Mode: IEEE 802.11n HT20
Lowest Frequency (2412MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.6	73.84	53.74	-20.10	74.00	20.26	200	173	Horizontal
2	2700	63.72	45.36	-18.36	74.00	28.64	200	264	Horizontal
3	7972.5	49.89	48.91	-0.98	74.00	25.09	200	117	Horizontal
4	9858	47.53	51.93	4.40	74.00	22.07	100	138	Horizontal
5	13440	43.61	51.07	7.46	74.00	22.93	200	238	Horizontal
6	17542.5	44.57	51.77	7.20	74.00	22.23	100	138	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.6	-20.10	67.45	47.35	54.00	6.65	200	173	Horizontal
2	7972.5	-0.98	41.87	40.89	54.00	13.11	200	117	Horizontal
3	9858	4.40	38.75	43.15	54.00	10.85	100	138	Horizontal
4	13440	7.46	34.14	41.60	54.00	12.40	200	238	Horizontal
5	17542.5	7.20	37.38	44.58	54.00	9.42	100	138	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.4	86.41	67.57	-18.84	74.00	6.43	100	36	Vertical
2	2523.2	68.24	48.76	-19.48	74.00	25.24	200	78	Vertical
3	9786	47.16	51.55	4.39	74.00	22.45	200	106	Vertical
4	10425	47.92	50.88	2.96	74.00	23.12	200	87	Vertical
5	13864.5	43.52	51.48	7.96	74.00	22.52	100	220	Vertical
6	17542.5	44.06	52.28	8.22	74.00	21.72	100	90	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.4	-18.84	62.67	43.83	54.00	10.17	100	36	Vertical
2	2523.2	-19.48	65.5	46.02	54.00	7.98	200	78	Vertical
3	9786	4.39	45.23	49.62	54.00	4.38	200	106	Vertical
4	10425	2.96	41.27	44.23	54.00	9.77	200	87	Vertical
5	13864.5	7.96	38.26	46.22	54.00	7.78	100	220	Vertical
6	17542.5	8.22	36.74	44.96	54.00	9.04	100	90	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (2437MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.4	65.69	45.59	-20.10	74.00	28.41	100	130	Horizontal
2	2497.8	63.88	45.19	-18.69	74.00	28.81	100	140	Horizontal
3	2700	63.52	45.16	-18.36	74.00	28.84	200	275	Horizontal
4	9696	48.95	52.08	3.13	74.00	21.92	200	67	Horizontal
5	15012	45.02	51.78	6.76	74.00	22.22	200	353	Horizontal
6	17505	43.98	51.50	7.52	74.00	22.50	200	171	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9696	3.13	43.57	46.70	54.00	7.30	200	67	Horizontal
2	15012	6.76	38.75	45.51	54.00	8.49	200	353	Horizontal
3	17505	7.52	34.68	42.20	54.00	11.80	200	171	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.4	76.31	57.45	-18.86	74.00	16.55	100	335	Vertical
2	2499.4	74.16	54.61	-19.55	74.00	19.39	200	72	Vertical
3	9361.5	49.29	51.53	2.24	74.00	22.47	100	27	Vertical
4	9760.5	48.94	53.19	4.25	74.00	20.81	200	289	Vertical
5	13861.5	42.80	50.75	7.95	74.00	23.25	100	219	Vertical
6	17541	43.96	52.19	8.23	74.00	21.81	200	168	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.4	-18.86	62.48	43.62	54.00	10.38	100	335	Vertical
2	2499.4	-19.55	59.35	39.80	54.00	14.20	200	72	Vertical
3	9361.5	2.24	43.27	45.51	54.00	8.49	100	27	Vertical
4	9760.5	4.25	42.33	46.58	54.00	7.42	200	289	Vertical
5	13861.5	7.95	37.68	45.63	54.00	8.37	100	219	Vertical
6	17541	8.23	35.45	43.68	54.00	10.32	200	168	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (2462MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2505.2	69.07	50.43	-18.64	74.00	23.57	100	142	Horizontal
2	2700.4	64.00	45.65	-18.35	74.00	28.35	200	273	Horizontal
3	9817.5	47.43	51.78	4.35	74.00	22.22	100	38	Horizontal
4	12279	45.88	50.14	4.26	74.00	23.86	200	87	Horizontal
5	14437.5	43.44	51.09	7.65	74.00	22.91	200	158	Horizontal
6	17490	43.52	51.05	7.53	74.00	22.95	200	269	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2505.2	-18.64	61.35	42.71	54.00	11.29	100	142	Horizontal
2	9817.5	4.35	41.68	46.03	54.00	7.97	100	38	Horizontal
3	12279	4.26	38.26	42.52	54.00	11.48	200	87	Horizontal
4	14437.5	7.65	36.84	44.49	54.00	9.51	200	158	Horizontal
5	17490	7.53	35.18	42.71	54.00	11.29	200	269	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.6	67.36	48.61	-18.75	74.00	25.39	200	69	Vertical
2	2495.8	80.31	60.75	-19.56	74.00	13.25	200	69	Vertical
3	8400	49.25	49.38	0.13	74.00	24.62	200	301	Vertical
4	9862.5	47.33	51.28	3.95	74.00	22.72	200	158	Vertical
5	13861.5	42.72	50.67	7.95	74.00	23.33	100	270	Vertical
6	17491.5	43.12	51.71	8.59	74.00	22.29	200	253	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.6	-18.75	62.34	43.59	54.00	10.41	200	69	Vertical
2	2495.8	-19.56	59.46	39.90	54.00	14.10	200	69	Vertical
3	8400	0.13	46.35	46.48	54.00	7.52	200	301	Vertical
4	9862.5	3.95	41.26	45.21	54.00	8.79	200	158	Vertical
5	13861.5	7.95	36.15	44.10	54.00	9.90	100	270	Vertical
6	17491.5	8.59	33.98	42.57	54.00	11.43	200	253	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.6	70.20	50.07	-20.13	74.00	23.93	100	140	Horizontal
2	2700.4	64.00	45.65	-18.35	74.00	28.35	200	274	Horizontal
3	3150	58.47	42.34	-16.13	74.00	31.66	200	288	Horizontal
4	9762	47.70	51.53	3.83	74.00	22.47	100	217	Horizontal
5	13855.5	43.86	51.53	7.67	74.00	22.47	200	339	Horizontal
6	17541	44.28	51.50	7.22	74.00	22.50	100	267	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.6	-20.13	61.31	41.18	54.00	12.82	100	140	Horizontal
2	9761.58	3.83	36.41	40.24	54.00	13.76	100	244.2	Horizontal
3	13859.1125	7.67	32.49	40.16	54.00	13.84	200	147.7	Horizontal
4	17546.835	7.22	33.13	40.35	54.00	13.65	141	261.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.4	79.90	61.15	-18.75	74.00	12.85	100	345	Vertical
2	2499.8	69.00	49.45	-19.55	74.00	24.55	100	48	Vertical
3	4845	56.08	43.32	-12.76	74.00	30.68	100	135	Vertical
4	9306	49.95	51.89	1.94	74.00	22.11	100	318	Vertical
5	10999.5	47.35	51.74	4.39	74.00	22.26	200	190	Vertical
6	17512.5	44.93	53.46	8.53	74.00	20.54	100	286	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.4	-18.75	62.64	43.89	54.00	10.11	100	345	Vertical
2	2499.8	-19.55	58.37	38.82	54.00	15.18	100	48	Vertical
3	9306	1.94	42.31	44.25	54.00	9.75	100	318	Vertical
4	10999.5	4.39	37.68	42.07	54.00	11.93	200	190	Vertical
5	17512.5	8.53	34.15	42.68	54.00	11.32	100	286	Vertical

Mode: IEEE 802.11n HT40
Middle Frequency (2437MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2495.8	62.09	43.36	-18.73	74.00	30.64	100	143	Horizontal
2	2700.2	63.20	44.84	-18.36	74.00	29.16	200	294	Horizontal
3	9217.5	47.72	50.33	2.61	74.00	23.67	100	300	Horizontal
4	9783	47.56	51.63	4.07	74.00	22.37	100	188	Horizontal
5	13866	42.91	50.54	7.63	74.00	23.46	100	148	Horizontal
6	17505	43.59	51.11	7.52	74.00	22.89	100	249	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9217.5	2.61	41.26	43.87	54.00	10.13	100	300	Horizontal
2	9783	4.07	38.34	42.41	54.00	11.59	100	188	Horizontal
3	13866	7.63	34.61	42.24	54.00	11.76	100	148	Horizontal
4	17505	7.52	37.18	44.70	54.00	9.30	100	249	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.6	75.17	56.30	-18.87	74.00	17.70	200	69	Vertical
2	2496.2	73.21	53.65	-19.56	74.00	20.35	100	58	Vertical
3	8164.5	49.53	49.52	-0.01	74.00	24.48	200	35	Vertical
4	9769.5	47.10	51.40	4.30	74.00	22.60	200	352	Vertical
5	13858.5	43.48	51.43	7.95	74.00	22.57	100	27	Vertical
6	17500.5	43.16	51.81	8.65	74.00	22.19	200	156	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.6	-18.87	61.73	42.86	54.00	11.14	200	69	Vertical
2	2496.2	-19.56	58.47	38.91	54.00	15.09	100	58	Vertical
3	8164.5	-0.01	42.38	42.37	54.00	11.63	200	35	Vertical
4	9769.5	4.30	41.65	45.95	54.00	8.05	200	352	Vertical
5	13858.5	7.95	36.38	44.33	54.00	9.67	100	27	Vertical
6	17500.5	8.65	32.54	41.19	54.00	12.81	200	156	Vertical

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2501.6	65.26	46.62	-18.64	74.00	27.38	100	140	Horizontal
2	9771	47.12	51.05	3.93	74.00	22.95	100	139	Horizontal
3	11373	46.25	49.57	3.32	74.00	24.43	200	151	Horizontal
4	13590	43.95	51.09	7.14	74.00	22.91	100	320	Horizontal
5	14511	43.13	51.11	7.98	74.00	22.89	100	247	Horizontal
6	17515.5	43.77	51.20	7.43	74.00	22.80	100	158	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9771	3.93	38.65	42.58	54.00	11.42	100	139	Horizontal
2	11373	3.32	36.04	39.36	54.00	14.64	200	151	Horizontal
3	13590	7.14	35.63	42.77	54.00	11.23	100	320	Horizontal
4	14511	7.98	36.56	44.54	54.00	9.46	100	247	Horizontal
5	17515.5	7.43	35.17	42.60	54.00	11.40	100	158	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375	68.38	49.59	-18.79	74.00	24.41	200	68	Vertical
2	2495.2	79.73	60.17	-19.56	74.00	13.83	200	78	Vertical
3	9775.5	47.19	51.52	4.33	74.00	22.48	200	36	Vertical
4	11011.5	46.36	50.65	4.29	74.00	23.35	200	88	Vertical
5	13854	44.72	52.66	7.94	74.00	21.34	200	14	Vertical
6	17539.5	43.87	52.12	8.25	74.00	21.88	200	138	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375	-18.79	62.14	43.35	54.00	10.65	200	68	Vertical
2	2495.2	-19.56	58.46	38.90	54.00	15.10	200	78	Vertical
3	9775.5	4.33	41.21	45.54	54.00	8.46	200	36	Vertical
4	11011.5	4.29	40.17	44.46	54.00	9.54	200	88	Vertical
5	13854	7.94	35.41	43.35	54.00	10.65	200	14	Vertical
6	17539.5	8.25	33.48	41.73	54.00	12.27	200	138	Vertical

Mode: IEEE 802.11ax HE20
Lowest Frequency (2412MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385	80.62	60.53	-20.09	74.00	13.47	100	232	Horizontal
2	2700.4	63.64	45.29	-18.35	74.00	28.71	200	274	Horizontal
3	7230	56.42	53.15	-3.27	74.00	20.85	100	270	Horizontal
4	9904.5	47.24	51.09	3.85	74.00	22.91	200	106	Horizontal
5	13869	43.72	51.34	7.62	74.00	22.66	100	332	Horizontal
6	17508	44.11	51.60	7.49	74.00	22.40	200	217	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385	-20.09	62.38	42.29	54.00	11.71	100	232	Horizontal
2	7234.19	-3.27	45.57	42.30	54.00	11.70	135	243.5	Horizontal
3	9904.5	3.85	35.29	39.14	54.00	14.86	200	106	Horizontal
4	13869	7.62	36.29	43.91	54.00	10.09	100	332	Horizontal
5	17508	7.49	37.58	45.07	54.00	8.93	200	217	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384	90.64	71.77	-18.87	74.00	2.23	100	353	Vertical
2	2498	74.14	54.59	-19.55	74.00	19.41	100	353	Vertical
3	9760.5	47.20	51.45	4.25	74.00	22.55	200	137	Vertical
4	13572	44.01	51.00	6.99	74.00	23.00	100	253	Vertical
5	14457	44.20	52.01	7.81	74.00	21.99	200	0	Vertical
6	17541	44.73	52.96	8.23	74.00	21.04	200	240	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384	-18.87	57.35	38.48	54.00	15.52	100	353	Vertical
2	2498	-19.55	63.54	43.99	54.00	10.01	100	353	Vertical
3	9760.5	4.25	38.64	42.89	54.00	11.11	200	137	Vertical
4	13572	6.99	37.25	44.24	54.00	9.76	100	253	Vertical
5	14457	7.81	34.29	42.10	54.00	11.90	200	0	Vertical
6	17541	8.23	36.36	44.59	54.00	9.41	200	240	Vertical

Mode: IEEE 802.11ax HE20
Middle Frequency (2437MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.6	68.28	48.18	-20.10	74.00	25.82	100	232	Horizontal
2	2497	66.39	47.69	-18.70	74.00	26.31	100	222	Horizontal
3	7300.5	53.06	50.21	-2.85	74.00	23.79	100	249	Horizontal
4	9750	47.52	51.21	3.69	74.00	22.79	200	180	Horizontal
5	14667	43.49	51.27	7.78	74.00	22.73	200	136	Horizontal
6	17494.5	44.23	51.77	7.54	74.00	22.23	100	16	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.6	-20.10	57.46	37.36	54.00	16.64	100	232	Horizontal
2	7300.5	-2.85	46.29	43.44	54.00	10.56	100	249	Horizontal
3	9750	3.69	37.68	41.37	54.00	12.63	200	180	Horizontal
4	14667	7.78	35.18	42.96	54.00	11.04	200	136	Horizontal
5	17494.5	7.54	32.65	40.19	54.00	13.81	100	16	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.8	82.37	63.65	-18.72	74.00	10.35	100	58	Vertical
2	2520	78.84	59.35	-19.49	74.00	14.65	200	323	Vertical
3	7246.5	51.41	48.75	-2.66	74.00	25.25	200	354	Vertical
4	9751.5	46.61	50.81	4.20	74.00	23.19	100	323	Vertical
5	13855.5	43.14	51.08	7.94	74.00	22.92	200	198	Vertical
6	17595	45.04	52.44	7.40	74.00	21.56	200	86	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.8	-18.72	62.38	43.66	54.00	10.34	100	58	Vertical
2	2520	-19.49	57.67	38.18	54.00	15.82	200	323	Vertical
3	7246.5	-2.66	43.62	40.96	54.00	13.04	200	354	Vertical
4	9751.5	4.20	37.29	41.49	54.00	12.51	100	323	Vertical
5	13855.5	7.94	35.16	43.10	54.00	10.90	200	198	Vertical
6	17595	7.40	32.64	40.04	54.00	13.96	200	86	Vertical

Mode: IEEE 802.11ax HE20
Highest Frequency (2462MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2498	73.15	54.47	-18.68	74.00	19.53	100	223	Horizontal
2	2700	63.30	44.94	-18.36	74.00	29.06	200	241	Horizontal
3	4918.5	56.29	45.10	-11.19	74.00	28.90	200	167	Horizontal
4	9873	47.53	51.76	4.23	74.00	22.24	200	239	Horizontal
5	14641.5	43.50	50.95	7.45	74.00	23.05	200	250	Horizontal
6	17503.5	43.94	51.47	7.53	74.00	22.53	100	138	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2498	-18.68	58.29	39.61	54.00	14.39	100	223	Horizontal
2	9873	4.23	41.25	45.48	54.00	8.52	200	239	Horizontal
3	14641.5	7.45	34.26	41.71	54.00	12.29	200	250	Horizontal
4	17503.5	7.53	36.34	43.87	54.00	10.13	100	138	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.4	71.85	53.00	-18.85	74.00	21.00	200	86	Vertical
2	2495.6	87.14	67.58	-19.56	74.00	6.42	200	76	Vertical
3	4929	56.19	45.13	-11.06	74.00	28.87	100	110	Vertical
4	8139	50.05	50.13	0.08	74.00	23.87	100	222	Vertical
5	9744	47.60	51.63	4.03	74.00	22.37	200	7	Vertical
6	17548.5	44.43	52.59	8.16	74.00	21.41	100	140	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.4	-18.85	62.49	43.64	54.00	10.36	200	86	Vertical
2	2495.6	-19.56	58.64	39.08	54.00	14.92	200	76	Vertical
3	8139	0.08	41.26	41.34	54.00	12.66	100	222	Vertical
4	9744	4.03	41.87	45.90	54.00	8.10	200	7	Vertical
5	17548.5	8.16	38.26	46.42	54.00	7.58	100	140	Vertical

Mode: IEEE 802.11ax HE40
Lowest Frequency (2422MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.4	74.60	54.50	-20.10	74.00	19.50	100	125	Horizontal
2	7273.5	54.96	51.83	-3.13	74.00	22.17	100	223	Horizontal
3	9300	49.43	51.65	2.22	74.00	22.35	200	30	Horizontal
4	9862.5	46.99	51.34	4.35	74.00	22.66	200	274	Horizontal
5	13533	44.02	50.74	6.72	74.00	23.26	100	60	Horizontal
6	17508	43.66	51.15	7.49	74.00	22.85	200	203	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.4	-20.10	63.27	43.17	54.00	10.83	100	125	Horizontal
2	7268.4425	-3.13	44.91	41.78	54.00	12.22	119	244	Horizontal
3	9300	2.22	43.68	45.90	54.00	8.10	200	30	Horizontal
4	9862.5	4.35	39.28	43.63	54.00	10.37	200	274	Horizontal
5	13533	6.72	37.64	44.36	54.00	9.64	100	60	Horizontal
6	17508	7.49	32.68	40.17	54.00	13.83	200	203	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.8	88.07	69.21	-18.86	74.00	4.79	200	15	Vertical
2	2499	76.58	57.03	-19.55	74.00	16.97	100	15	Vertical
3	7269	51.91	49.28	-2.63	74.00	24.72	200	294	Vertical
4	9759	47.67	51.91	4.24	74.00	22.09	200	78	Vertical
5	13449	44.45	51.71	7.26	74.00	22.29	200	294	Vertical
6	17499	44.13	52.78	8.65	74.00	21.22	100	213	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.8	-18.86	63.49	44.63	54.00	9.37	200	15	Vertical
2	2499	-19.55	59.34	39.79	54.00	14.21	100	15	Vertical
3	7267.525	-2.63	41.02	38.39	54.00	15.61	187	297.5	Vertical
4	9759	4.24	41.36	45.60	54.00	8.40	200	78	Vertical
5	13449	7.26	38.57	45.83	54.00	8.17	200	294	Vertical
6	17499	8.65	37.62	46.27	54.00	7.73	100	213	Vertical

Mode: IEEE 802.11ax HE40
Middle Frequency (2437MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.4	73.53	53.39	-20.14	74.00	20.61	100	233	Horizontal
2	2507.6	69.26	50.63	-18.63	74.00	23.37	200	233	Horizontal
3	7306.5	53.21	50.30	-2.91	74.00	23.70	100	251	Horizontal
4	9897	47.27	51.24	3.97	74.00	22.76	200	253	Horizontal
5	14676	42.67	50.59	7.92	74.00	23.41	200	139	Horizontal
6	17541	43.46	50.68	7.22	74.00	23.32	200	202	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.4	-20.14	63.53	43.39	54.00	10.61	100	233	Horizontal
2	2507.6	-18.63	61.18	42.55	54.00	11.45	200	233	Horizontal
3	7306.5	-2.91	42.36	39.45	54.00	14.55	100	251	Horizontal
4	9897	3.97	41.38	45.35	54.00	8.65	200	253	Horizontal
5	14676	7.92	36.34	44.26	54.00	9.74	200	139	Horizontal
6	17541	7.22	33.29	40.51	54.00	13.49	200	202	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.6	83.30	64.47	-18.83	74.00	9.53	200	344	Vertical
2	2496.6	81.06	61.50	-19.56	74.00	12.50	200	344	Vertical
3	4872	57.79	45.91	-11.88	74.00	28.09	100	142	Vertical
4	9420	48.28	50.96	2.68	74.00	23.04	100	107	Vertical
5	9763.5	47.27	51.53	4.26	74.00	22.47	200	14	Vertical
6	17548.5	43.30	51.46	8.16	74.00	22.54	100	183	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.6	-18.83	62.37	43.54	54.00	10.46	200	344	Vertical
2	2496.6	-19.56	58.34	38.78	54.00	15.22	200	344	Vertical
3	4875.173	-11.88	47.51	35.63	54.00	18.37	134	115.1	Vertical
4	9421.5	2.68	36.59	39.27	54.00	14.73	100	103.7	Vertical
5	9757.9925	4.26	36.40	40.66	54.00	13.34	200	327.6	Vertical
6	17548.5	8.16	32.85	41.01	54.00	12.99	100	183	Vertical

Mode: IEEE 802.11ax HE40
Highest Frequency (2452MHz)
Environment: 20.2℃/56%RH
Tested By: Zhang Qiang

Date: 2023-04-22
Voltage: AC 120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.8	74.76	54.65	-20.11	74.00	19.35	100	135	Horizontal
2	2497.4	80.58	61.89	-18.69	74.00	12.11	100	214	Horizontal
3	9768	47.34	51.24	3.90	74.00	22.76	100	121	Horizontal
4	13609.5	43.54	50.62	7.08	74.00	23.38	200	56	Horizontal
5	14509.5	42.90	50.90	8.00	74.00	23.10	200	16	Horizontal
6	17545.5	43.54	50.72	7.18	74.00	23.28	100	182	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.8	-20.11	62.35	42.24	54.00	11.76	100	135	Horizontal
2	2497.4	-18.69	58.24	39.55	54.00	14.45	100	214	Horizontal
3	9768	3.90	42.68	46.58	54.00	7.42	100	121	Horizontal
4	13609.5	7.08	37.29	44.37	54.00	9.63	200	56	Horizontal
5	14509.5	8.00	35.27	43.27	54.00	10.73	200	16	Horizontal
6	17545.5	7.18	32.19	39.37	54.00	14.63	100	182	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381	83.38	64.54	-18.84	74.00	9.46	200	39	Vertical
2	2497.2	92.11	72.56	-19.55	74.00	1.44	100	38	Vertical
3	7200	52.45	50.25	-2.20	74.00	23.75	200	252	Vertical
4	9766.5	47.19	51.48	4.29	74.00	22.52	200	67	Vertical
5	13966.5	43.14	50.94	7.80	74.00	23.06	200	218	Vertical
6	17484	43.22	51.74	8.52	74.00	22.26	200	354	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381	-18.84	62.25	43.41	54.00	10.59	200	39	Vertical
2	2497.2	-19.55	57.14	37.59	54.00	16.41	100	38	Vertical
3	7231.47	-2.20	39.64	37.44	54.00	16.56	165	233.1	Vertical
4	9761.1275	4.29	36.41	40.70	54.00	13.30	194	95.5	Vertical
5	13956.1875	7.80	32.08	39.88	54.00	14.12	200	212.3	Vertical
6	17543.21	8.52	33.07	41.59	54.00	12.41	116	179.6	Vertical

18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11n HT40)
The peak test results is less than the average limits, so the average test results had not reported.

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz) Date: 2023-05-07
Environment: 23.2℃/64%RH Voltage: AC 120V/60Hz
Tested By: Zhang Zishan /

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18569.5	54.24	36.90	-17.34	83.54	46.64	100	328	Horizontal
2	19361.275	53.98	37.20	-16.78	83.54	46.34	200	15	Horizontal
3	21075.725	52.99	37.17	-15.82	83.54	46.37	100	344	Horizontal
4	22827.575	51.69	36.96	-14.73	83.54	46.58	100	359	Horizontal
5	23332.9	51.17	36.51	-14.66	83.54	47.03	200	156	Horizontal
6	25435.8	49.75	35.63	-14.12	83.54	47.91	100	126	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18493.425	54.22	36.87	-17.35	83.54	46.67	200	298	Vertical
2	19629.875	53.60	36.96	-16.64	83.54	46.58	100	48	Vertical
3	22196.875	51.69	36.38	-15.31	83.54	47.16	100	235	Vertical
4	23770.65	49.94	35.46	-14.48	83.54	48.08	100	268	Vertical
5	24387.75	50.15	35.95	-14.20	83.54	47.59	200	63	Vertical
6	26069.05	50.37	36.26	-14.11	83.54	47.28	100	95	Vertical

Note:
Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

---------- **The following blanks** ----------

Mode: IEEE 802.11n HT40
Middle Frequency (2437MHz)
Environment: 23.2℃/64%RH
Tested By: Zhang Zishan

Date: 2023-05-07
Voltage: AC 120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18504.475	54.13	36.70	-17.43	83.54	46.84	100	93	Horizontal
2	19916.325	53.48	36.95	-16.53	83.54	46.59	200	342	Horizontal
3	20918.9	52.52	36.60	-15.92	83.54	46.94	200	358	Horizontal
4	21621.425	52.42	36.73	-15.69	83.54	46.81	100	249	Horizontal
5	22949.125	50.69	36.03	-14.66	83.54	47.51	100	249	Horizontal
6	25418.8	49.54	35.42	-14.12	83.54	48.12	100	249	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18548.675	54.29	37.00	-17.29	83.54	46.54	100	109	Vertical
2	20045.95	53.38	37.02	-16.36	83.54	46.52	100	48	Vertical
3	21517.3	53.41	37.77	-15.64	83.54	45.77	200	266	Vertical
4	22934.675	51.35	36.68	-14.67	83.54	46.86	100	282	Vertical
5	24447.675	50.32	36.16	-14.16	83.54	47.38	100	346	Vertical
6	25412.425	49.55	35.47	-14.08	83.54	48.07	200	313	Vertical

Note:
Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

---------- The following blanks ----------

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 23.2℃/64%RH
Tested By: Zhang Zishan

Date: 2023-05-07
Voltage: AC 120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18616.25	53.69	36.41	-17.28	83.54	47.13	200	144	Horizontal
2	19376.575	54.33	37.54	-16.79	83.54	46.00	200	15	Horizontal
3	21710.25	52.24	36.59	-15.65	83.54	46.95	100	15	Horizontal
4	22838.625	51.59	36.87	-14.72	83.54	46.67	100	207	Horizontal
5	24314.225	50.33	36.02	-14.31	83.54	47.52	100	48	Horizontal
6	26131.95	49.67	35.49	-14.18	83.54	48.05	100	360	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18570.775	54.01	36.75	-17.26	83.54	46.79	100	62	Vertical
2	19598.85	53.77	37.10	-16.67	83.54	46.44	200	141	Vertical
3	21283.975	52.30	36.66	-15.64	83.54	46.88	100	297	Vertical
4	23151	50.68	36.08	-14.60	83.54	47.46	200	204	Vertical
5	24250.475	50.13	35.85	-14.28	83.54	47.69	100	345	Vertical
6	25455.775	50.19	36.08	-14.11	83.54	47.46	100	171	Vertical

Note:
Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

---------- The following blanks ----------

7. 6DB BANDWIDTH

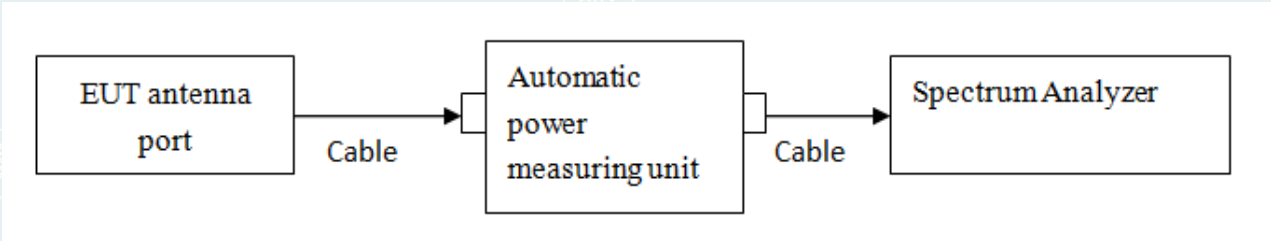
7.1. LIMITS

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.2. TEST PROCEDURES

1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer**.**
2) Set resolution bandwidth (RBW) = 100kHz.Set the video bandwidth (VBW) ≥ 3 x RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
3) Repeat above procedures until all frequencies measured were complete.

7.3. TEST SETUP



---------- The following blanks ----------

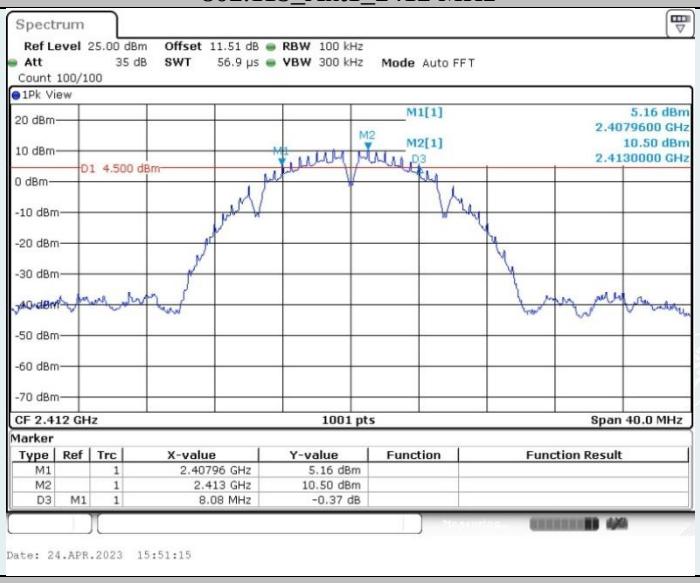
7.4. TEST RESULTS

Environment: 22.6℃/63%RH
Tested By:Yang Zhaoyun

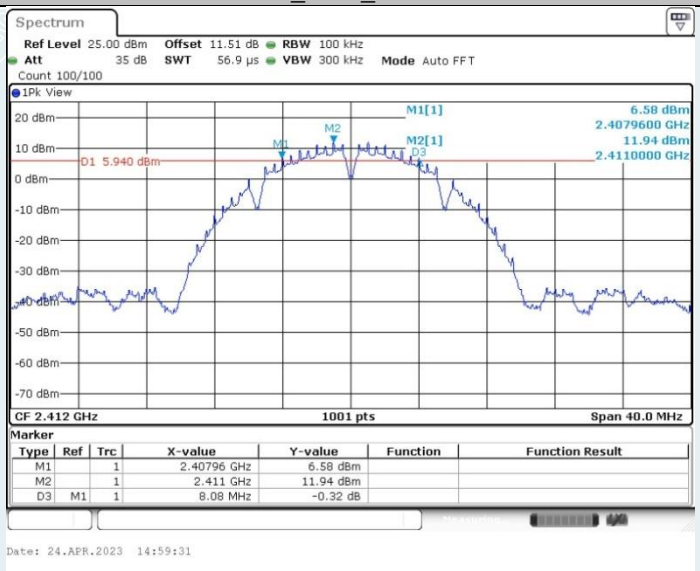
Voltage: AC 120V/60Hz
Date: 2023-04-24~2023-04-26

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	F_L [MHz]	F_H [MHz]	Limit [MHz]	Verdict
802.11b	Ant1	2412	8.08	2407.96	2416.04	0.5	PASS
	Ant2	2412	8.08	2407.96	2416.04	0.5	PASS
	Ant1	2437	8.08	2432.96	2441.04	0.5	PASS
	Ant2	2437	8.04	2432.96	2441.00	0.5	PASS
	Ant1	2462	8.08	2457.96	2466.04	0.5	PASS
	Ant2	2462	8.08	2457.96	2466.04	0.5	PASS
802.11g	Ant1	2412	15.72	2403.84	2419.56	0.5	PASS
	Ant2	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant1	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant2	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant1	2462	15.12	2454.44	2469.56	0.5	PASS
	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
802.11n HT20 MIMO	Ant1	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant2	2412	15.68	2404.44	2420.12	0.5	PASS
	Ant1	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant1	2462	16.08	2454.44	2470.52	0.5	PASS
	Ant2	2462	15.72	2454.44	2470.16	0.5	PASS
802.11n HT40 MIMO	Ant1	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant2	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
	Ant2	2437	35.04	2419.48	2454.52	0.5	PASS
	Ant1	2452	35.44	2434.48	2469.92	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS
802.11ax HE20 MIMO	Ant1	2412	18.32	2402.96	2421.28	0.5	PASS
	Ant2	2412	18.20	2403.00	2421.20	0.5	PASS
	Ant1	2437	18.56	2427.72	2446.28	0.5	PASS
	Ant2	2437	18.08	2427.96	2446.04	0.5	PASS
	Ant1	2462	18.36	2452.88	2471.24	0.5	PASS
	Ant2	2462	18.16	2452.88	2471.04	0.5	PASS
802.11ax HE40 MIMO	Ant1	2422	36.80	2403.20	2440.00	0.5	PASS
	Ant2	2422	35.12	2404.40	2439.52	0.5	PASS
	Ant1	2437	36.48	2419.24	2455.72	0.5	PASS
	Ant2	2437	35.68	2419.08	2454.76	0.5	PASS
	Ant1	2452	36.80	2434.24	2471.04	0.5	PASS
	Ant2	2452	36.40	2434.40	2470.80	0.5	PASS

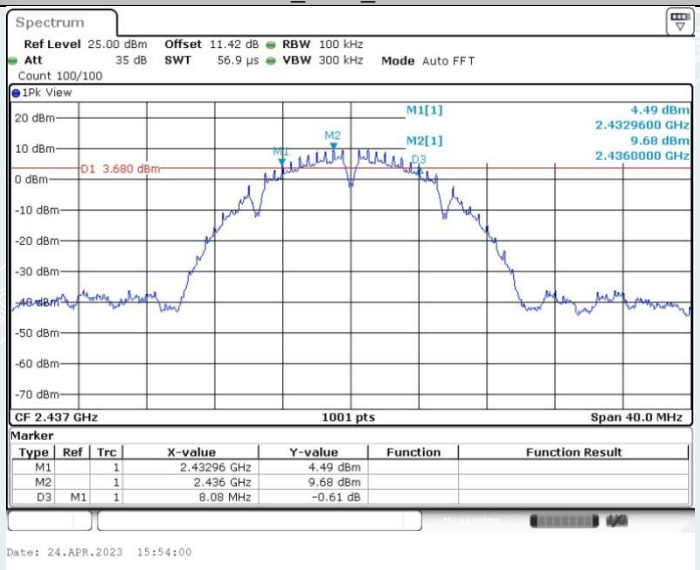
802.11b_Ant1_2412 MHz



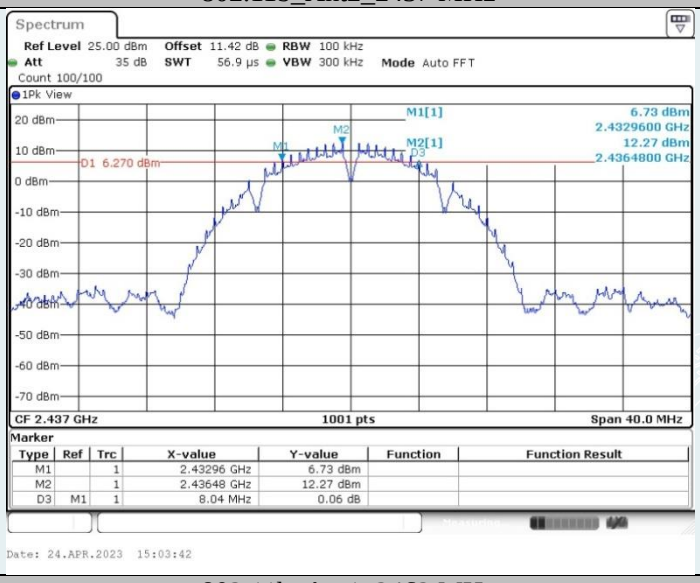
802.11b_Ant2_2412 MHz



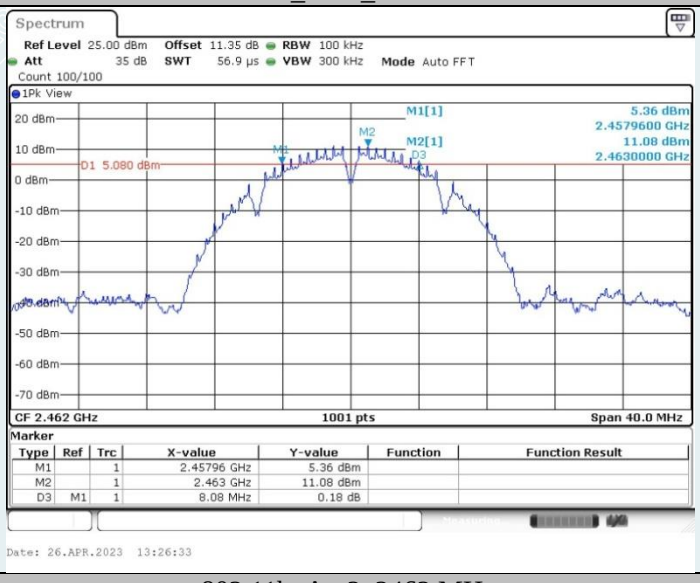
802.11b_Ant1_2437 MHz



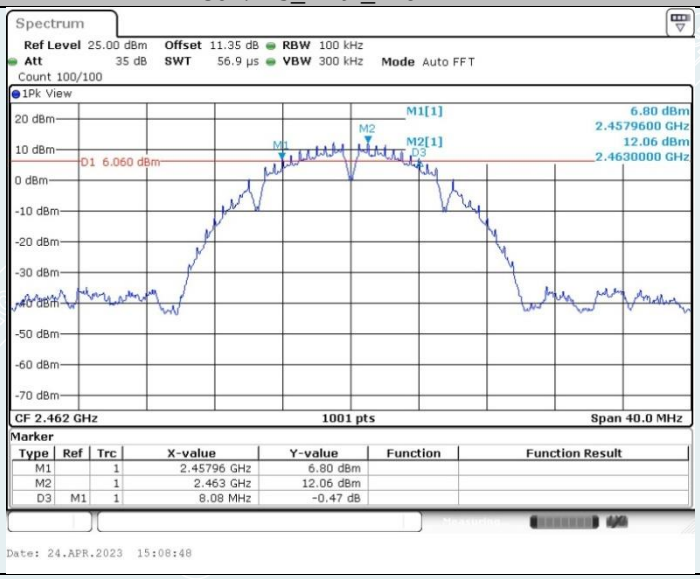
802.11b_Ant2_2437 MHz



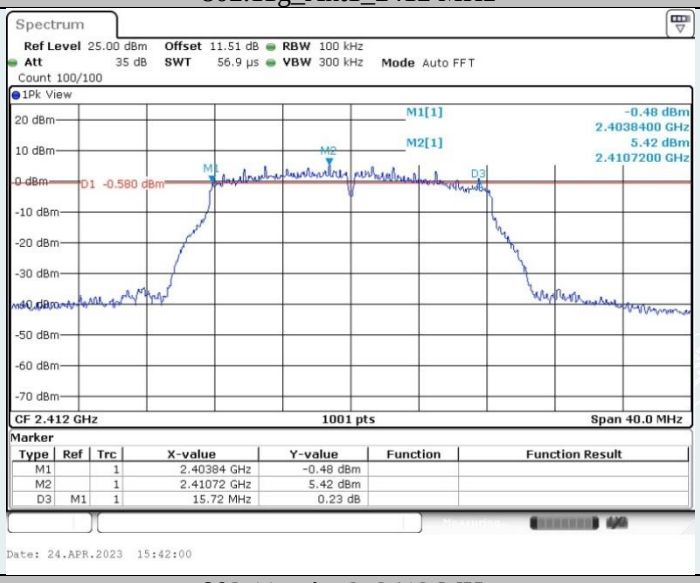
802.11b_Ant1_2462 MHz



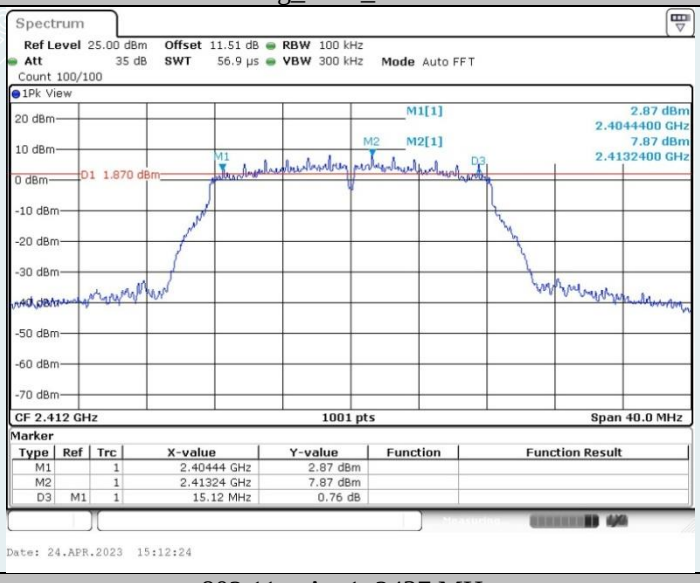
802.11b_Ant2_2462 MHz



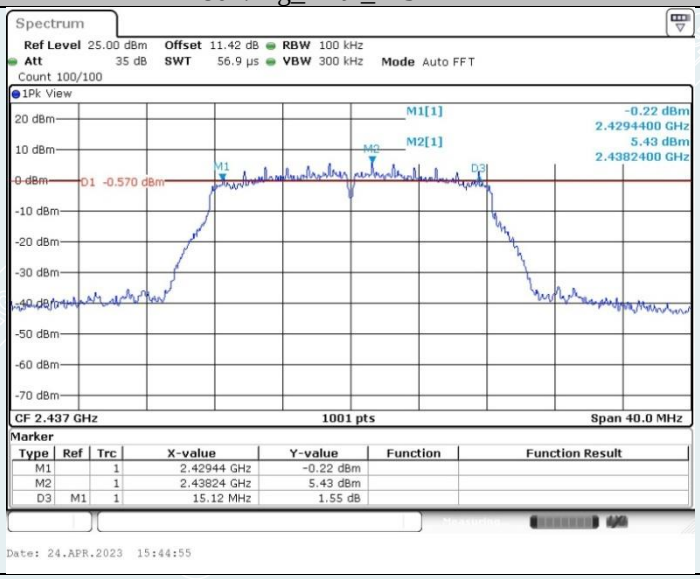
802.11g_Ant1_2412 MHz



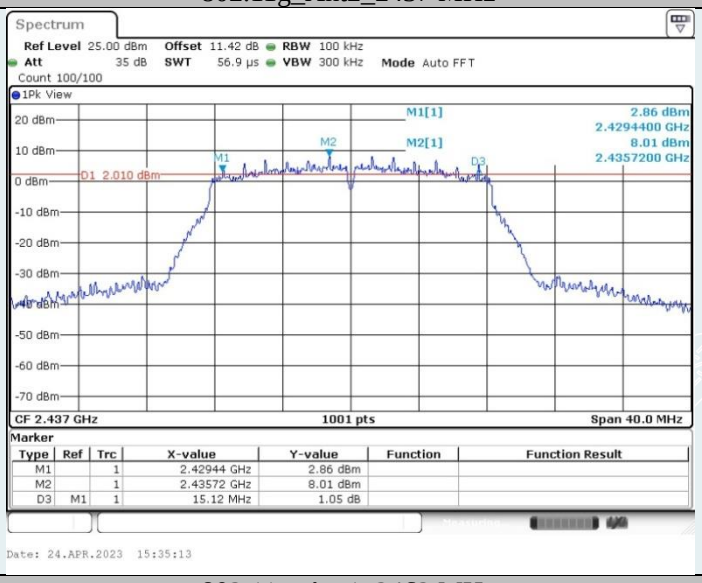
802.11g_Ant2_2412 MHz



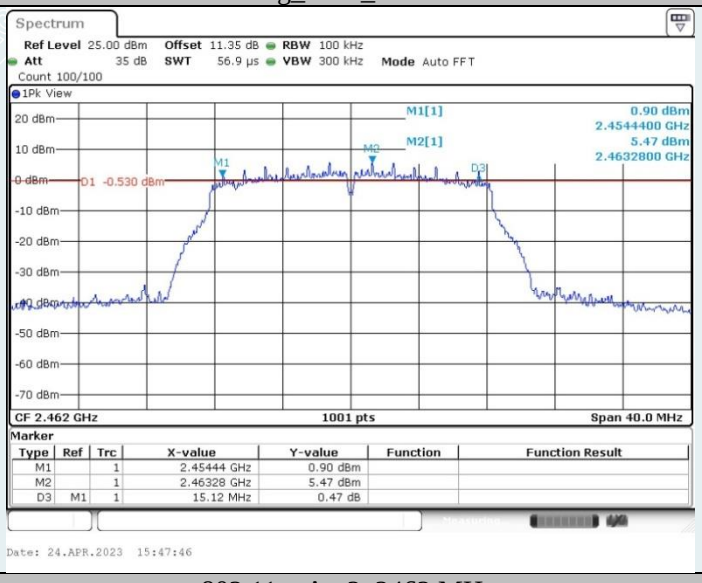
802.11g_Ant1_2437 MHz



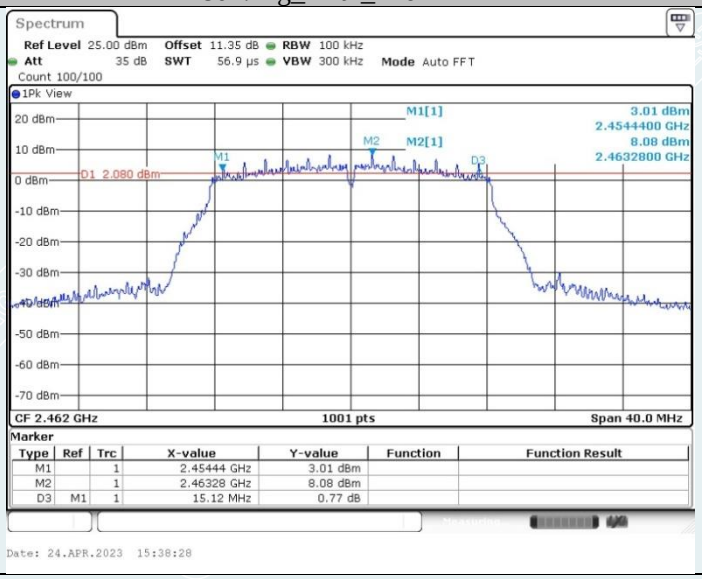
802.11g_Ant2_2437 MHz



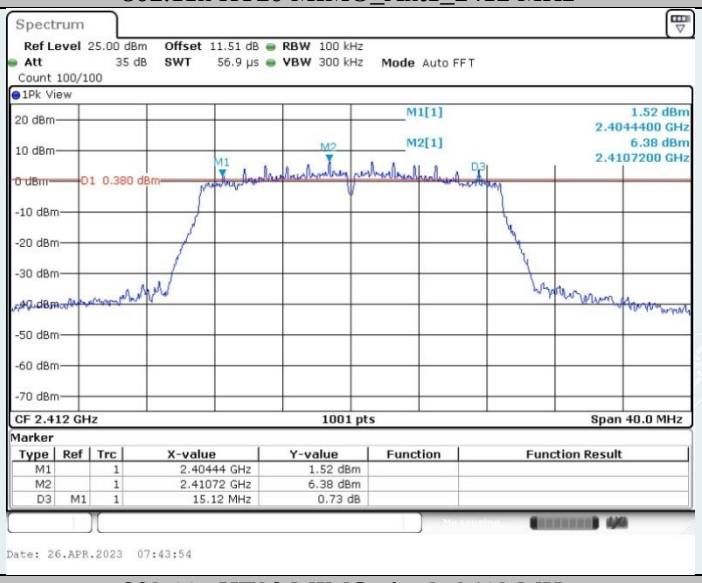
802.11g_Ant1_2462 MHz



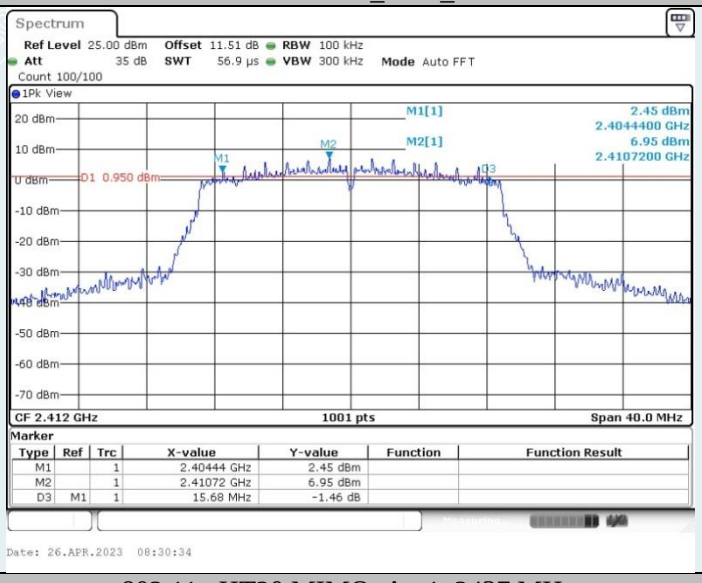
802.11g_Ant2_2462 MHz



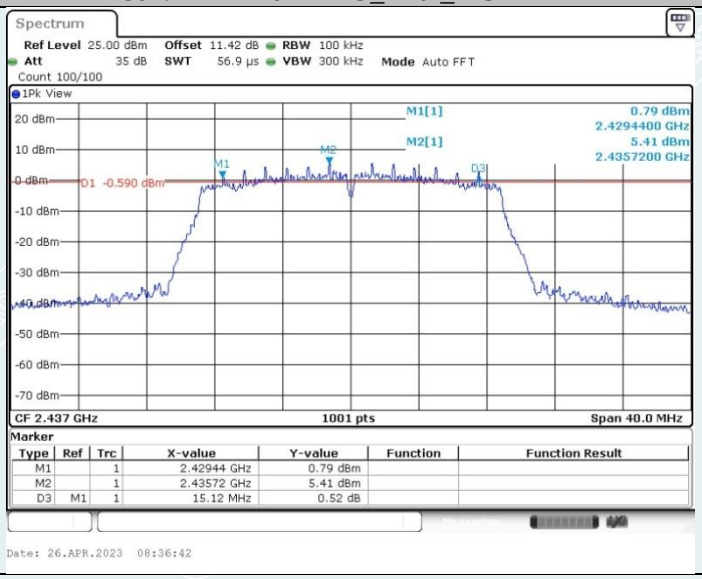
802.11n HT20 MIMO_Ant1_2412 MHz



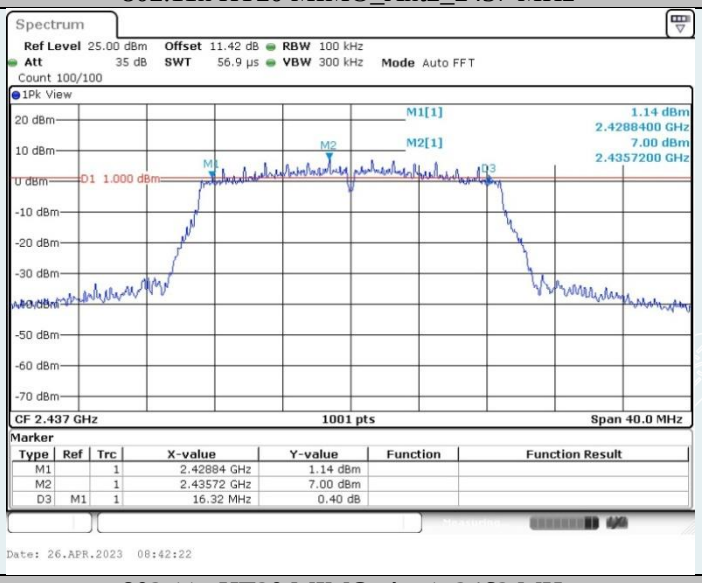
802.11n HT20 MIMO_Ant2_2412 MHz



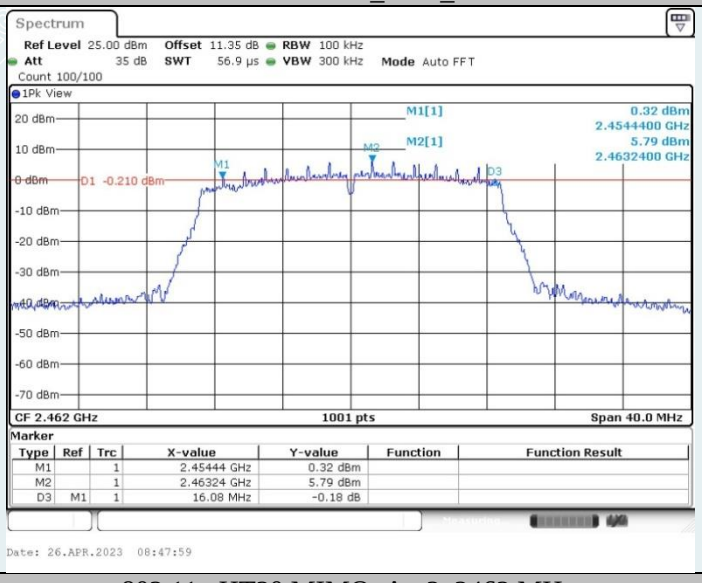
802.11n HT20 MIMO_Ant1_2437 MHz



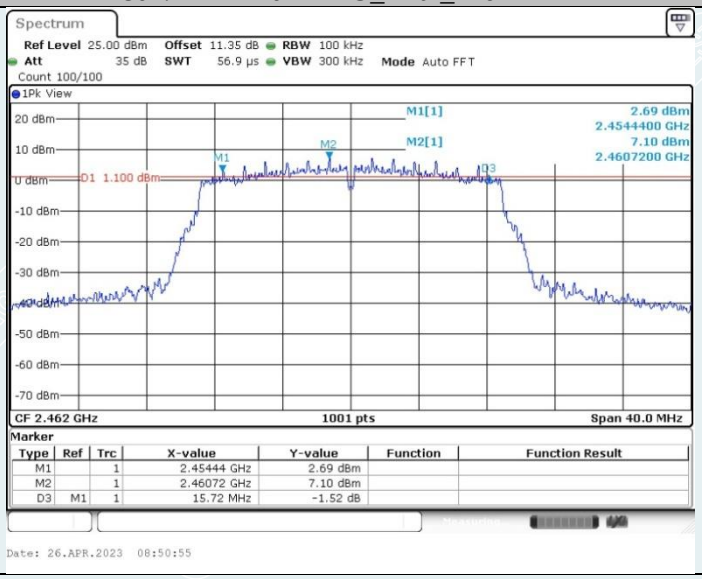
802.11n HT20 MIMO_Ant2_2437 MHz



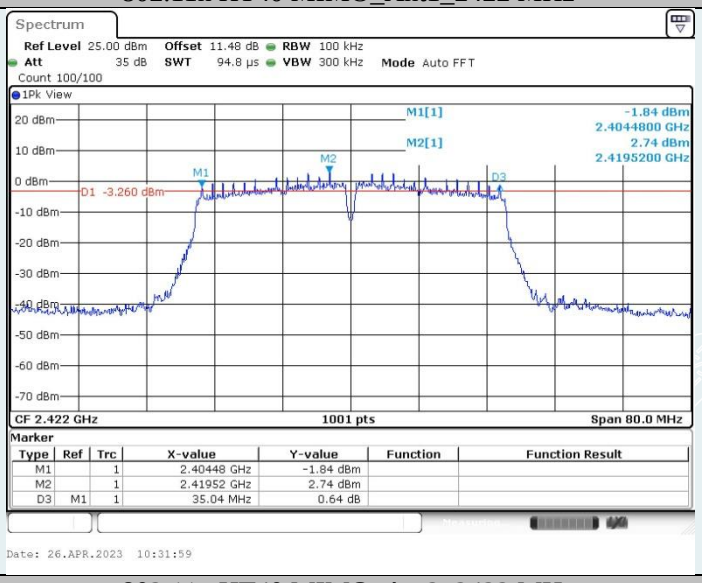
802.11n HT20 MIMO_Ant1_2462 MHz



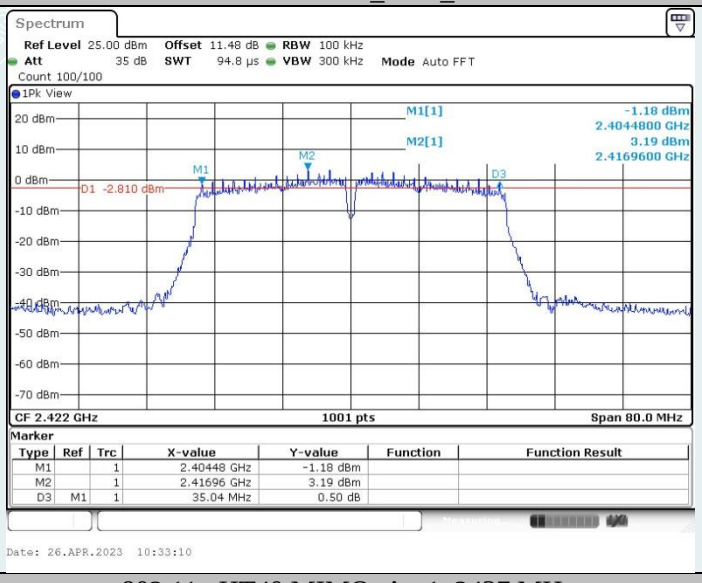
802.11n HT20 MIMO_Ant2_2462 MHz



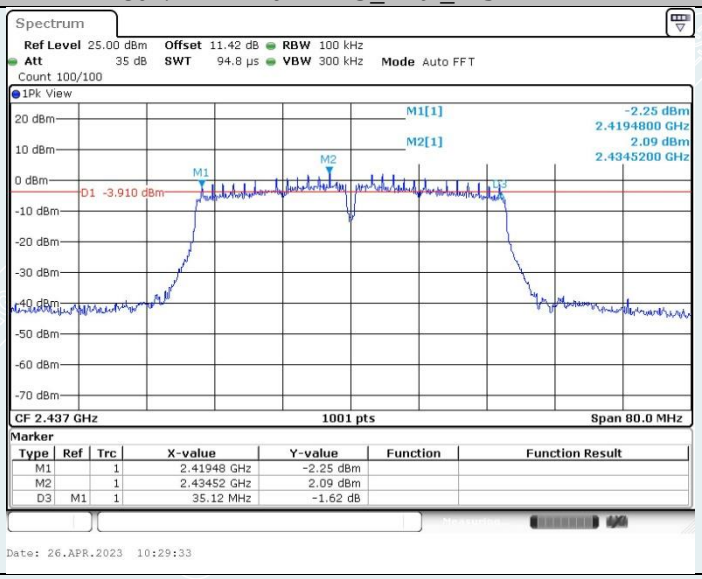
802.11n HT40 MIMO_Ant1_2422 MHz



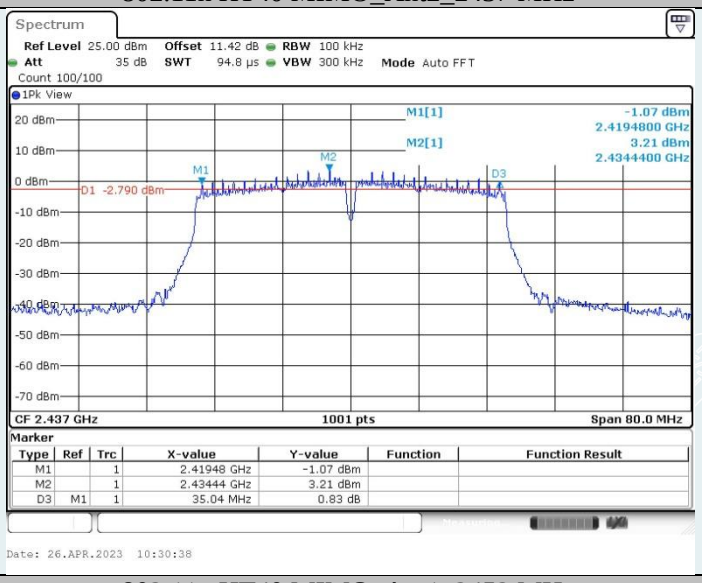
802.11n HT40 MIMO_Ant2_2422 MHz



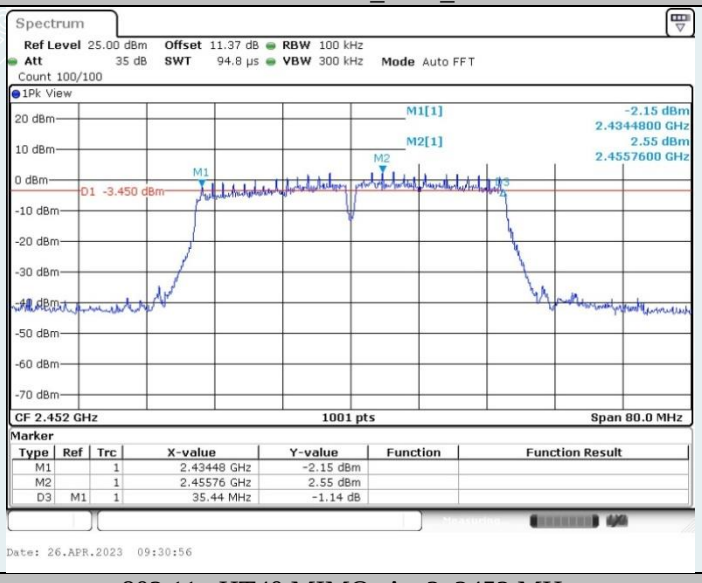
802.11n HT40 MIMO_Ant1_2437 MHz



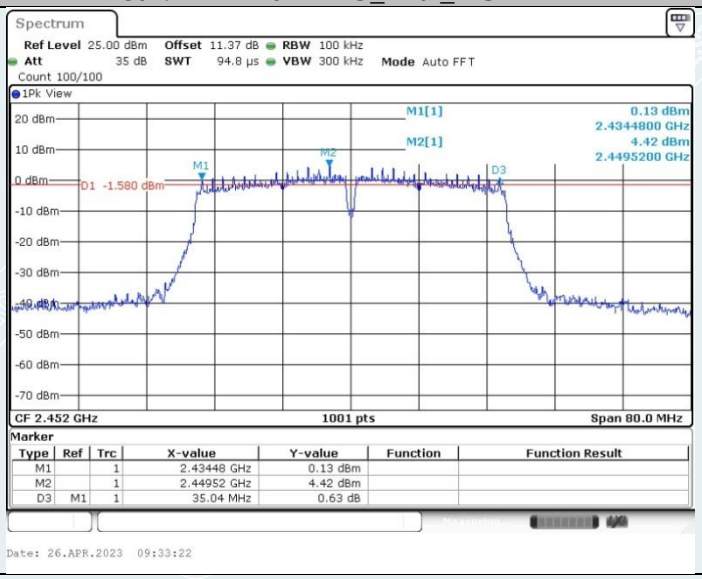
802.11n HT40 MIMO_Ant2_2437 MHz



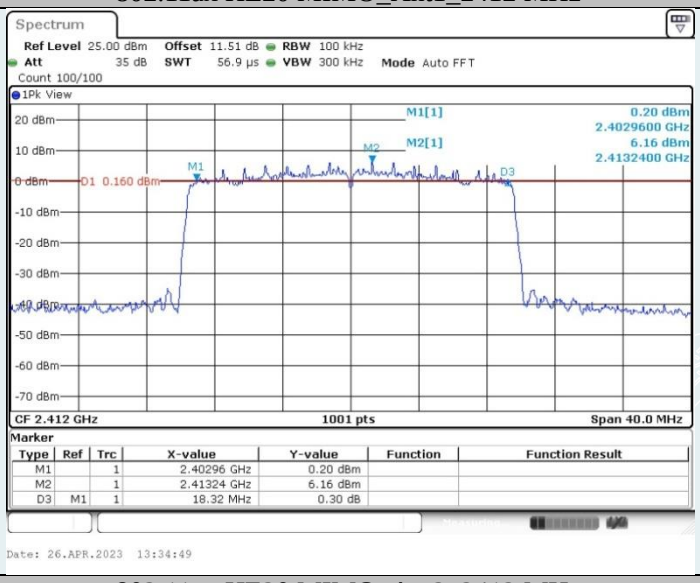
802.11n HT40 MIMO_Ant1_2452 MHz



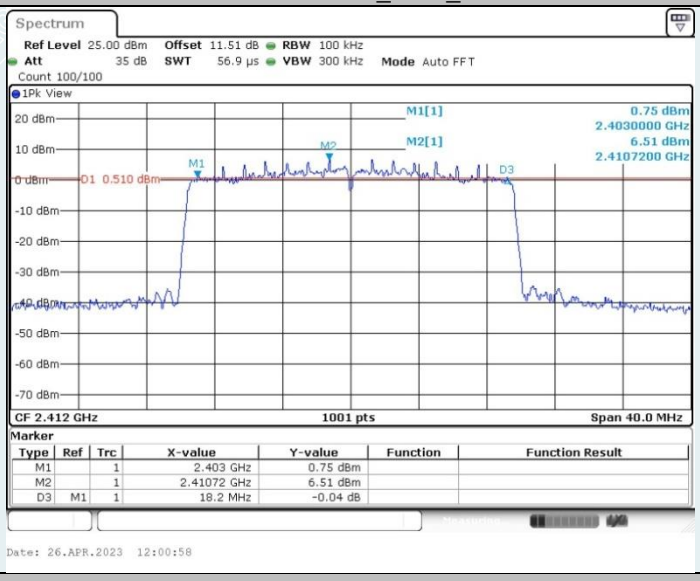
802.11n HT40 MIMO_Ant2_2452 MHz



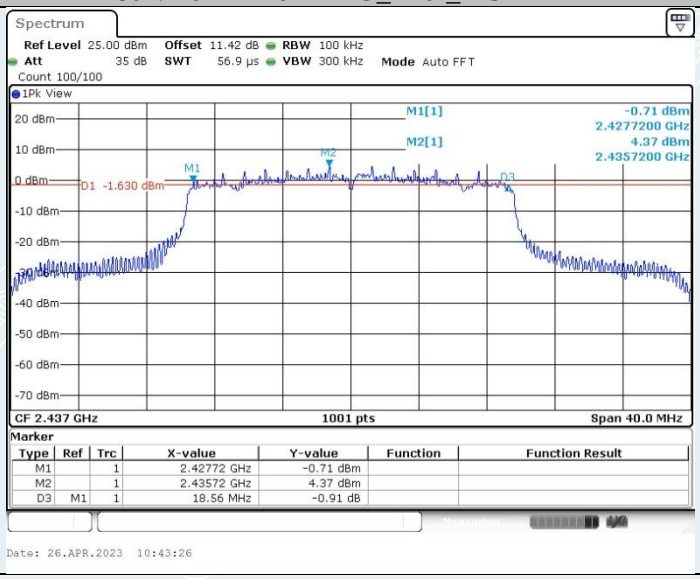
802.11ax HE20 MIMO_Ant1_2412 MHz



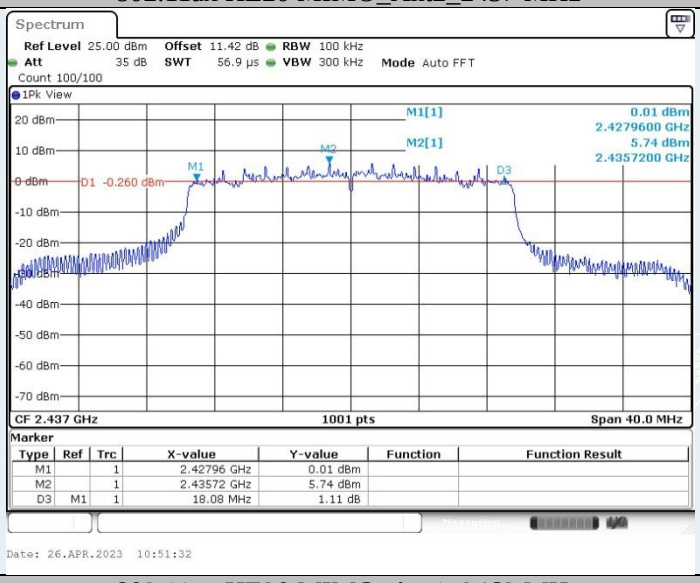
802.11ax HE20 MIMO_Ant2_2412 MHz



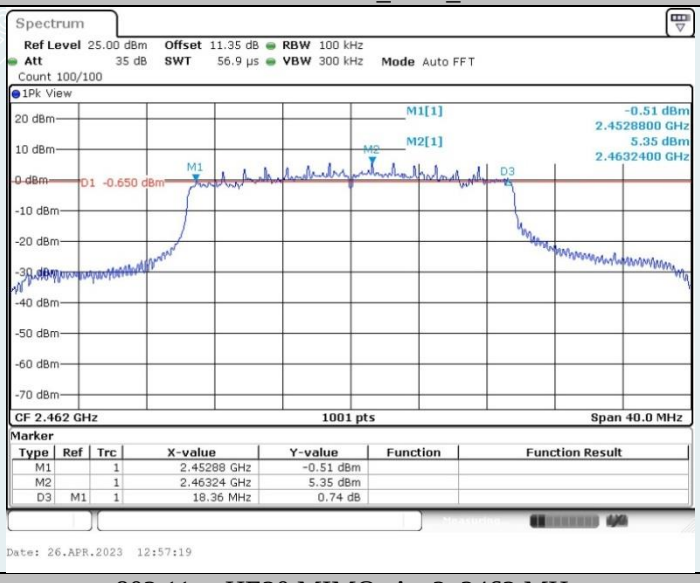
802.11ax HE20 MIMO_Ant1_2437 MHz



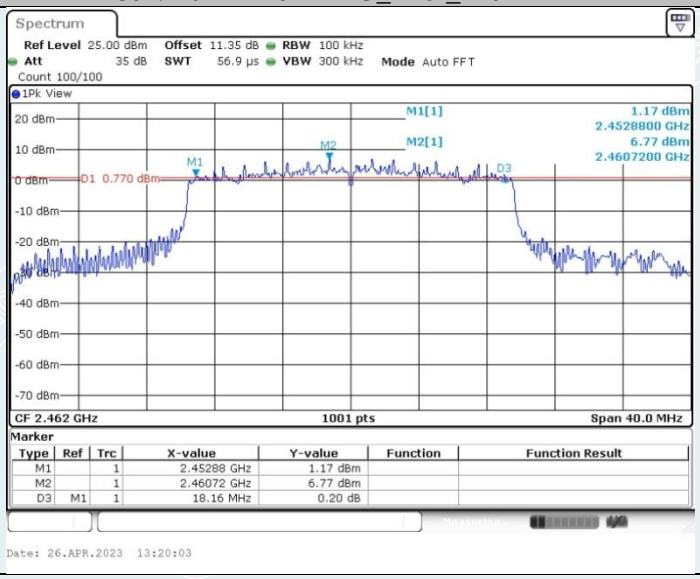
802.11ax HE20 MIMO_Ant2_2437 MHz



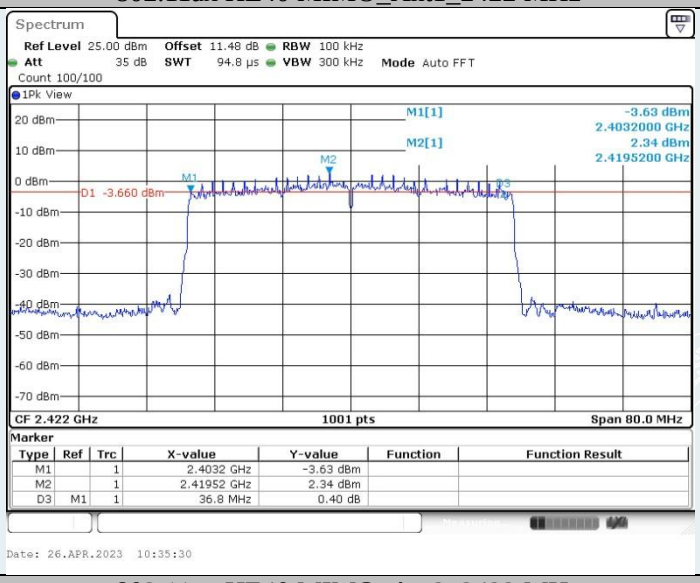
802.11ax HE20 MIMO_Ant1_2462 MHz



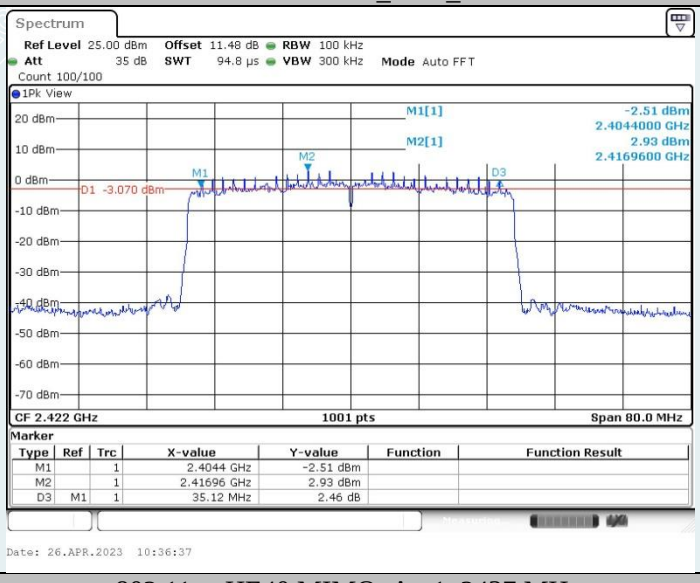
802.11ax HE20 MIMO_Ant2_2462 MHz



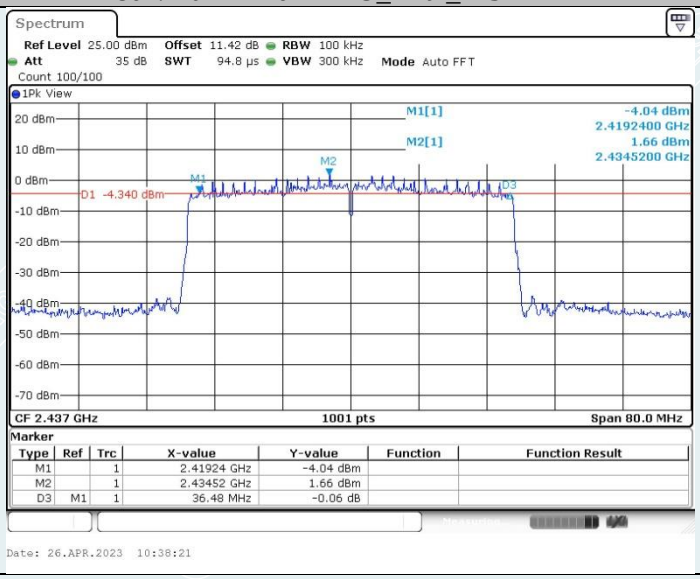
802.11ax HE40 MIMO_Ant1_2422 MHz



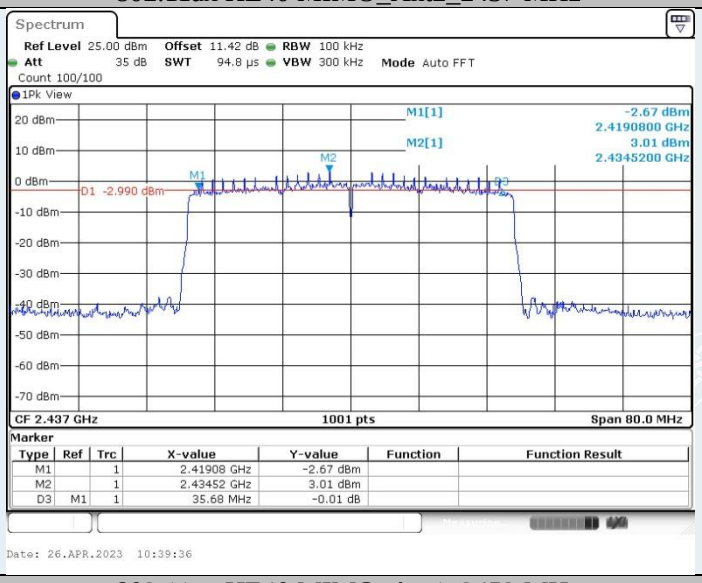
802.11ax HE40 MIMO_Ant2_2422 MHz



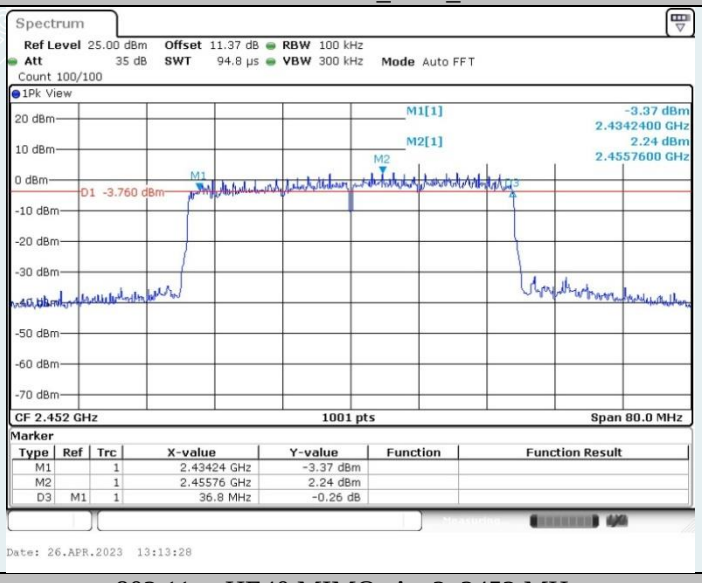
802.11ax HE40 MIMO_Ant1_2437 MHz



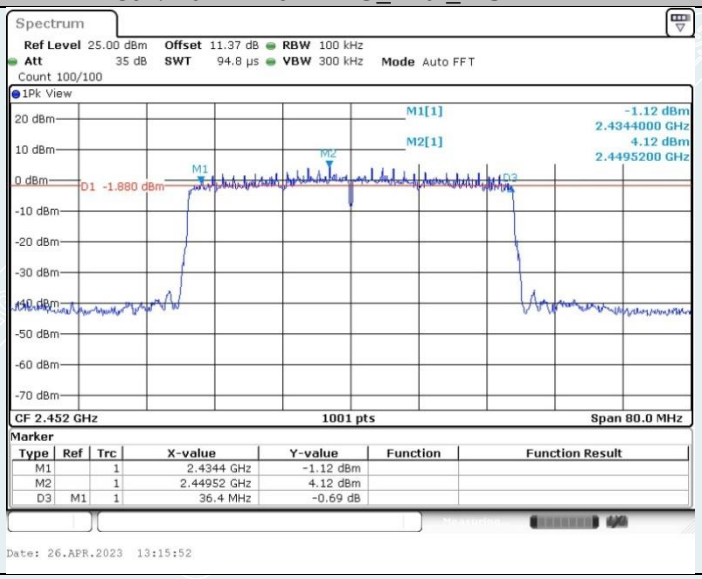
802.11ax HE40 MIMO_Ant2_2437 MHz



802.11ax HE40 MIMO_Ant1_2452 MHz



802.11ax HE40 MIMO_Ant2_2452 MHz



8. MAXIMUM PEAK OUTPUT POWER

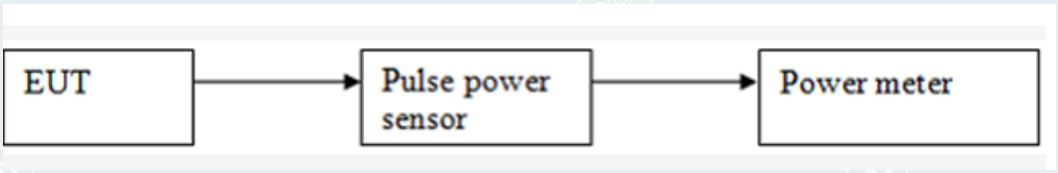
8.1. LIMITS

The maximum Peak output power measurement is 1W

8.2. TEST PROCEDURES

1) RF output of EUT was connected to the broadband peak RF power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2) Set to the maximum power setting and enable the EUT transmit continuously.
3) Measure the conducted output power and record the results in the test report.

8.3. TEST SETUP



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8.4. TEST RESULT

Environment: 22.6℃/63%RH
Tested By:Yang Zhaoyun

Voltage: AC 120V/60Hz
Date: 2023-04-10~2023-04-26

802.11b Mode (antenna 1):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	20.44	Peak	30dBm	Pass
6	2437	20.32			Pass
11	2462	20.38			Pass

802.11b Mode (antenna 2):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	21.54	Peak	30dBm	Pass
6	2437	22.86			Pass
11	2462	22.66			Pass

802.11g Mode (antenna 1):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	25.14	Peak	30dBm	Pass
6	2437	25.23			Pass
11	2462	25.13			Pass

802.11g Mode (antenna 2):

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)	Peak / AVG	Limit	Result
1	2412	27.08	Peak	30dBm	Pass
6	2437	27.34			Pass
11	2462	25.54			Pass

802.11n HT20 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
1	2412	25.02	25.74	28.41	Peak	29.7dBm	Pass
6	2437	24.95	26.12	28.58			Pass
11	2462	24.53	26.04	28.36			Pass

802.11n HT40 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
3	2422	26.66	25.93	29.32	Peak	29.7dBm	Pass
6	2437	24.86	26.04	28.50			Pass
9	2452	24.96	25.34	28.16			Pass

802.11ax HE20 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
1	2412	25.64	26.14	28.91	Peak	29.7dBm	Pass
6	2437	24.16	25.58	27.94			Pass
11	2462	24.06	25.39	27.79			Pass

802.11ax HE40 Mode:

Channel No.	Frequency (MHz)	Measured Channel Power (dBm)			Peak/ AVG	Limit	Result
		antenna 1	antenna 2	total			
3	2422	25.93	25.85	28.90	Peak	29.7dBm	Pass
6	2437	25.56	26.44	29.03			Pass
9	2452	25.02	26.35	28.75			Pass

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain =10log[($10^{4.12/20}$+$10^{2.37/20}$)^2/2]dBi, that is Directional gain (dBi)= 6.3
Note2: Antenna gain is greater than 6, Output Power Limit=30-(6.3-6)=29.7dBm

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9. POWER SPECTRAL DENSITY

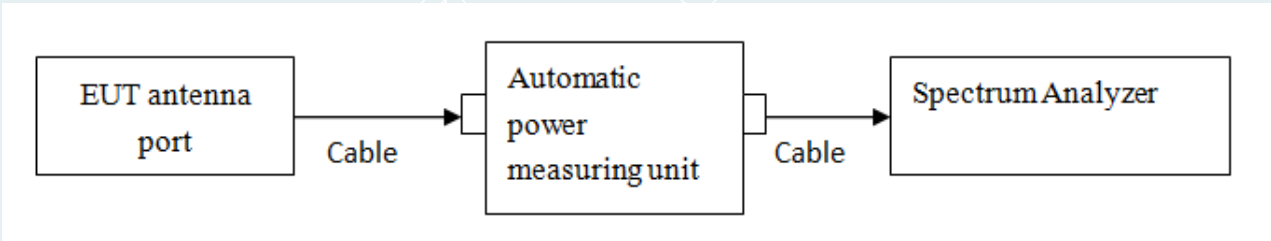
9.1. LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

9.2. TEST PROCEDURES

1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
2) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3) The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:
   a) Set analyzer center frequency to DTS channel center frequency.
   b) Set the span to 1.5 times the DTS bandwidth.
   c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.
   d) Set the VBW ≥ [3 × RBW].
   e) Detector = average
   f) Sweep time = auto couple.
   g) Trace mode = max hold.
   h) Allow trace to fully stabilize.
   i) Use the peak marker function to determine the maximum amplitude level within the RBW.
   j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
4) Repeat above procedures until all frequencies measured were complete.

9.3. TEST SETUP



9.4. TEST RESULTS

Environment: 22.6℃/63%RH
Tested By:Yang Zhaoyun

Voltage: AC 120V/60Hz
Date: 2023-04-24~2023-04-26

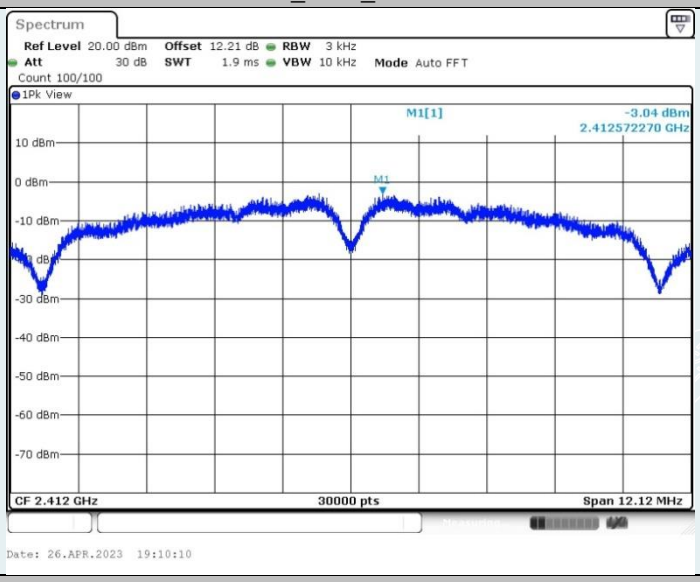
TestMode	Antenna	Frequency [MHz]	PSD [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
802.11b	Ant1	2412	-3.04	≤8.00	PASS
	Ant2	2412	-0.59	≤8.00	PASS
	Ant1	2437	-2.85	≤8.00	PASS
	Ant2	2437	-1.33	≤8.00	PASS
	Ant1	2462	-1.98	≤8.00	PASS
	Ant2	2462	-0.74	≤8.00	PASS
802.11g	Ant1	2412	-7.42	≤8.00	PASS
	Ant2	2412	-4.00	≤8.00	PASS
	Ant1	2437	-7.53	≤8.00	PASS
	Ant2	2437	-4.36	≤8.00	PASS
	Ant1	2462	-7.49	≤8.00	PASS
	Ant2	2462	-6.30	≤8.00	PASS
802.11n HT20 MIMO	Ant1	2412	-7.48	≤8.00	PASS
	Ant2	2412	-6.47	≤8.00	PASS
	total	2412	-3.94	≤7.70	PASS
	Ant1	2437	-7.49	≤8.00	PASS
	Ant2	2437	-5.94	≤8.00	PASS
	total	2437	-3.64	≤7.70	PASS
	Ant1	2462	-7.41	≤8.00	PASS
	Ant2	2462	-6.15	≤8.00	PASS
	total	2462	-3.72	≤7.70	PASS
802.11n HT40 MIMO	Ant1	2422	-10.05	≤8.00	PASS
	Ant2	2422	-9.34	≤8.00	PASS
	total	2422	-6.67	≤7.70	PASS
	Ant1	2437	-11.74	≤8.00	PASS
	Ant2	2437	-9.99	≤8.00	PASS
	total	2437	-7.77	≤7.70	PASS
	Ant1	2452	-11.70	≤8.00	PASS
	Ant2	2452	-10.27	≤8.00	PASS
	total	2452	-7.92	≤7.70	PASS
802.11ax HE20 MIMO	Ant1	2412	-6.86	≤8.00	PASS
	Ant2	2412	-7.25	≤8.00	PASS
	total	2412	0.75	≤7.70	PASS
	Ant1	2437	-9.68	≤8.00	PASS
	Ant2	2437	-7.60	≤8.00	PASS
	total	2437	-5.51	≤7.70	PASS
	Ant1	2462	-9.10	≤8.00	PASS
	Ant2	2462	-7.42	≤8.00	PASS
	total	2462	-5.17	≤7.70	PASS

802.11ax HE40 MIMO	Ant1	2422	-11.49	≤8.00	PASS
	Ant2	2422	-9.21	≤8.00	PASS
	total	2422	-7.19	≤7.70	PASS
	Ant1	2437	-11.37	≤8.00	PASS
	Ant2	2437	-10.83	≤8.00	PASS
	total	2437	-8.08	≤7.70	PASS
	Ant1	2452	-11.30	≤8.00	PASS
	Ant2	2452	-10.46	≤8.00	PASS
	total	2452	-7.85	≤7.70	PASS

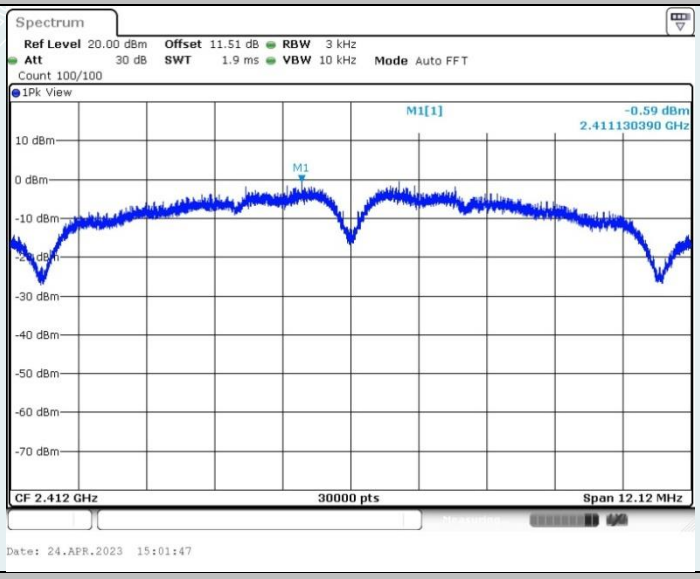
Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain =10log[($10^{4.12/20}$+$10^{2.37/20}$)^2/2]dBi, that is Directional gain (dBi)= 6.3
Note2: Antenna gain is greater than 6, Power Spectral Density Limit=8-(6.3-6)=7.7 dBm/3kHz

---------- The following blanks ----------

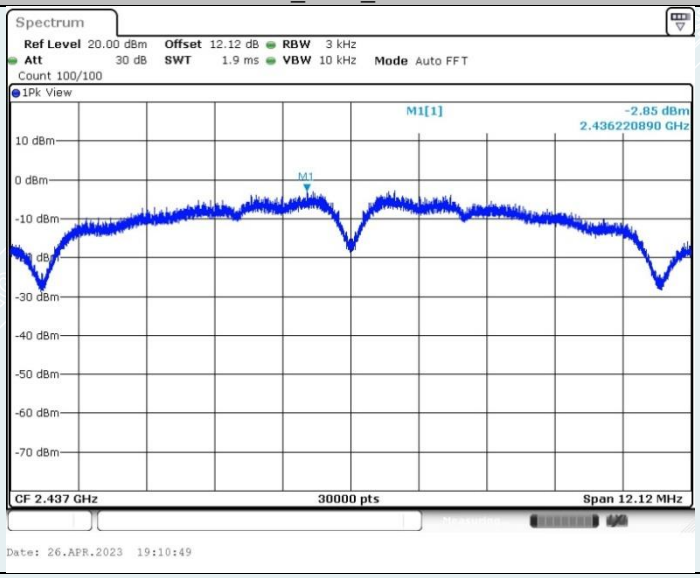
802.11b_Ant1_2412 MHz



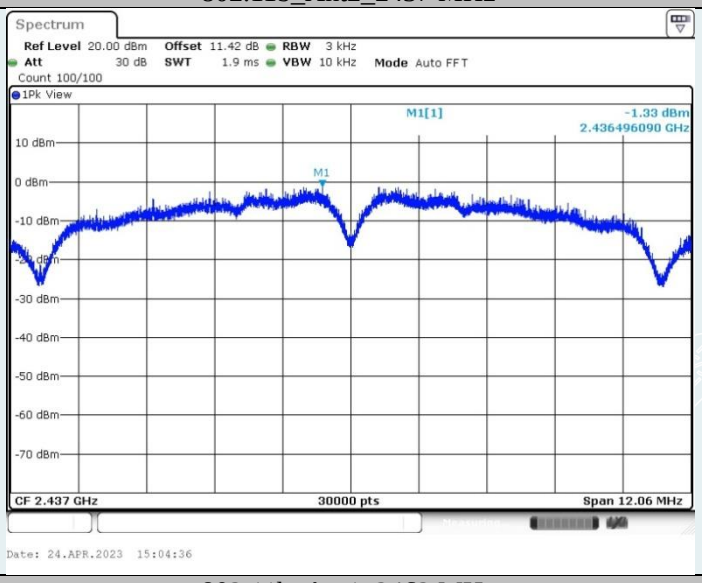
802.11b_Ant2_2412 MHz



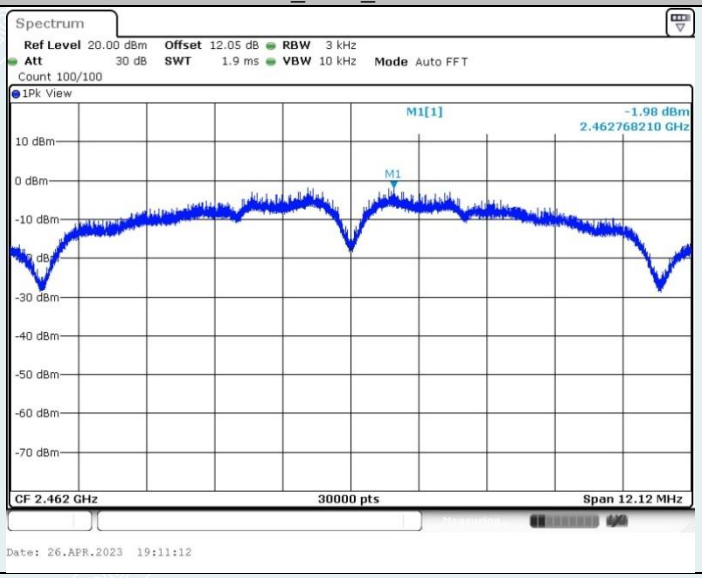
802.11b_Ant1_2437 MHz



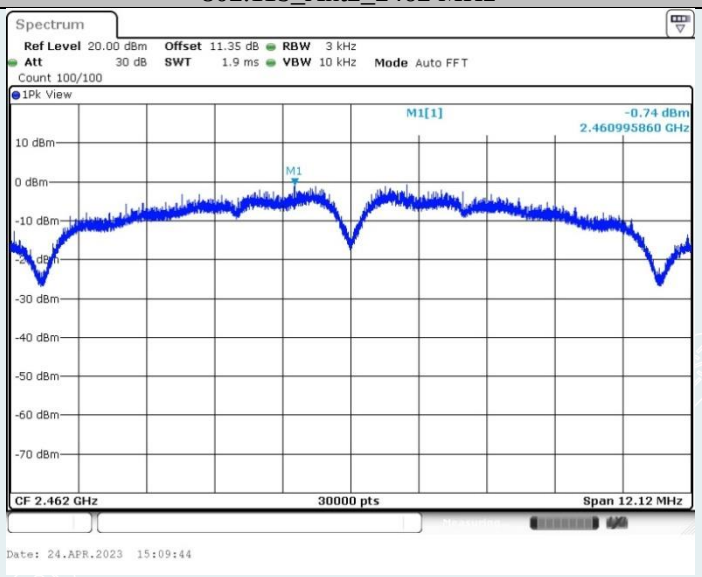
802.11b_Ant2_2437 MHz



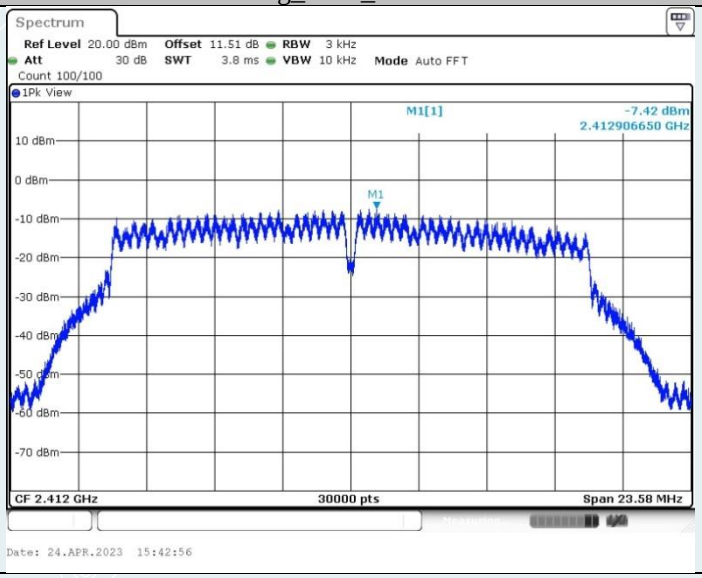
802.11b_Ant1_2462 MHz



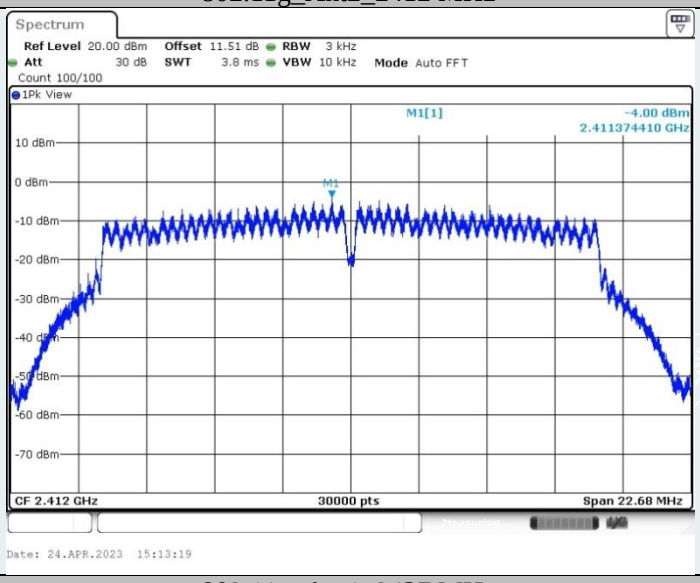
802.11b_Ant2_2462 MHz



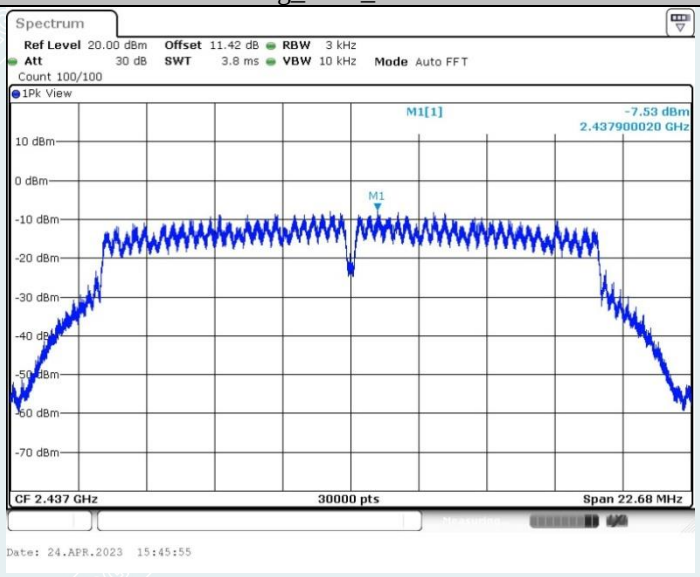
802.11g_Ant1_2412 MHz



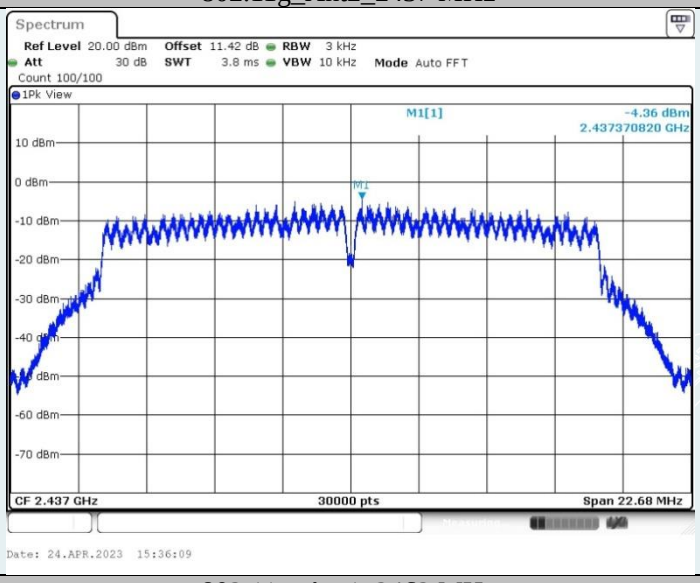
802.11g_Ant2_2412 MHz



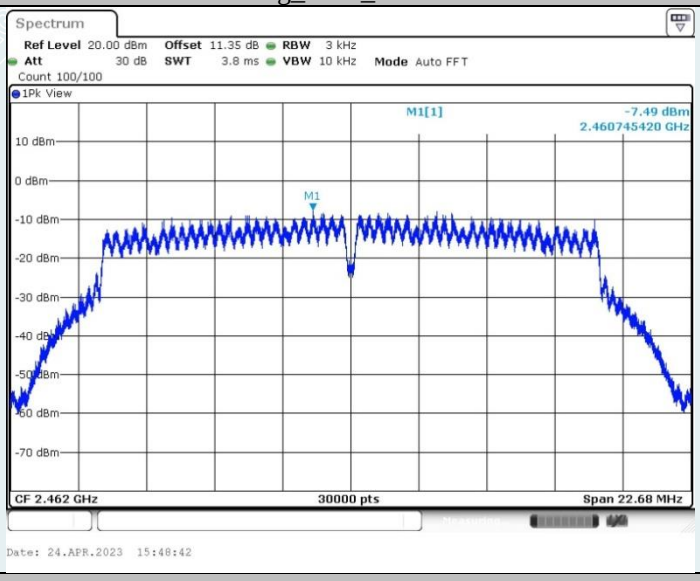
802.11g_Ant1_2437 MHz



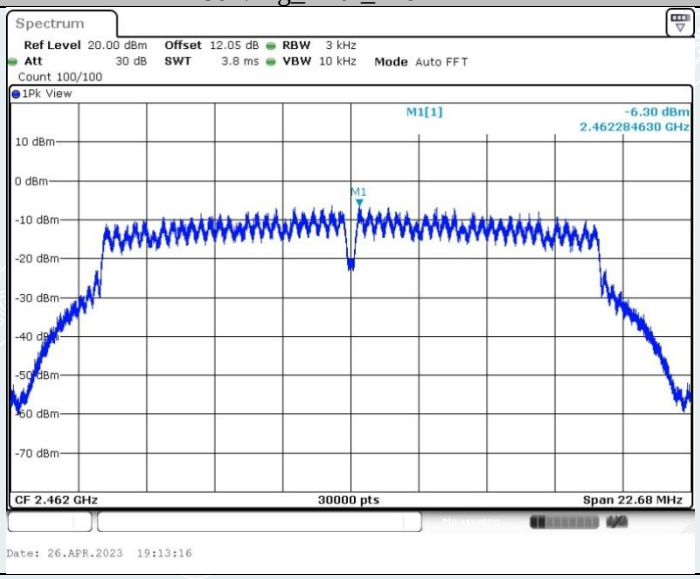
802.11g_Ant2_2437 MHz



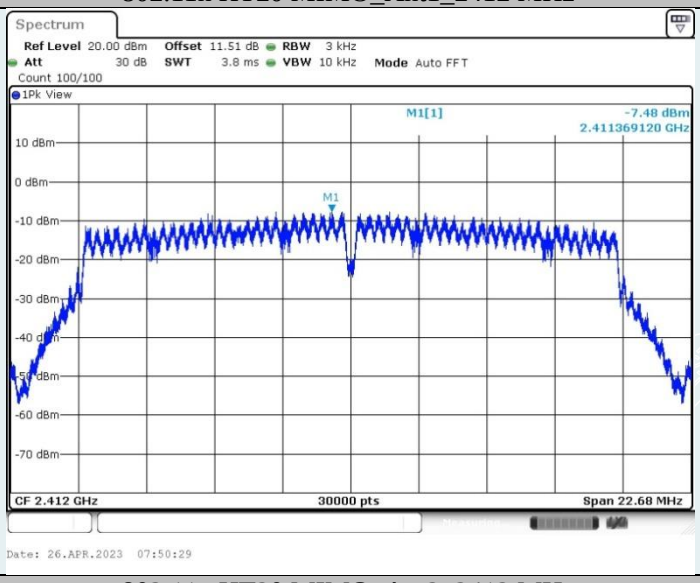
802.11g_Ant1_2462 MHz



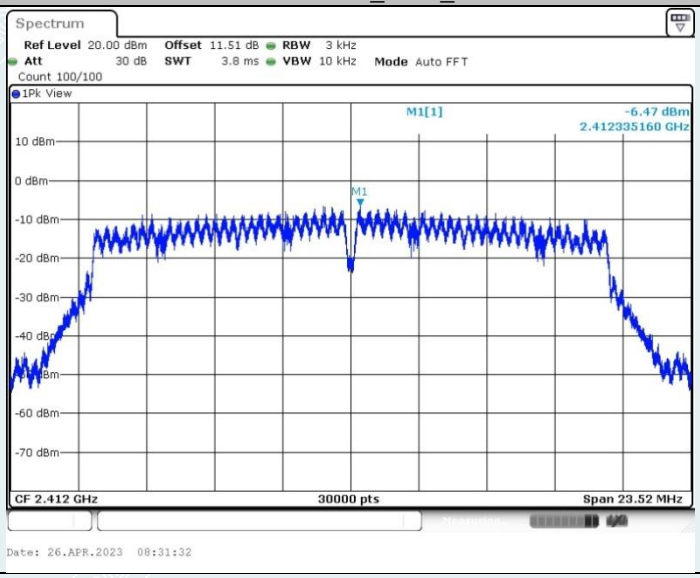
802.11g_Ant2_2462 MHz



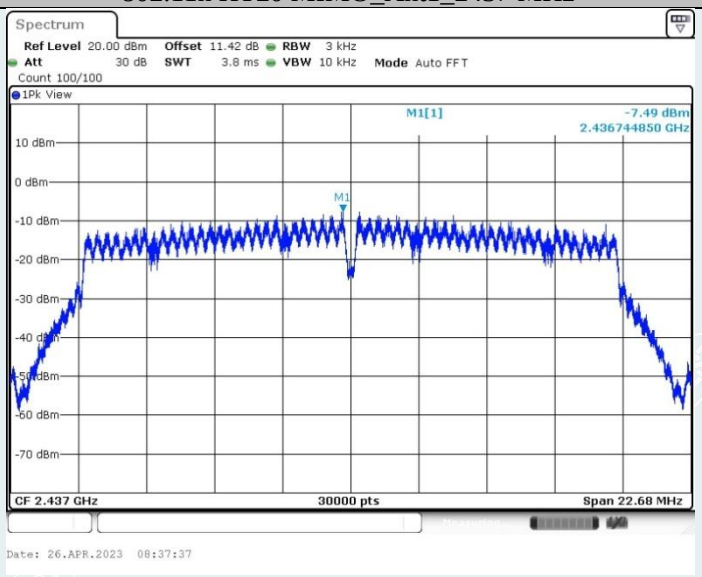
802.11n HT20 MIMO_Ant1_2412 MHz



802.11n HT20 MIMO_Ant2_2412 MHz



802.11n HT20 MIMO_Ant1_2437 MHz



802.11n HT20 MIMO_Ant2_2437 MHz