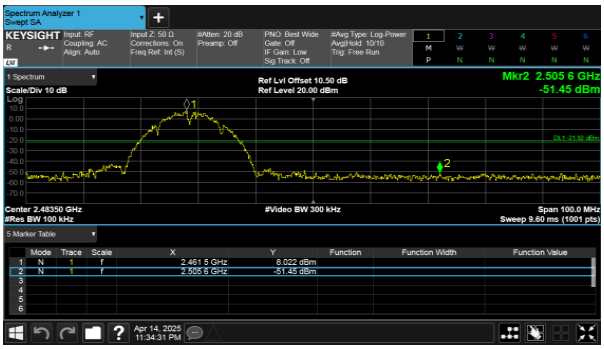
Ant 1



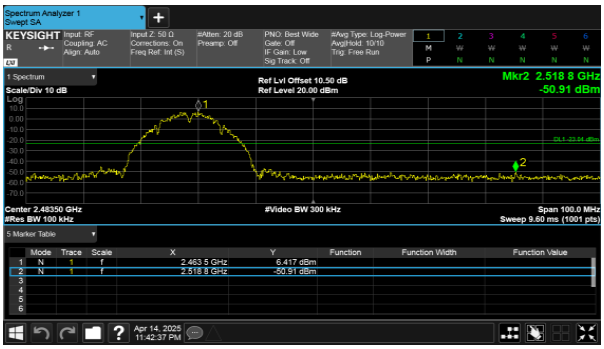
Ant 2



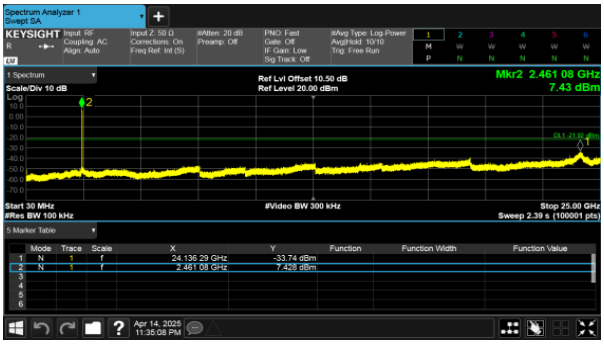
Ant 1



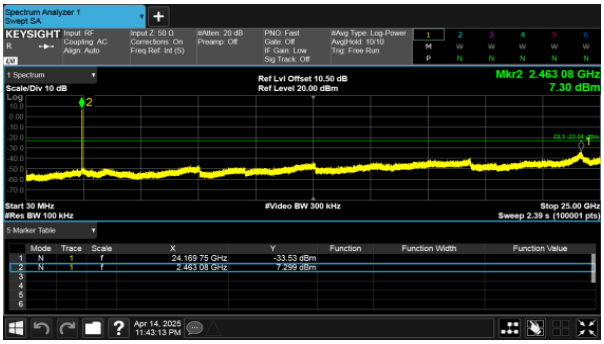
Ant 2



Ant 1

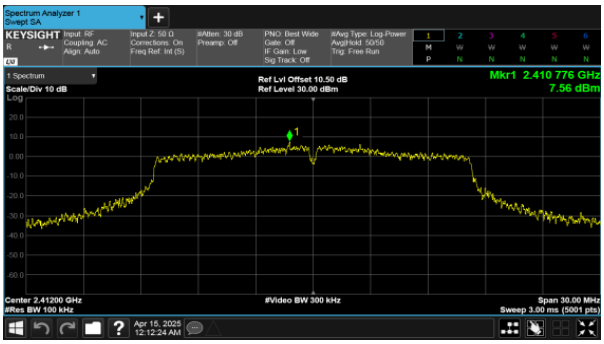


Ant 2

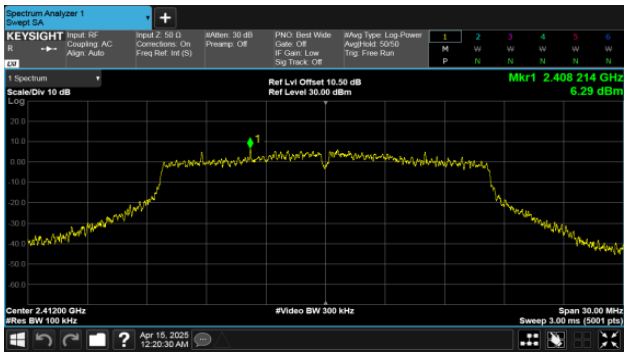


Modulation Type: 802.11g, CH01

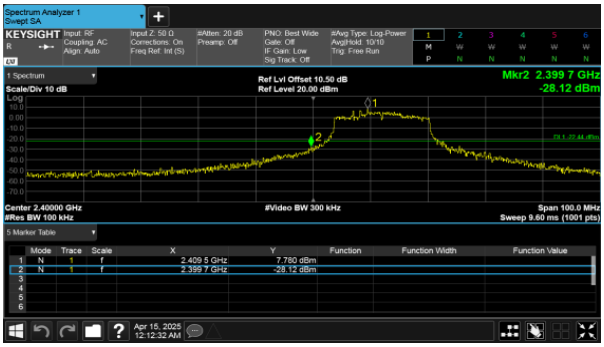
Ant 1



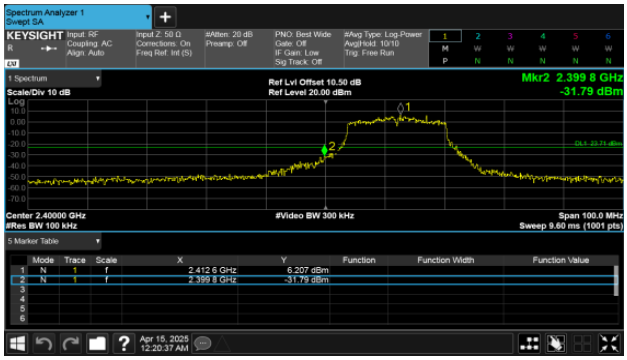
Ant 2



Ant 1



Ant 2

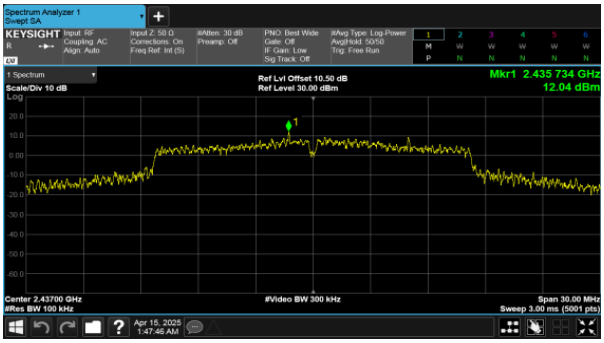


Ant 1

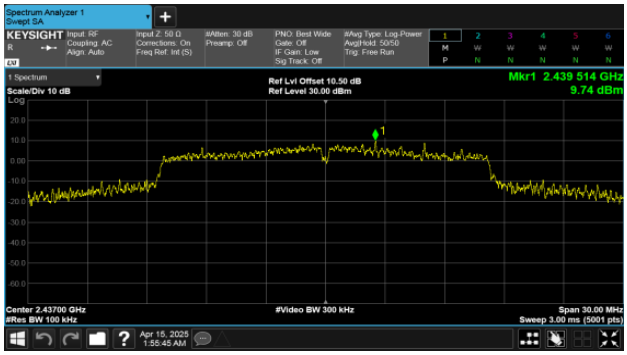
Ant 2

Modulation Type: 802.11g, CH06

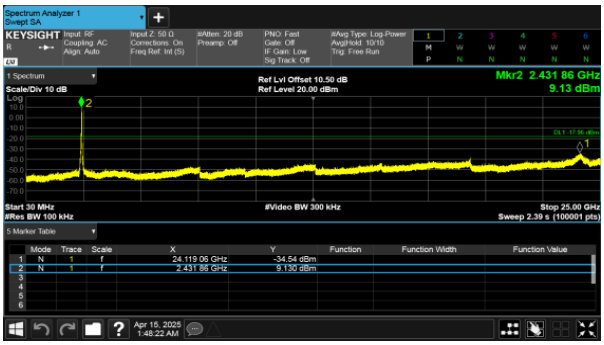
Ant 1



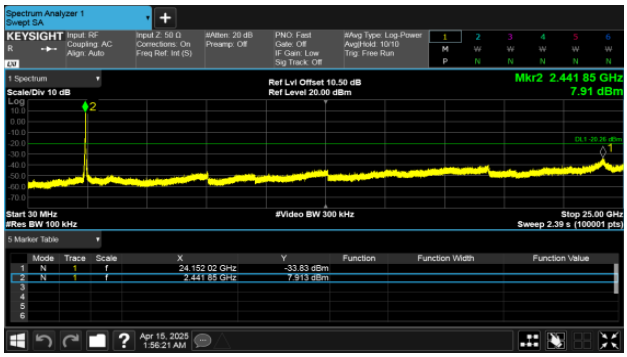
Ant 2



Ant 1

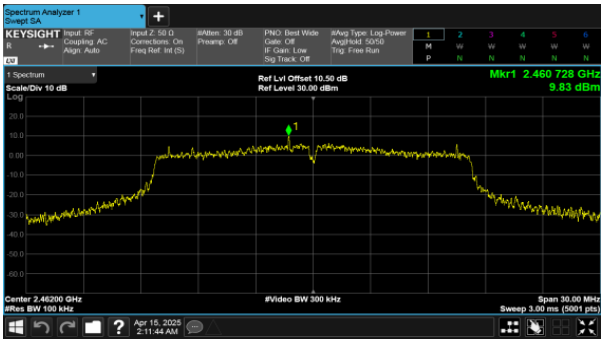


Ant 2

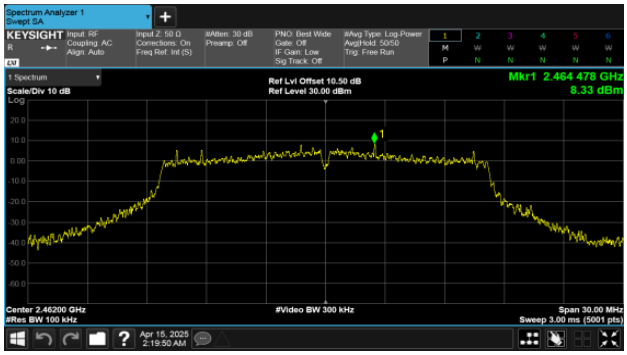


Modulation Type: 802.11g, CH11

Ant 1

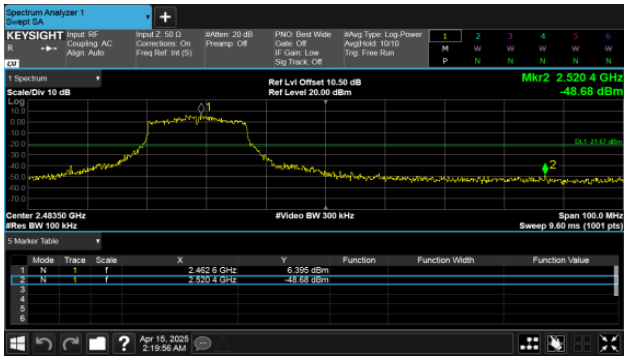


Ant 2

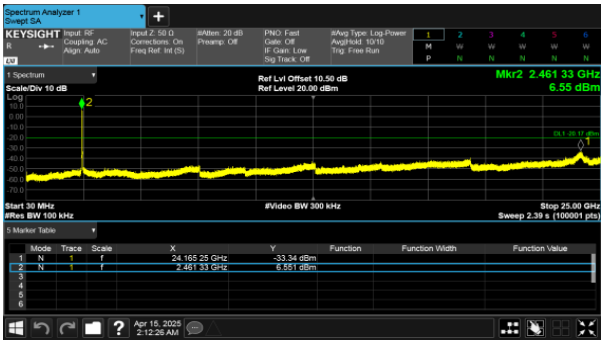


Ant 1

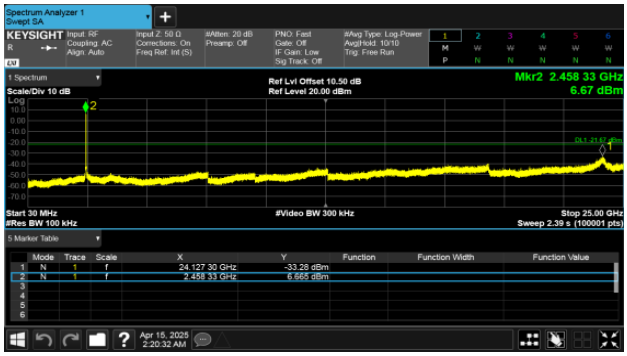
Ant 2



Ant 1

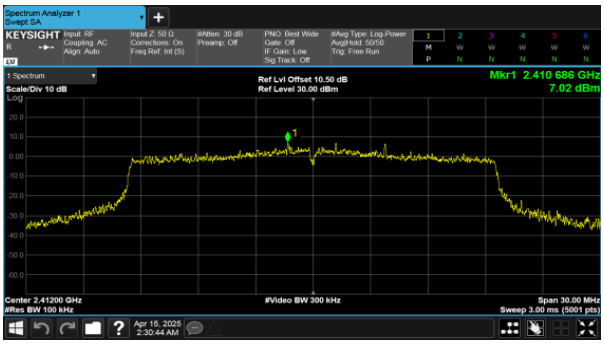


Ant 2

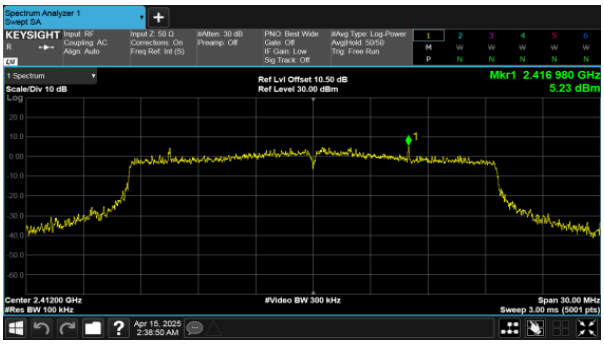


Modulation Type: 802.11ax HE20, CH01

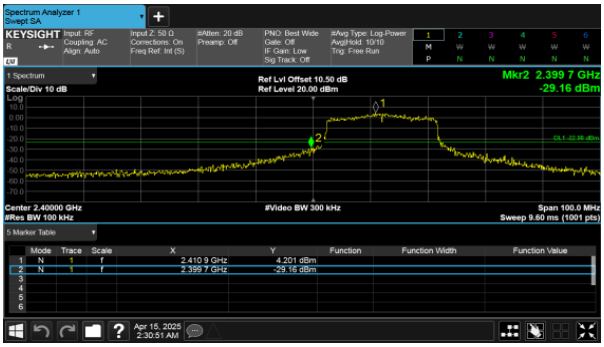
Ant 1



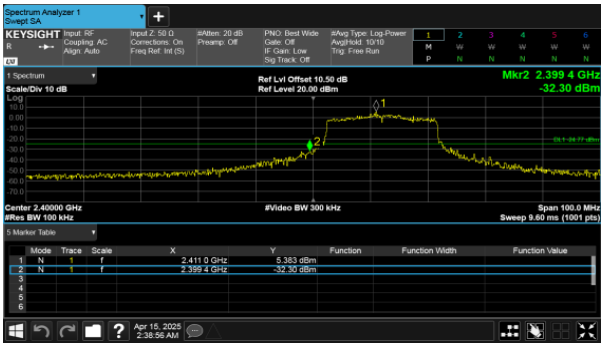
Ant 2



Ant 1

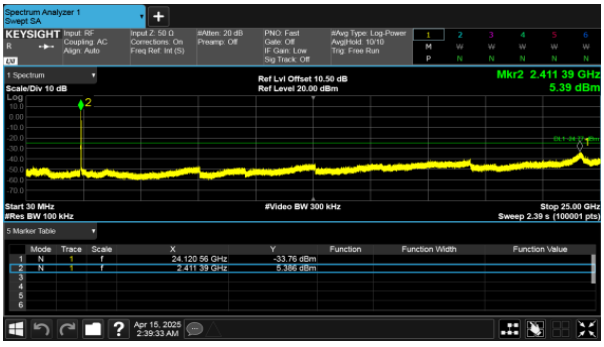


Ant 2



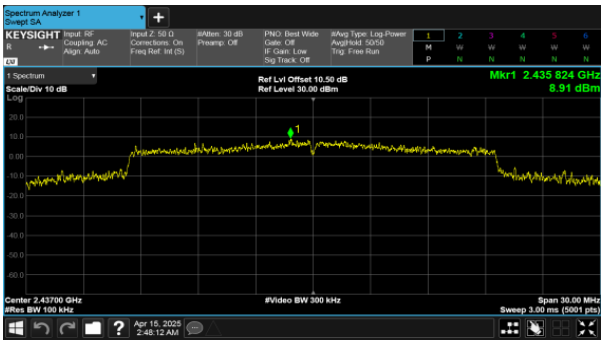
Ant 1

Ant 2

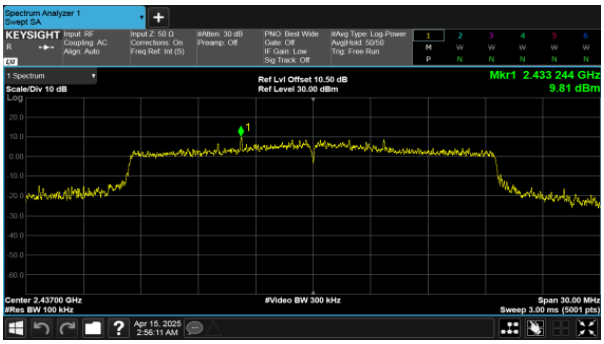


Modulation Type: 802.11ax HE20, CH06

Ant 1



Ant 2

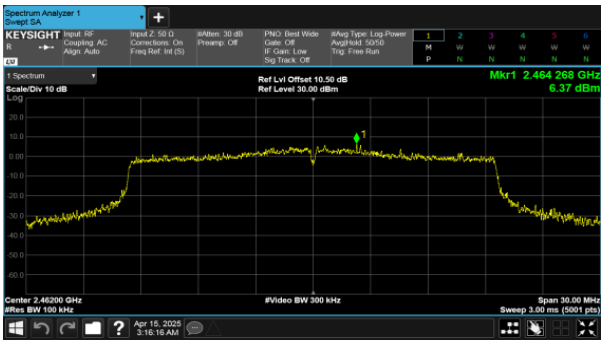


Ant 1

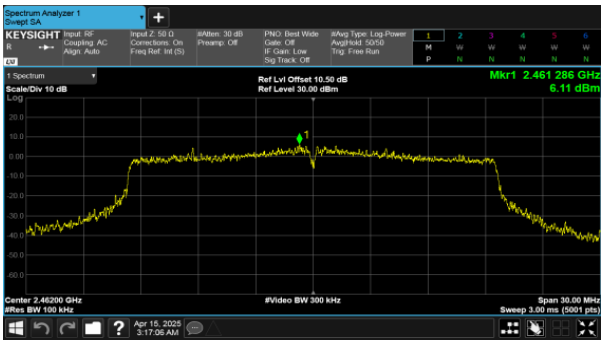
Ant 2

Modulation Type: 802.11ax HE20, CH11

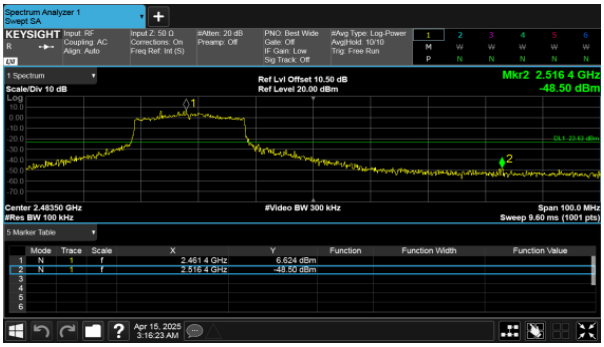
Ant 1



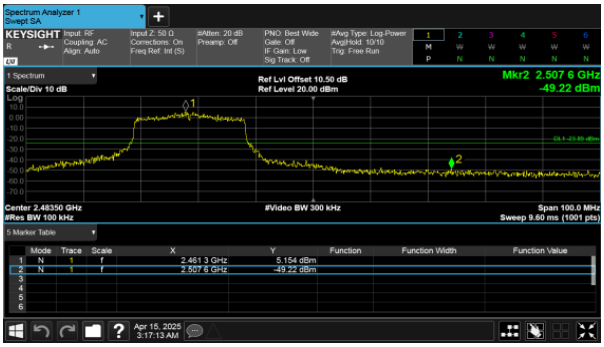
Ant 2



Ant 1



Ant 2

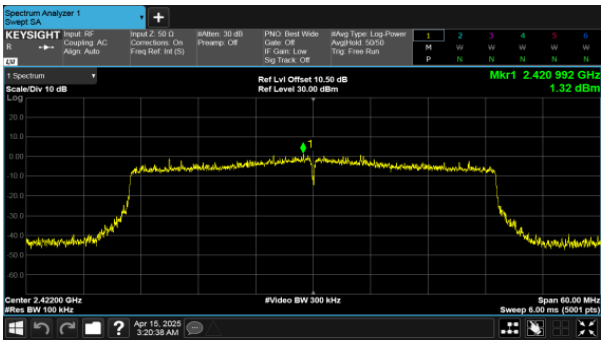


Ant 1

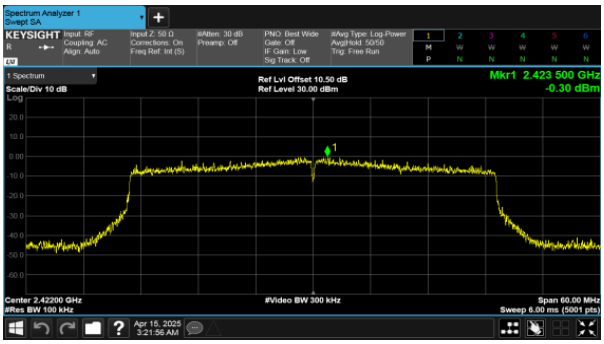
Ant 2

Modulation Type: 802.11ax HE40, CH03

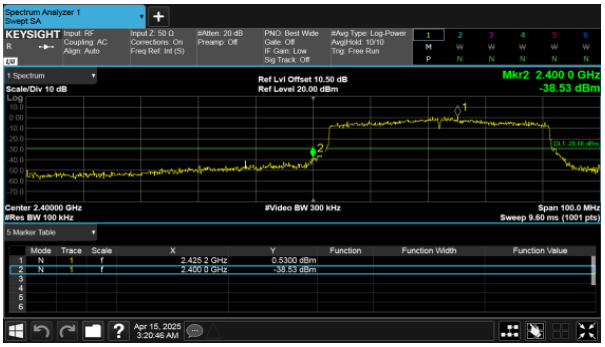
Ant 1



Ant 2



Ant 1



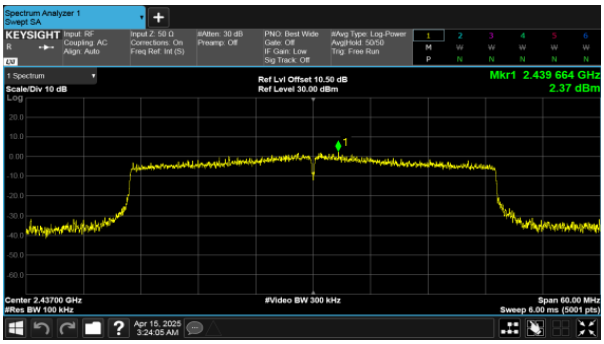
Ant 2

Ant 1

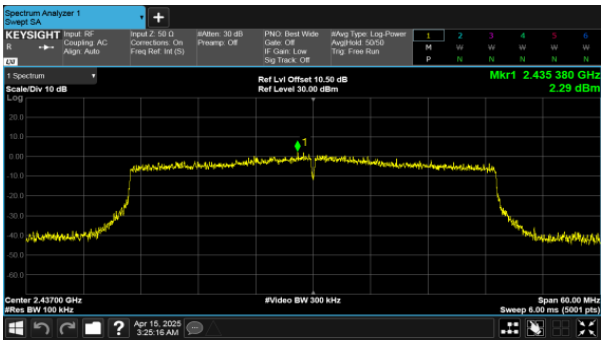
Ant 2

Modulation Type: 802.11ax HE40, CH06

Ant 1



Ant 2

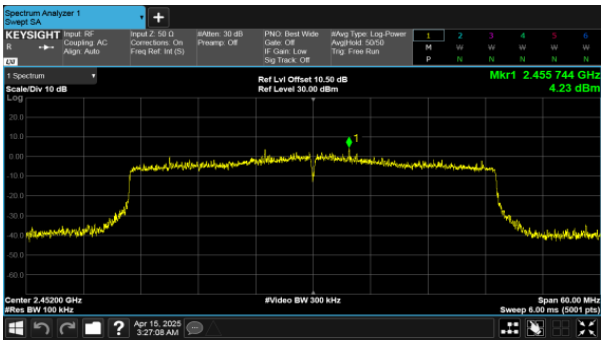


Ant 1

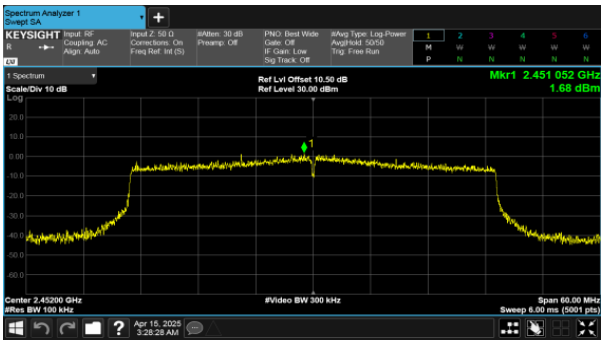
Ant 2

Modulation Type: 802.11ax HE40, CH09

Ant 1

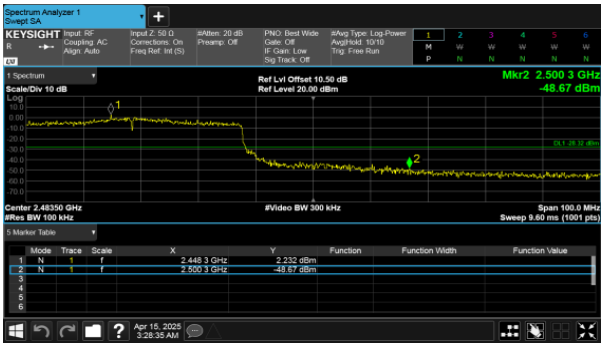


Ant 2



Ant 1

Ant 2



Ant 1

Ant 2

8. On Time, Duty Cycle and Measurement methods

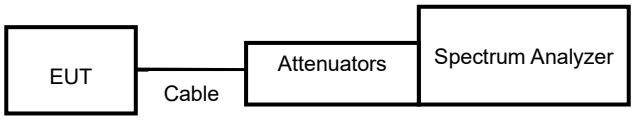
8.1 Test Limit

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

Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
11b,1M	0.69	1.10	63.33%
11g,6M	1.98	2.13	93.14%
11ax HE20	5.46	5.93	92.04%
11ax HE40	5.46	5.89	92.60%