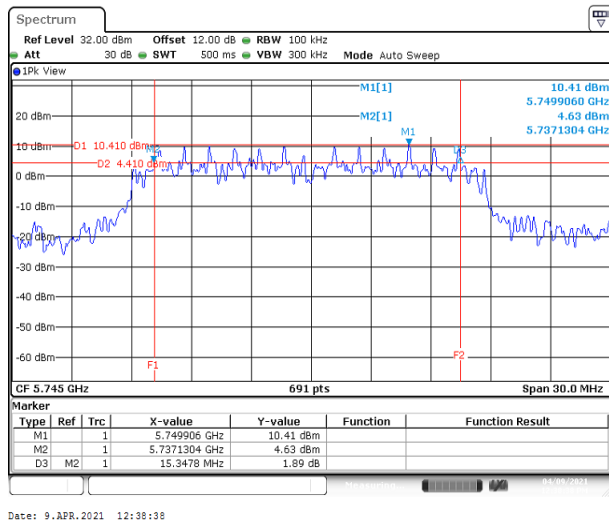
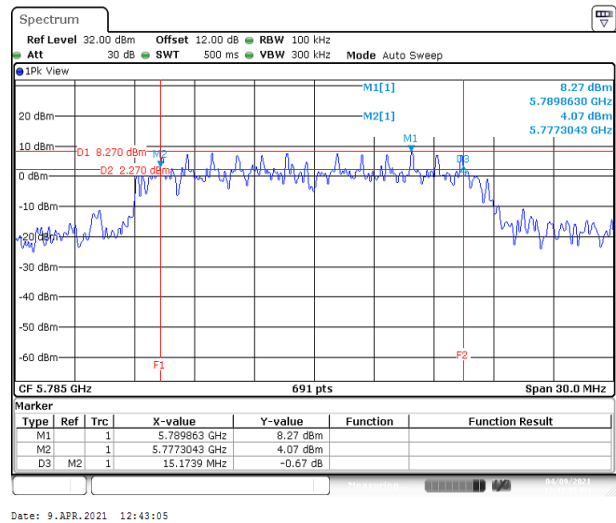


UNII-3 IEEE 802.11n HT20 mode- chain 1

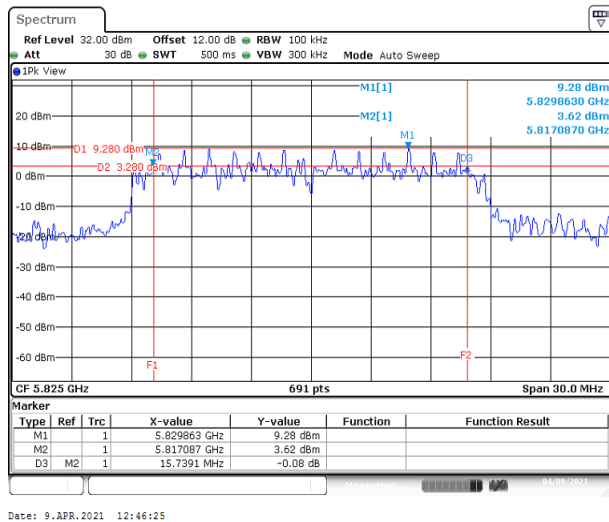
Low CH

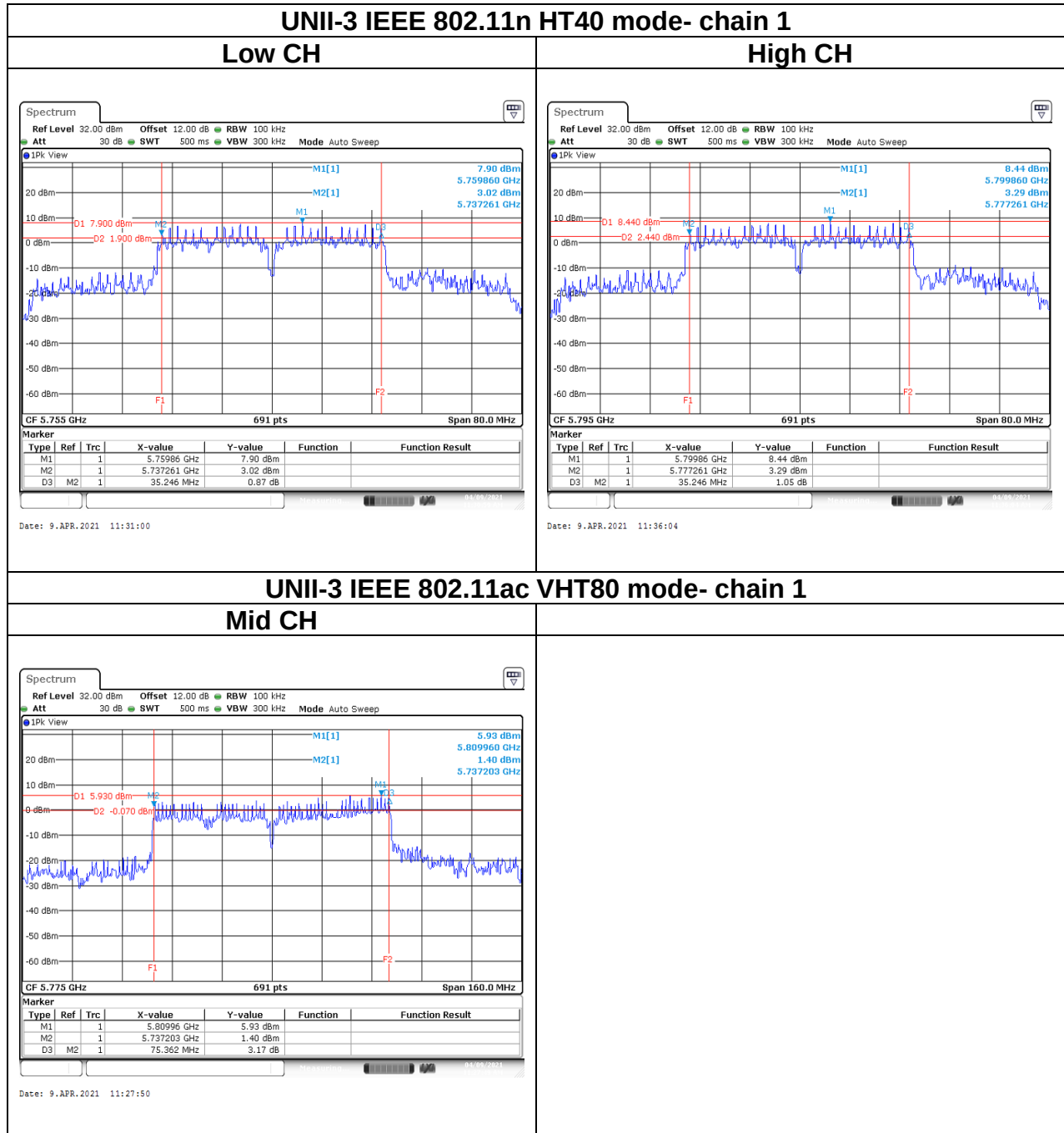


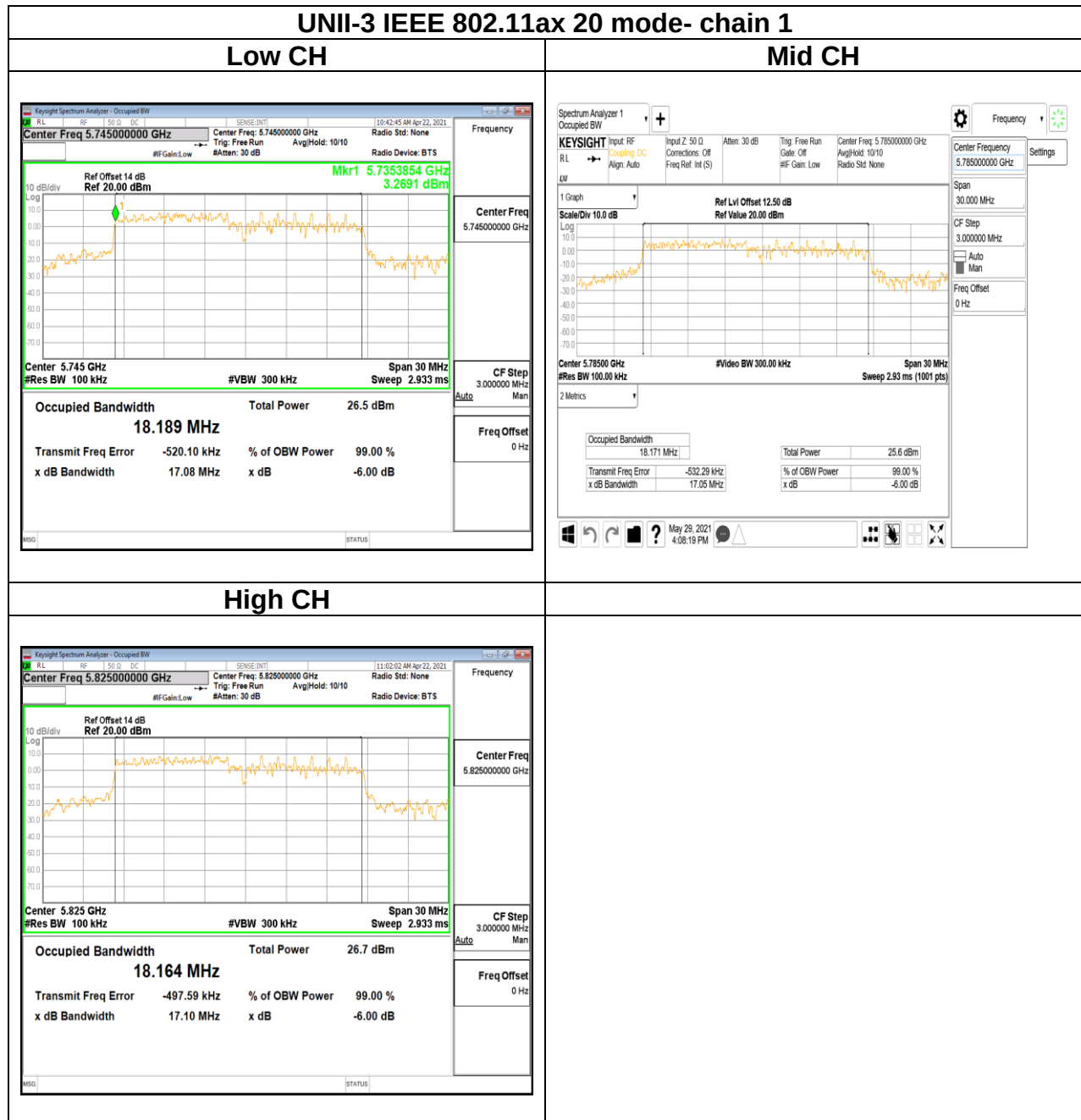
Mid CH



High CH

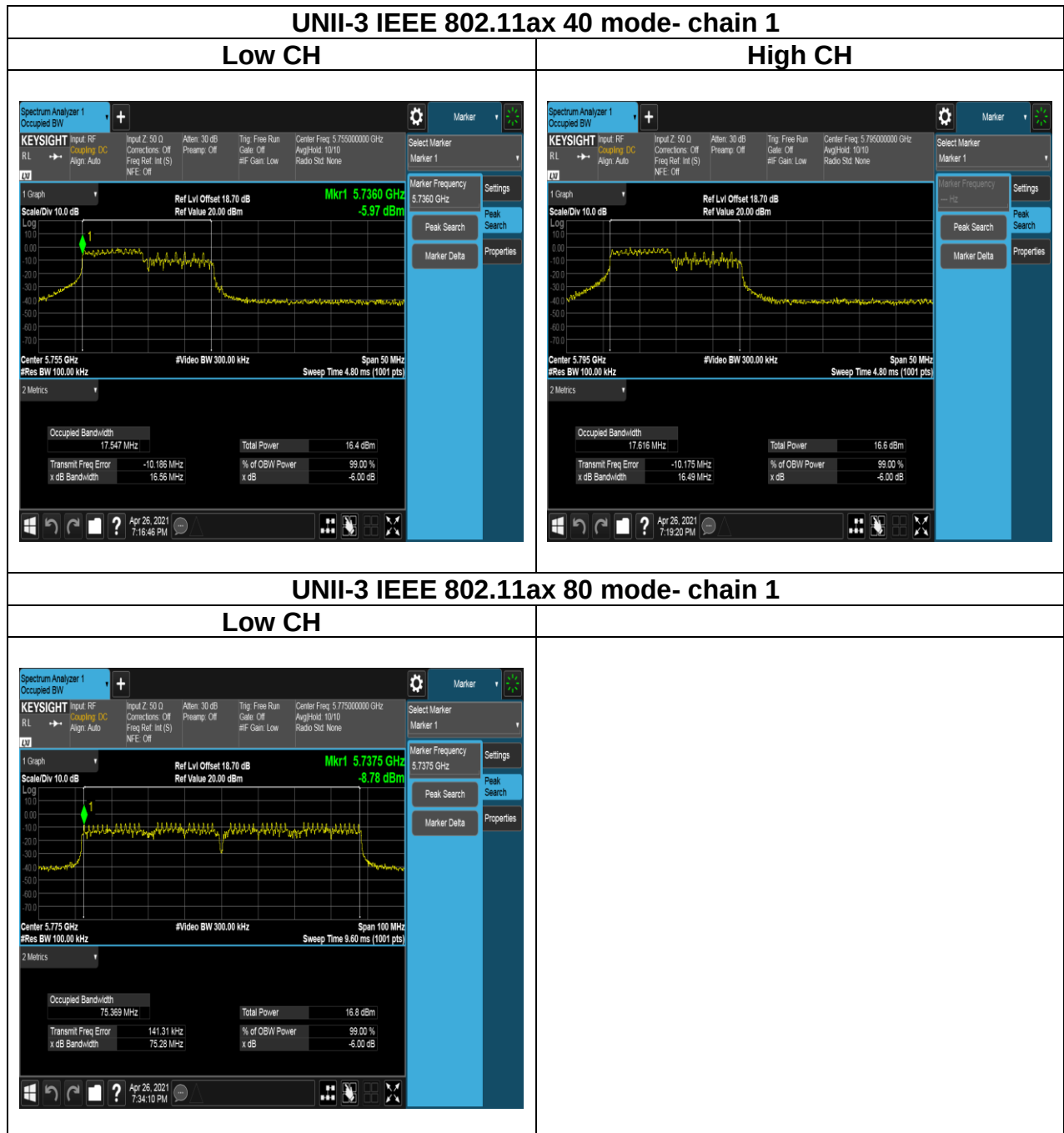






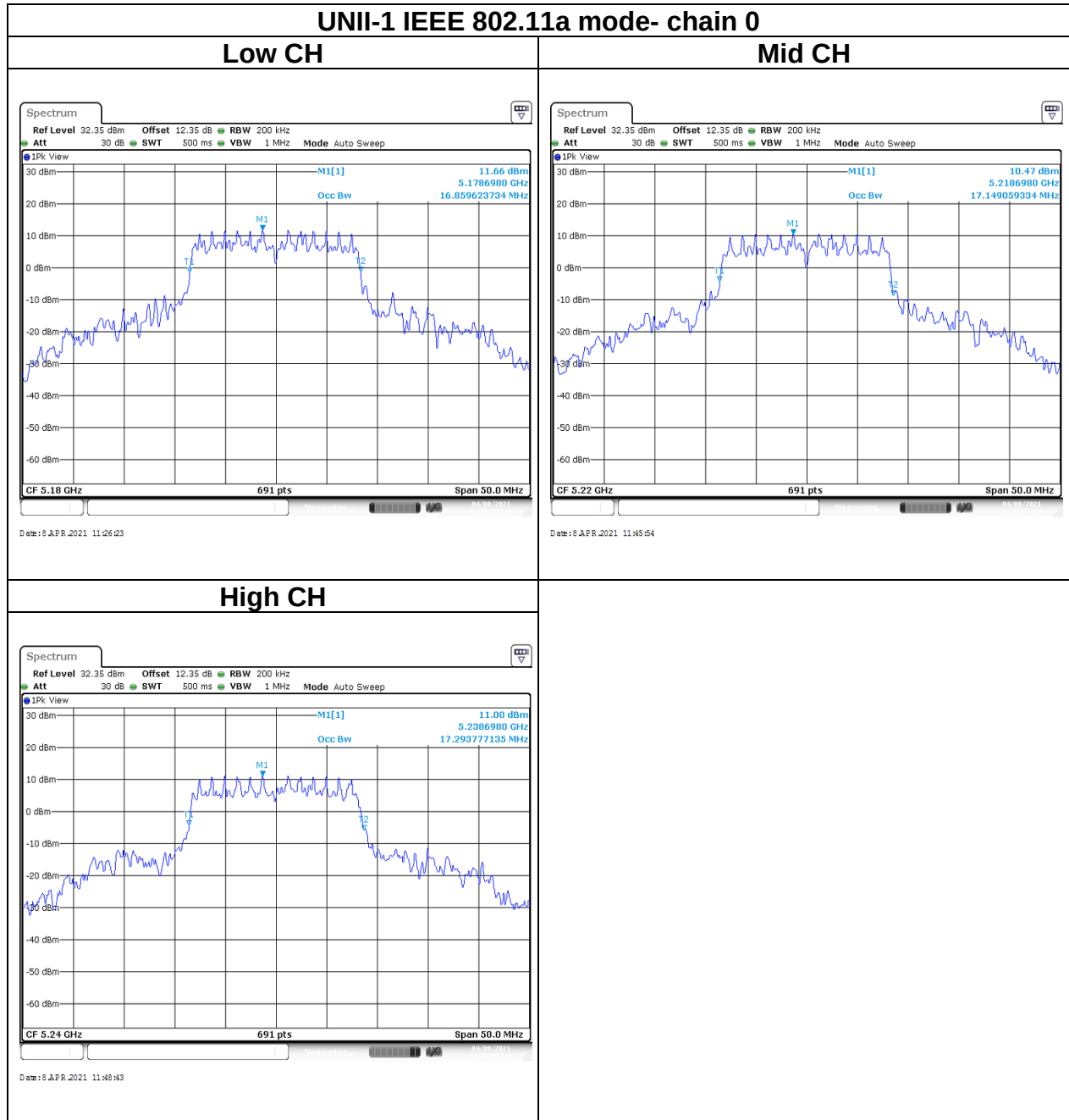


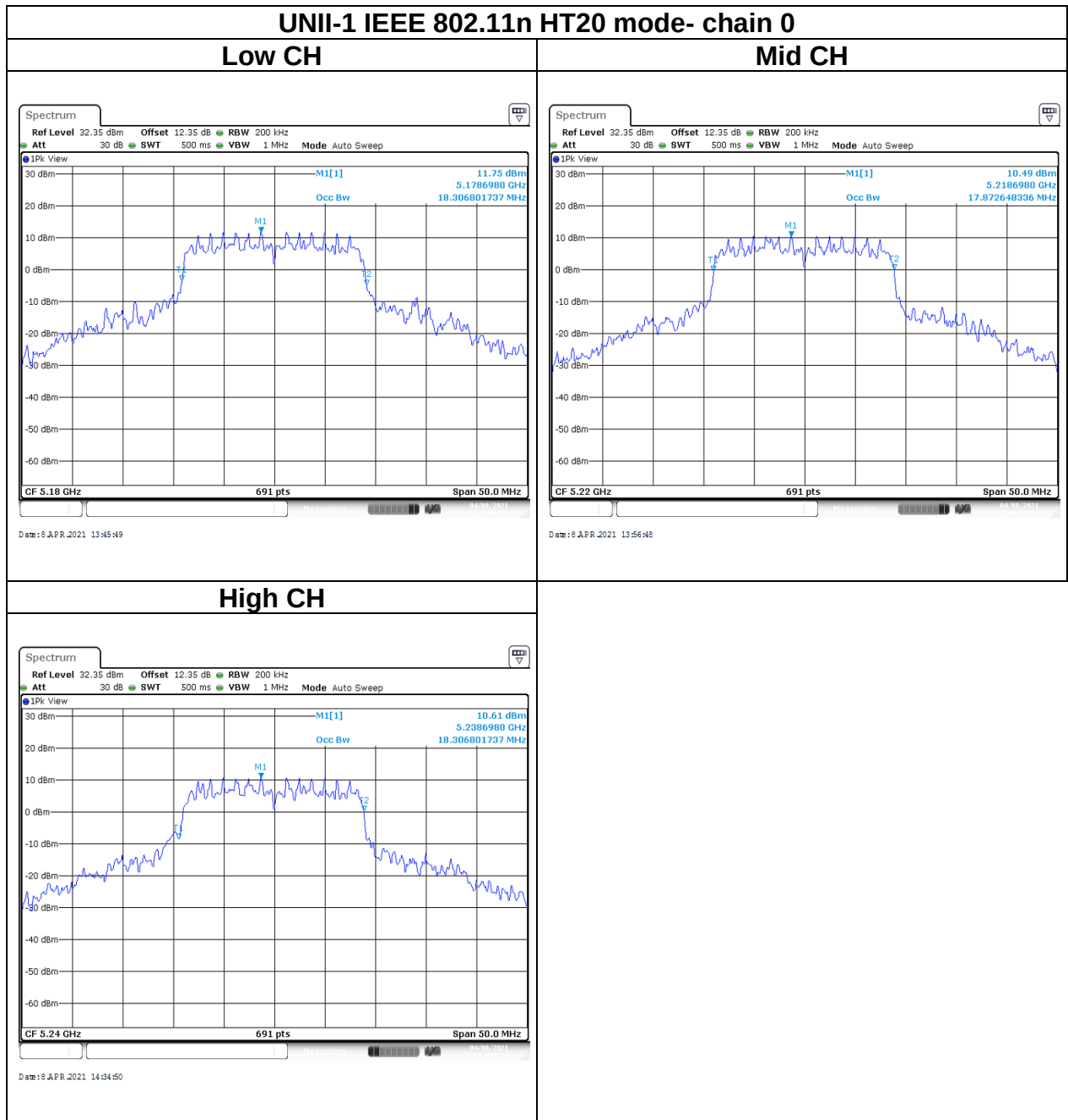
Report No.: T210319W02-RP2



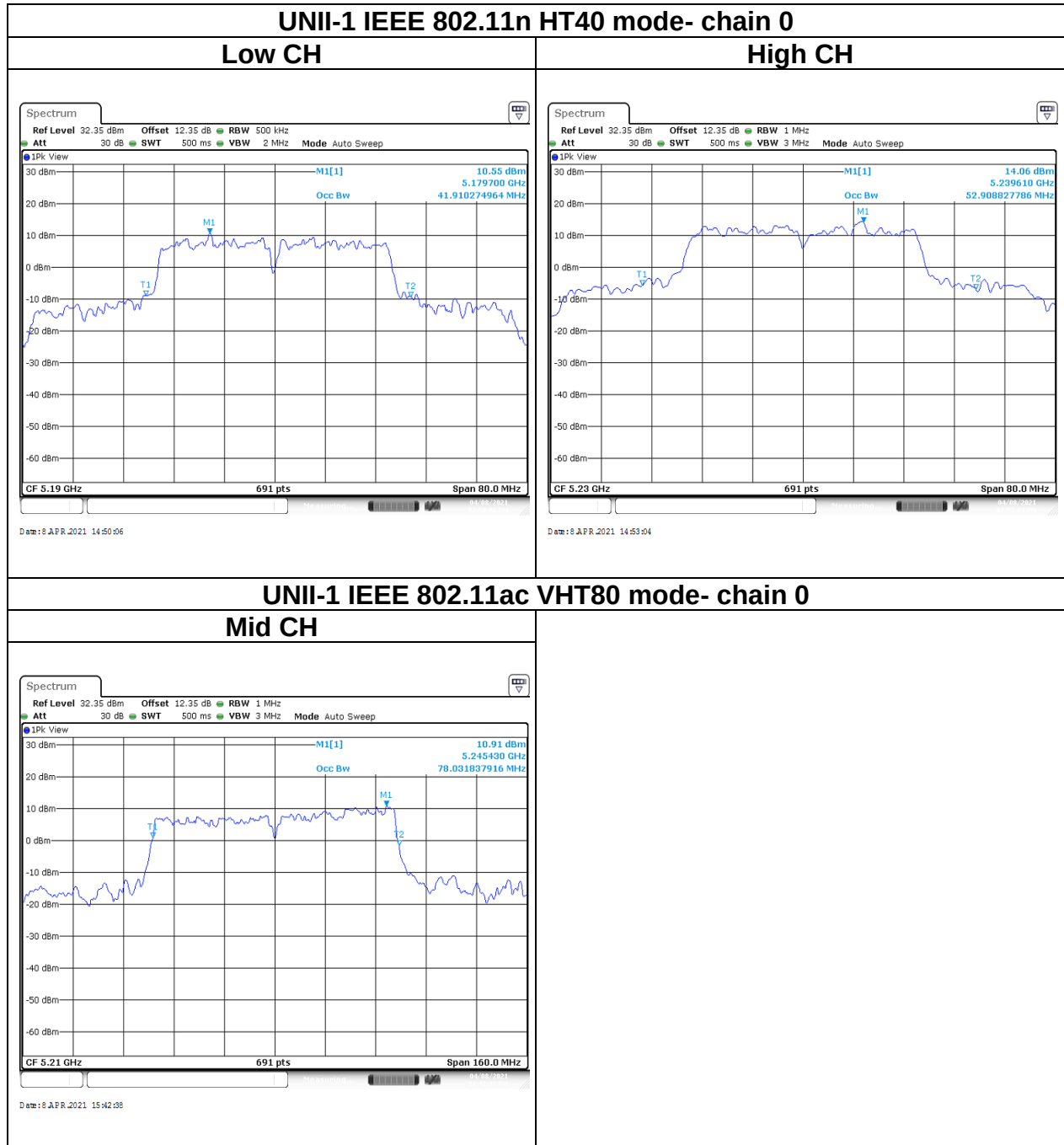
Report No.: T210319W02-RP2

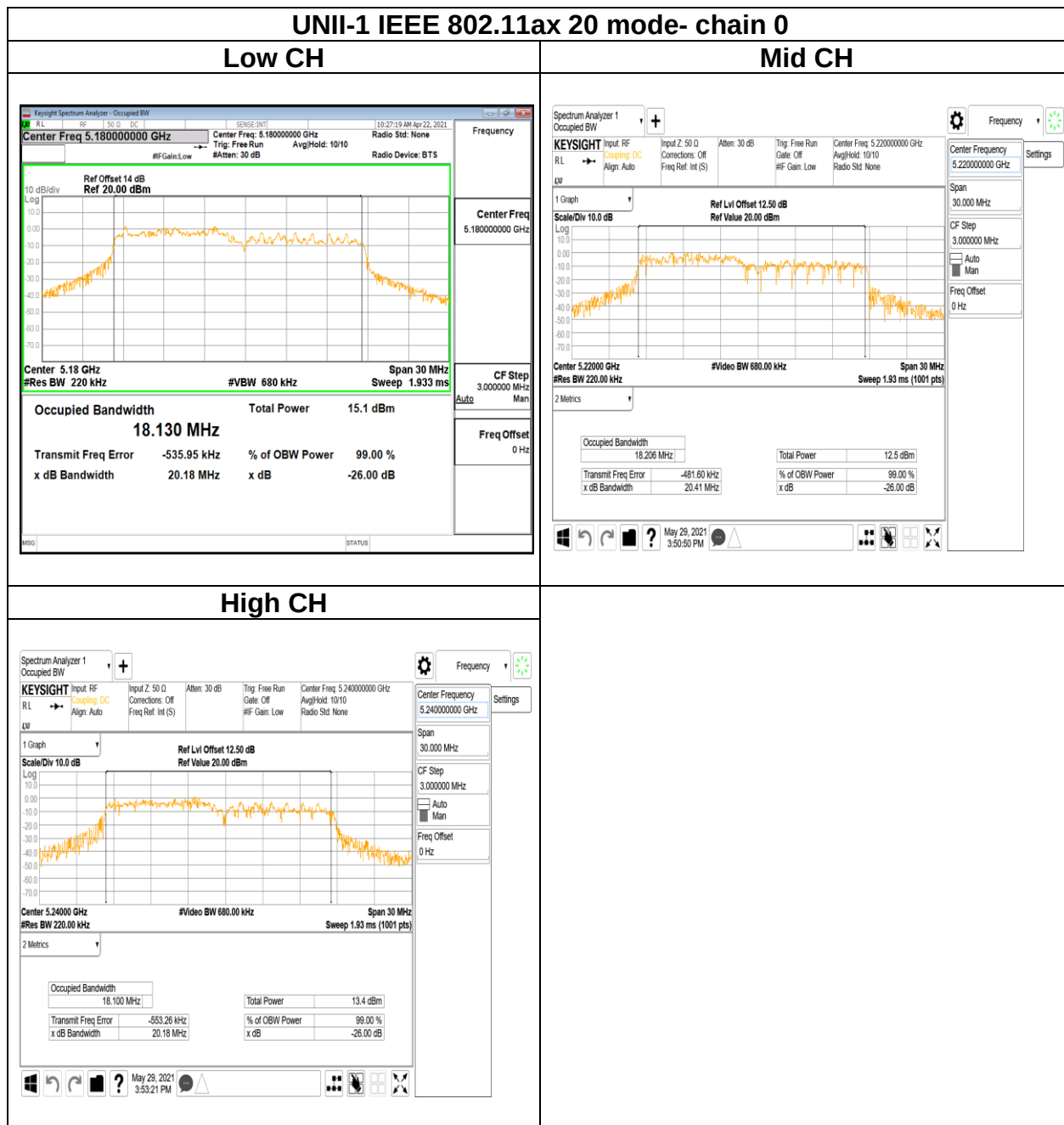
Test Plots (OBW 99%)

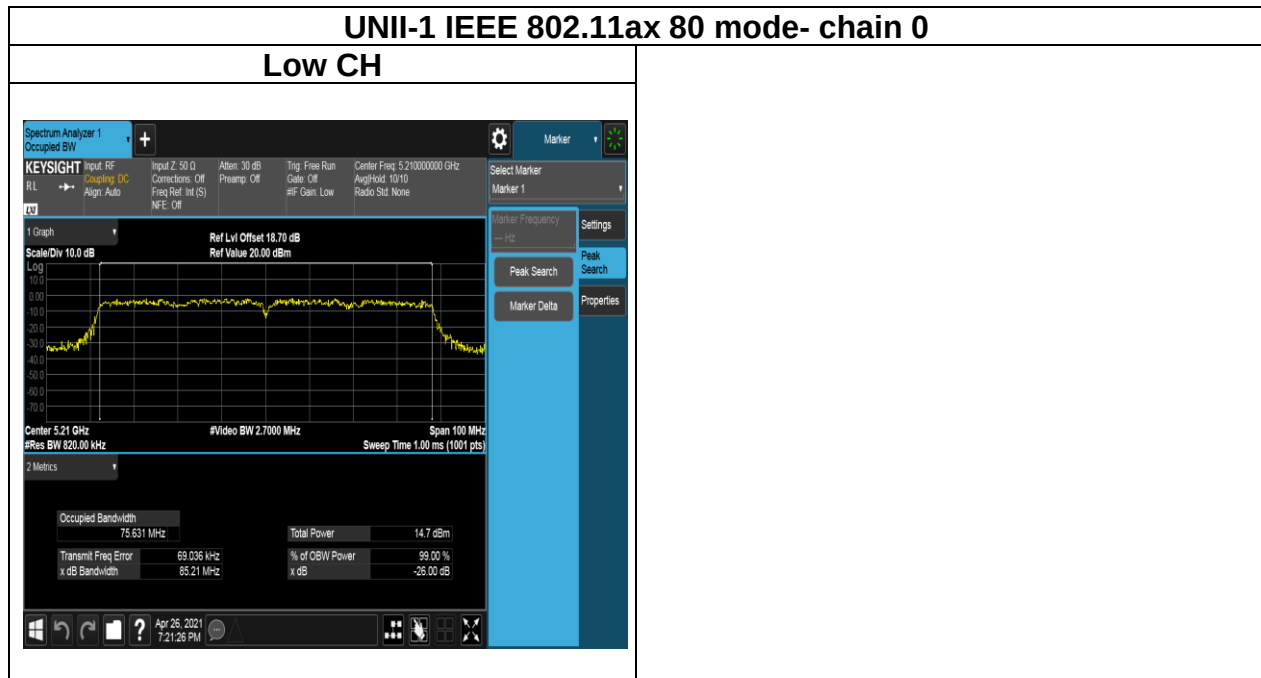
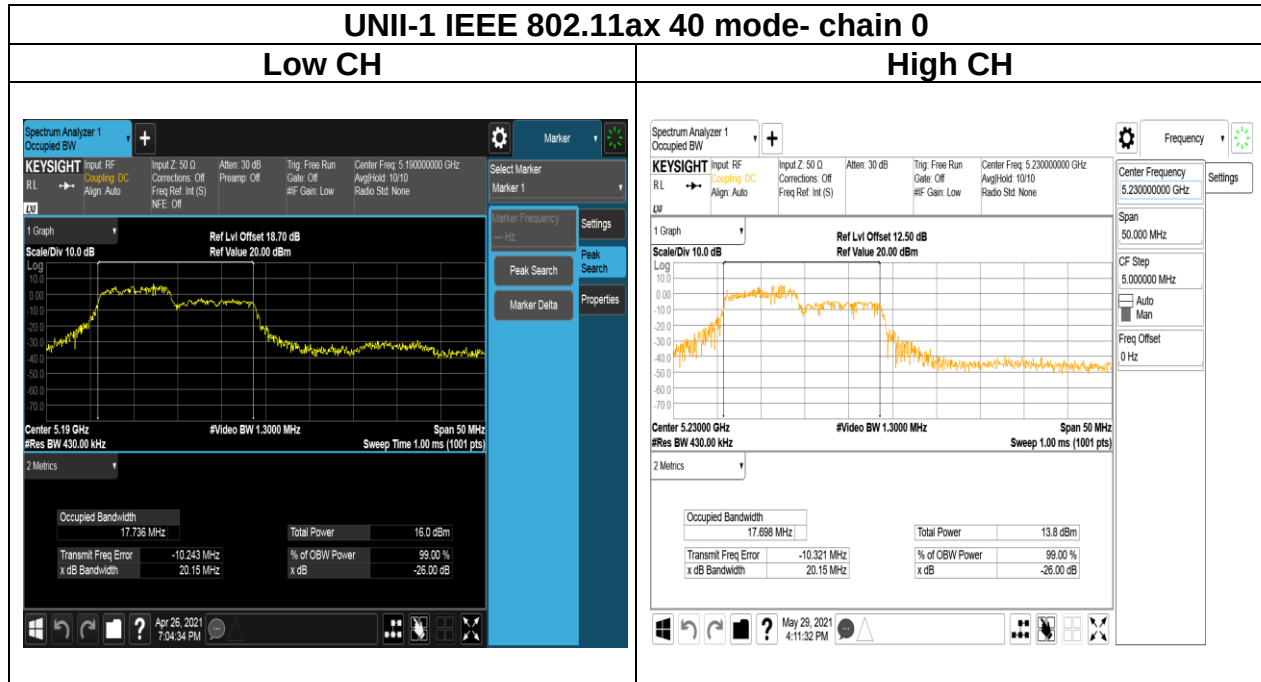




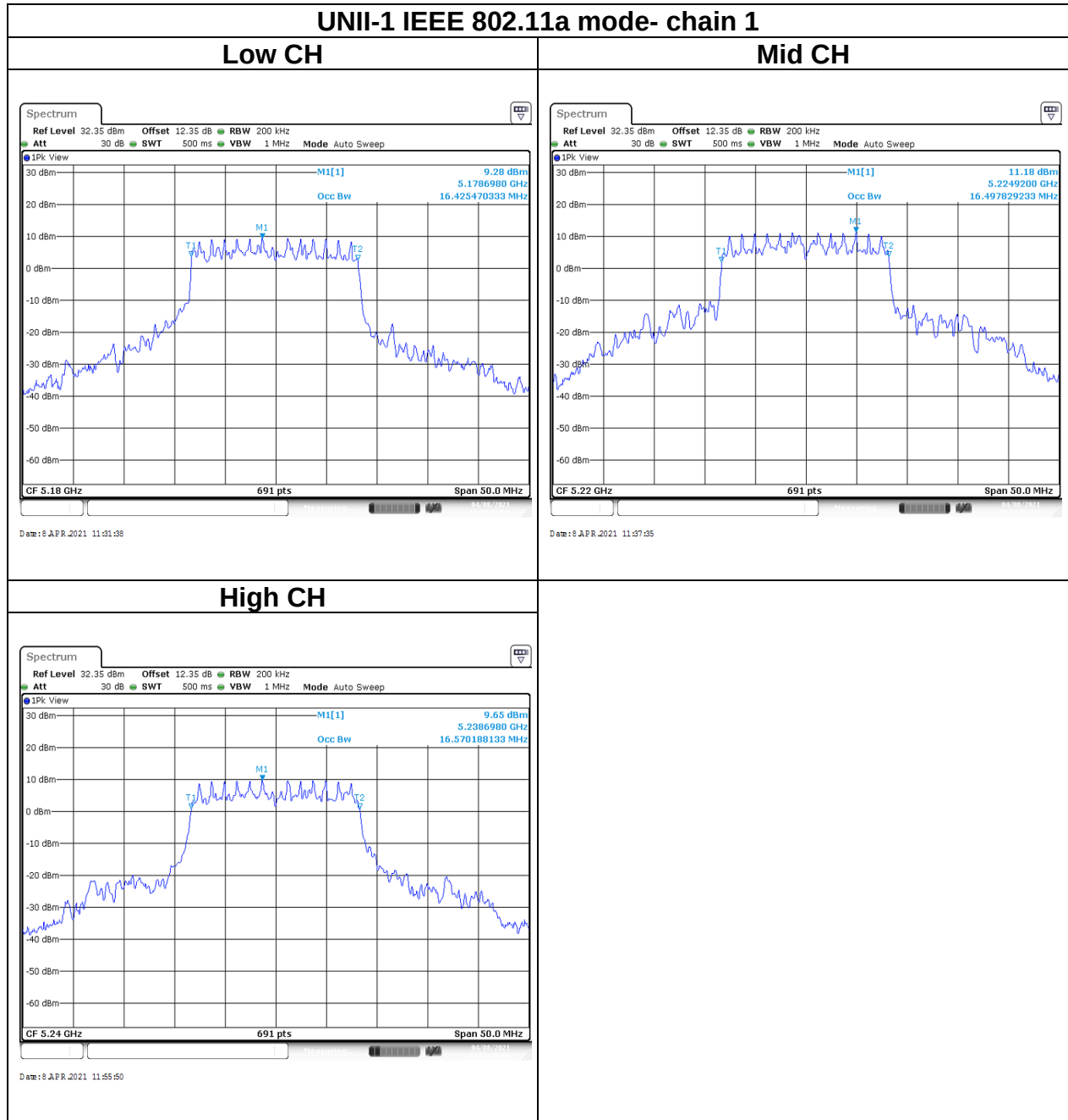
Report No.: T210319W02-RP2

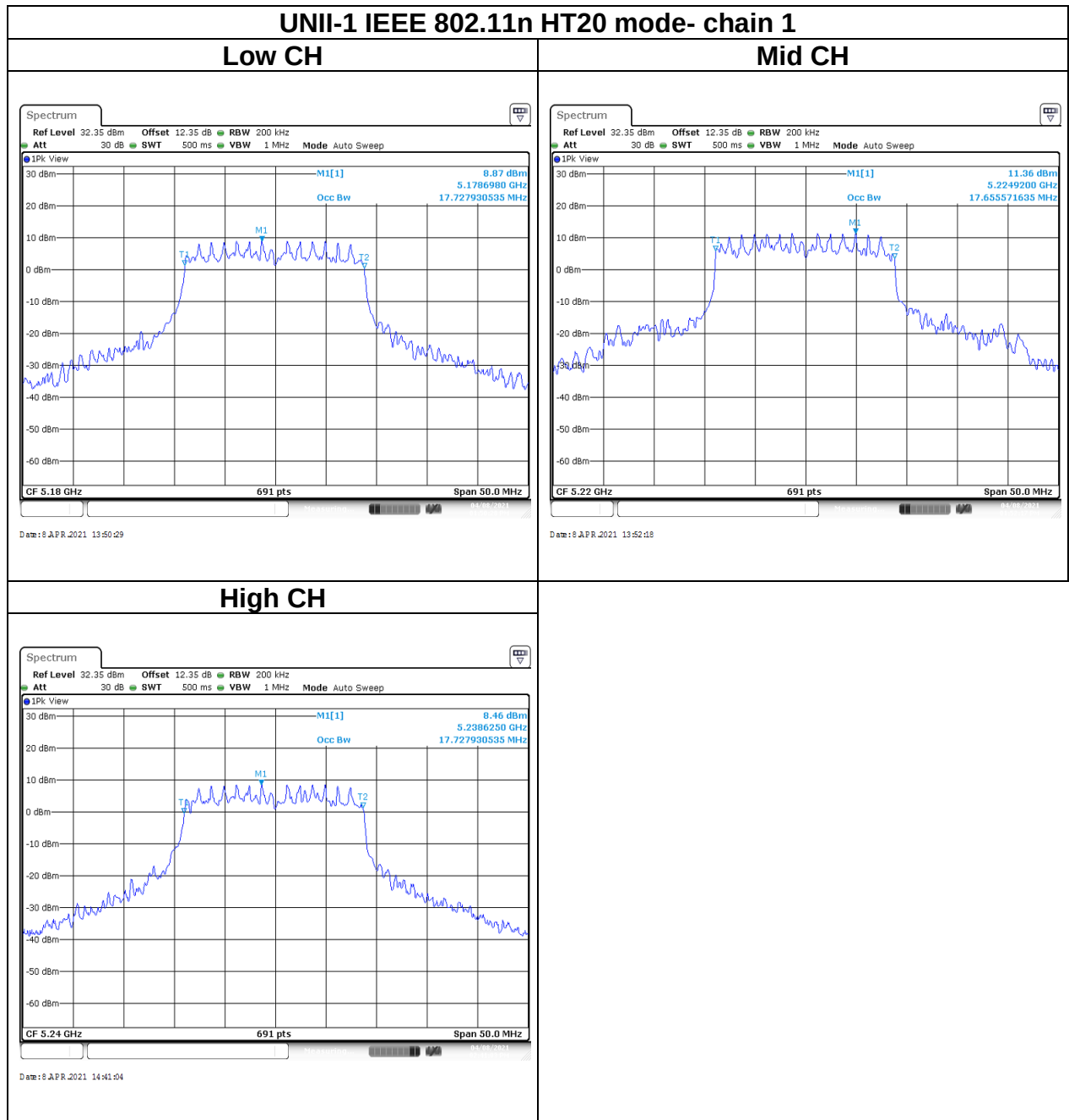


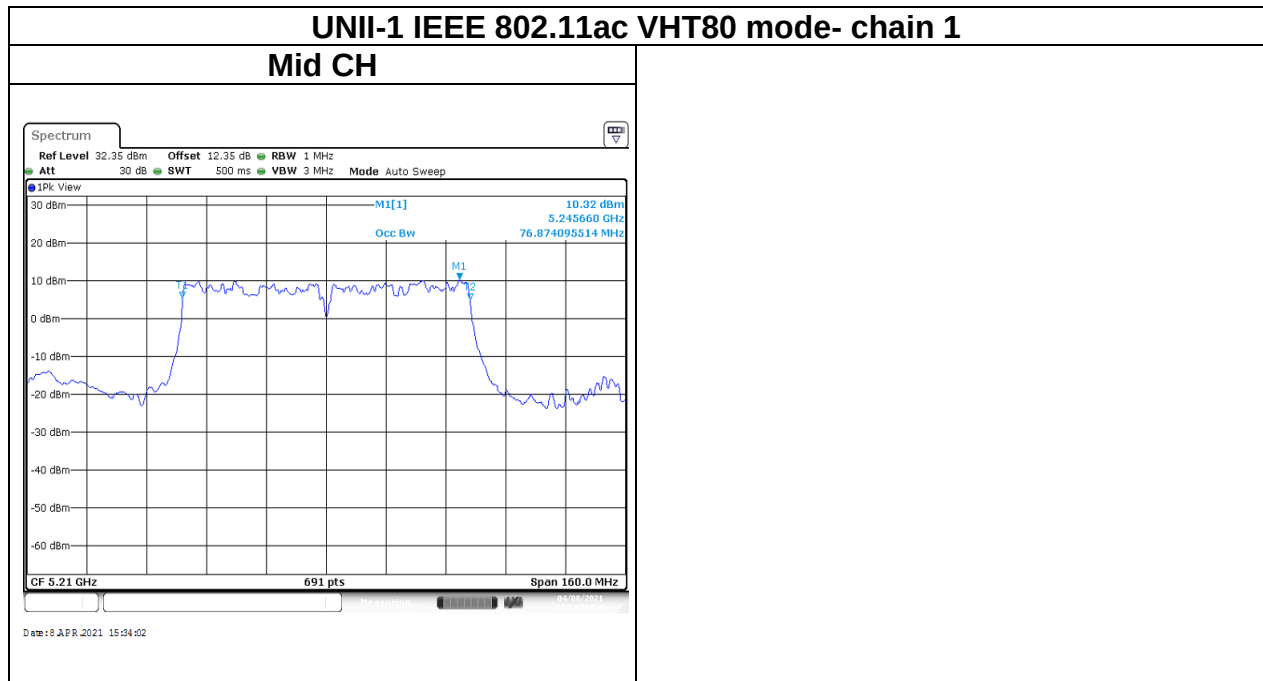
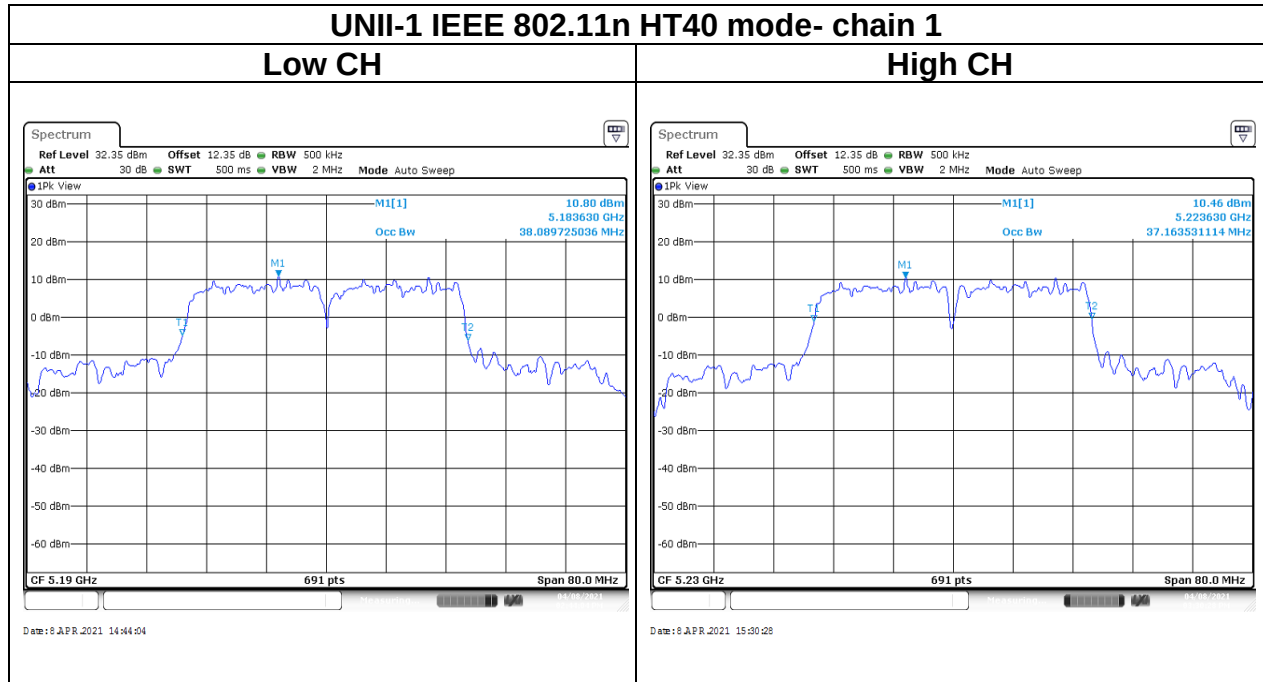




Report No.: T210319W02-RP2

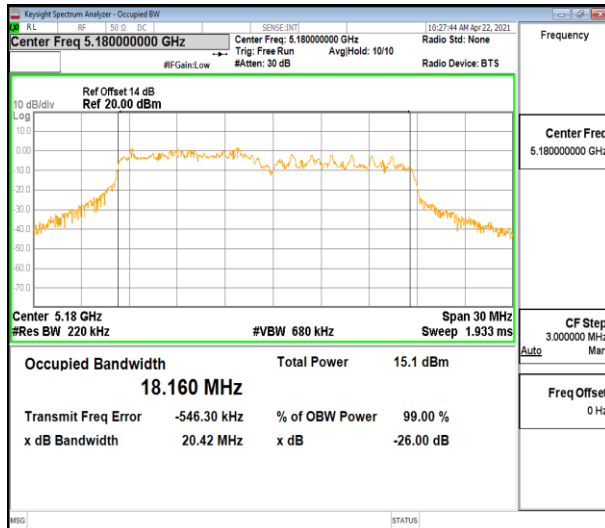




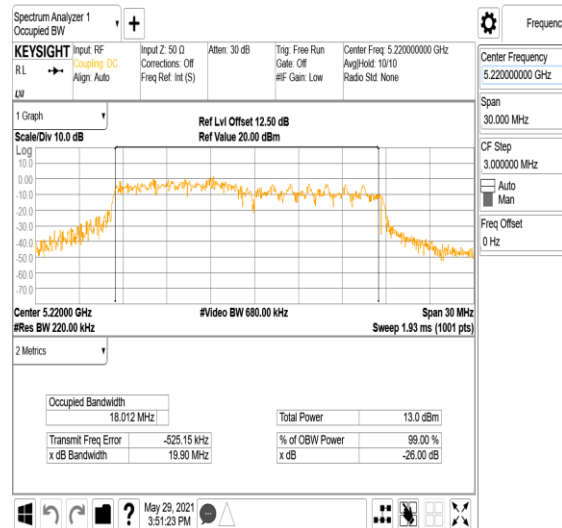


UNII-1 IEEE 802.11ax 20 mode- chain 1

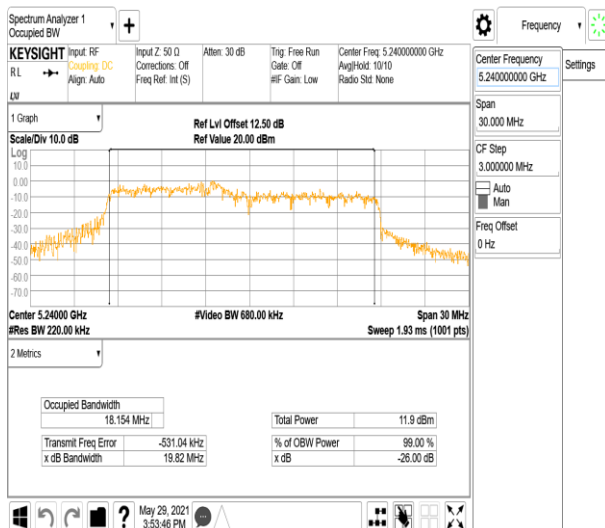
Low CH

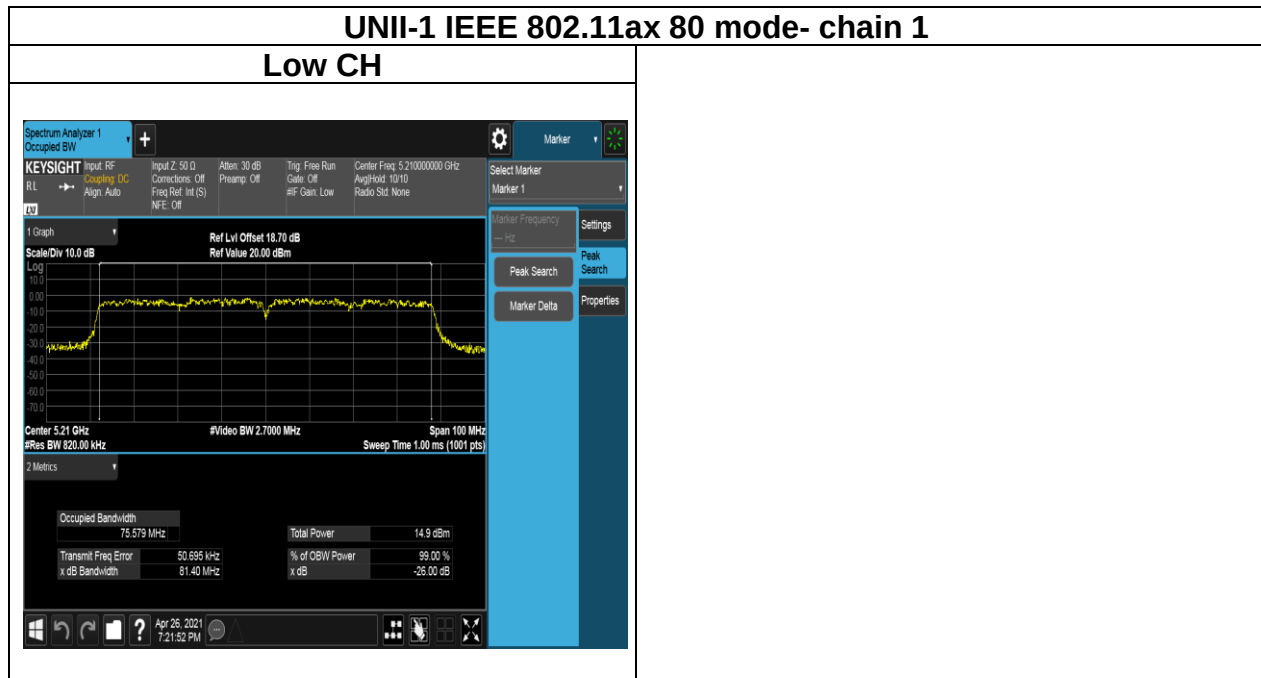
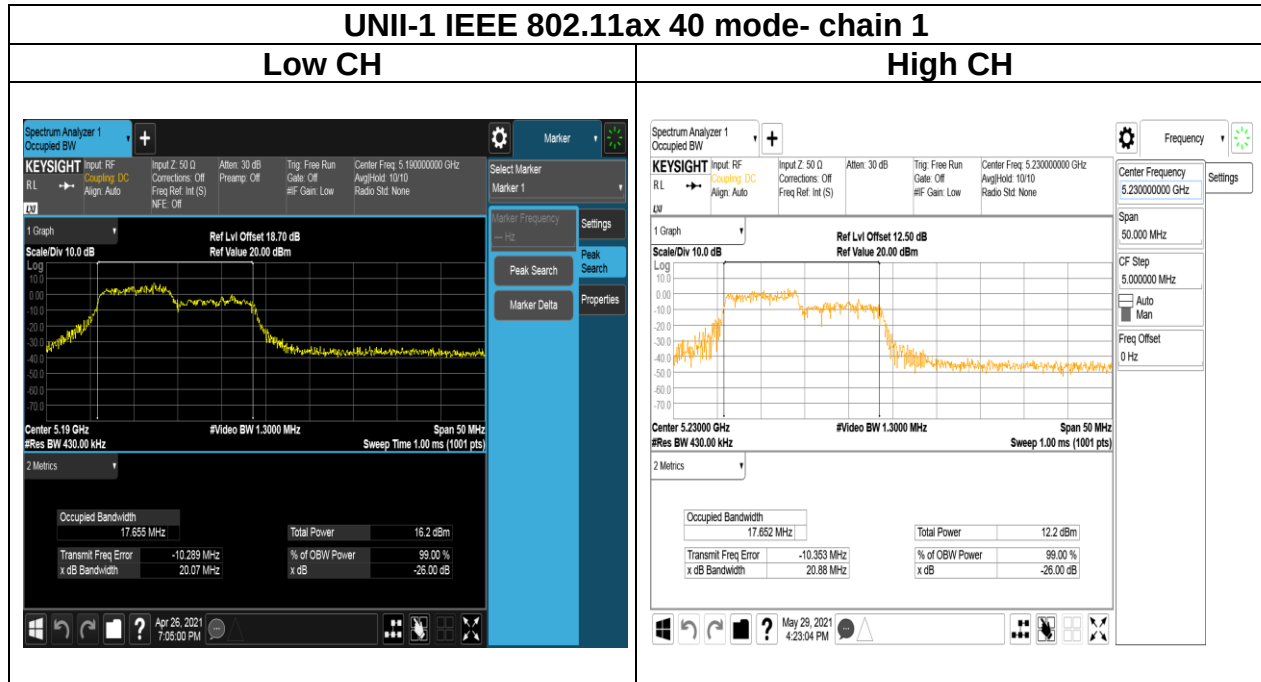


Mid CH

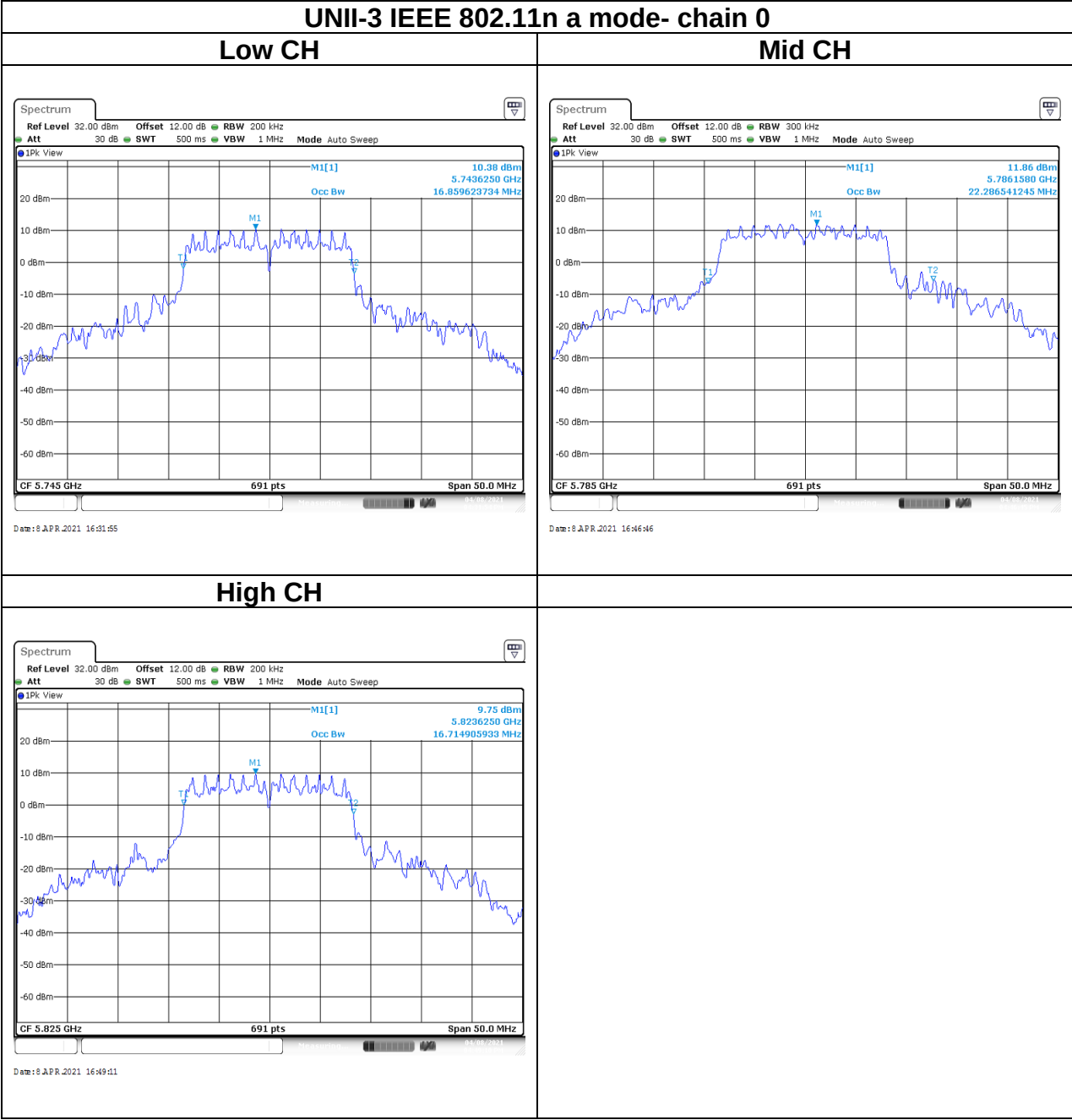


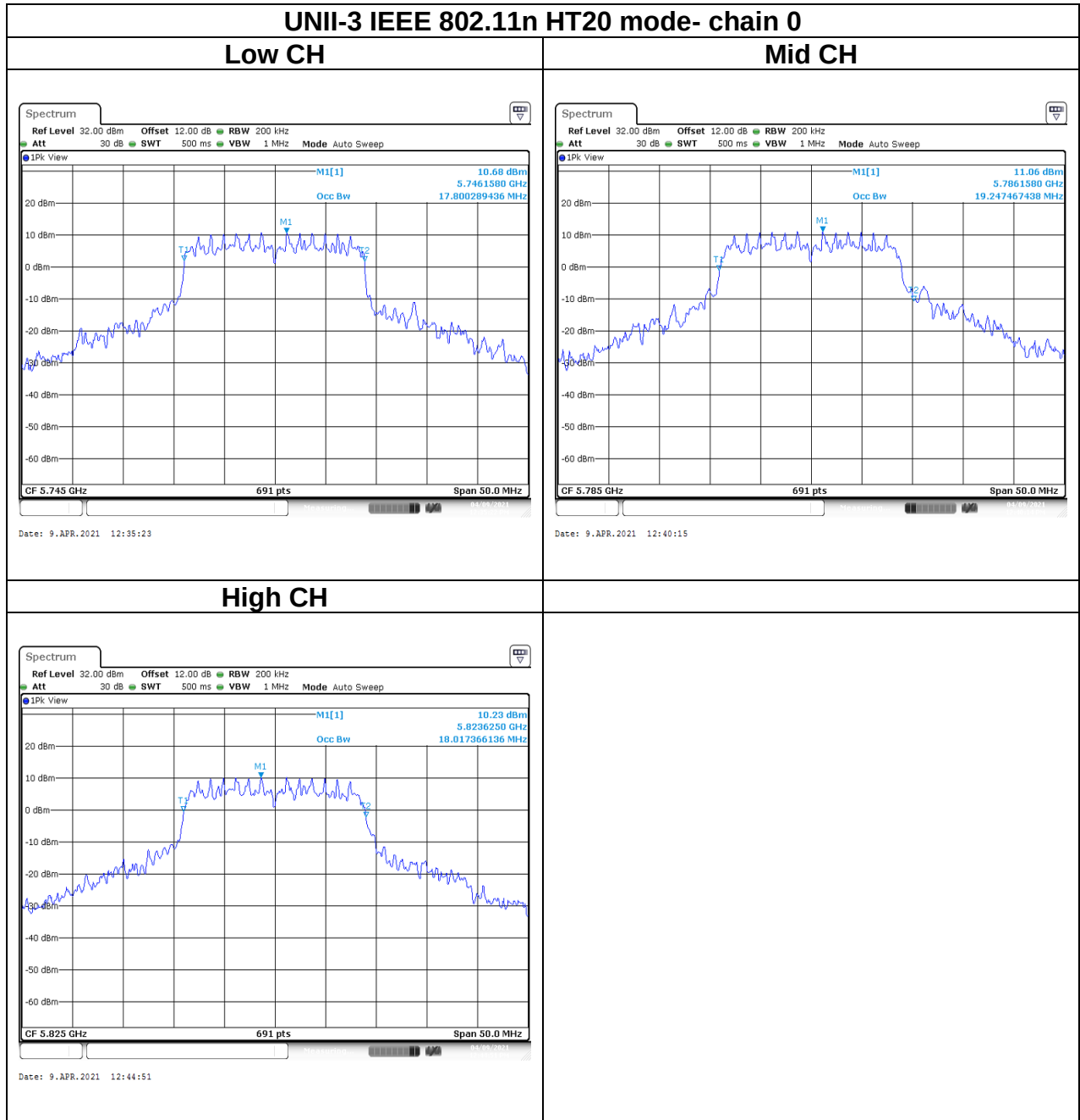
High CH

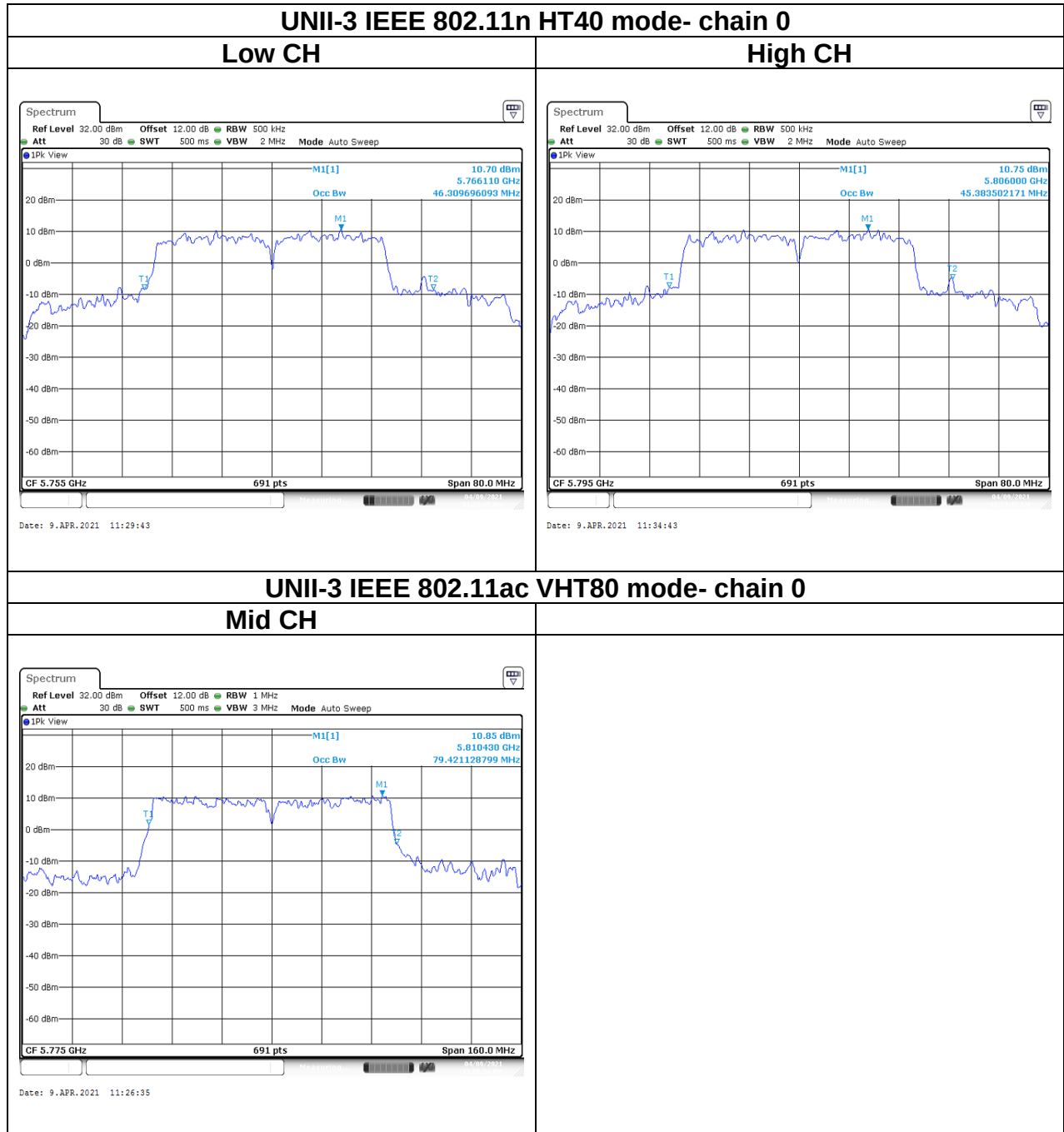


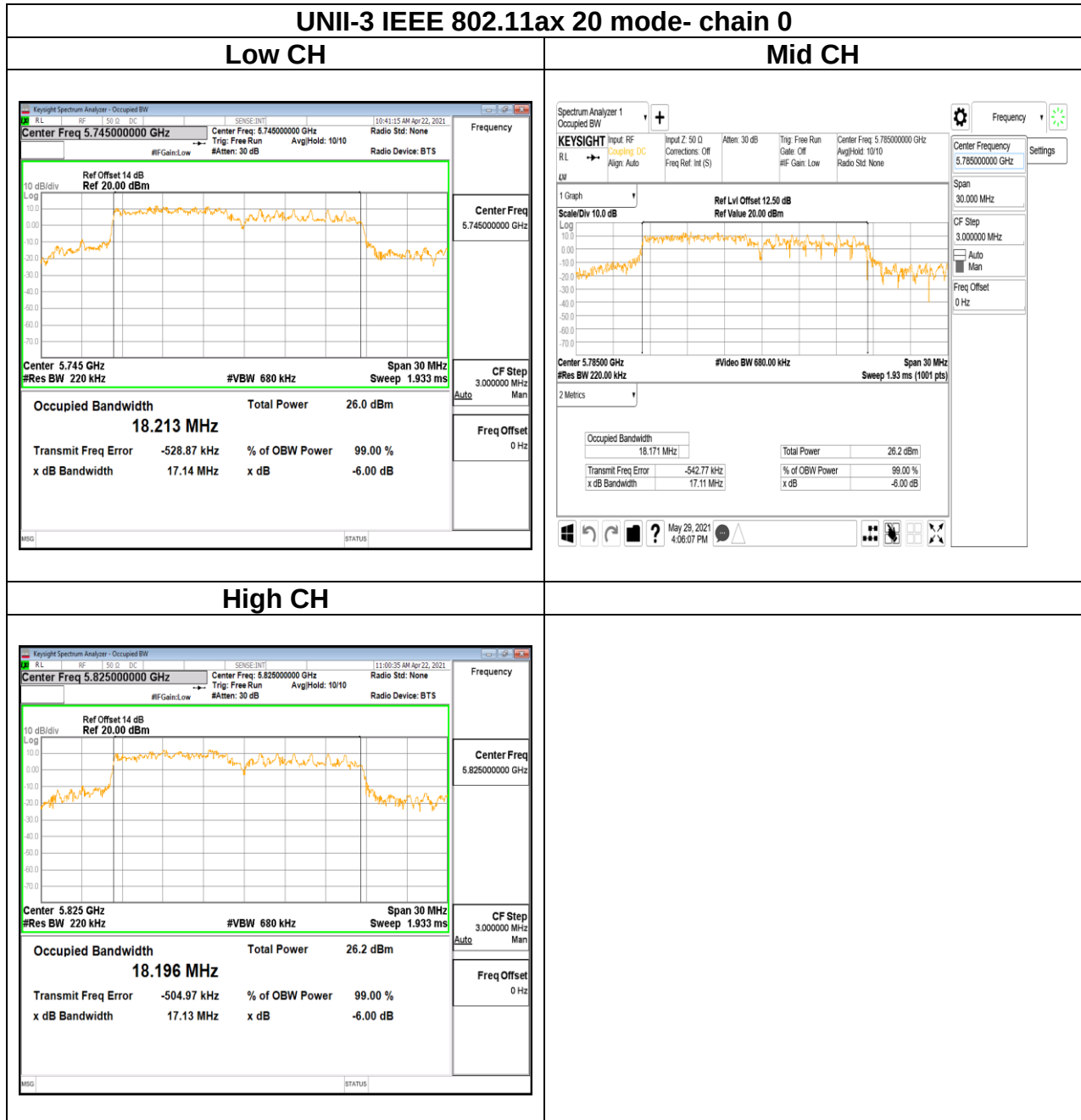


Test Plots (OBW 99%)



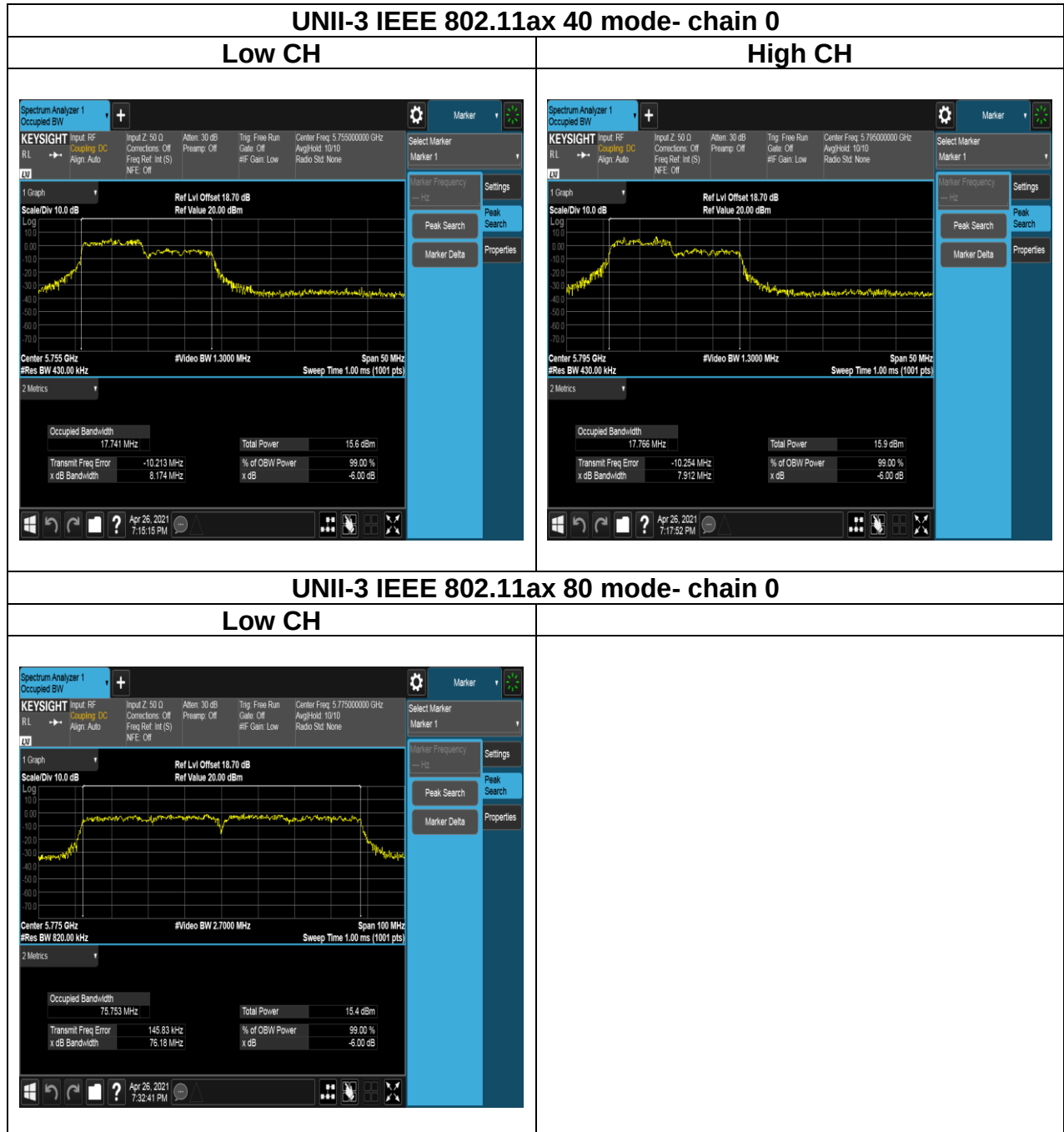


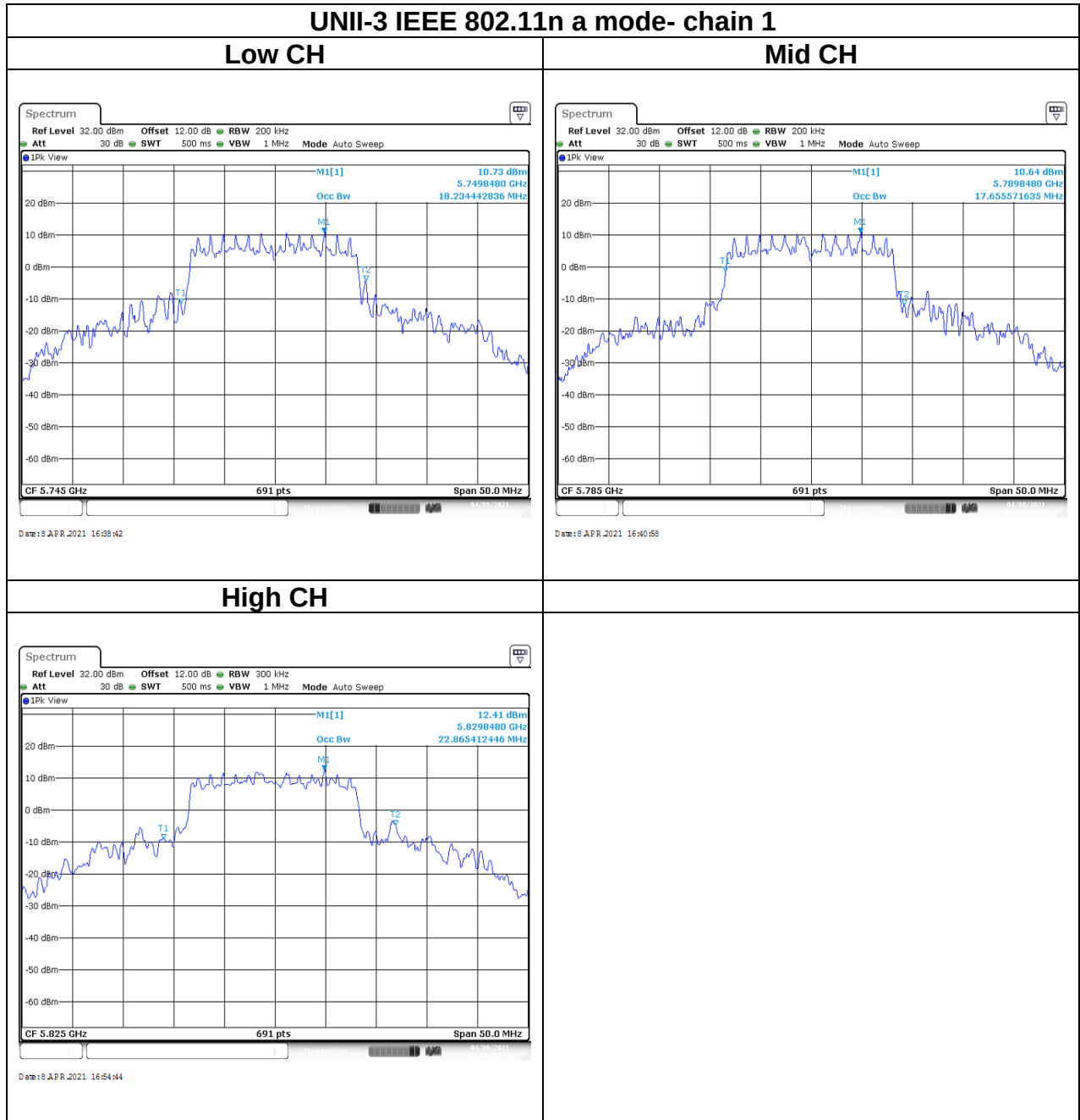


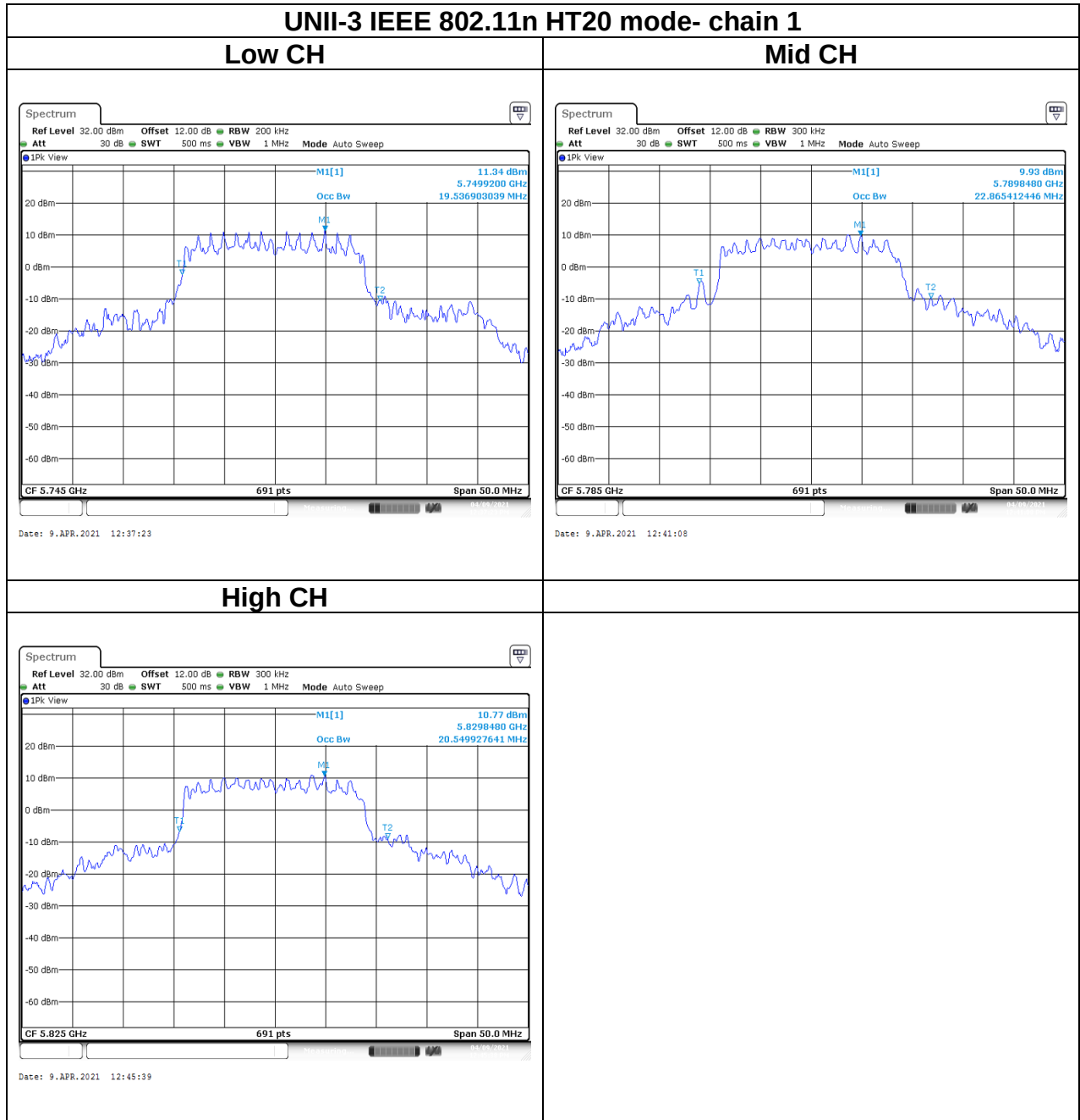


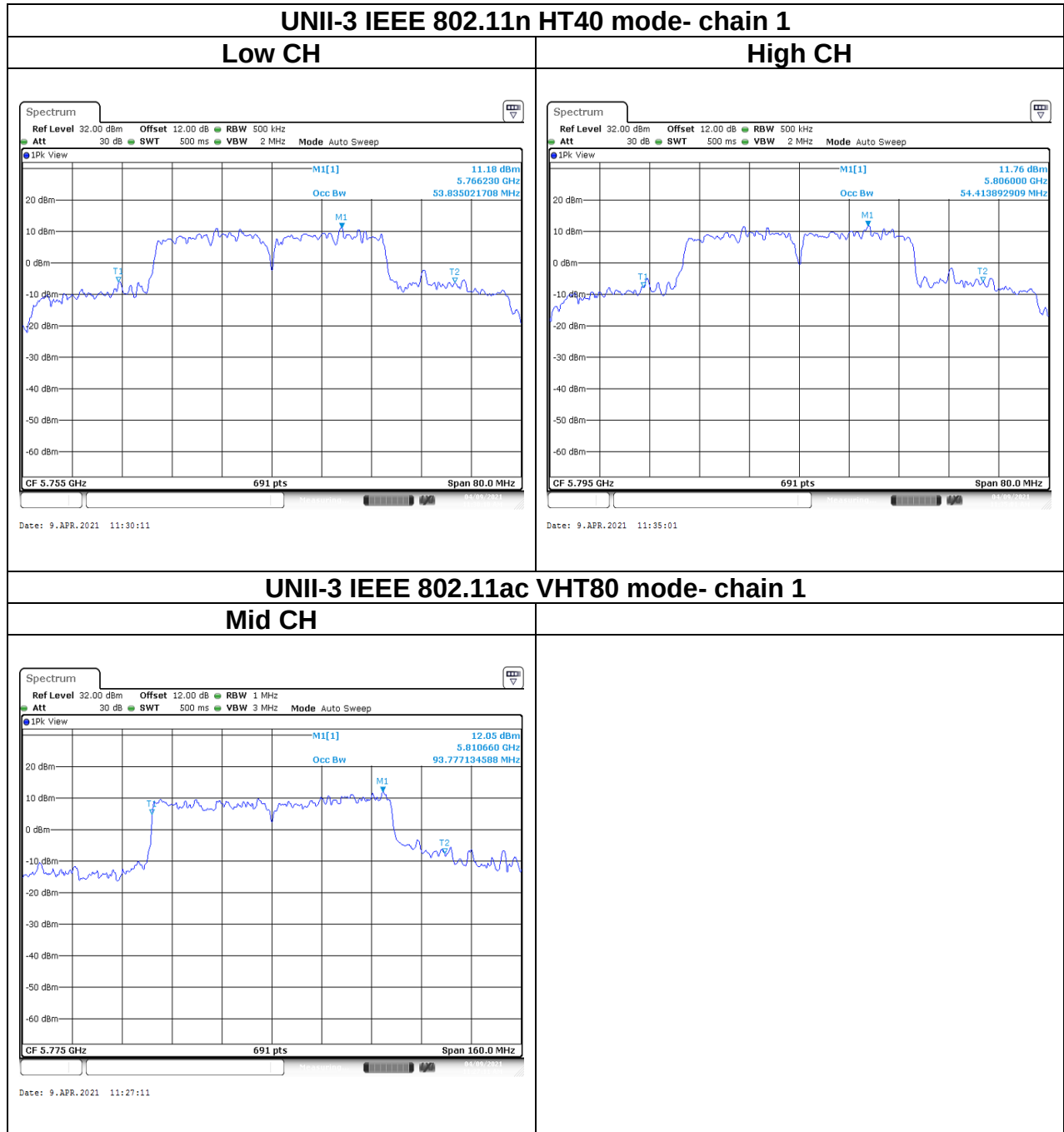


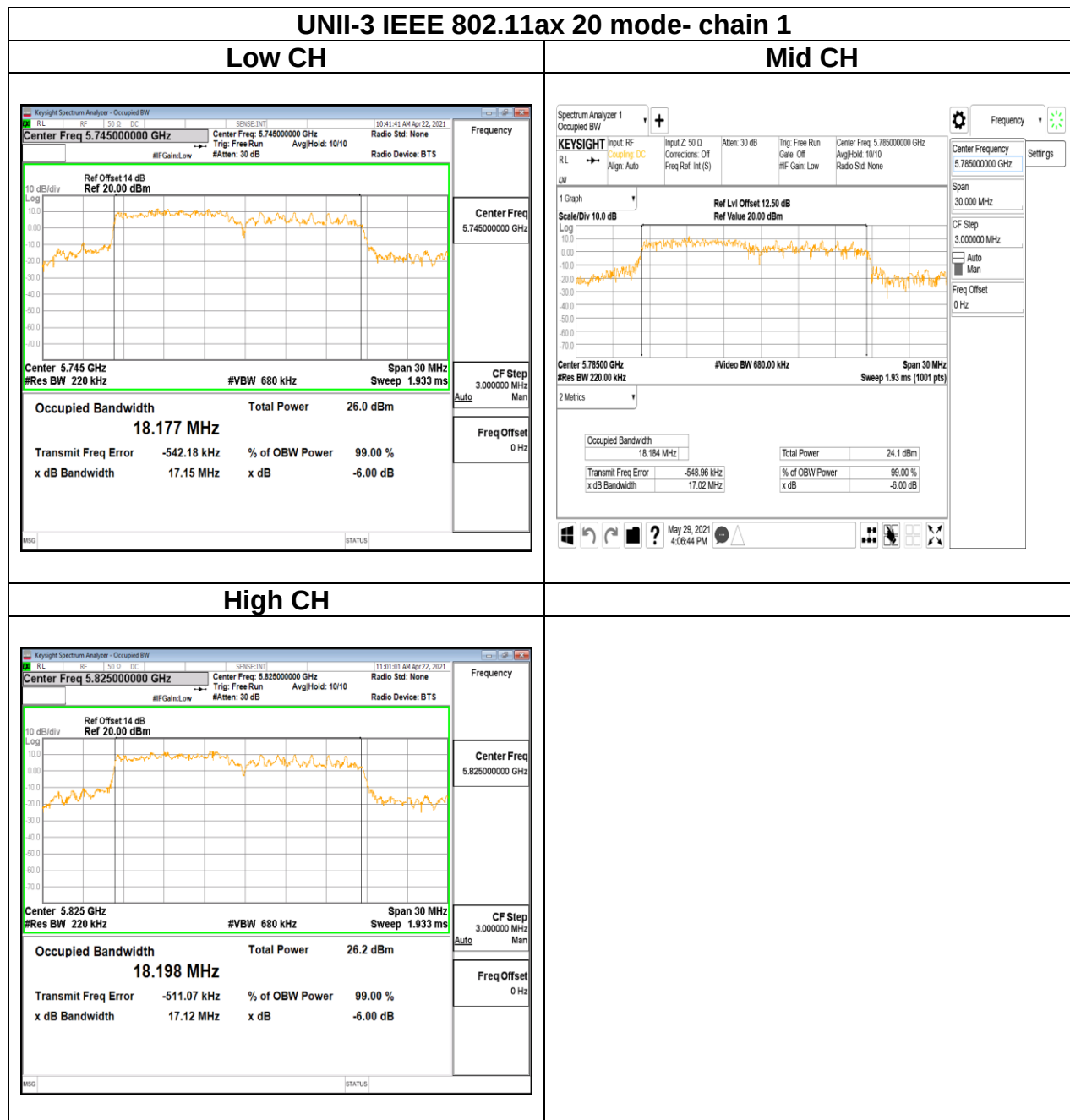
Report No.: T210319W02-RP2



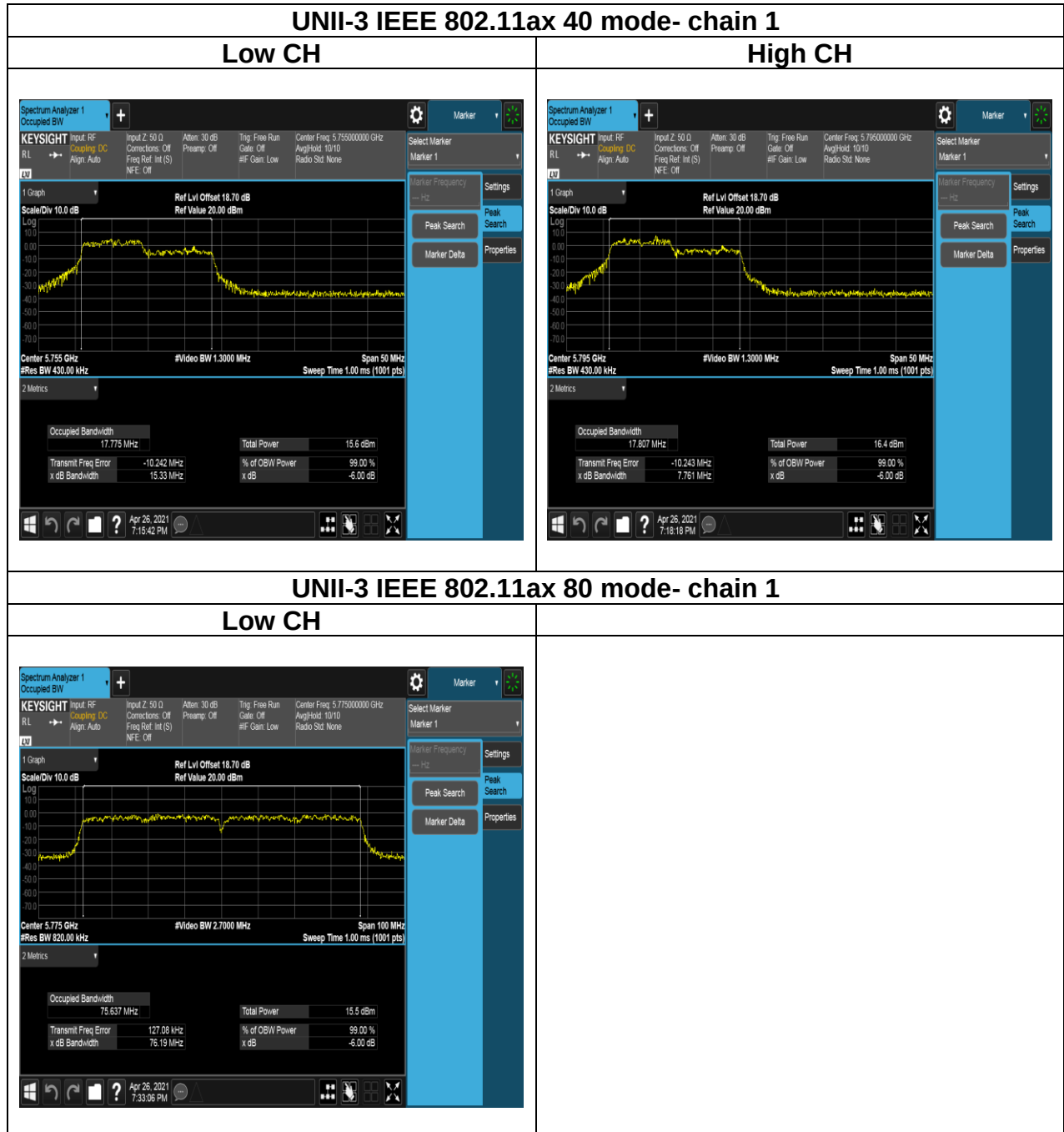








Report No.: T210319W02-RP2



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1) and 15.407(a)(3),

UNII-1 :

The maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	☐ Antenna not exceed 6 dBi : 30dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]
UNII-1 Limit (For client devices)	☐ Antenna not exceed 6 dBi : 24dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-3 Limit	☐ Antenna not exceed 6 dBi : 30dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

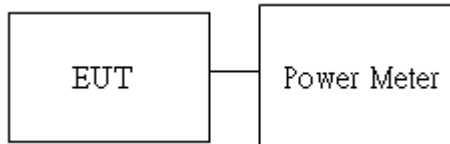
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz and 40MHz, E.2.b for BW 80MHz.

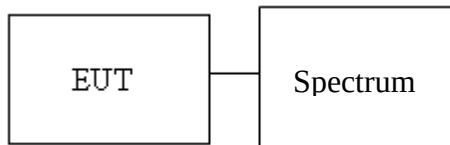
1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz



4.3.4 Test Result

Conducted output power :

Temperature: 23.4°C

Test date: June 2, 2021

Humidity: 57% RH

Tested by: Jerry Chang

Test Mode: IEEE 802.11a mode

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	23	21.11	20.07	24.50	281.949	29.79	PASS
44	5220	6	23	21.37	21.38	25.26	335.401	29.79	PASS
48	5240	6	23	21.07	19.06	24.06	254.736	29.79	PASS
149	5745	6	25	18.63	18.08	22.24	167.662	29.79	PASS
157	5785	6	25	19.15	18.16	22.56	180.459	29.79	PASS
165	5825	6	25	19.52	18.03	22.72	187.035	29.79	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	23	21.07	20.07	23.71	235.208	29.79	PASS
44	5220	MCS8	23	21.43	21.4	24.53	283.846	29.79	PASS
48	5240	MCS8	23	21.12	19.07	23.33	215.311	29.79	PASS
149	5745	MCS8	24.75	19.25	19.65	22.57	180.734	29.79	PASS
157	5785	MCS8	24.75	19.31	19.63	22.59	181.499	29.79	PASS
165	5825	MCS8	24.75	18.96	19.45	22.33	170.911	29.79	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	18.5	16.43	15.19	18.93	78.235	29.79	PASS
46	5230	MCS8	23.5	20.87	20.4	23.72	235.573	29.79	PASS
151	5755	MCS8	20	18.36	18.07	21.30	134.813	29.79	PASS
159	5795	MCS8	20	18.51	18.33	21.50	141.281	29.79	PASS