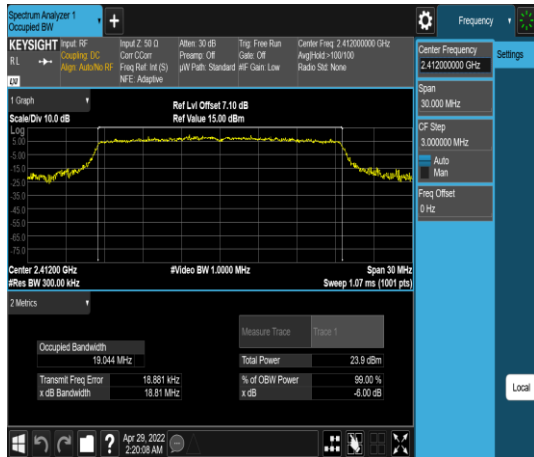


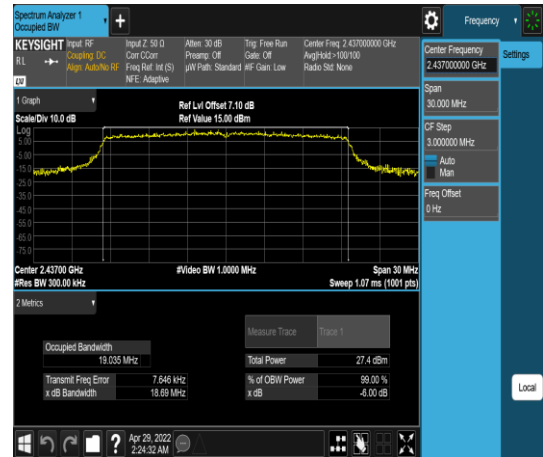
Report No.: TMWK2201000110KR

IEEE 802.11 ax (HE20) mode- chain 1

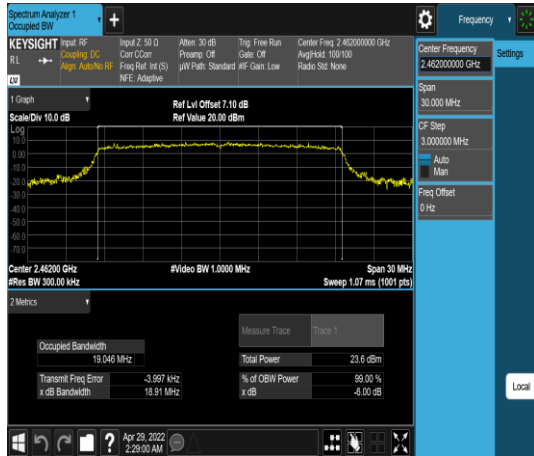
Low CH full



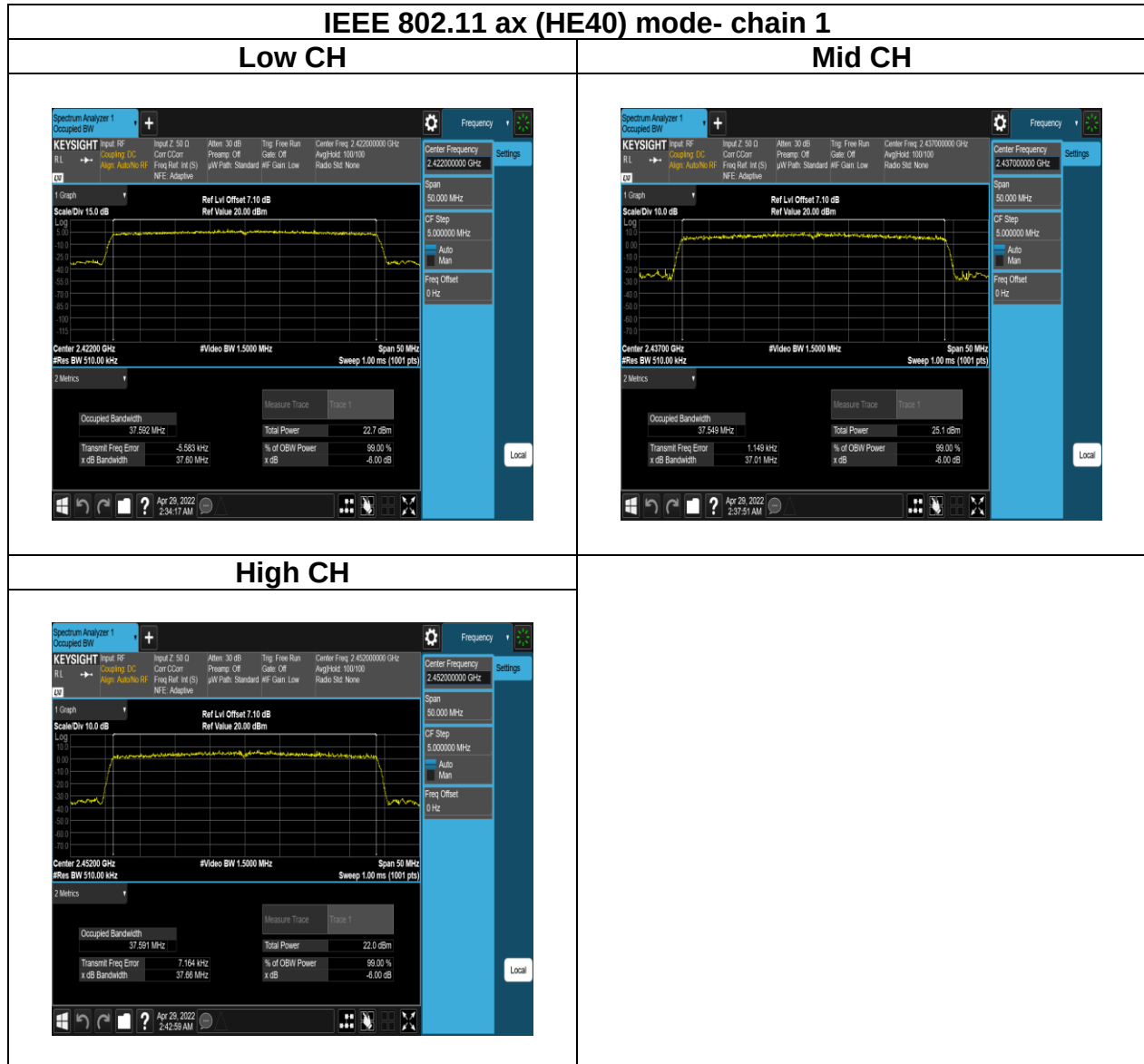
Mid CH full



High CH full



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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b),

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	☐ Antenna not exceed 6 dBi : 30dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] ☐ Point-to-point operation :
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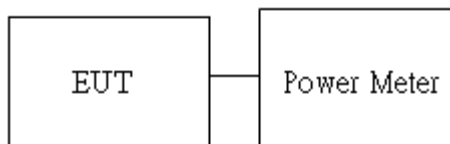
Average output power : For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



4.3.4 Test Result

BFM OFF

Temperature: 16.5 ~ 25.3°C

Test date: February 11 ~ May 18, 2022

Humidity: 46 ~ 68% RH

Tested by: Jack Chen

Peak output power :

Test Mode: IEEE 802.11b Mode

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	15.5	20.46	20.16	23.32	30.00	PASS
6	2437	1	16	20.12	20.02	23.08	30.00	PASS
11	2462	1	17	20.96	20.24	23.63	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	15.5	25.41	25.14	28.29	30.00	PASS
6	2437	6	18	25.95	25.62	28.80	30.00	PASS
11	2462	6	16	24.79	24.13	27.48	30.00	PASS

Test Mode: IEEE 802.11n HT 20 MHz Mode

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	15	25.29	25.15	28.23	30.00	PASS
6	2437	MCS8	18.5	25.92	25.64	28.79	30.00	PASS
11	2462	MCS8	16.5	25.70	24.05	27.96	30.00	PASS



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Test Mode: IEEE 802.11n HT 40 MHz Mode

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	24.14	23.98	27.07	30.00	PASS
4	2427	MCS8	14.5	24.52	24.24	27.39	30.00	PASS
5	2432	MCS8	16	25.26	25.22	28.25	30.00	PASS
6	2437	MCS8	17	25.62	25.19	28.42	30.00	PASS
7	2442	MCS8	16.5	25.22	24.81	28.03	30.00	PASS
8	2447	MCS8	15	24.57	23.64	27.14	30.00	PASS
9	2452	MCS8	14	24.13	23.05	26.63	30.00	PASS

Test Mode: IEEE 802.11 ac (VHT20) MHz Mode

802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	15	25.32	25.24	28.29	30.00	PASS
6	2437	MCS8	18.5	26.13	25.71	28.94	30.00	PASS
11	2462	MCS8	16.5	25.81	25.37	28.61	30.00	PASS



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Test Mode: IEEE 802.11 ac (VHT40) MHz Mode

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	24.19	24.12	27.17	30.00	PASS
4	2427	MCS8	14.5	25.11	24.14	27.66	30.00	PASS
5	2432	MCS8	16	25.41	25.14	28.29	30.00	PASS
6	2437	MCS8	17	25.71	25.10	28.43	30.00	PASS
7	2442	MCS8	16.5	25.67	25.00	28.36	30.00	PASS
8	2447	MCS8	15	24.50	24.17	27.35	30.00	PASS
9	2452	MCS8	14	23.97	23.38	26.70	30.00	PASS

Test Mode: IEEE 802.11 ax (HE20) MHz Mode

802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	14.5	25.20	25.01	28.12	30.00	PASS
			26/0	17.5	21.42	21.28	24.36	30.00	PASS
			52/37	16.5	19.66	19.60	22.64	30.00	PASS
			106/53	13.5	20.42	20.29	23.37	30.00	PASS
2	2417	MCS0	full	18.5	26.23	25.72	28.99	30.00	PASS
3	2422	MCS0	full	18.5	26.30	25.86	29.10	30.00	PASS
6	2437	MCS0	full	18.5	26.16	25.64	28.92	30.00	PASS
			26/0	21	23.86	23.40	26.65	30.00	PASS
			26/8	21	23.00	22.88	25.95	30.00	PASS
			52/37	20	22.43	22.03	25.24	30.00	PASS
			52/40	20	22.61	22.14	25.39	30.00	PASS
			106/53	18.5	25.22	24.16	27.73	30.00	PASS
			106/54	18.5	25.20	24.29	27.78	30.00	PASS
9	2452	MCS0	full	18.5	26.02	25.59	28.82	30.00	PASS
10	2457	MCS0	full	17	25.71	24.81	28.29	30.00	PASS
11	2462	MCS0	full	15	24.04	23.13	26.62	30.00	PASS
			26/8	18.5	20.61	19.80	23.23	30.00	PASS
			52/40	17	19.26	18.70	22.00	30.00	PASS
			106/54	15	21.17	20.83	24.01	30.00	PASS



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Test Mode: IEEE 802.11 ax (HE40) MHz Mode

802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	13	23.91	23.56	26.75	30.00	PASS
			242/61	14.5	23.19	22.53	25.88	30.00	PASS
4	2427	MCS0	full	14	25.11	24.65	27.90	30.00	PASS
5	2432	MCS0	full	15	25.10	25.07	28.10	30.00	PASS
6	2437	MCS0	full	16	25.29	24.83	28.08	30.00	PASS
			242/61	17	24.74	24.13	27.46	30.00	PASS
			242/62	17	24.54	24.35	27.46	30.00	PASS
7	2442	MCS0	full	16	25.24	24.71	27.99	30.00	PASS
8	2447	MCS0	full	14.5	24.21	23.77	27.01	30.00	PASS
9	2452	MCS0	full	13	22.83	22.79	25.82	30.00	PASS
			242/62	14.5	22.26	22.03	25.16	30.00	PASS

Average output power :

Test Mode: IEEE 802.11b Mode

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	15.5	18.01	17.64	20.87	30.00	PASS
6	2437	1	16	17.61	17.46	20.58	30.00	PASS
11	2462	1	17	18.30	17.74	21.07	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	15.5	16.16	15.82	19.18	30.00	PASS
6	2437	6	18	18.01	17.87	21.13	30.00	PASS
11	2462	6	16	15.61	15.44	18.72	30.00	PASS

Test Mode: IEEE 802.11n HT 20 MHz Mode

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	15	15.55	15.24	18.60	30.00	PASS
6	2437	MCS8	18.5	18.16	18.14	21.35	30.00	PASS
11	2462	MCS8	16.5	15.99	15.33	18.87	30.00	PASS



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Test Mode: IEEE 802.11n HT 40 MHz Mode

802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	13.58	13.33	16.84	30.00	PASS
4	2427	MCS8	14.5	14.52	14.38	17.83	30.00	PASS
5	2432	MCS8	16	15.98	15.85	19.30	30.00	PASS
6	2437	MCS8	17	16.45	16.41	19.81	30.00	PASS
7	2442	MCS8	16.5	15.92	15.79	19.24	30.00	PASS
8	2447	MCS8	15	14.27	14.23	17.63	30.00	PASS
9	2452	MCS8	14	13.21	13.19	16.58	30.00	PASS

Test Mode: IEEE 802.11 ac (VHT20) MHz Mode

802.11ac_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	15	15.58	15.30	18.64	30.00	PASS
6	2437	MCS8	18.5	18.35	18.19	21.47	30.00	PASS
11	2462	MCS8	16.5	16.02	15.31	18.88	30.00	PASS



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Test Mode: IEEE 802.11 ac (VHT40) MHz Mode

802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	13.57	13.39	16.86	30.00	PASS
4	2427	MCS8	14.5	14.55	14.42	17.87	30.00	PASS
5	2432	MCS8	16	16.01	15.92	19.35	30.00	PASS
6	2437	MCS8	17	16.49	16.44	19.85	30.00	PASS
7	2442	MCS8	16.5	15.91	15.82	19.25	30.00	PASS
8	2447	MCS8	15	14.32	14.22	17.65	30.00	PASS
9	2452	MCS8	14	13.24	13.19	16.60	30.00	PASS

Test Mode: IEEE 802.11 ax (HE20) MHz Mode

802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	14.5	14.72	14.30	17.77	30.00	PASS
			26/0	17.5	6.90	6.88	10.14	30.00	PASS
			52/37	16.5	9.23	9.21	12.47	30.00	PASS
			106/53	13.5	9.70	9.65	12.93	30.00	PASS
2	2417	MCS0	full	18.5	18.64	18.43	21.79	30.00	PASS
3	2422	MCS0	full	18.5	18.54	18.39	21.72	30.00	PASS
6	2437	MCS0	full	18.5	17.80	17.74	21.02	30.00	PASS
			26/0	21	10.10	9.99	13.30	30.00	PASS
			26/8	21	10.29	9.79	13.30	30.00	PASS
			52/37	20	12.30	12.27	15.54	30.00	PASS
			52/40	20	12.65	12.10	15.63	30.00	PASS
			106/53	18.5	14.29	14.27	17.53	30.00	PASS
			106/54	18.5	14.53	14.18	17.61	30.00	PASS
9	2452	MCS0	full	18.5	17.71	17.62	20.92	30.00	PASS
10	2457	MCS0	full	17	16.17	16.02	19.35	30.00	PASS
11	2462	MCS0	full	15	14.05	13.46	17.02	30.00	PASS
			26/8	18.5	7.06	6.52	10.05	30.00	PASS
			52/40	17	8.97	8.41	11.95	30.00	PASS
			106/54	15	10.53	9.94	13.50	30.00	PASS



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Test Mode: IEEE 802.11 ax (HE40) MHz Mode

802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	13	13.20	13.10	16.60	30.00	PASS
			242/61	14.5	11.13	10.93	14.48	30.00	PASS
4	2427	MCS0	full	14	14.17	14.11	17.59	30.00	PASS
5	2432	MCS0	full	15	15.14	15.01	18.53	30.00	PASS
6	2437	MCS0	full	16	15.59	15.48	18.99	30.00	PASS
			242/61	17	13.11	13.01	16.51	30.00	PASS
			242/62	17	13.52	13.08	16.76	30.00	PASS
7	2442	MCS0	full	16	15.51	15.47	18.94	30.00	PASS
8	2447	MCS0	full	14.5	13.94	13.90	17.37	30.00	PASS
9	2452	MCS0	full	13	12.33	12.25	15.74	30.00	PASS
			242/62	14.5	10.79	10.51	14.10	30.00	PASS

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BFM ON

Temperature: 16.5 ~25.3℃

Test date: February 10 ~ May 18, 2022

Humidity: 46 ~ 68% RH

Tested by: Jack Chen

Peak output power :

Test Mode: IEEE 802.11 ac (VHT20) MHz Mode

802.11ac_VHT20M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	12	22.69	22.31	25.51	30.00	PASS
6	2437	MCS0	15.5	24.59	24.41	27.51	30.00	PASS
11	2462	MCS0	13.5	22.95	22.46	25.72	30.00	PASS

Test Mode: IEEE 802.11 ac (VHT40) MHz Mode

802.11ac_VHT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	10.5	21.53	21.32	24.44	30.00	PASS
4	2427	MCS0	11.5	22.15	22.06	25.12	30.00	PASS
5	2432	MCS0	13	23.14	22.76	25.96	30.00	PASS
6	2437	MCS0	14	23.65	23.06	26.38	30.00	PASS
7	2442	MCS0	13.5	22.81	22.77	25.80	30.00	PASS
8	2447	MCS0	12	21.97	21.35	24.68	30.00	PASS
9	2452	MCS0	11	20.96	20.55	23.77	30.00	PASS

Test Mode: IEEE 802.11 ax (HE20) MHz Mode

802.11ax_HE20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	11	21.97	21.57	24.78	30.00	PASS
2	2417	MCS0	full	15	24.82	24.33	27.59	30.00	PASS
3	2422	MCS0	full	15	24.62	24.41	27.53	30.00	PASS
6	2437	MCS0	full	15	24.58	24.46	27.53	30.00	PASS
9	2452	MCS0	full	15	24.44	24.06	27.26	30.00	PASS
10	2457	MCS0	full	13.5	23.42	23.05	26.25	30.00	PASS
11	2462	MCS0	full	11.5	20.88	20.65	23.78	30.00	PASS

Test Mode: IEEE 802.11 ax (HE40) MHz Mode

802.11ax_HE40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	10	20.89	20.55	23.73	30.00	PASS
4	2427	MCS0	full	11	21.72	21.63	24.69	30.00	PASS
5	2432	MCS0	full	12	22.56	22.47	25.53	30.00	PASS
6	2437	MCS0	full	13	22.77	22.68	25.74	30.00	PASS
7	2442	MCS0	full	13	22.73	22.65	25.70	30.00	PASS
8	2447	MCS0	full	11.5	21.51	21.22	24.38	30.00	PASS
9	2452	MCS0	full	10	20.04	19.75	22.91	30.00	PASS

Average output power :

Test Mode: IEEE 802.11 ac (VHT20) MHz Mode

802.11ac_VHT20M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS0	12	12.36	12.11	15.44	30.00	PASS
6	2437	MCS0	15.5	15.07	14.81	18.14	30.00	PASS
11	2462	MCS0	13.5	12.49	12.33	15.61	30.00	PASS

Test Mode: IEEE 802.11 ac (VHT40) MHz Mode

802.11ac_VHT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS0	10.5	10.41	10.11	13.64	30.00	PASS
4	2427	MCS0	11.5	11.37	11.11	14.62	30.00	PASS
5	2432	MCS0	13	12.91	12.57	16.12	30.00	PASS
6	2437	MCS0	14	13.34	13.02	16.56	30.00	PASS
7	2442	MCS0	13.5	12.81	12.55	16.06	30.00	PASS
8	2447	MCS0	12	11.22	10.89	14.44	30.00	PASS
9	2452	MCS0	11	10.21	9.78	13.38	30.00	PASS

Test Mode: IEEE 802.11 ax (HE20) MHz Mode

802.11ax_HE20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	11	11.42	11.13	14.53	30.00	PASS
2	2417	MCS0	full	15	15.51	14.98	18.50	30.00	PASS
3	2422	MCS0	full	15	15.54	15.01	18.53	30.00	PASS
6	2437	MCS0	full	15	14.81	14.33	17.83	30.00	PASS
9	2452	MCS0	full	15	14.64	14.26	17.70	30.00	PASS
10	2457	MCS0	full	13.5	13.05	12.66	16.11	30.00	PASS
11	2462	MCS0	full	11.5	10.77	10.46	13.87	30.00	PASS

Test Mode: IEEE 802.11 ax (HE40) MHz Mode

802.11ax_HE40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	10	10.02	9.53	13.23	30.00	PASS
4	2427	MCS0	full	11	11.12	10.65	14.34	30.00	PASS
5	2432	MCS0	full	12	12.04	11.52	15.24	30.00	PASS
6	2437	MCS0	full	13	12.42	12.07	15.70	30.00	PASS
7	2442	MCS0	full	13	12.52	12.07	15.75	30.00	PASS
8	2447	MCS0	full	11.5	10.88	10.53	14.16	30.00	PASS
9	2452	MCS0	full	10	9.26	8.85	12.51	30.00	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e),

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.

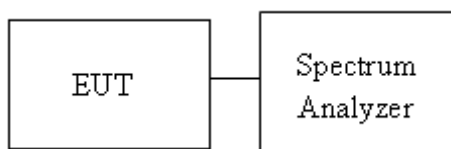
Limit	☐ Antenna not exceed 6 dBi : 8dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 8 – (DG – 6)] ☐ Point-to-point operation :
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4.4.2 Test Procedure

Test method Refer as ANSI C63.10:2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

BFM OFF

Temperature: 16.5 ~ 25.3°C

Test date: February 11 ~ May 18, 2022

Humidity: 46 ~ 68% RH

Tested by: Jack Chen

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.54	-4.82	-1.12	8.00	PASS
2437	-5.08	-4.51	-1.78	8.00	PASS
2462	-5.38	-4.56	-1.94	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.4	-8.9	-5.08	8.00	PASS
2437	-6.41	-5.33	-2.83	8.00	PASS
2462	-8.02	-8.11	-5.05	8.00	PASS

POWER DENSITY 802.11ac VHT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.06	-9.05	-5.52	8.00	PASS
2437	-6.29	-6.24	-3.25	8.00	PASS
2462	-9.52	-8.65	-6.05	8.00	PASS

POWER DENSITY 802.11ac VHT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-13.83	-14.58	-11.18	8.00	PASS
2427	-11.06	-13.23	-9.00	8.00	PASS
2432	-11.03	-11.6	-8.30	8.00	PASS
2437	-10.71	-10.9	-7.79	8.00	PASS
2442	-10.73	-11.66	-8.16	8.00	PASS
2447	-12.61	-13.35	-9.95	8.00	PASS
2452	-14.54	-14.61	-11.56	8.00	PASS



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POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-11.6	-10.22	-7.85	8.00	PASS
	26/0	-12.06	-11.63	-8.83	8.00	PASS
	52/37	-11.78	-11.29	-8.52	8.00	PASS
	106/53	-11.32	-12.17	-8.71	8.00	PASS
2417	full	-7.51	-7.05	-4.26	8.00	PASS
2422	full	-5.9	-7.55	-3.64	8.00	PASS
2437	full	-7.97	-7.93	-4.94	8.00	PASS
	26/0	-8.22	-7.9	-5.05	8.00	PASS
	26/8	-7.76	-8.28	-5.00	8.00	PASS
	52/37	-8.01	-7.92	-4.95	8.00	PASS
	52/40	-8.05	-7.92	-4.97	8.00	PASS
	106/53	-8.03	-8.06	-5.03	8.00	PASS
	106/54	-8.14	-8.13	-5.12	8.00	PASS
2452	full	-8.46	-6.76	-4.52	8.00	PASS
2457	full	-9.67	-9.52	-6.58	8.00	PASS
2462	full	-11.97	-10.65	-8.25	8.00	PASS
	26/8	-11.26	-11.74	-8.48	8.00	PASS
	52/40	-13.54	-11.26	-9.24	8.00	PASS
	106/54	-13.06	-10.77	-8.76	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-14.65	-15.35	-11.98	8.00	PASS
	242/61	-15.48	-15.03	-12.24	8.00	PASS
2427	full	-12.92	-14.23	-10.52	8.00	PASS
2432	full	-13.86	-13	-10.40	8.00	PASS
2437	full	-13.33	-12.38	-9.82	8.00	PASS
	242/61	-13.32	-12.53	-9.90	8.00	PASS
	242/62	-13.21	-12.76	-9.97	8.00	PASS
2442	full	-13.46	-13.6	-10.52	8.00	PASS
2447	full	-14.81	-14.35	-11.56	8.00	PASS
2452	full	-16.79	-16.89	-13.83	8.00	PASS
	242/62	-14.77	-14.99	-11.87	8.00	PASS

Report No.: TMWK2201000110KR

BFM ON

Temperature: 16.5 ~25.3°C

Test date: February 10 ~ May 18, 2022

Humidity: 46 ~ 68% RH

Tested by: Jack Chen

POWER DENSITY 802.11ac VHT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.59	-12.00	-8.78	8.00	PASS
2437	-9.19	-9.08	-6.12	8.00	PASS
2462	-11.89	-12.24	-9.05	8.00	PASS

POWER DENSITY 802.11ac VHT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-16.91	-17.15	-14.02	8.00	PASS
2427	-17.01	-16.10	-13.52	8.00	PASS
2432	-14.41	-13.39	-10.86	8.00	PASS
2437	-13.77	-13.84	-10.79	8.00	PASS
2442	-14.69	-14.71	-11.69	8.00	PASS
2447	-16.03	-15.64	-12.82	8.00	PASS
2452	-17.73	-17.02	-14.35	8.00	PASS

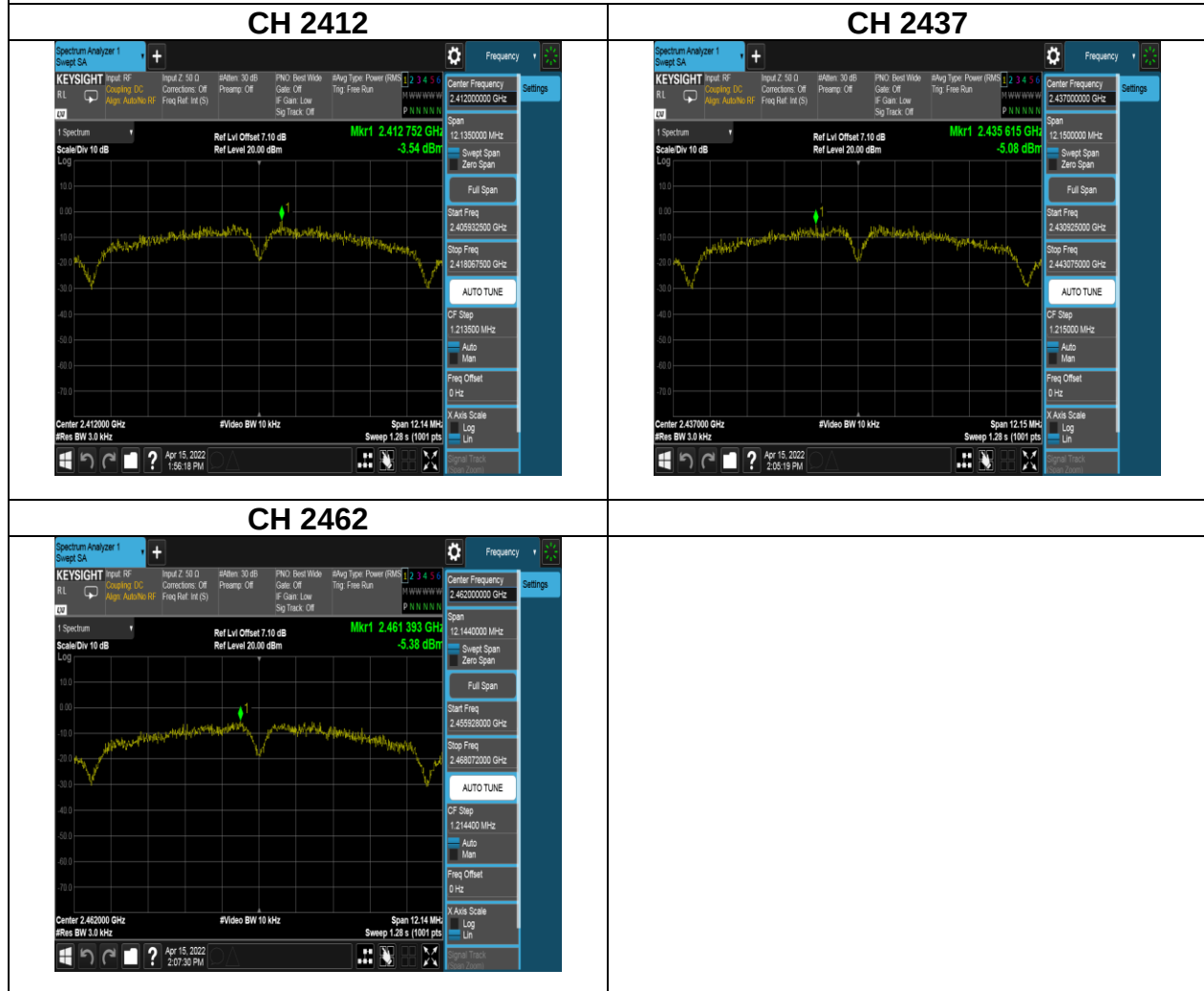
POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-13.90	-13.92	-10.90	8.00	PASS
2417	full	-10.80	-9.97	-7.35	8.00	PASS
2422	full	-10.63	-9.55	-7.05	8.00	PASS
2437	full	-8.94	-10.13	-6.48	8.00	PASS
2452	full	-10.72	-11.06	-7.88	8.00	PASS
2457	full	-12.30	-13.13	-9.68	8.00	PASS
2462	full	-14.49	-14.66	-11.56	8.00	PASS

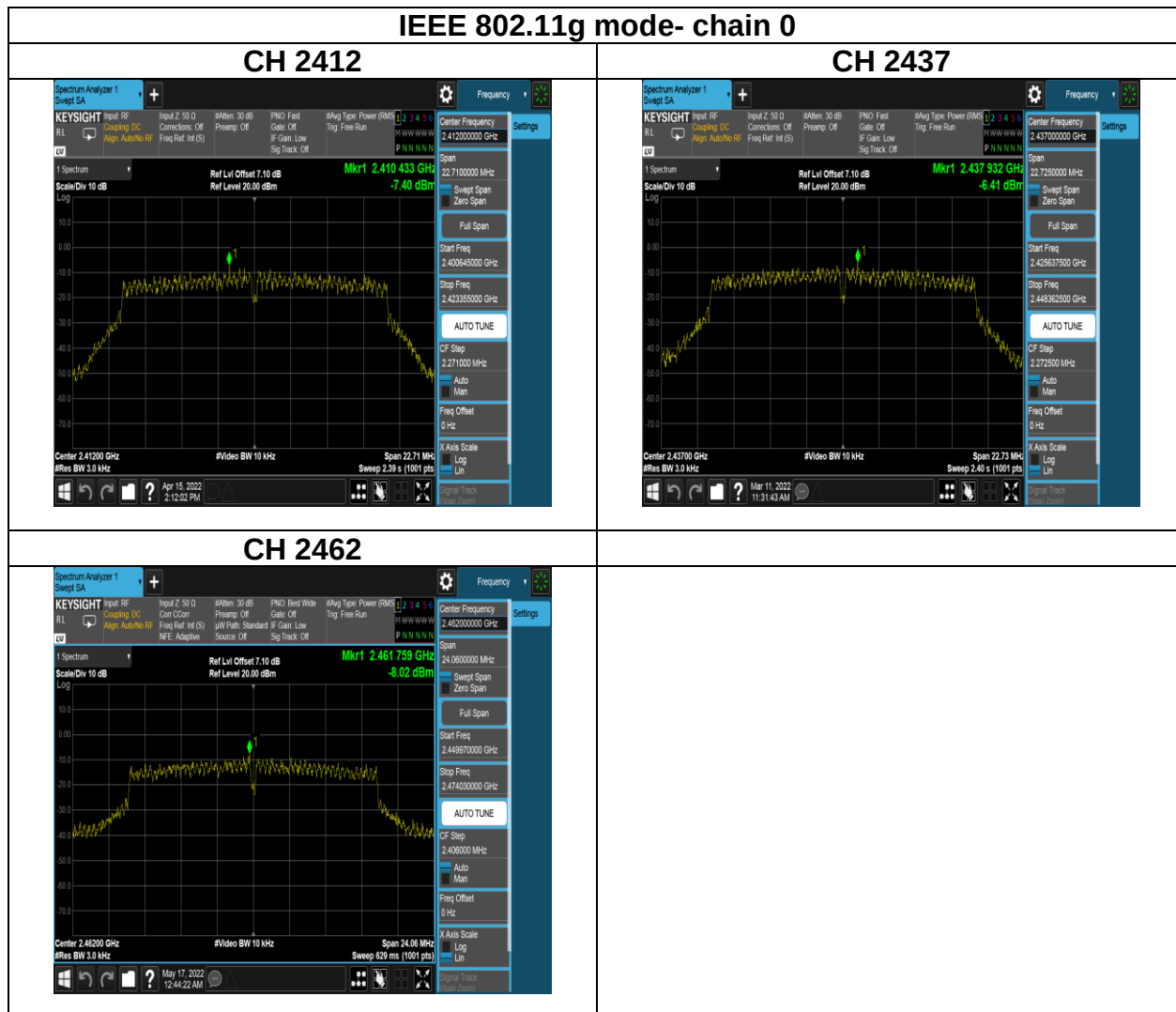
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Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-19.14	-17.78	-15.40	8.00	PASS
2427	full	-17.64	-16.84	-14.21	8.00	PASS
2432	full	-16.09	-16.12	-13.09	8.00	PASS
2437	full	-15.58	-15.61	-12.58	8.00	PASS
2442	full	-16.73	-15.08	-12.82	8.00	PASS
2447	full	-17.21	-17.39	-14.29	8.00	PASS
2452	full	-19.57	-19.00	-16.27	8.00	PASS

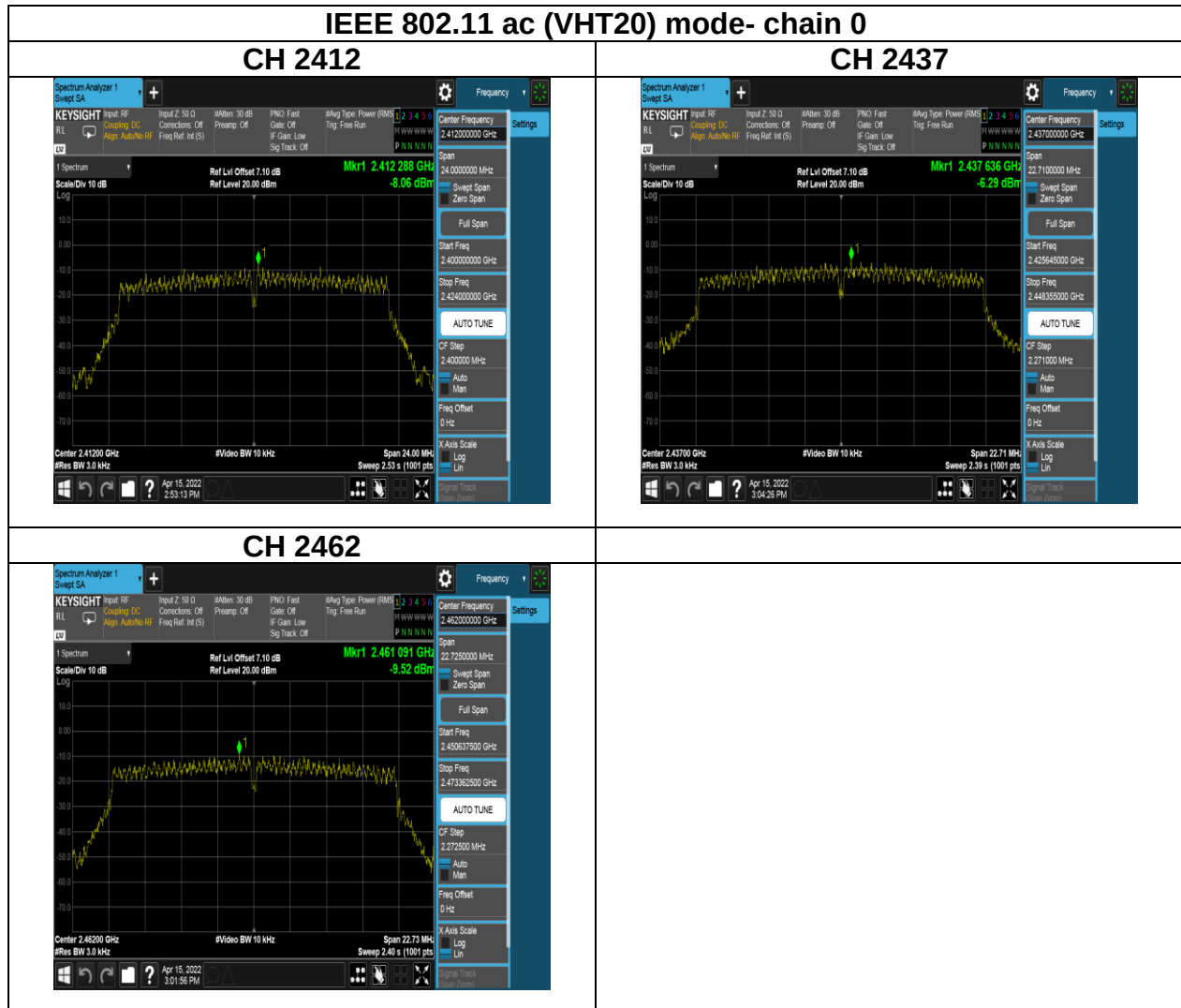
Test Data

BFM OFF

IEEE 802.11b mode- chain 0

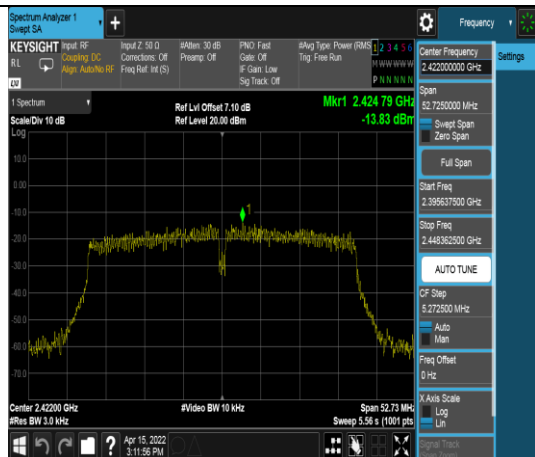




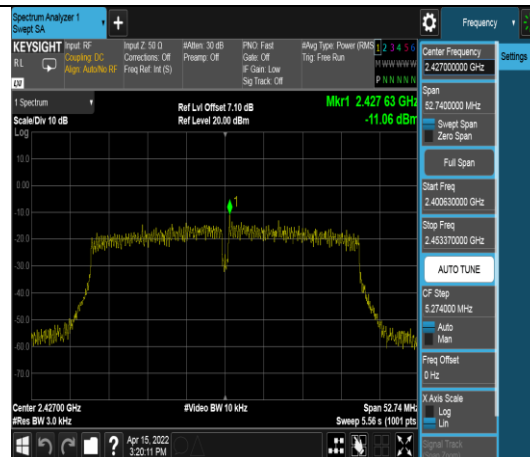


IEEE 802.11 ac (VHT40) mode- chain 0

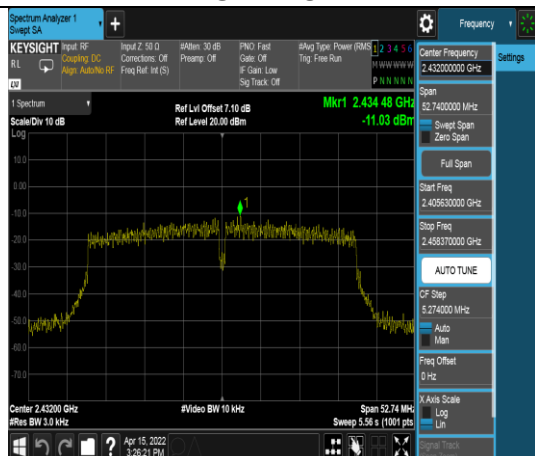
CH 2422



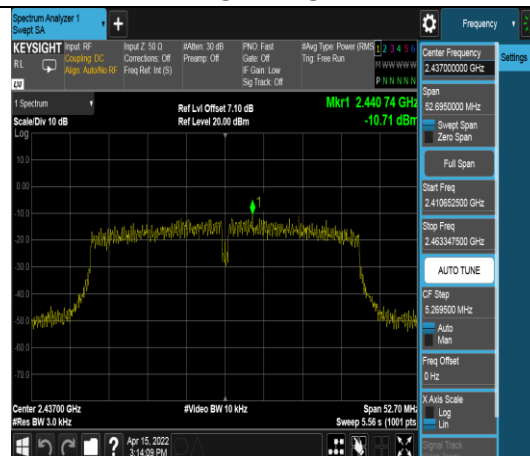
CH 2427

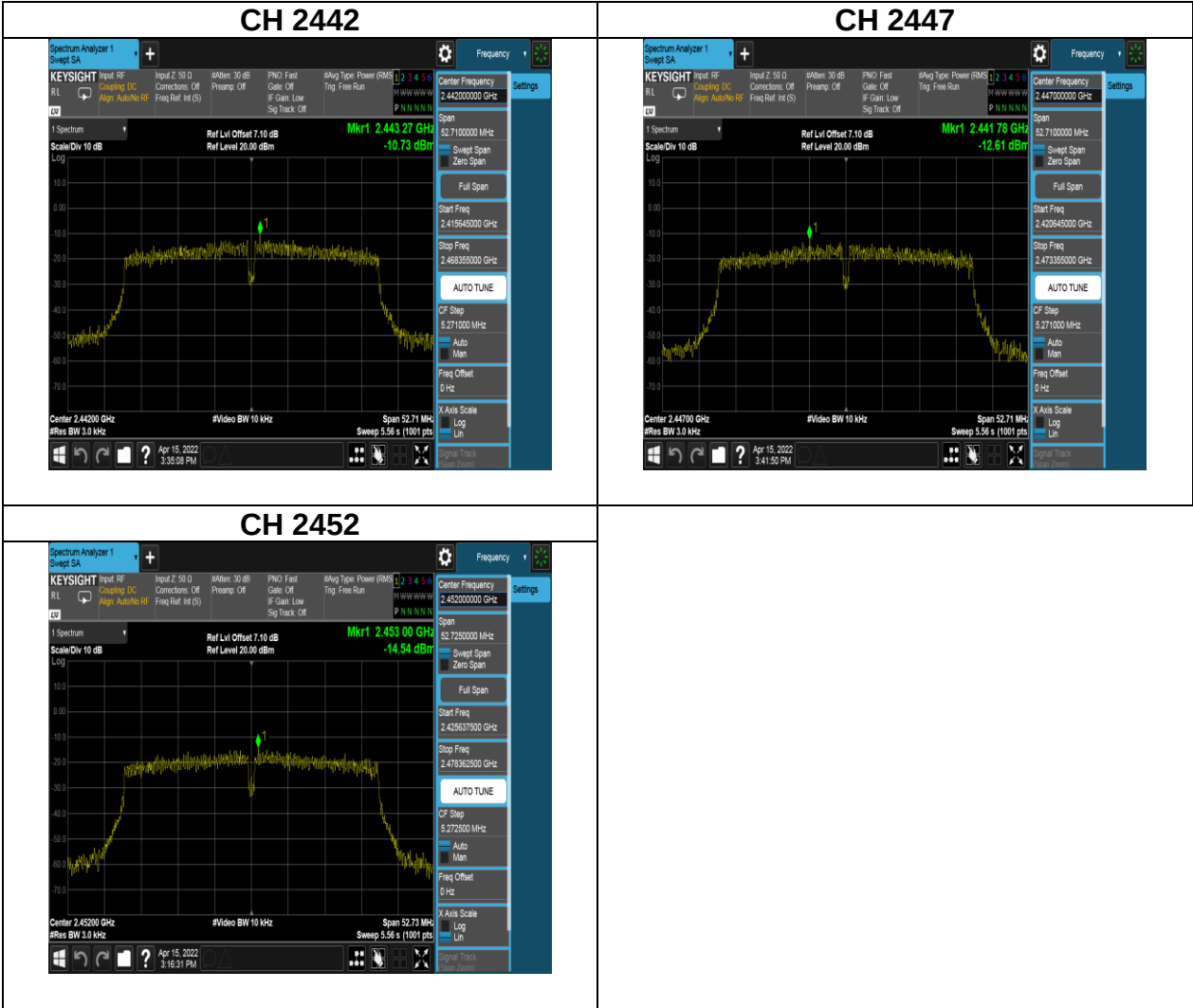


CH 2432



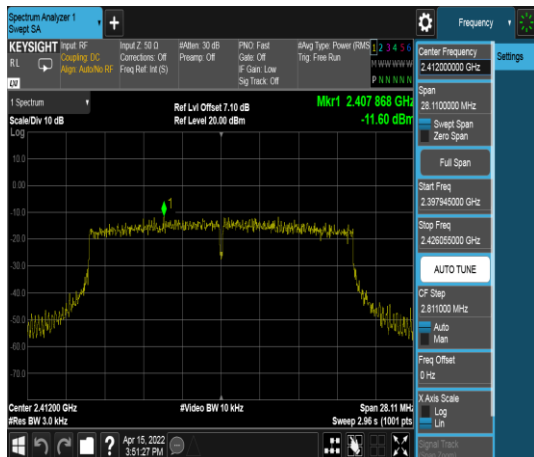
CH 2437



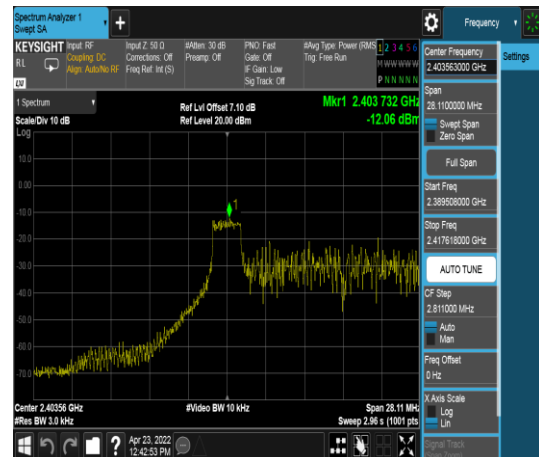


IEEE 802.11 ax (HE20) mode- chain 0

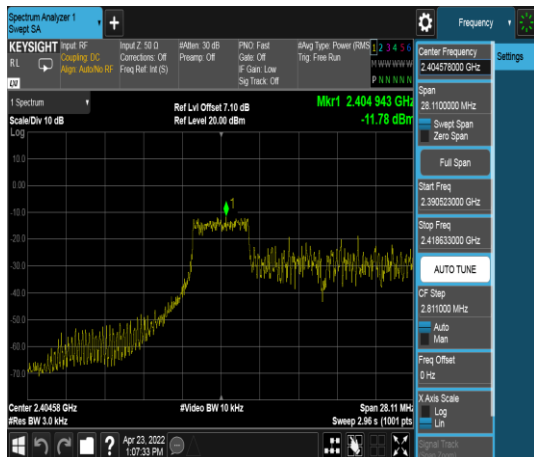
CH 2412 full



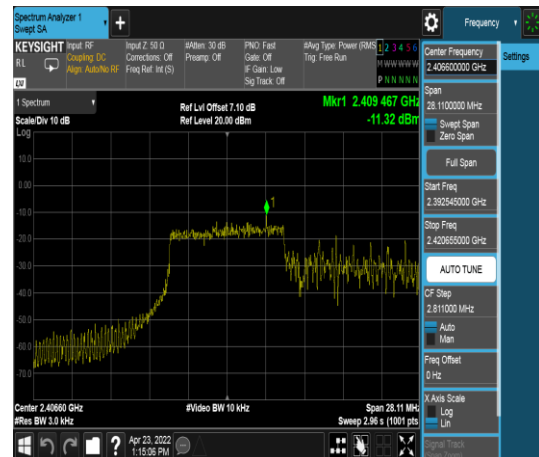
CH 2412 26/0



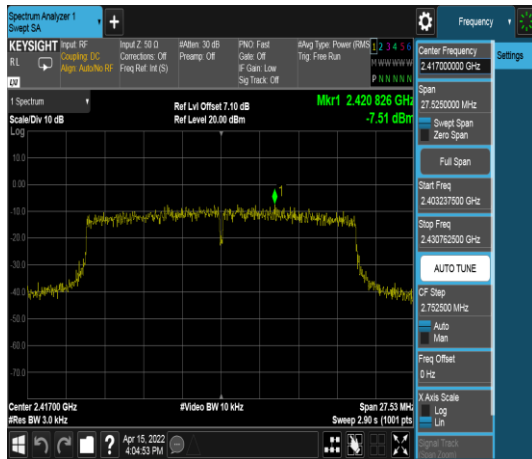
CH 2412 52/37



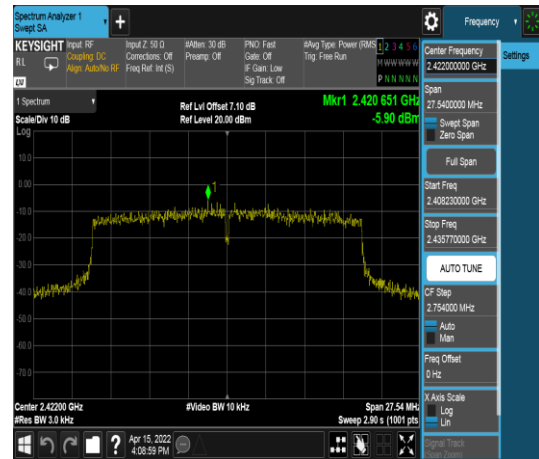
CH 2412 106/53



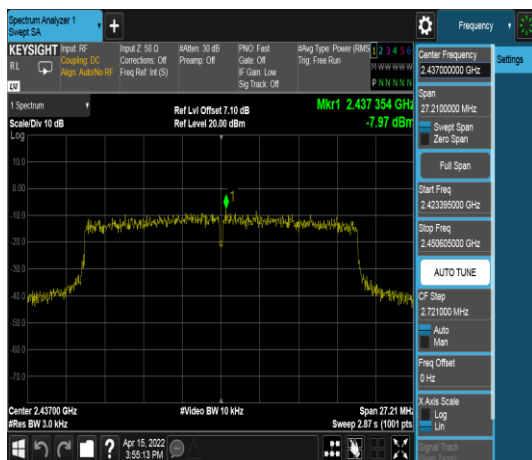
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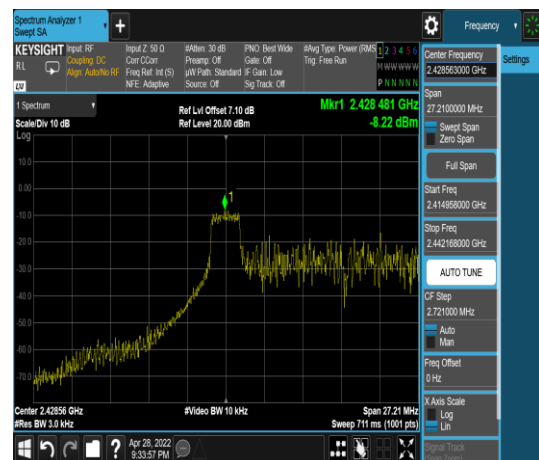
CH 2422
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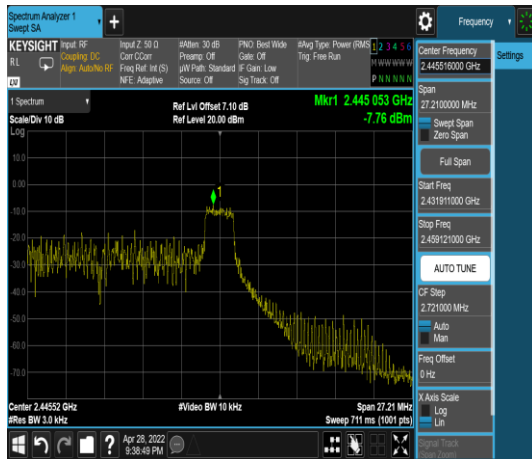
CH 2437
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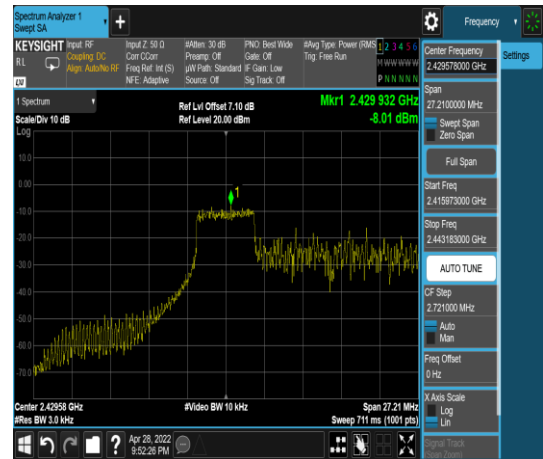
CH 2437
26/0



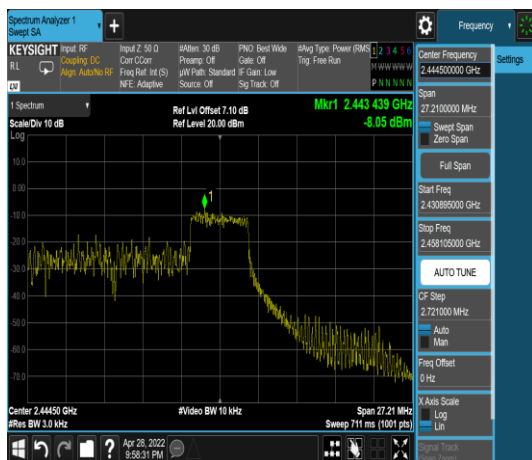
CH 2437
26/8



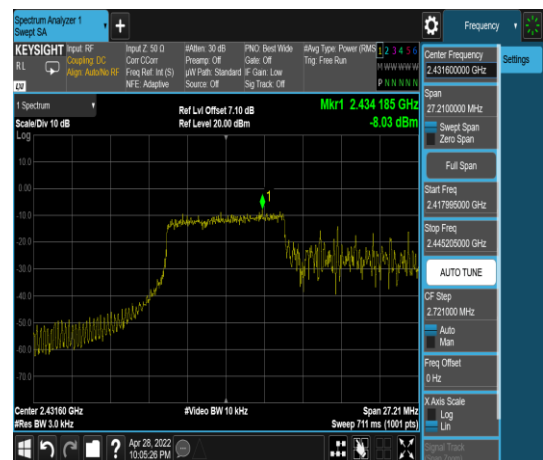
CH 2437
52/37



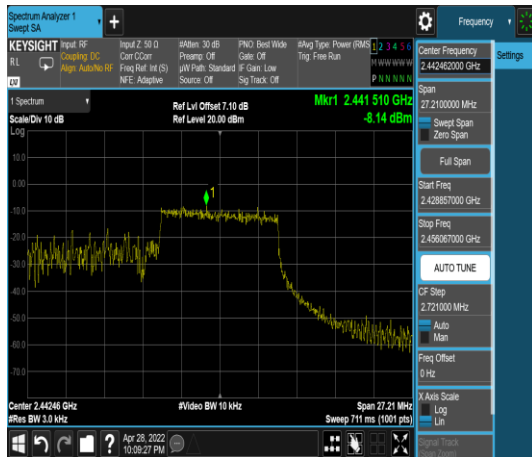
CH 2437
52/40



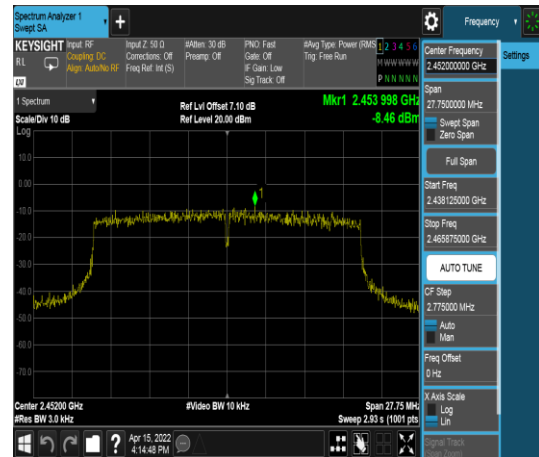
CH 2437
106/53



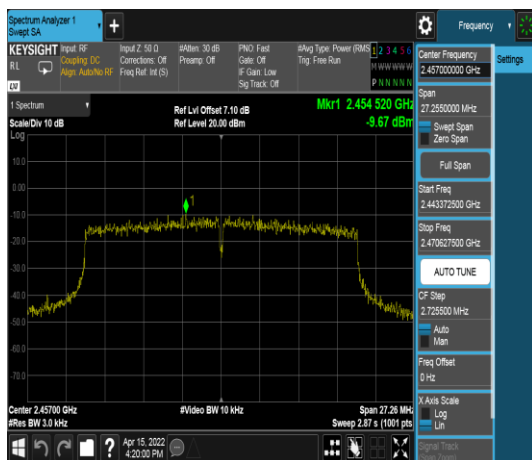
CH 2437
106/54



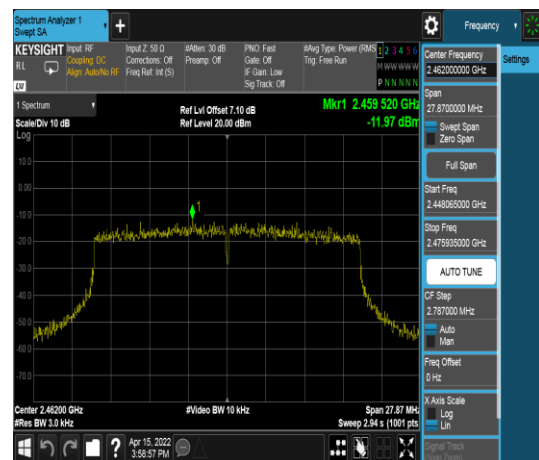
CH 2452
full

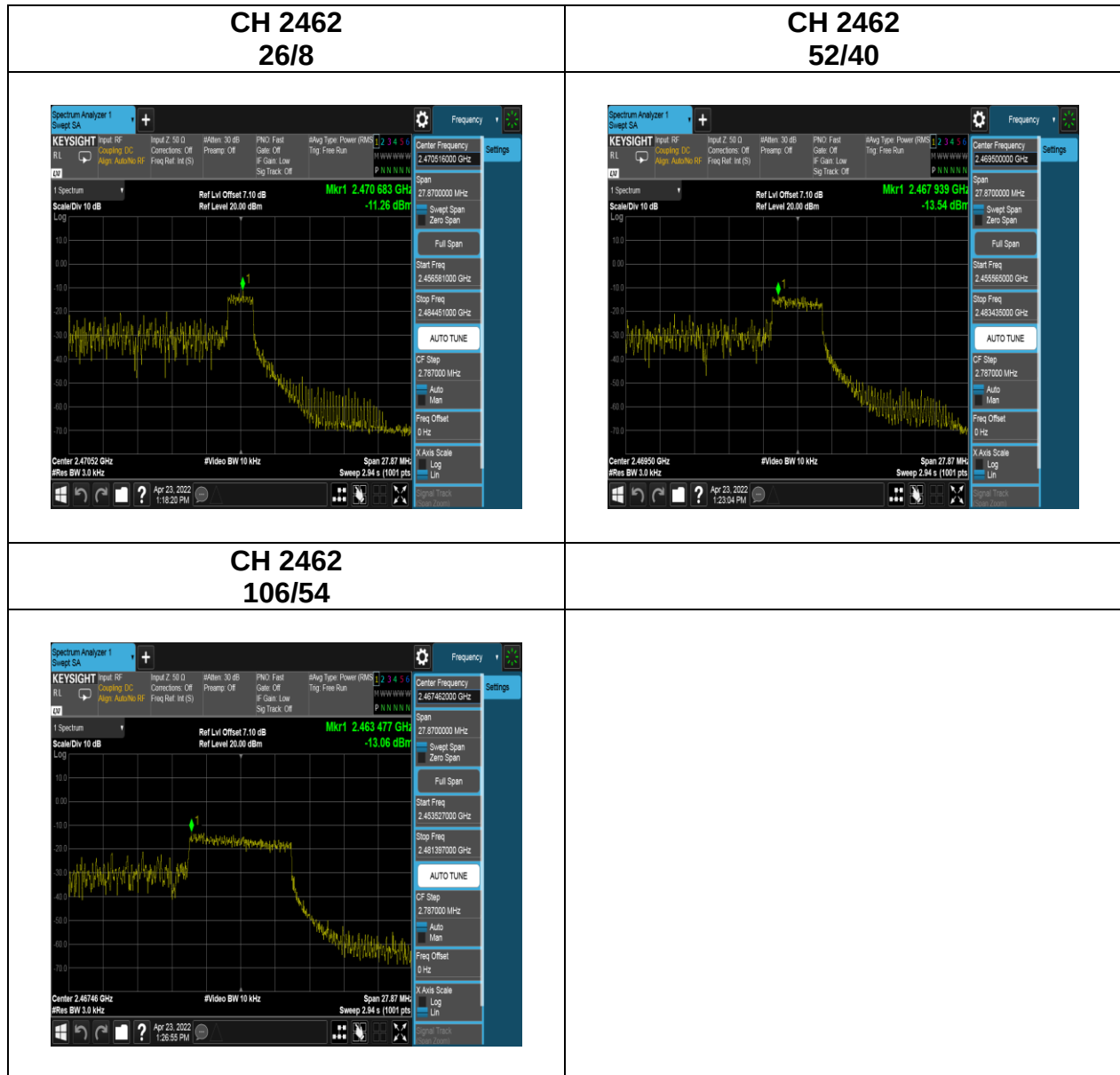


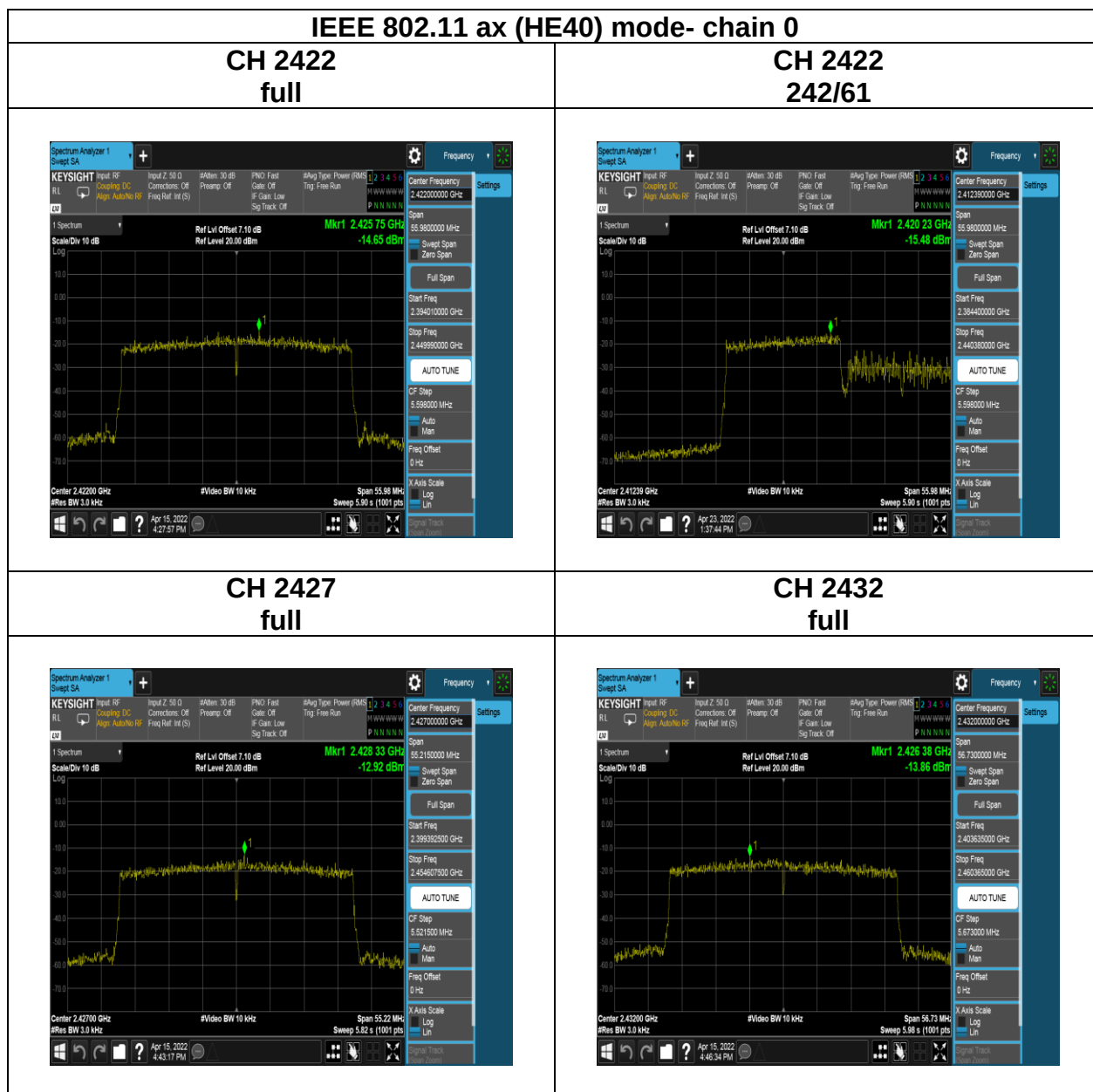
CH 2457
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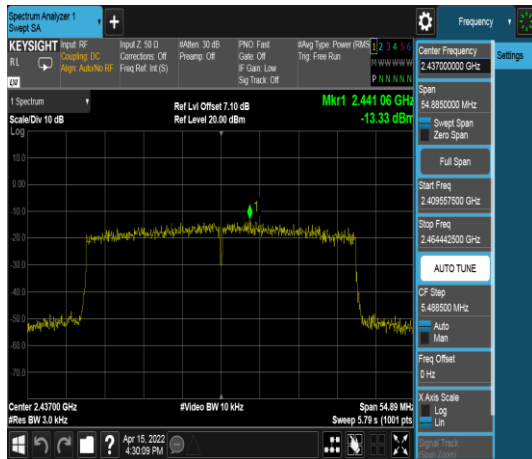
CH 2462
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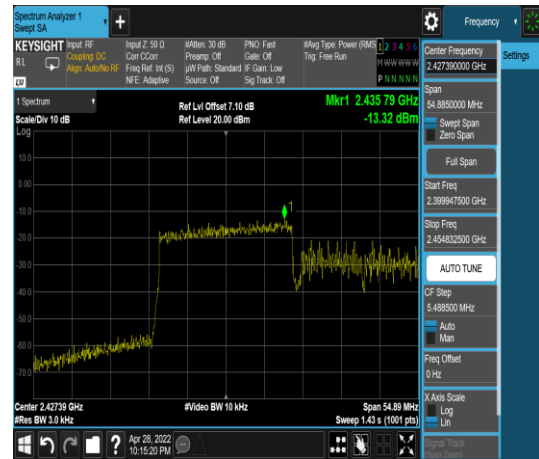




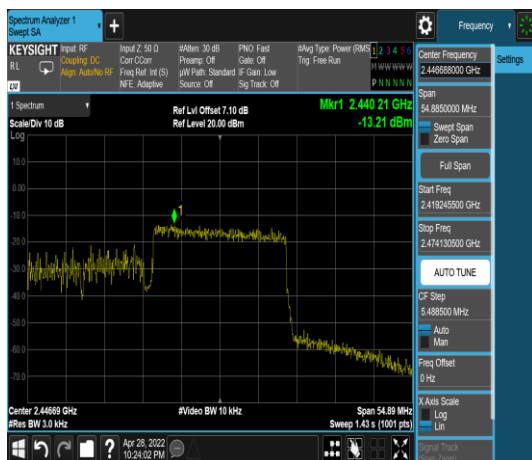
CH 2437 full



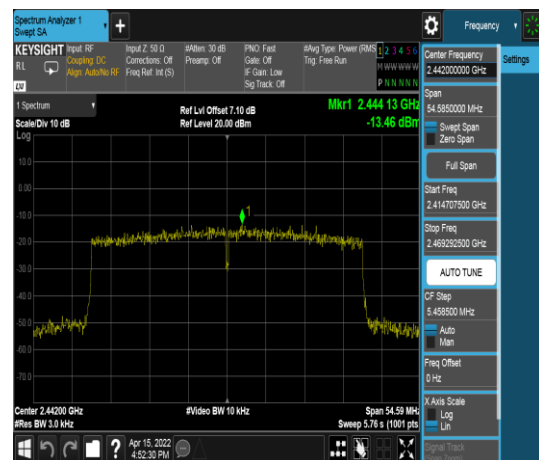
CH 2437 242/61

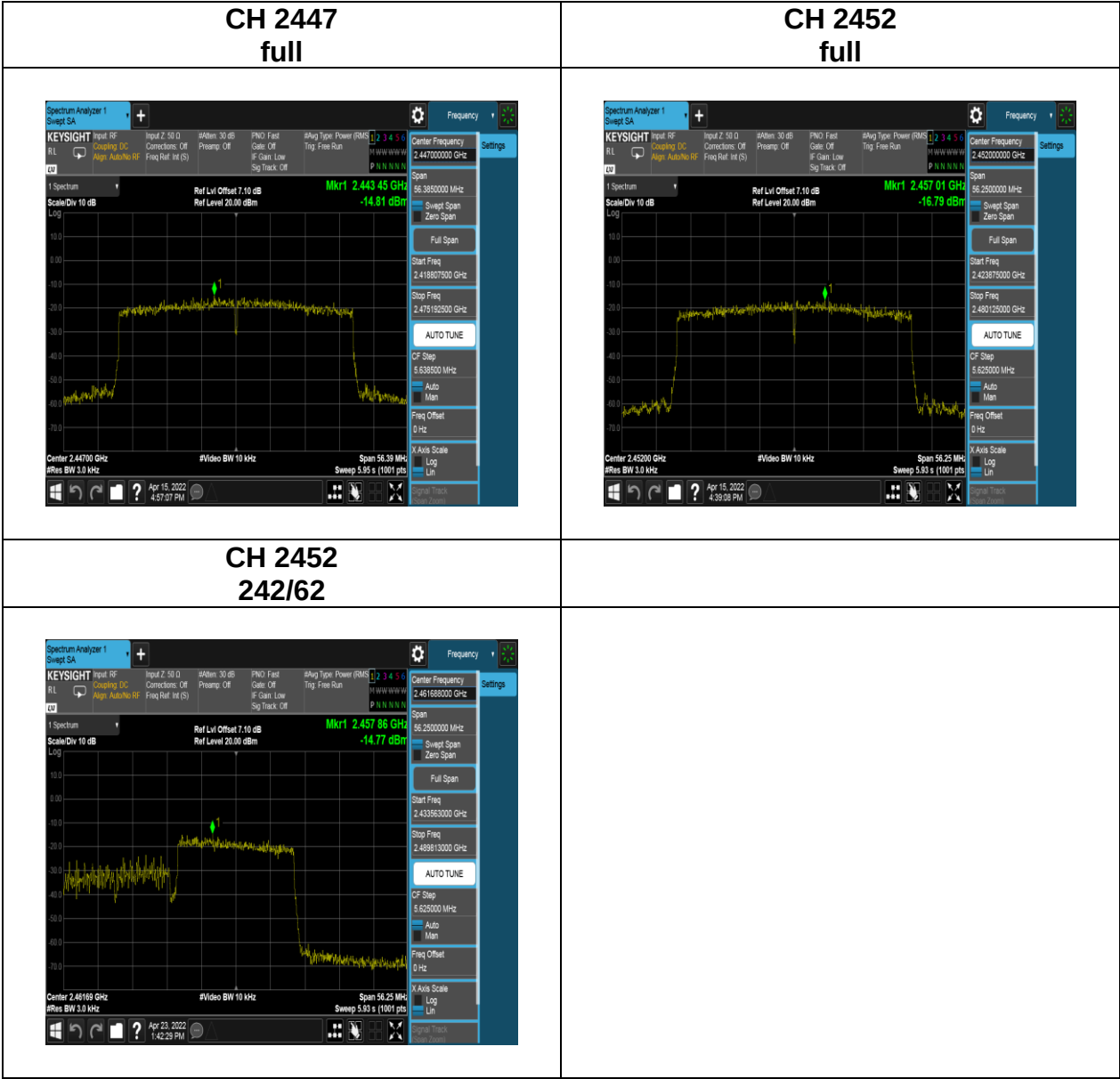


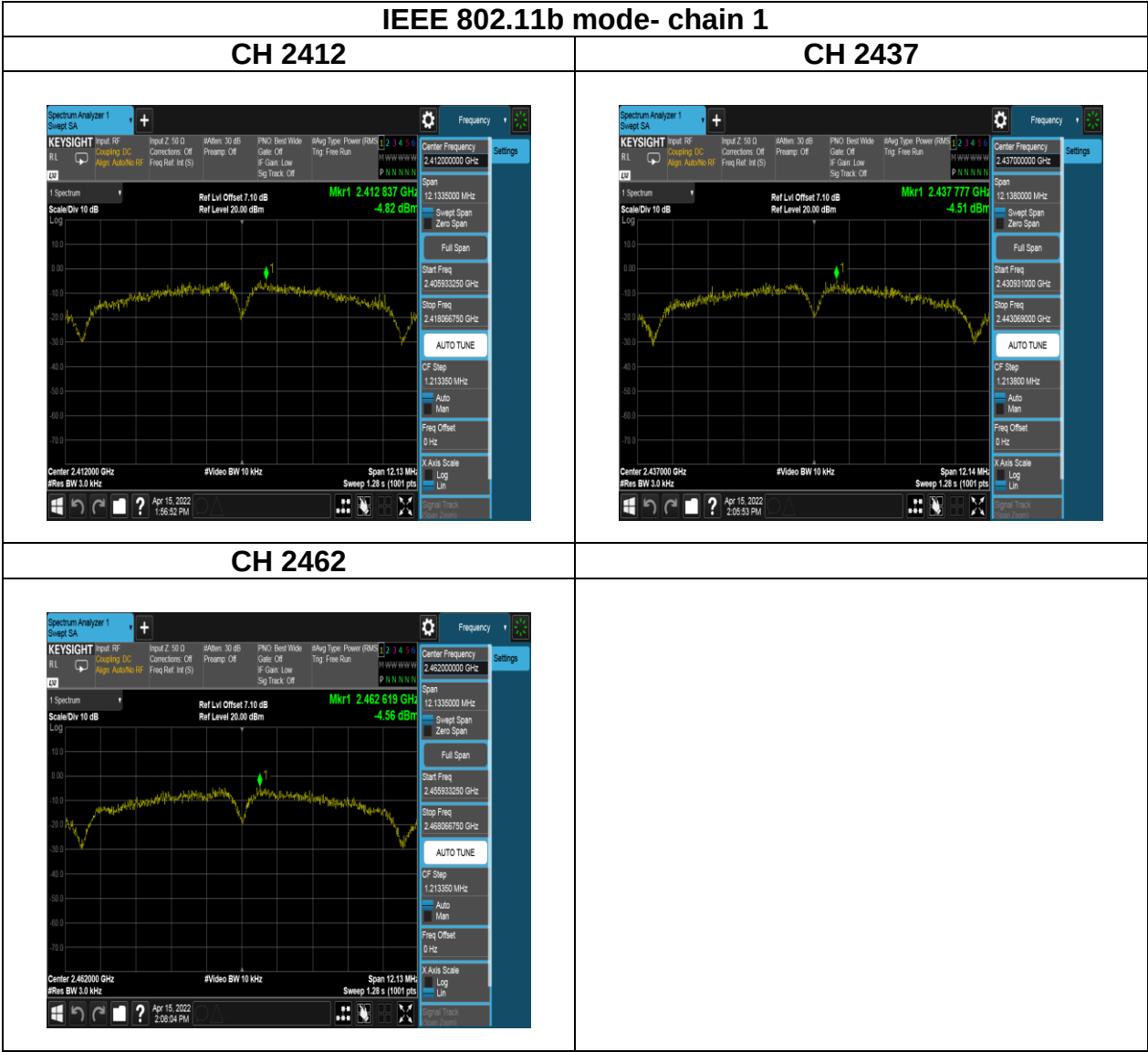
CH 2437 242/62

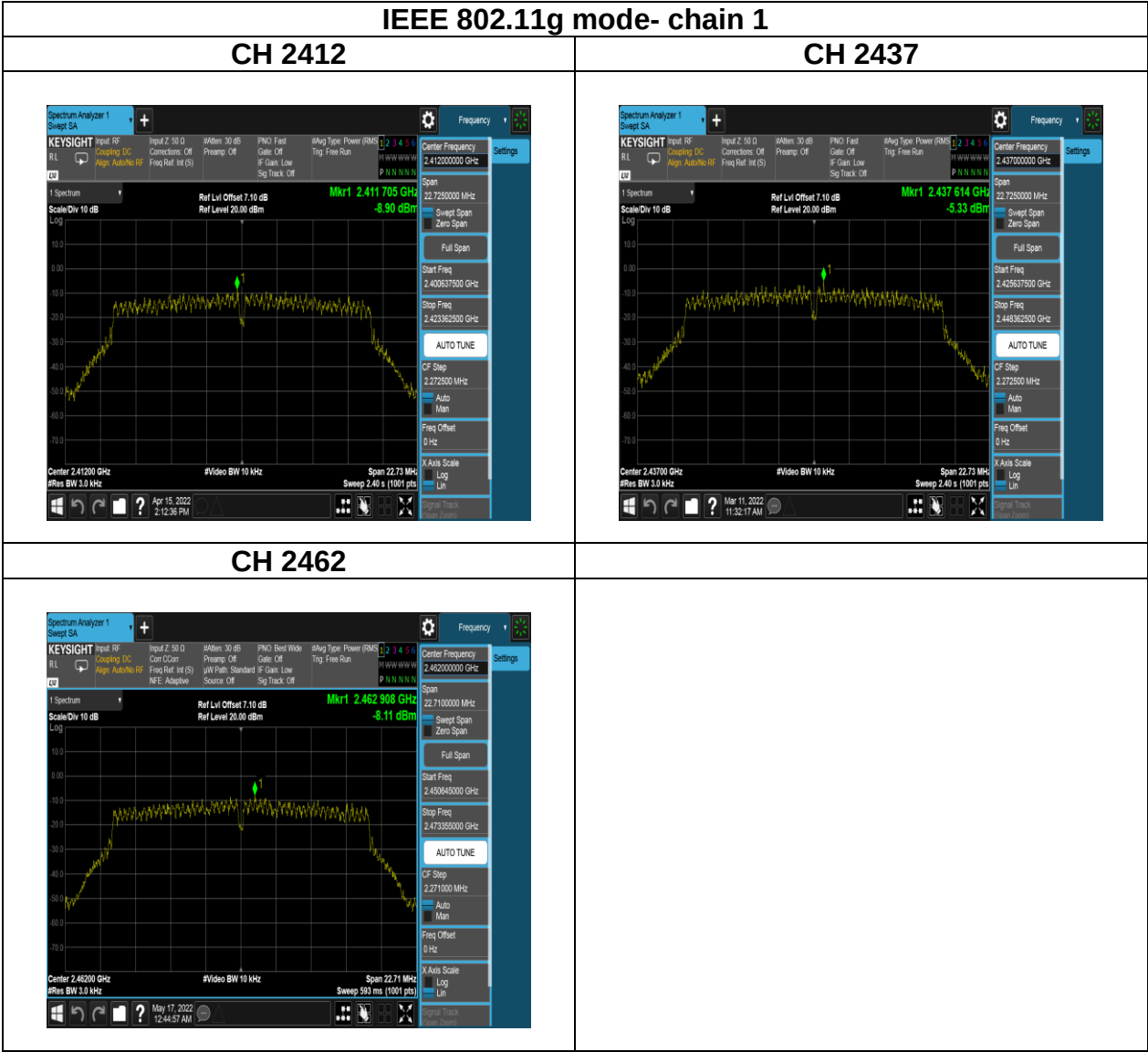


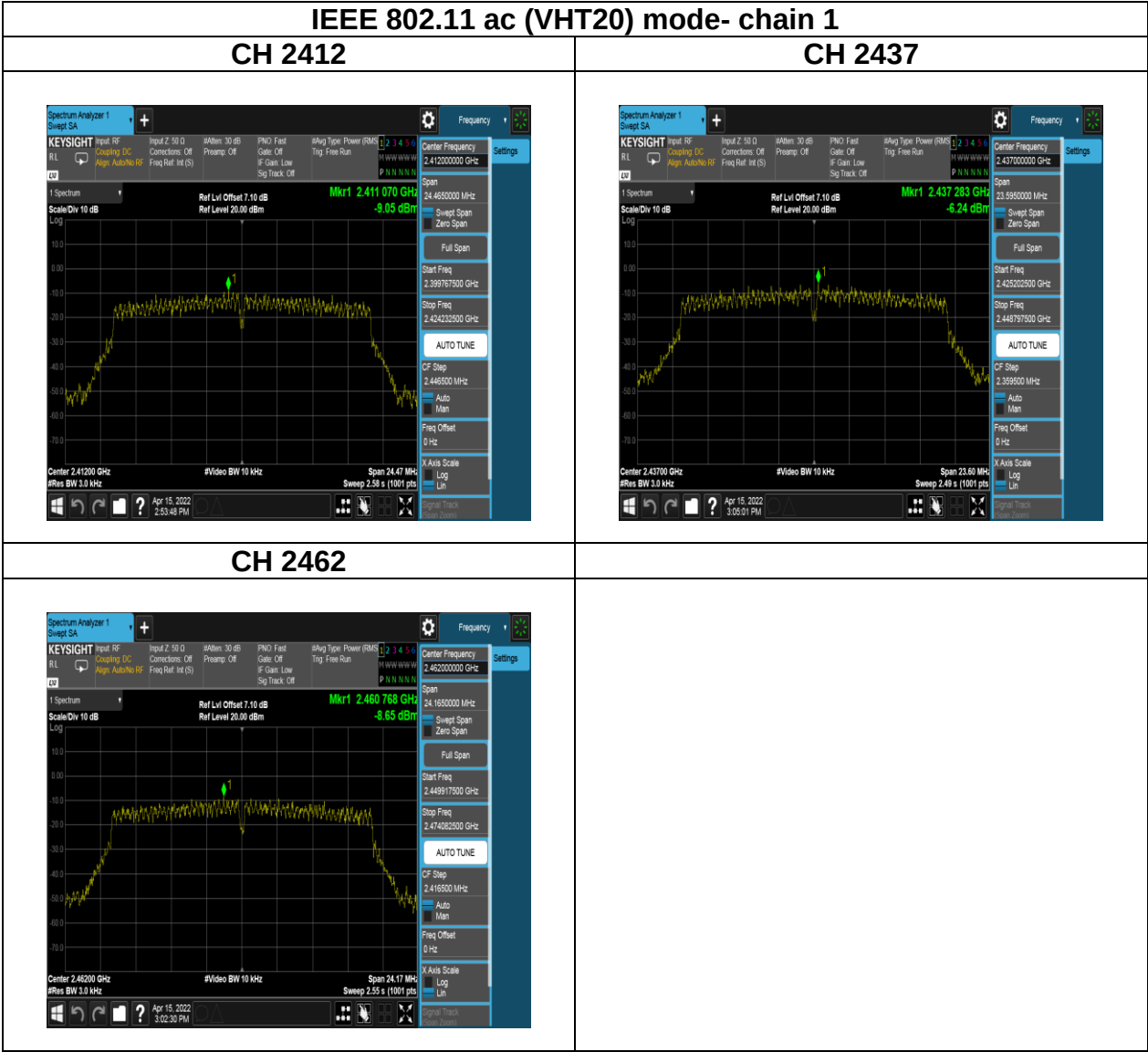
CH 2442 full





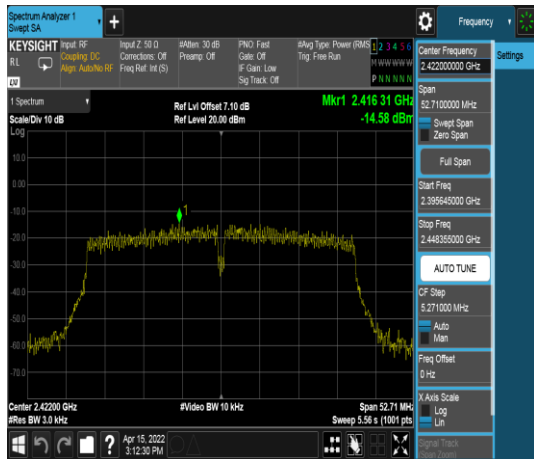




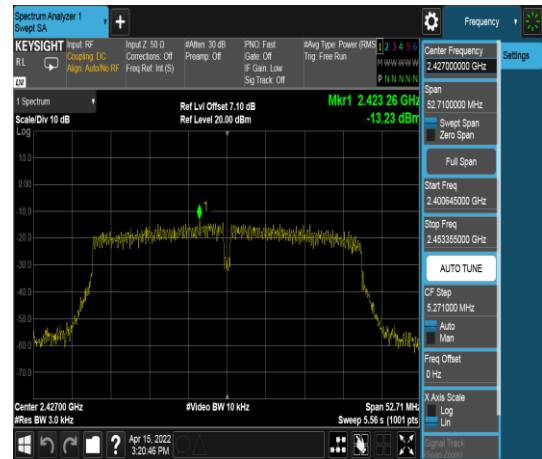


IEEE 802.11 ac (VHT40) mode- chain 1

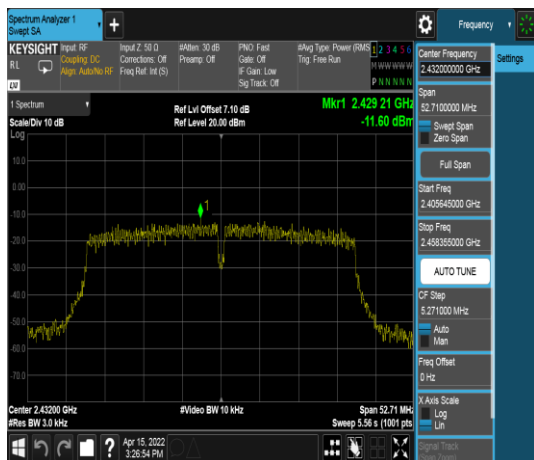
CH 2422



CH 2427



CH 2432



CH 2437

