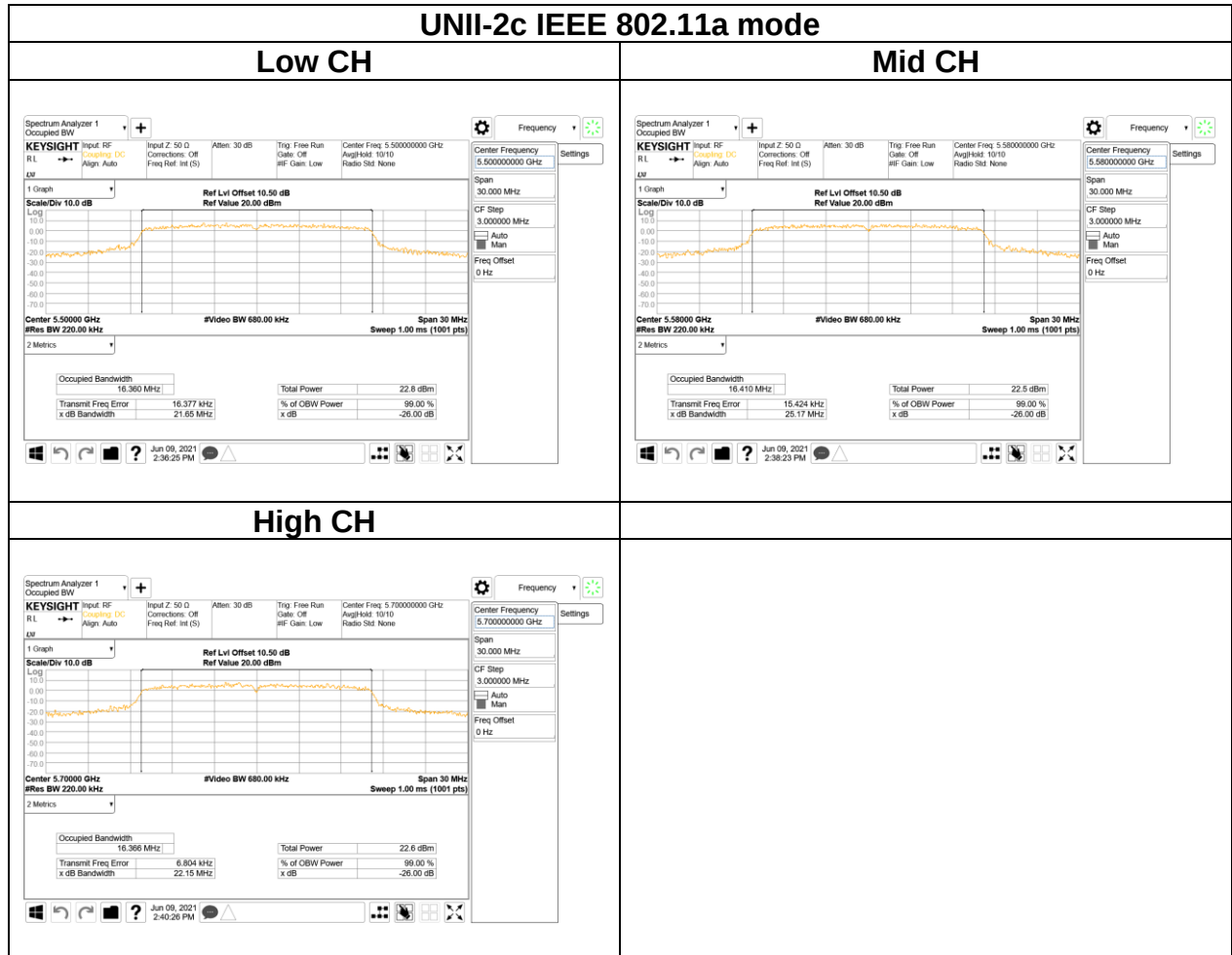
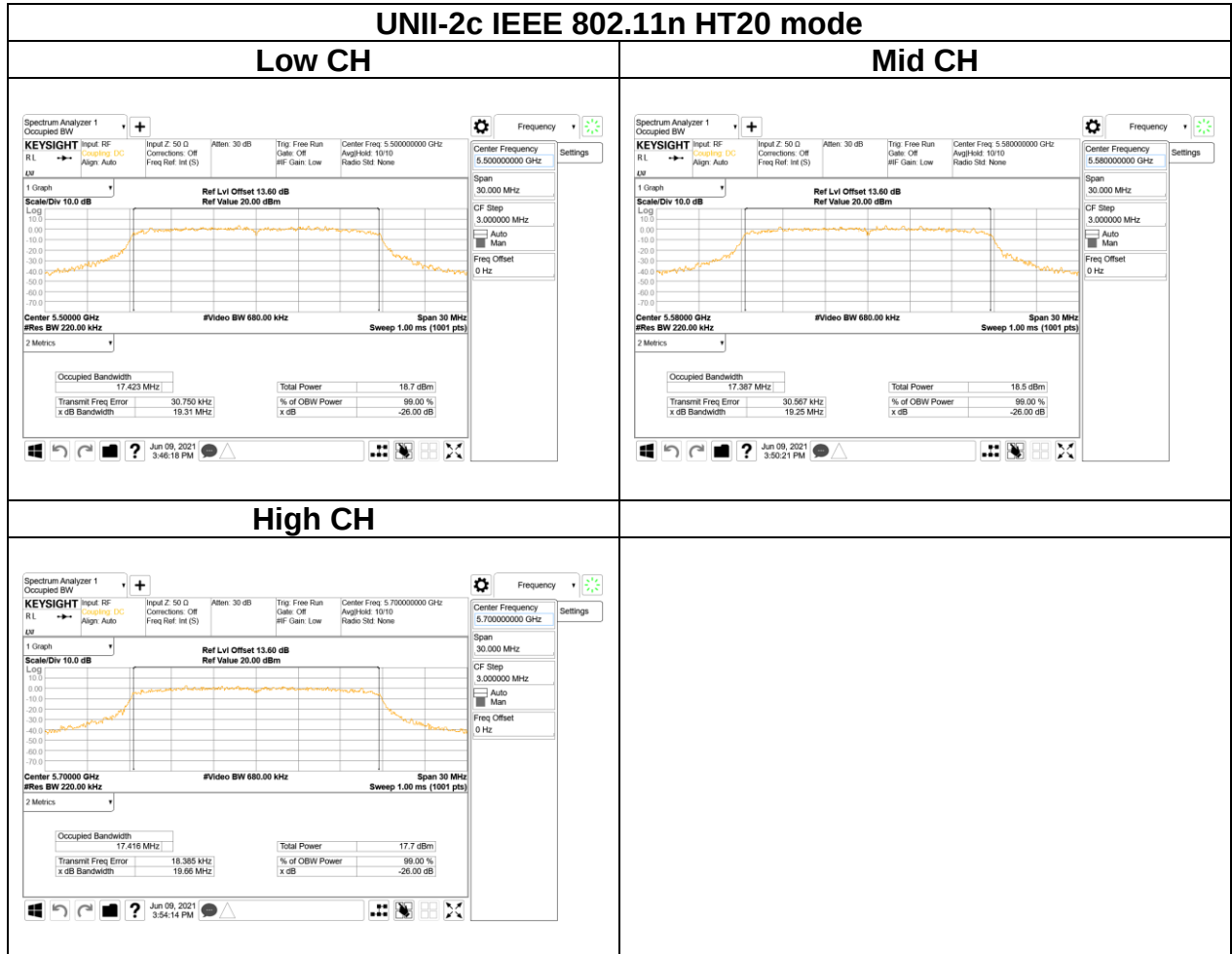


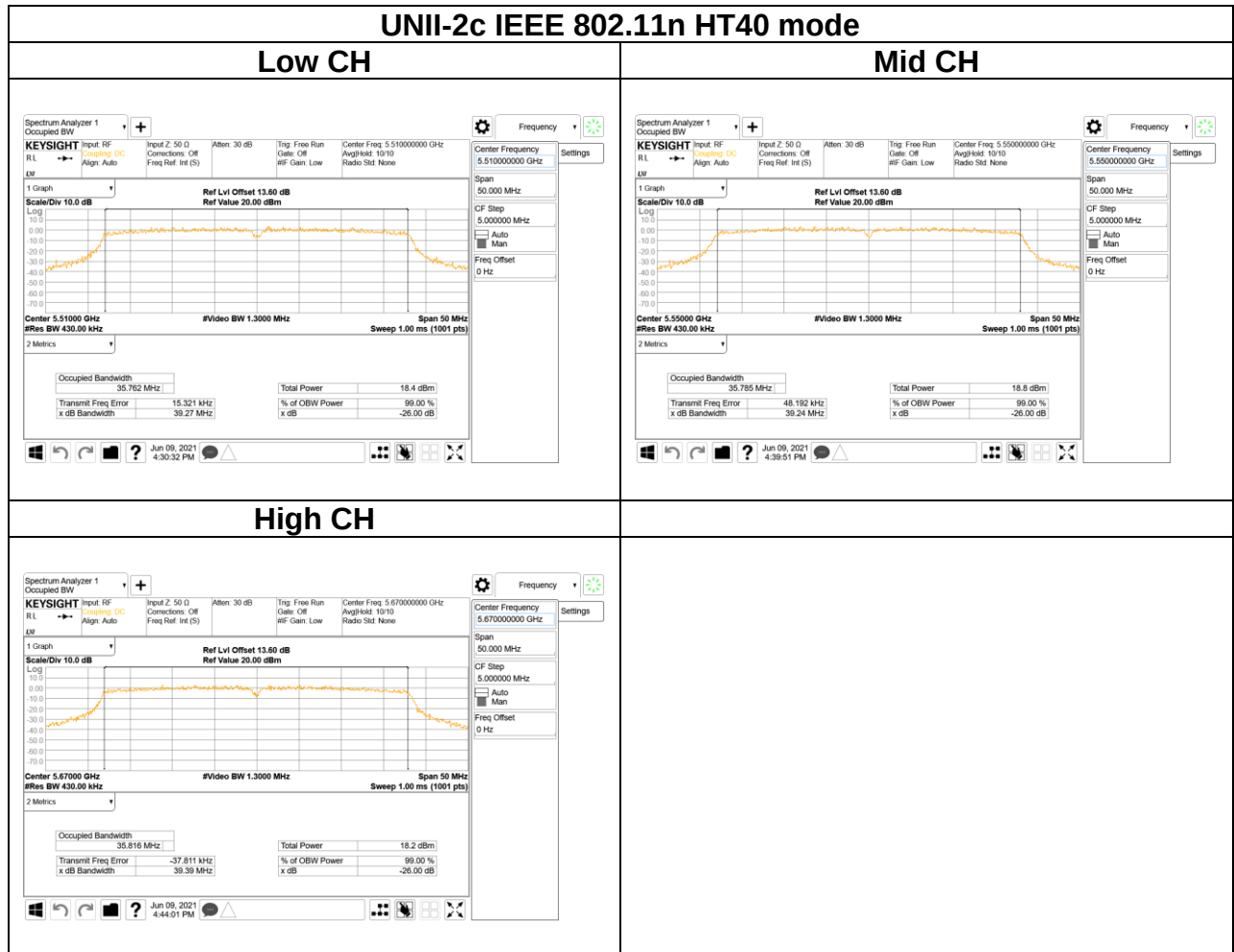


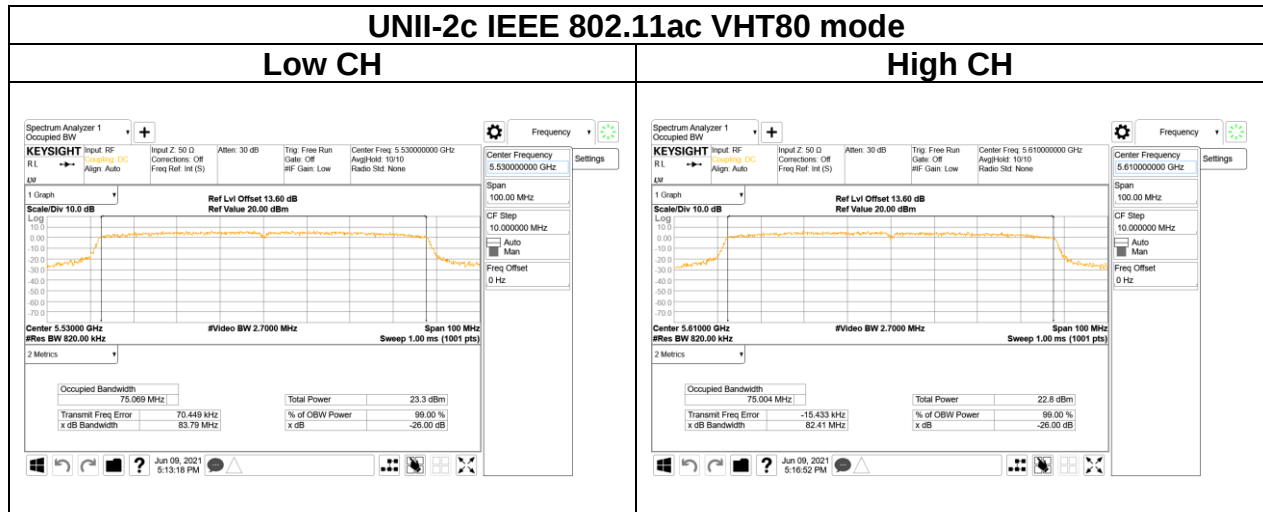
Report No.: T210113D03-RP4

Test Data (26dB BANDWIDTH) Chain 0





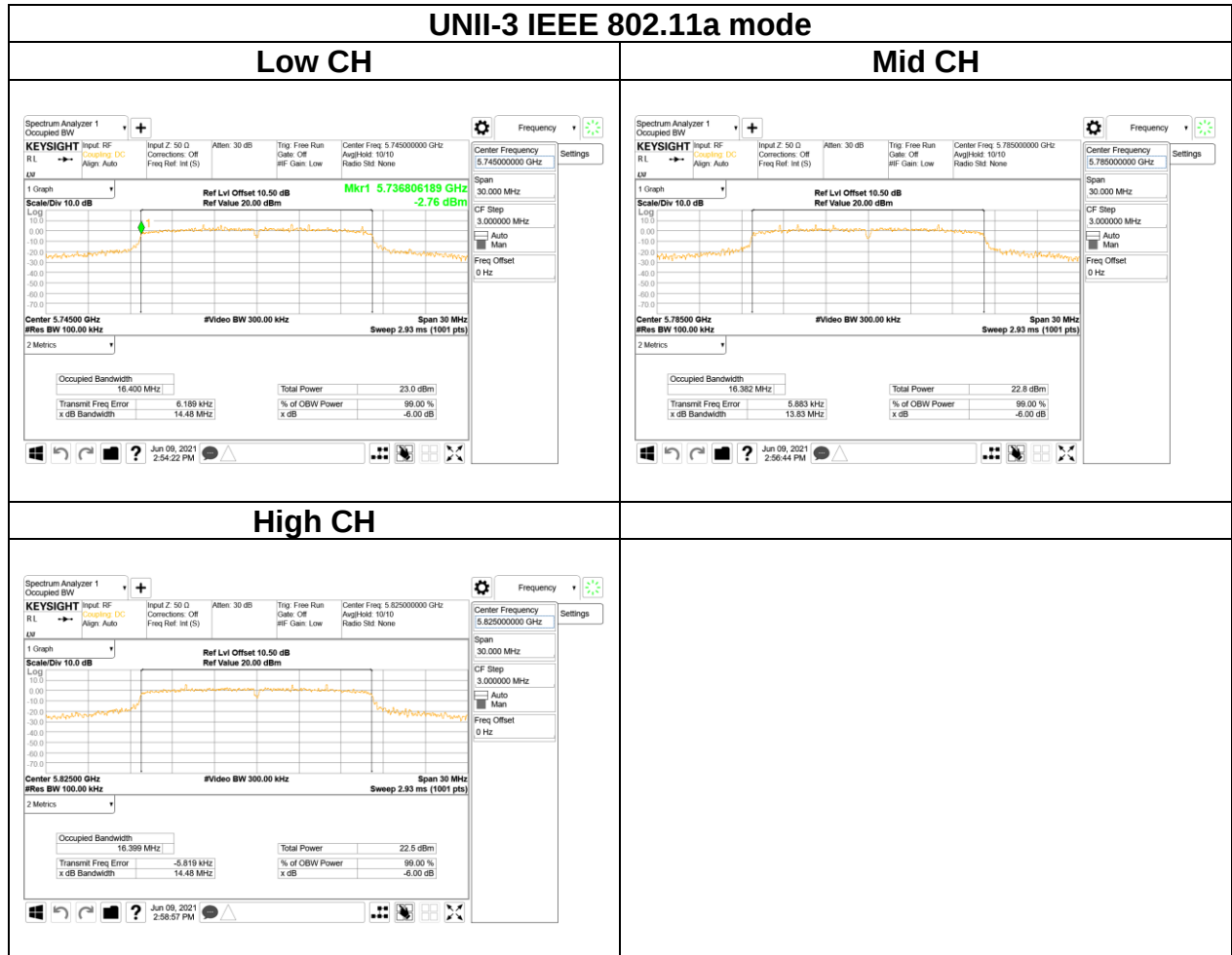


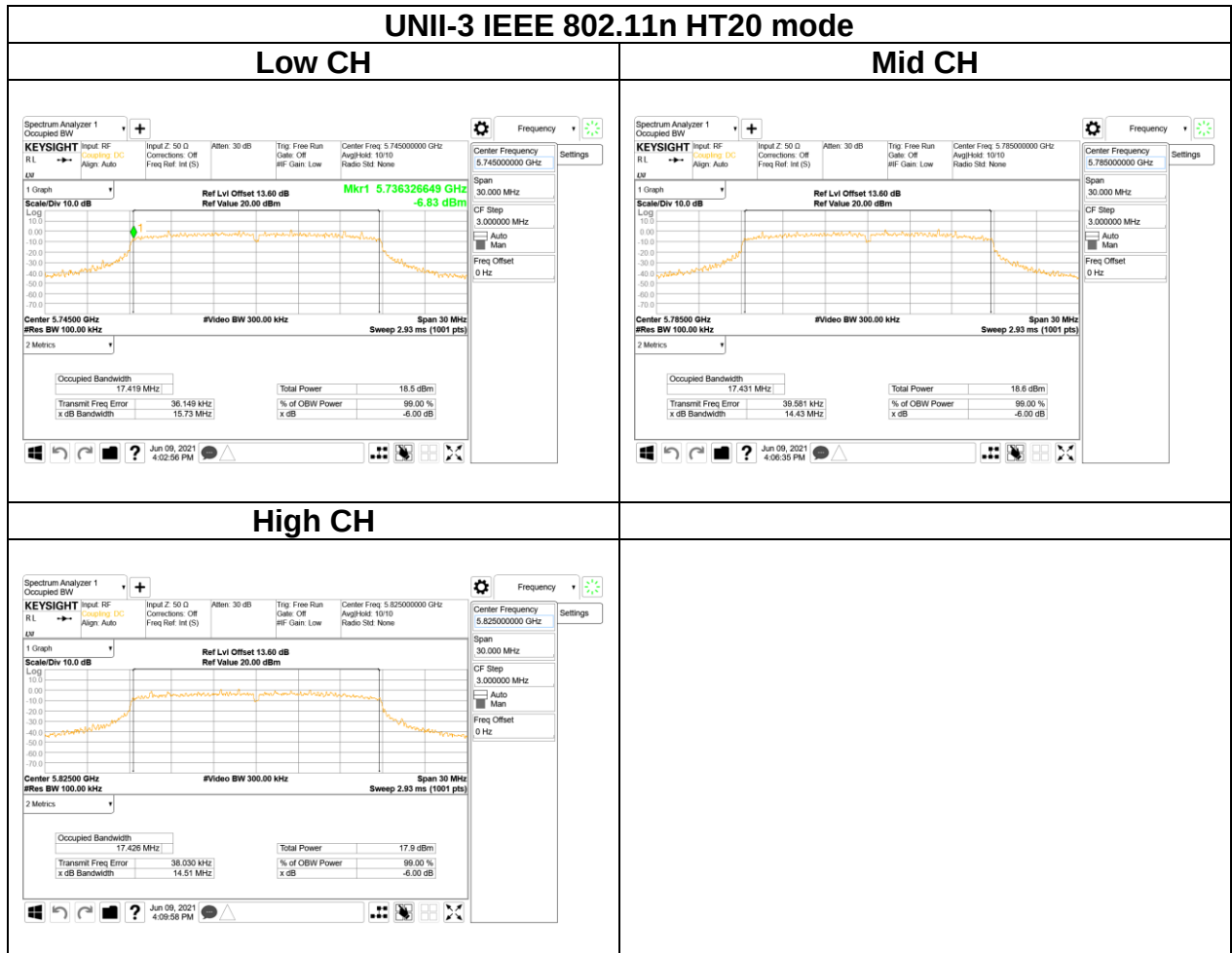


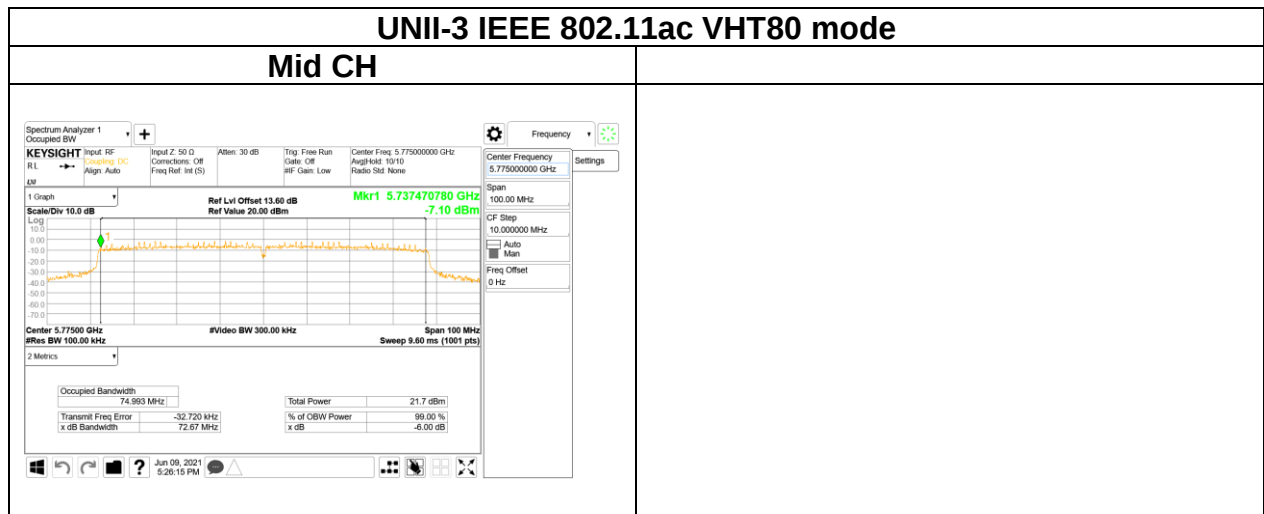
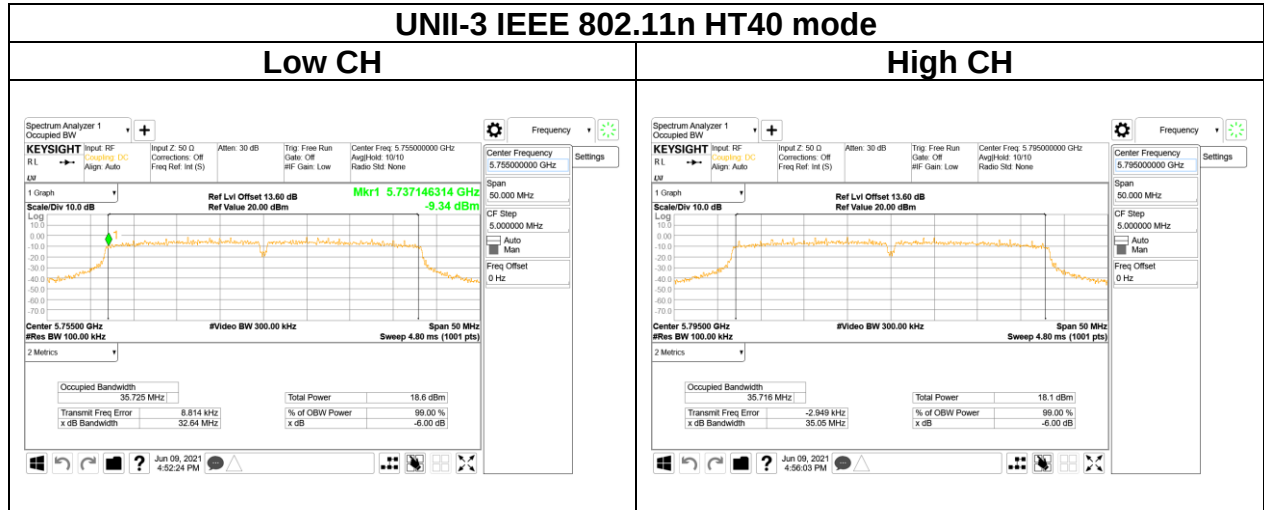


Report No.: T210113D03-RP4

Test Data (6dB BANDWIDTH) Chain 0





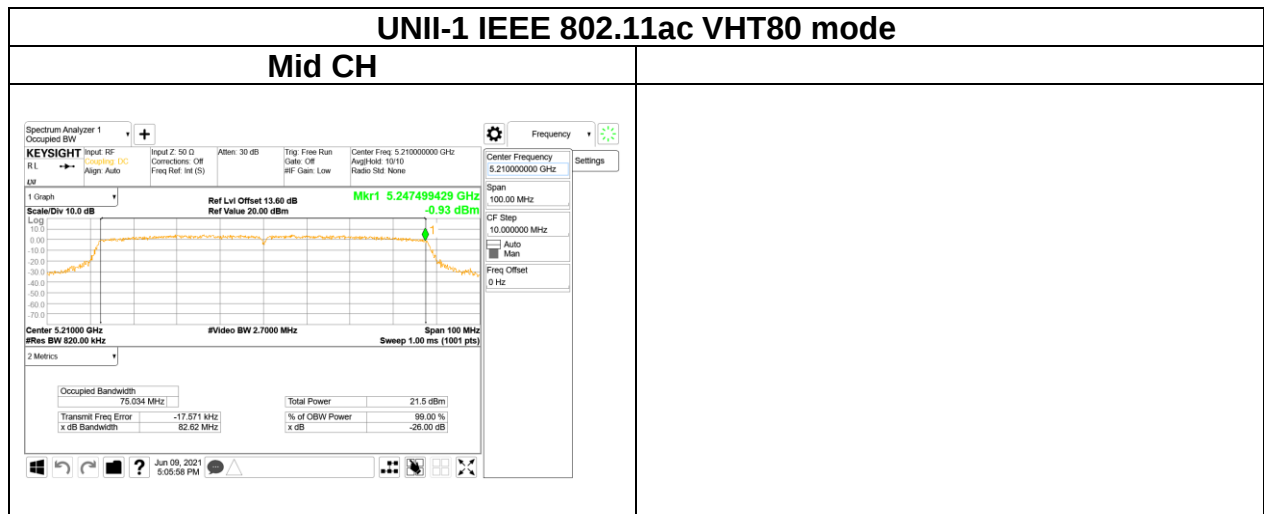
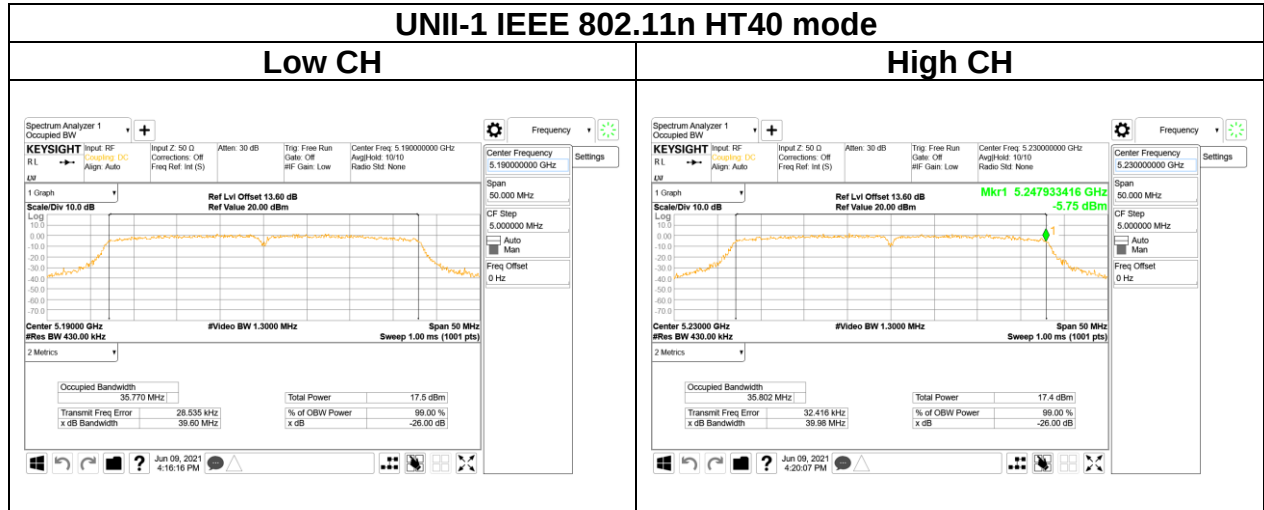




Report No.: T210113D03-RP4

Test Data (26dB BANDWIDTH) Chain 1

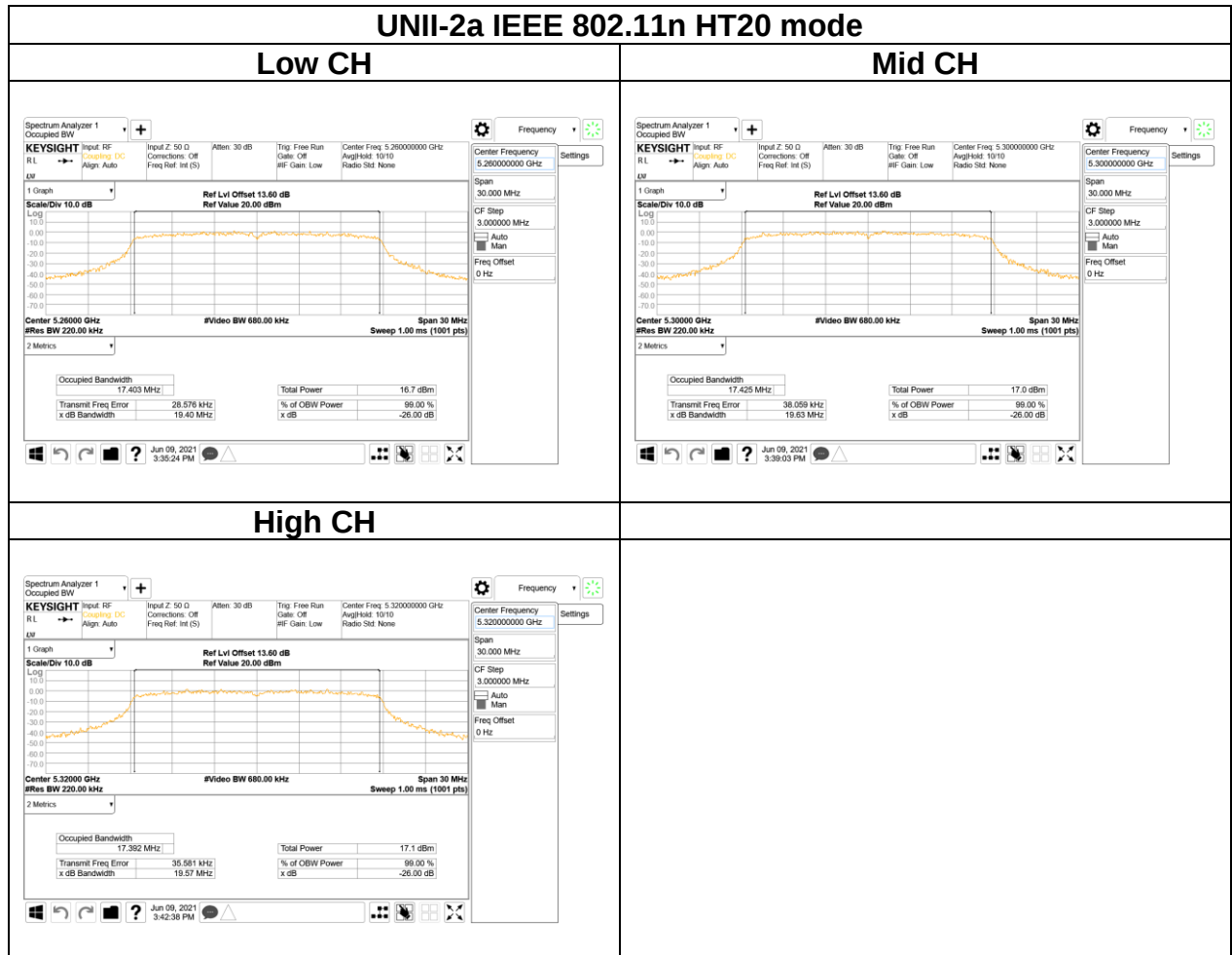


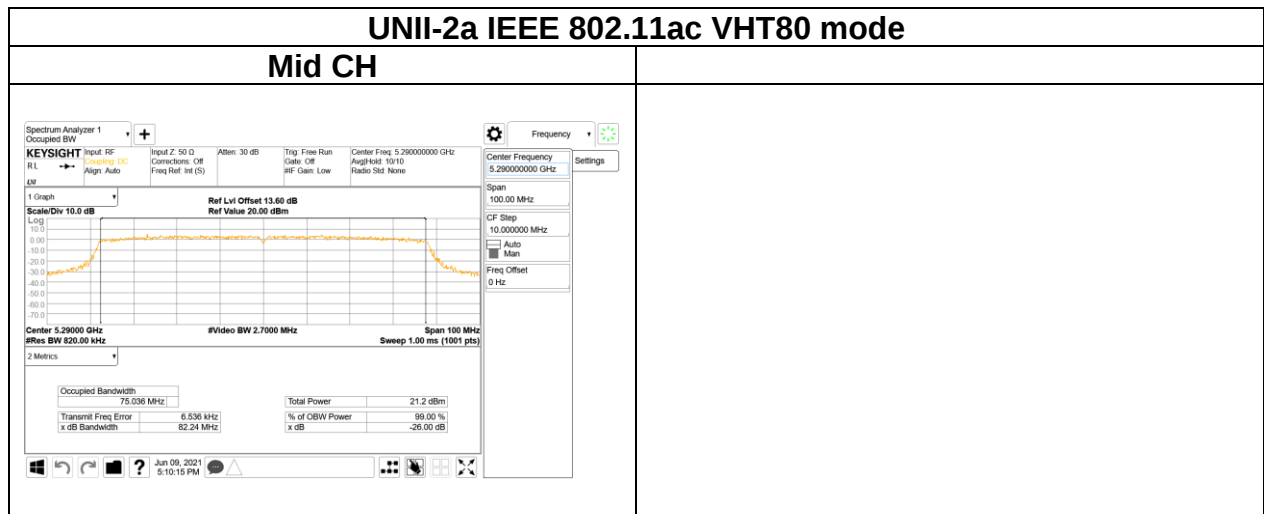
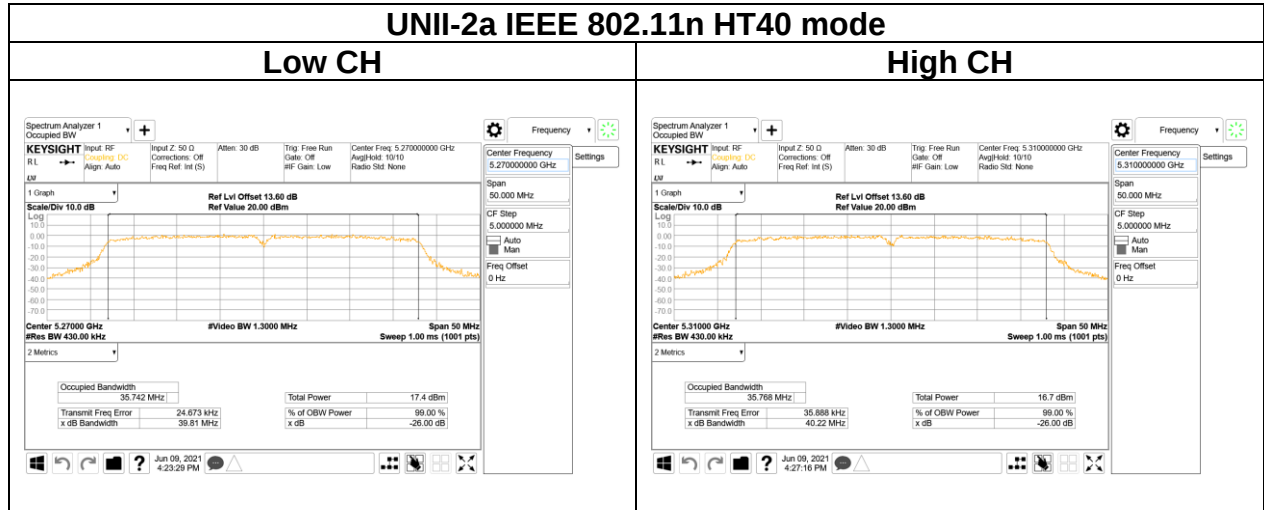




Report No.: T210113D03-RP4

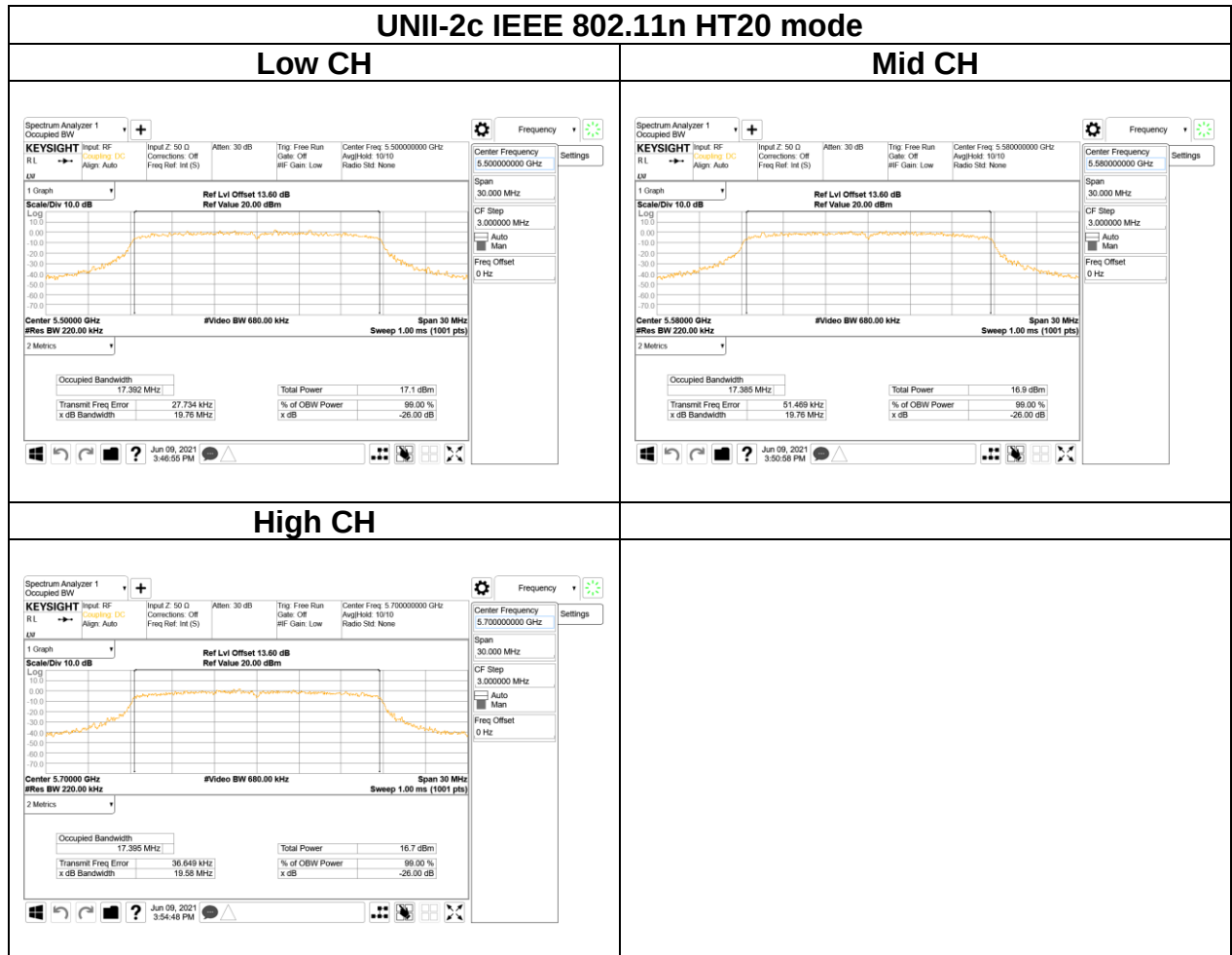
Test Data (26dB BANDWIDTH) Chain 1

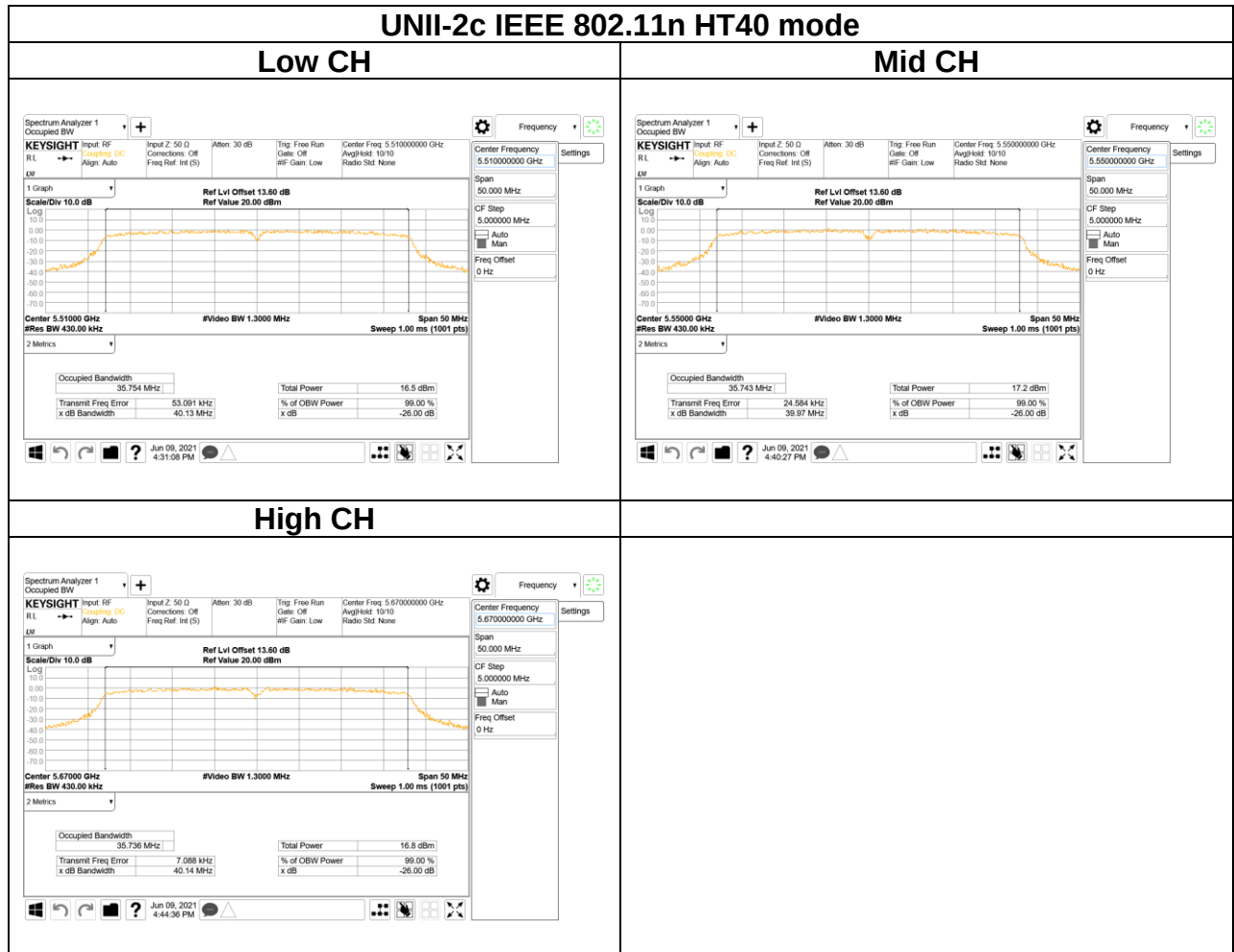


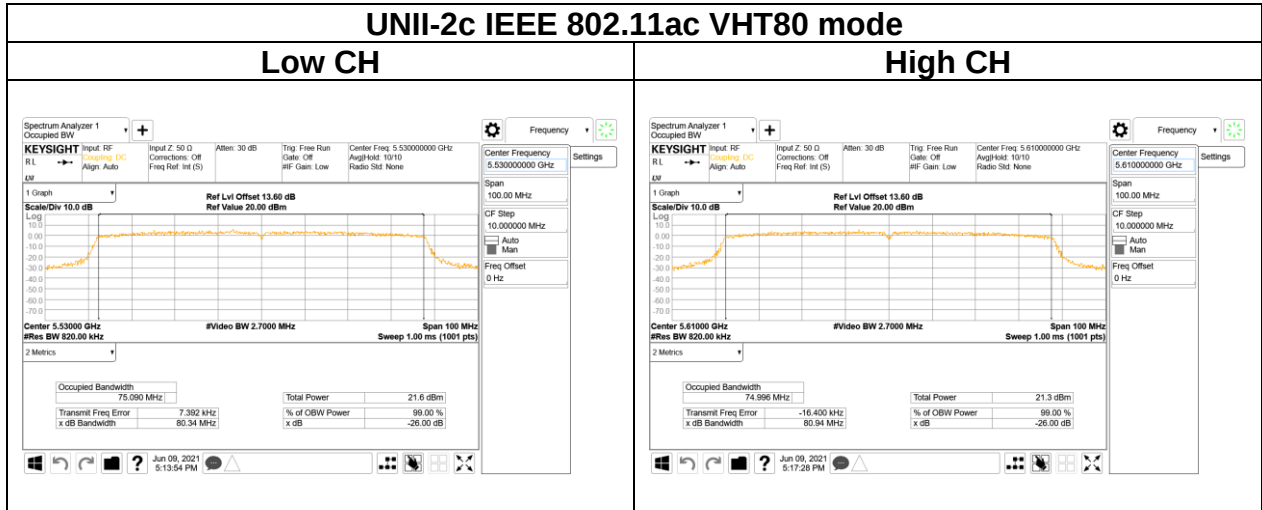


Report No.: T210113D03-RP4

Test Data (26dB BANDWIDTH) Chain 1



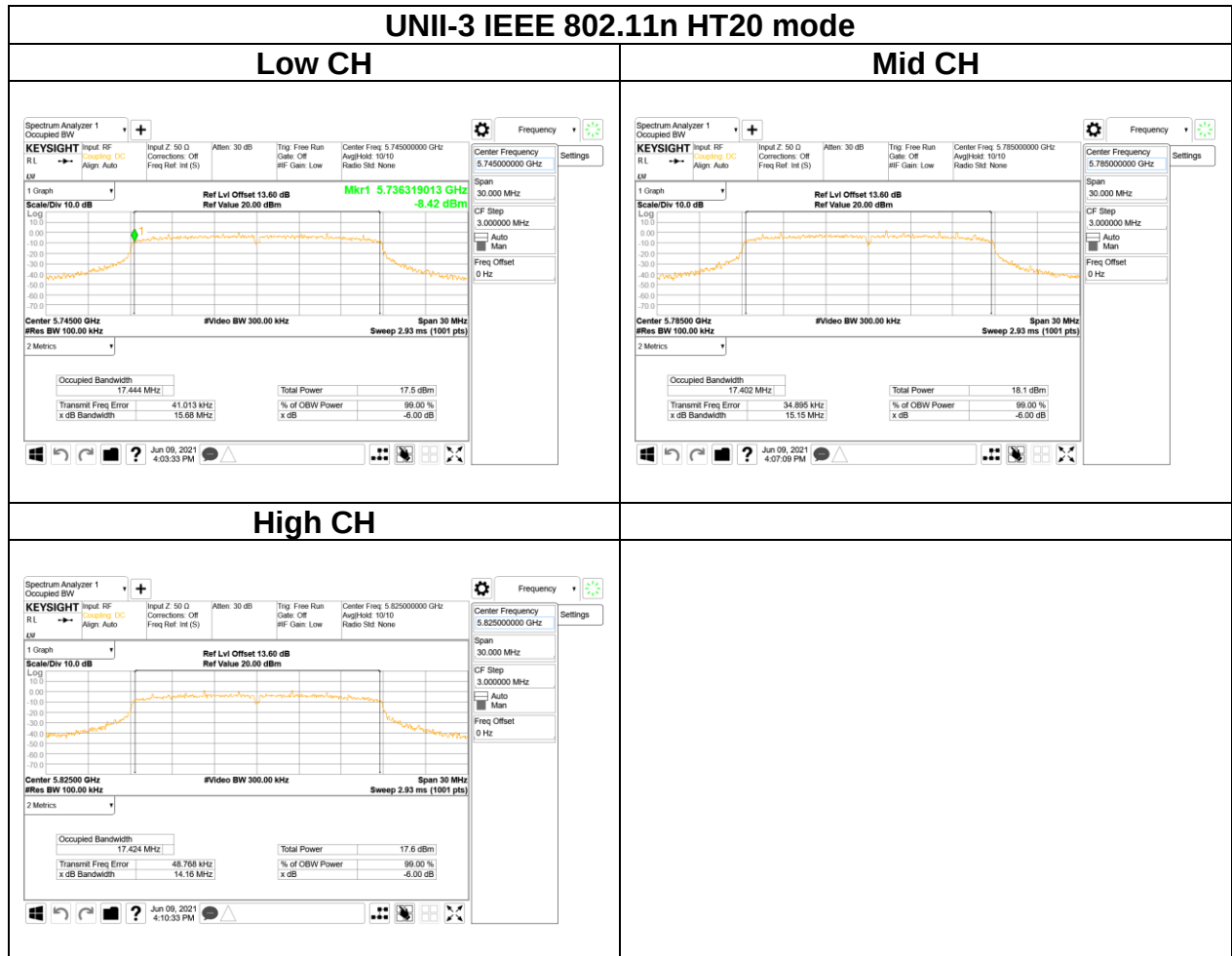


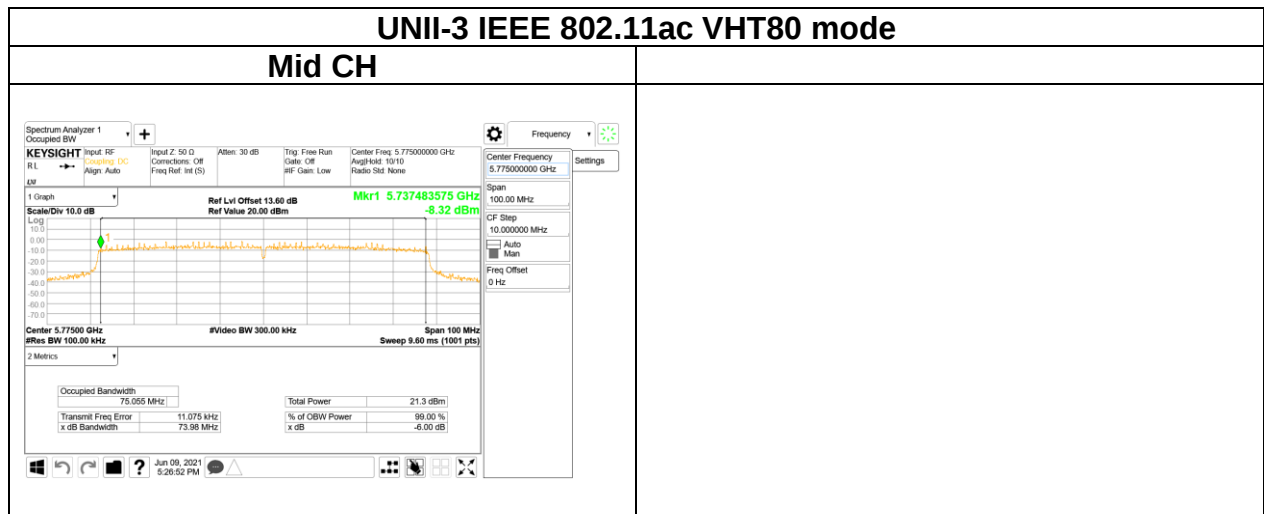
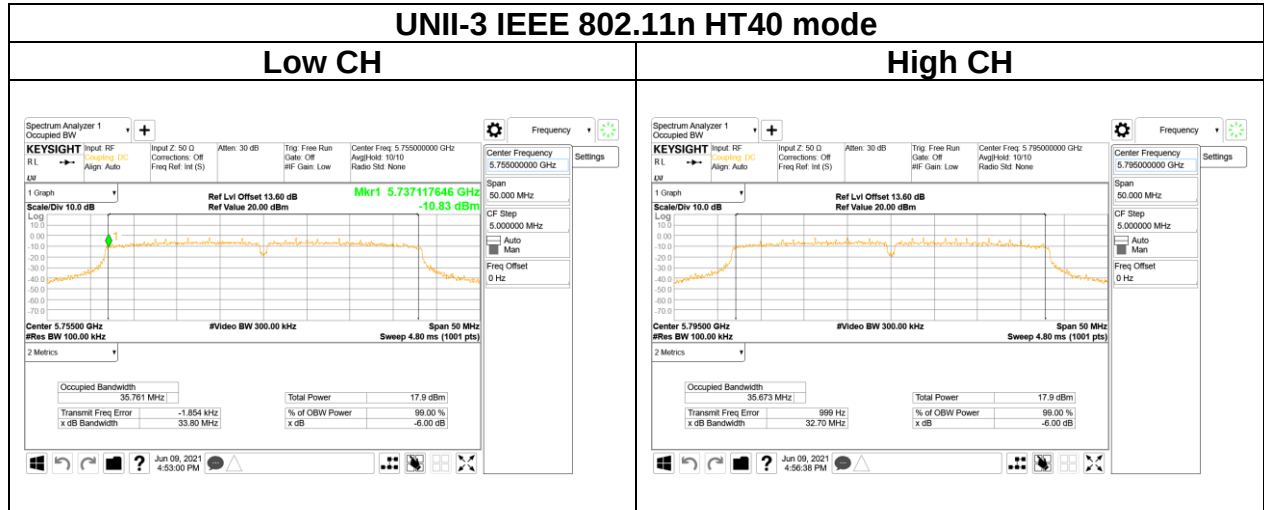




Report No.: T210113D03-RP4

Test Data (6dB BANDWIDTH) Chain 1





4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3), and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

FCC:

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm), whichever power is less. B is the 99% emission bandwidth in megahertz, 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-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. and The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. 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.

IC:
UNII-1 :

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

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 : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-2a Limit	☒ Antenna not exceed 6 dBi : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-2c Limit	☐ 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)]

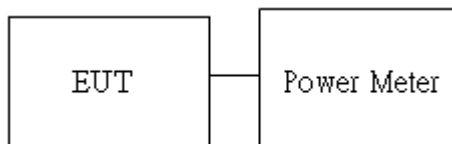
4.3.2 Test Procedure

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

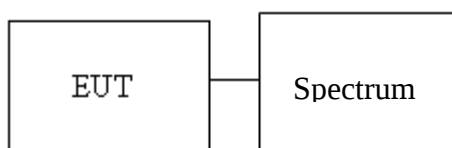
1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz



4.3.4 Test Result

Temperature: 25.8°C

Tested by: Jack Chen

Humidity: 46.3% RH

Test date: June 9, 2021

FCC Output Power :

Test Mode: IEEE 802.11a mode_Chain 0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	14.42	27.687	23.98	PASS
44	5220	6	17	14.31	26.995	23.98	PASS
48	5240	6	17	14.61	28.925	23.98	PASS
52	5260	6	18	15.57	36.081	23.98	PASS
60	5300	6	18.5	15.64	36.667	23.98	PASS
64	5320	6	18.5	15.33	34.141	23.98	PASS
100	5500	6	20.5	16.98	49.920	23.98	PASS
116	5580	6	20.5	16.71	46.911	23.98	PASS
140	5700	6	20.5	16.98	49.920	23.98	PASS
149	5745	6	21	16.93	49.349	30	PASS
157	5785	6	21	16.81	48.004	30	PASS
165	5825	6	21	16.95	49.577	30	PASS

Test Mode: IEEE 802.11a mode_Chain 1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	18.5	15.38	34.536	23.98	PASS
44	5220	6	18.5	14.71	29.599	23.98	PASS
48	5240	6	18.5	14.97	31.425	23.98	PASS
52	5260	6	19.5	16.62	45.949	23.98	PASS
60	5300	6	19.5	16.37	43.379	23.98	PASS
64	5320	6	19.5	16.26	42.294	23.98	PASS
100	5500	6	19.5	16.91	49.122	23.98	PASS
116	5580	6	19.5	16.58	45.528	23.98	PASS
140	5700	6	20	16.65	46.268	23.98	PASS
149	5745	6	20.5	16.89	48.896	30	PASS
157	5785	6	20.5	16.78	47.673	30	PASS
165	5825	6	20	16.87	48.672	30	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	12	7.93	8.27	11.52	14.201	23.98	PASS
44	5220	MCS8	12	8.03	8.12	11.50	14.110	23.98	PASS
48	5240	MCS8	12	8.96	9.25	12.53	17.895	23.98	PASS
52	5260	MCS8	12	8.72	9.46	12.53	17.888	23.88	PASS
60	5300	MCS8	12.5	8.92	9.48	12.63	18.319	23.88	PASS
64	5320	MCS8	12.5	8.72	9.69	12.65	18.416	23.89	PASS
100	5500	MCS8	12.5	8.45	9.83	12.61	18.258	23.86	PASS
116	5580	MCS8	12.5	8.65	9.49	12.51	17.824	23.84	PASS
140	5700	MCS8	12.5	8.71	9.53	12.56	18.027	23.92	PASS
149	5745	MCS8	13	8.75	9.52	12.57	18.080	29.43	PASS
157	5785	MCS8	13.5	9.02	9.58	12.73	18.745	29.43	PASS
165	5825	MCS8	13.5	9.07	10.02	12.99	19.910	29.43	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	15.5	10.63	11.14	14.66	29.241	23.98	PASS
46	5230	MCS8	15.5	11.09	11.43	15.03	31.848	23.98	PASS
54	5270	MCS8	12.5	8.56	9.71	12.94	19.681	23.98	PASS
62	5310	MCS8	12	8.46	9.34	12.69	18.577	23.98	PASS
102	5510	MCS8	12	8.38	9.27	12.62	18.261	23.92	PASS
110	5550	MCS8	12.5	8.06	9.56	12.64	18.374	23.92	PASS
134	5670	MCS8	12.5	8.58	9.43	12.79	19.025	23.92	PASS
151	5755	MCS8	13	9.03	9.14	12.85	19.288	29.43	PASS
159	5795	MCS8	13	8.55	9.32	12.72	18.705	29.43	PASS

Test Mode: IEEE 802.11ac VHT80 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				
42	5210	MCS0	15.5	11.74	11.82	15.65	36.748	23.98	PASS
58	5290	MCS0	15.5	11.58	11.96	15.65	36.697	23.98	PASS
106	5530	MCS0	16	11.27	12.65	15.89	38.786	23.92	PASS
122	5610	MCS0	16	11.74	12.42	15.97	39.495	23.92	PASS
155	5775	MCS0	16	11.43	11.76	15.47	35.239	29.43	PASS

IC EIRP Output Power :

Test Mode: IEEE 802.11a mode_Chain 0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.42	2.48	16.90	49.009	22.13	PASS
44	5220	14.31	2.48	16.79	47.783	22.12	PASS
48	5240	14.61	2.48	17.09	51.201	22.12	PASS
52	5260	15.57	2.48	18.05	63.867	29.12	PASS
60	5300	15.64	2.48	18.12	64.905	29.13	PASS
64	5320	15.33	2.48	17.81	60.433	29.12	PASS
100	5500	16.98	3.46	20.44	110.733	29.14	PASS
116	5580	16.71	3.46	20.17	104.058	29.14	PASS
140	5700	16.98	3.46	20.44	110.733	29.14	PASS

Test Mode: IEEE 802.11a mode_Chain 1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.38	2.340	17.72	59.194	22.13	PASS
44	5220	14.71	2.340	17.05	50.731	22.12	PASS
48	5240	14.97	2.340	17.31	53.861	22.12	PASS
52	5260	16.62	2.480	19.10	81.335	29.12	PASS
60	5300	16.37	2.480	18.85	76.785	29.13	PASS
64	5320	16.26	2.480	18.74	74.865	29.12	PASS
100	5500	16.91	2.610	19.52	89.593	29.14	PASS
116	5580	16.58	2.610	19.19	83.038	29.14	PASS
140	5700	16.65	2.610	19.26	84.387	29.14	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.52	5.42	16.94	49.468	22.41	PASS
44	5220	11.50	5.42	16.92	49.149	22.41	PASS
48	5240	12.53	5.42	17.95	62.335	22.4	PASS
52	5260	12.53	5.49	18.02	63.323	29.41	PASS
60	5300	12.63	5.49	18.12	64.847	29.4	PASS
64	5320	12.65	5.49	18.14	65.192	29.4	PASS
100	5500	12.61	6.06	18.67	73.697	29.4	PASS
116	5580	12.51	6.06	18.57	71.948	29.41	PASS
140	5700	12.56	6.06	18.62	72.765	29.41	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.66	5.42	20.08	101.859	23.01	PASS
46	5230	15.03	5.42	20.45	110.939	23.01	PASS
54	5270	12.94	5.49	18.43	69.670	30	PASS
62	5310	12.69	5.49	18.18	65.762	30	PASS
102	5510	12.62	6.06	18.68	73.710	30	PASS
110	5550	12.64	6.06	18.70	74.164	30	PASS
134	5670	12.79	6.06	18.85	76.794	30	PASS

Test Mode: IEEE 802.11ac VHT80 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	15.65	5.42	21.07	128.007	23.01	PASS
58	5290	15.65	5.49	21.14	129.907	30	PASS
106	5530	15.89	6.06	21.95	156.558	30	PASS

IC Output Power :

Test Mode: IEEE 802.11a mode_Chain 0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.57	36.081	23.12	PASS
60	5300	15.64	36.667	23.13	PASS
64	5320	15.33	34.141	23.12	PASS
100	5500	16.98	49.920	23.14	PASS
116	5580	16.71	46.911	23.14	PASS
140	5700	16.98	49.920	23.14	PASS
149	5745	16.93	49.349	30	PASS
157	5785	16.81	48.004	30	PASS
165	5825	16.95	49.577	30	PASS

Test Mode: IEEE 802.11a mode_Chain 1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.62	45.949	23.12	PASS
60	5300	16.37	43.379	23.13	PASS
64	5320	16.26	42.294	23.12	PASS
100	5500	16.91	49.122	23.14	PASS
116	5580	16.58	45.528	23.14	PASS
140	5700	16.65	46.268	23.14	PASS
149	5745	16.89	48.896	30	PASS
157	5785	16.78	47.673	30	PASS
165	5825	16.87	48.672	30	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	8.72	9.46	12.53	17.888	23.41	PASS
60	5300	8.92	9.48	12.63	18.319	23.4	PASS
64	5320	8.72	9.69	12.65	18.416	23.4	PASS
100	5500	8.45	9.83	12.61	18.258	23.4	PASS
116	5580	8.65	9.49	12.51	17.824	23.41	PASS
140	5700	8.71	9.53	12.56	18.027	23.41	PASS
149	5745	8.75	9.52	12.57	18.080	30	PASS
157	5785	9.02	9.58	12.73	18.745	30	PASS
165	5825	9.07	10.02	12.99	19.910	30	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	8.56	9.71	12.94	19.681	23.98	PASS
62	5310	8.46	9.34	12.69	18.577	23.98	PASS
102	5510	8.38	9.27	12.62	18.261	23.98	PASS
110	5550	8.06	9.56	12.64	18.374	23.98	PASS
134	5670	8.58	9.43	12.79	19.025	23.98	PASS
151	5755	9.03	9.14	12.85	19.288	30	PASS
159	5795	8.55	9.32	12.72	18.705	30	PASS

Test Mode: IEEE 802.11ac VHT80 mode

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	11.58	11.96	15.65	36.697	23.98	PASS
106	5530	11.27	12.65	15.89	38.786	23.98	PASS
122	5610	11.74	12.42	15.97	39.495	23.98	PASS
155	5775	11.43	11.76	15.47	35.239	30	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

According to RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

UNII-1:

FCC: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

IC: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz 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-2a and 2c:

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.

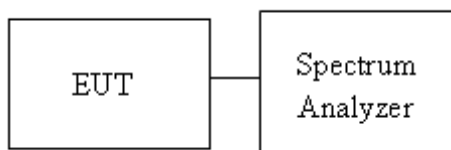
UNII-1 Limit	☒ Antenna not exceed 6 dBi : 11 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2a Limit	☒ Antenna not exceed 6 dBi : 11 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2c Limit	☐ Antenna not exceed 6 dBi : 11 dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-3 Limit	☐ Antenna not exceed 6 dBi : 30 dBm ☒ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1, UNII-2a and UNII-2c, SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 500kHz, VBW = 2MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 25.2~25.8°C
Humidity: 45.8~46.3 %RH

Tested by: Jack Chen
Test date: June 9 ~ 30, 2021

UNII-1 5150-5250 MHz						
POWER DENSITY 802.11a MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5180	4.03	-	0.22	4.25	11.00	-6.75
5220	4.08	-	0.22	4.30	11.00	-6.70
5240	3.91	-	0.22	4.13	11.00	-6.87

EIRP spectral density 802.11a mode						
Channel	Frequency (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5180	4.25	2.48	6.73	10	-3.27
Mid	5220	4.30	2.48	6.78	10	-3.22
High	5240	4.13	2.48	6.61	10	-3.39

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5180	-0.044	0.365	0.41	3.59	11.00	-7.41
5220	-0.029	0.377	0.41	3.60	11.00	-7.40
5240	0.554	0.424	0.41	3.91	11.00	-7.09

EIRP spectral density 802.11n HT20 mode						
Channel	Frequency (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5180	3.59	5.42	9.01	10	-0.99
Mid	5220	3.60	5.42	9.02	10	-0.98
High	5240	3.91	5.42	9.33	10	-0.67

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5190	0.567	-0.316	0.76	3.92	11.00	-7.08
5230	1.281	0.055	0.76	4.48	11.00	-6.52

EIRP spectral density 802.11n HT40 mode						
Channel	Frequency (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5190	3.92	5.42	9.34	10	-0.66
High	5230	4.48	5.42	9.90	10	-0.10

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5210	-0.071	-0.119	0.86	3.78	11.00	-7.22

EIRP spectral density 802.11ac VHT80 mode						
Channel	Frequency (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Mid	5210	3.78	5.42	9.20	10	-0.80

UNII-2a 5250-5350 MHz						
POWER DENSITY 802.11a MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5260	6.356	-	0.22	6.58	11.00	-4.42
5300	6.591	-	0.22	6.81	11.00	-4.19
5320	6.391	-	0.22	6.61	11.00	-4.39

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5260	0.184	0.245	0.41	3.63	11.00	-7.37
5300	1.894	0.772	0.41	4.79	11.00	-6.21
5320	1.834	0.189	0.41	4.51	11.00	-6.49

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5270	-2.332	-2.508	0.76	1.35	11.00	-9.65
5310	-1.772	-2.982	0.76	1.44	11.00	-9.56

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5290	-1.766	-2.899	0.86	1.57	11.00	-9.43

UNII-2c 5470-5725 MHz						
POWER DENSITY 802.11a MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	6.383	-	0.22	6.60	11.00	-4.40
5580	6.255	-	0.22	6.48	11.00	-4.52
5700	6.050	-	0.22	6.27	11.00	-4.73

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	2.286	0.490	0.41	4.90	10.94	-6.04
5580	2.121	0.012	0.41	4.61	10.94	-6.33
5700	1.437	0.459	0.41	4.40	10.94	-6.54

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5510	-1.669	-3.414	0.76	1.32	10.94	-9.62
5550	-1.090	-2.639	0.76	1.97	10.94	-8.97
5670	-1.768	-2.784	0.76	1.52	10.94	-9.42

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5530	-0.772	-2.512	0.86	2.31	10.94	-8.62
5610	-1.448	-2.820	0.86	1.79	10.94	-9.15

UNII-3 5725-5825 MHz							
POWER DENSITY 802.11a MODE							
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD	Duty Factor (dB)	10log (500kHz/RBW)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	1.912	-	0.22	2.22	4.35	30.00	-25.65
5785	1.476	-	0.22	2.22	3.92	30.00	-26.08
5825	1.217	-	0.22	2.22	3.66	30.00	-26.34

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD	Duty Factor (dB)	10log (500kHz/RBW)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-3.485	-4.211	0.41	2.22	1.81	29.43	-27.62
5785	-3.128	-3.739	0.41	2.22	2.22	29.43	-27.21
5825	-4.092	-3.812	0.41	2.22	1.69	29.43	-27.74

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD	Duty Factor (dB)	10log (500kHz/RBW)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-7.162	-7.229	0.76	2.22	-1.20	29.43	-30.63
5795	-6.961	-7.208	0.76	2.22	-1.09	29.43	-30.52

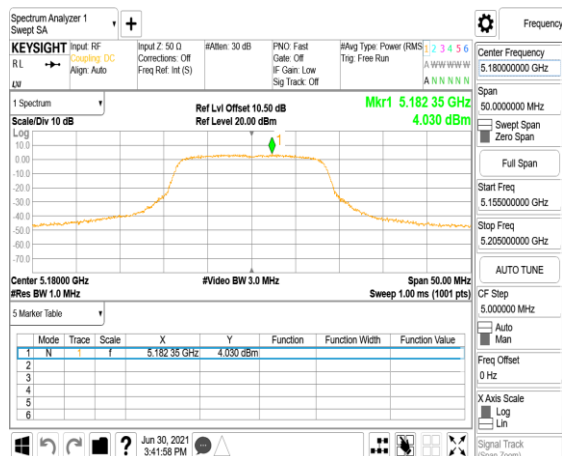
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD	Duty Factor (dB)	10log (500kHz/RBW)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-7.510	-7.935	0.86	2.22	-1.63	29.43	-31.06

Test Data

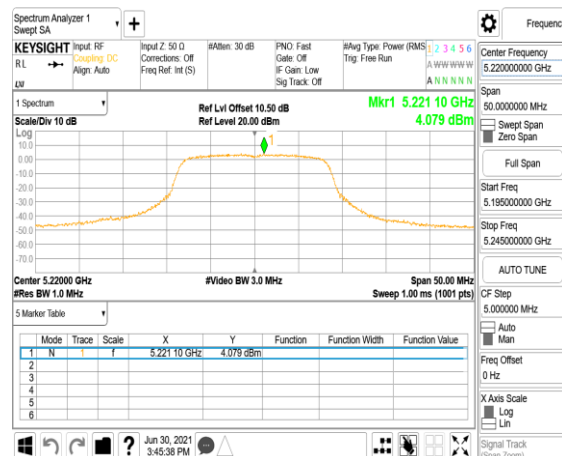
Chain 0

UNII-1 IEEE 802.11a mode- chain 0

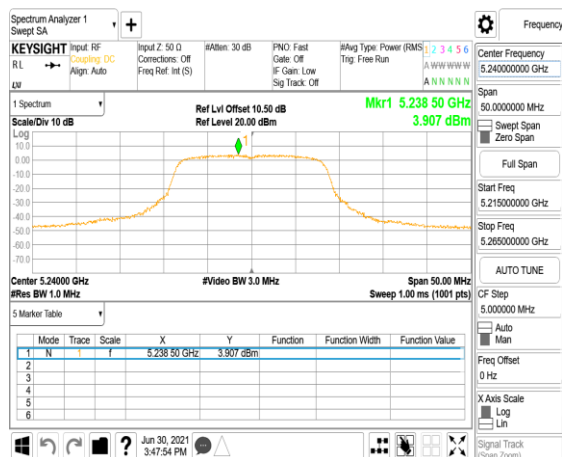
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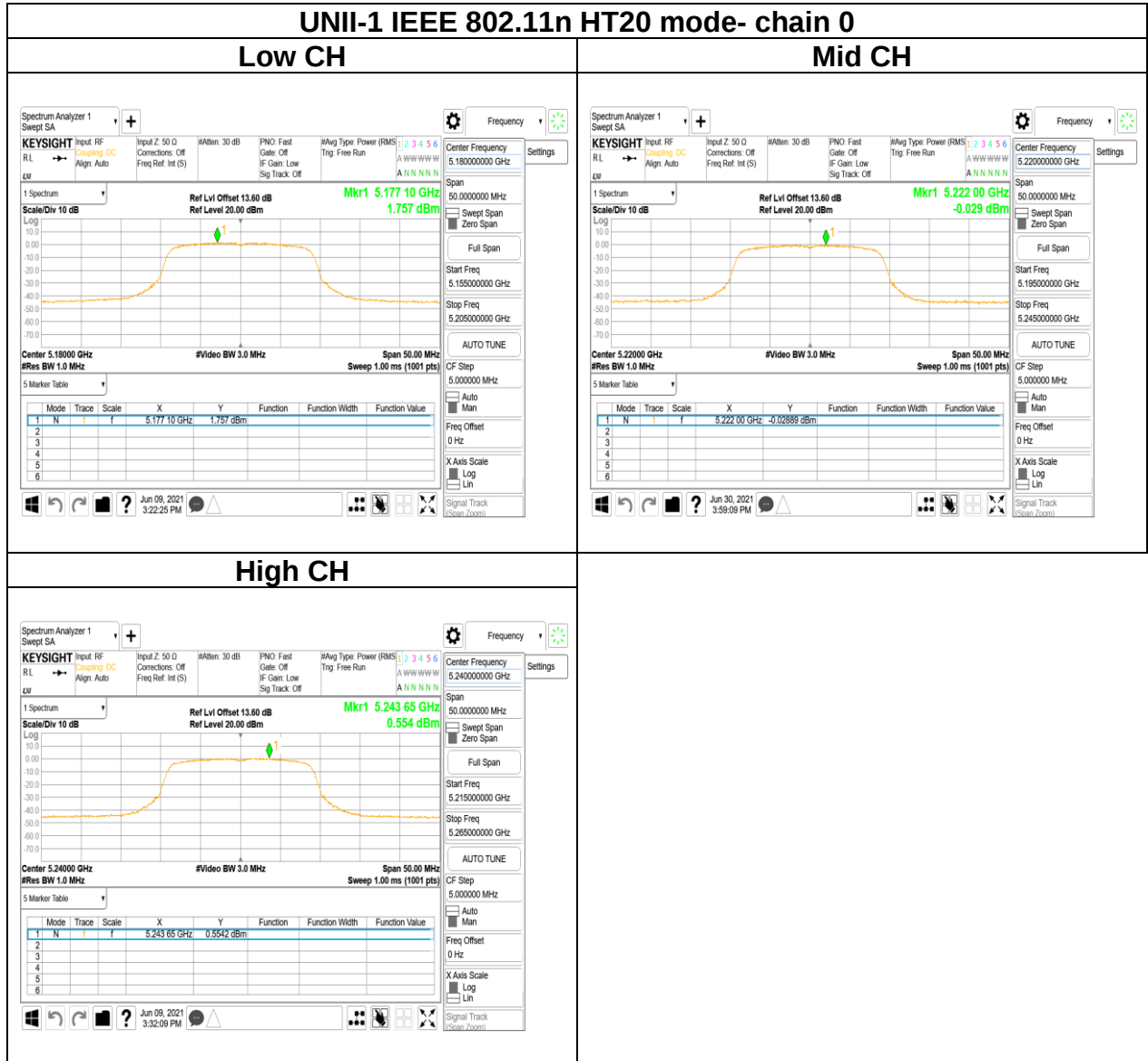


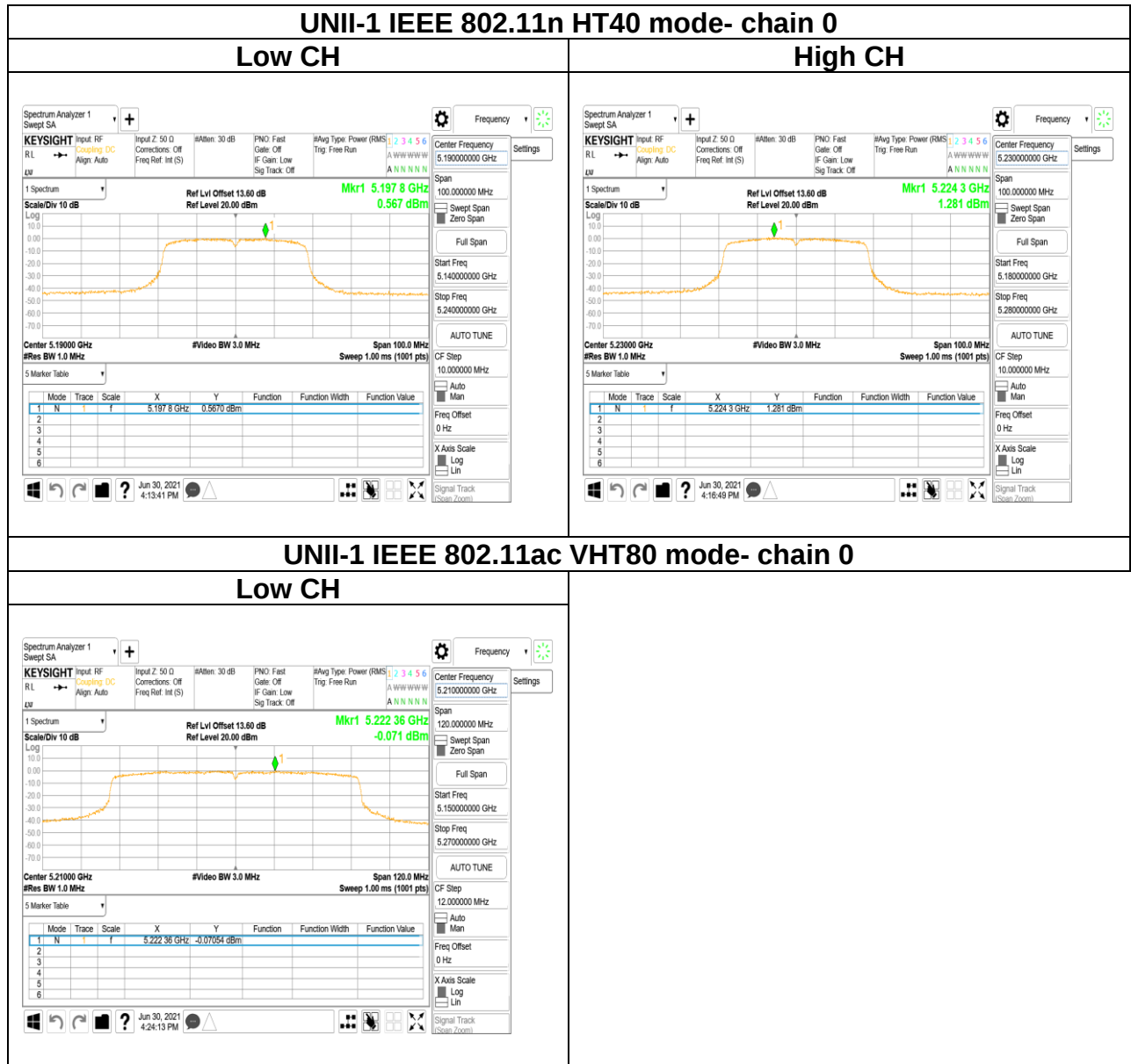
Mid CH



High CH

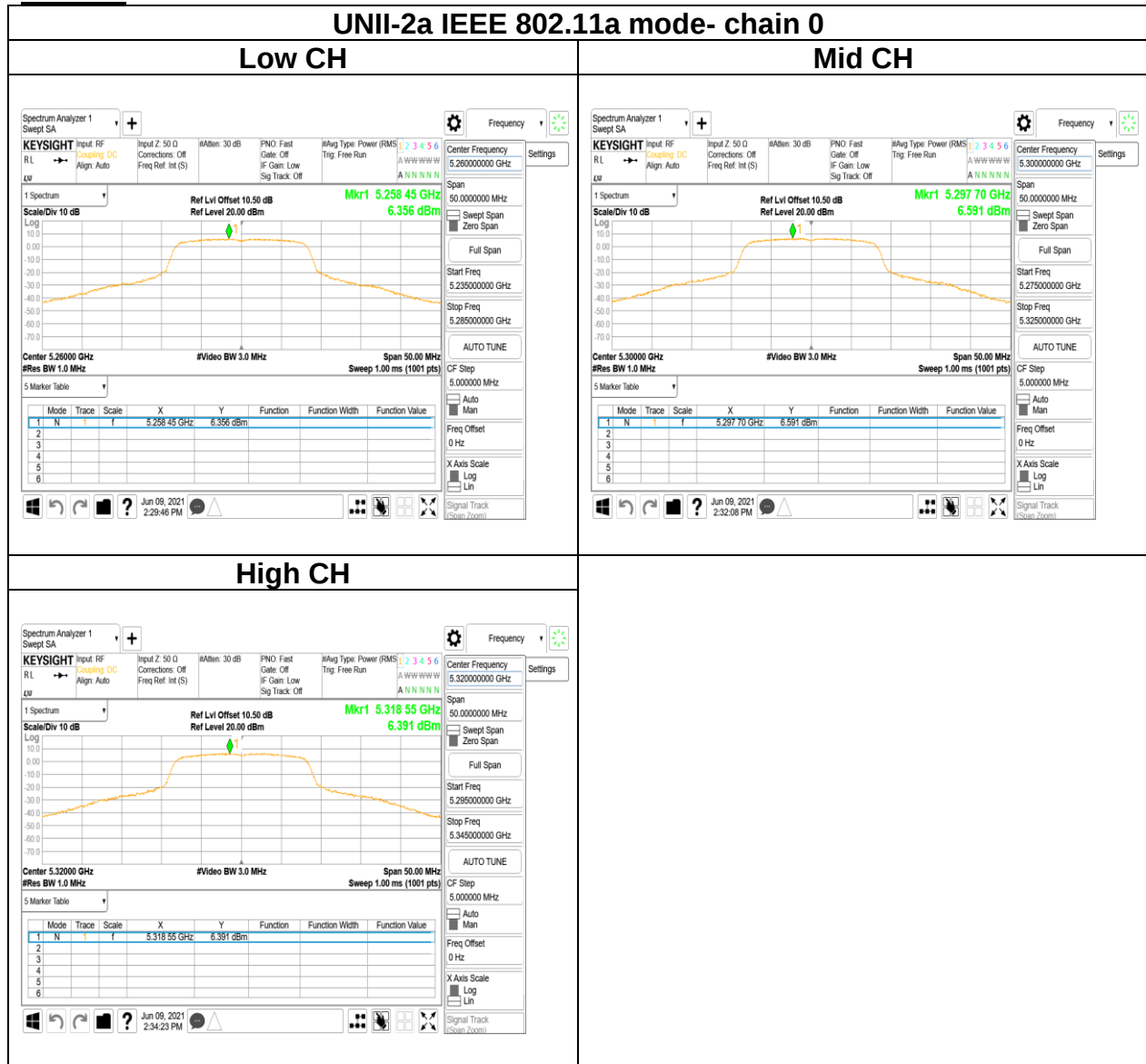


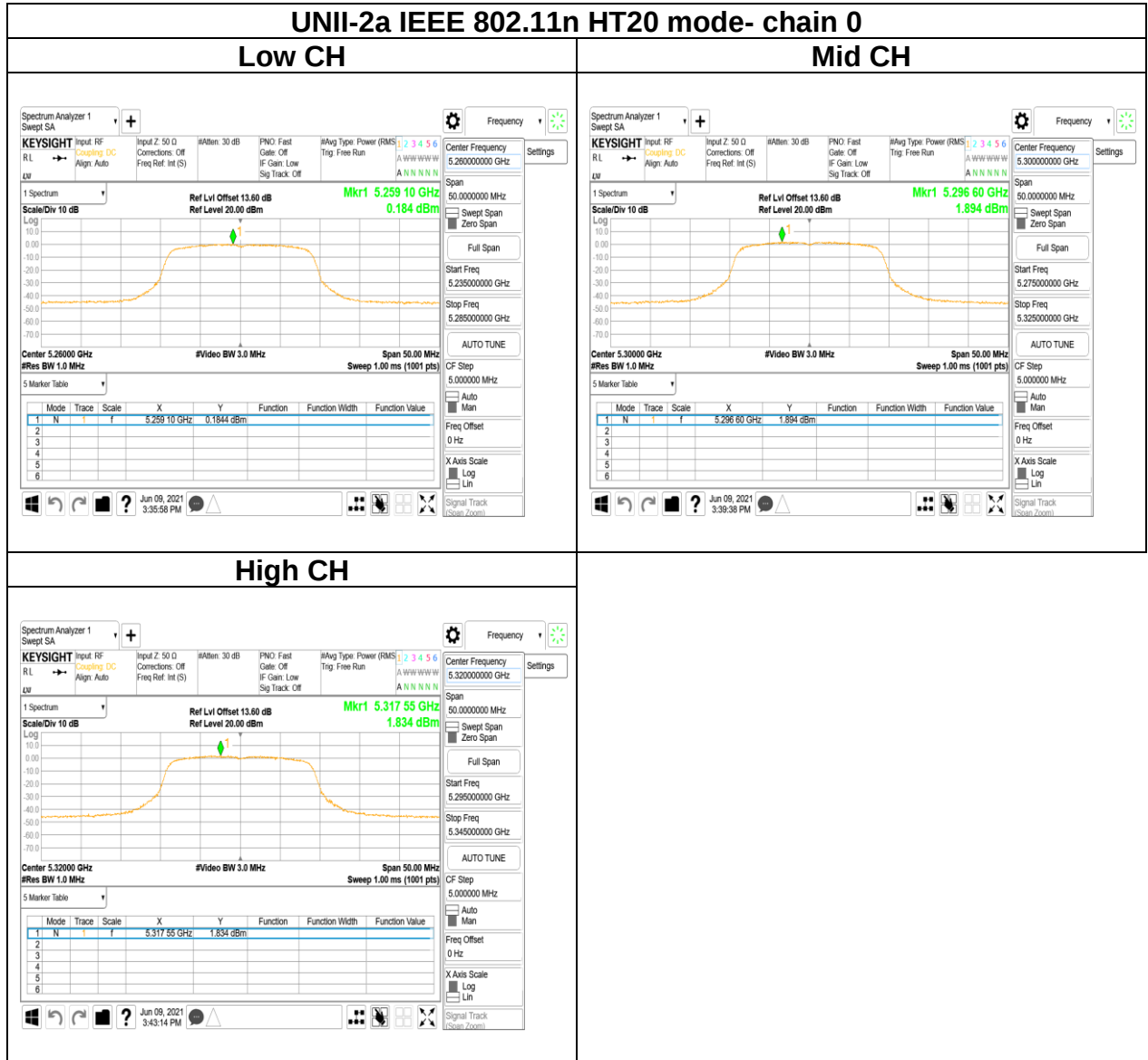


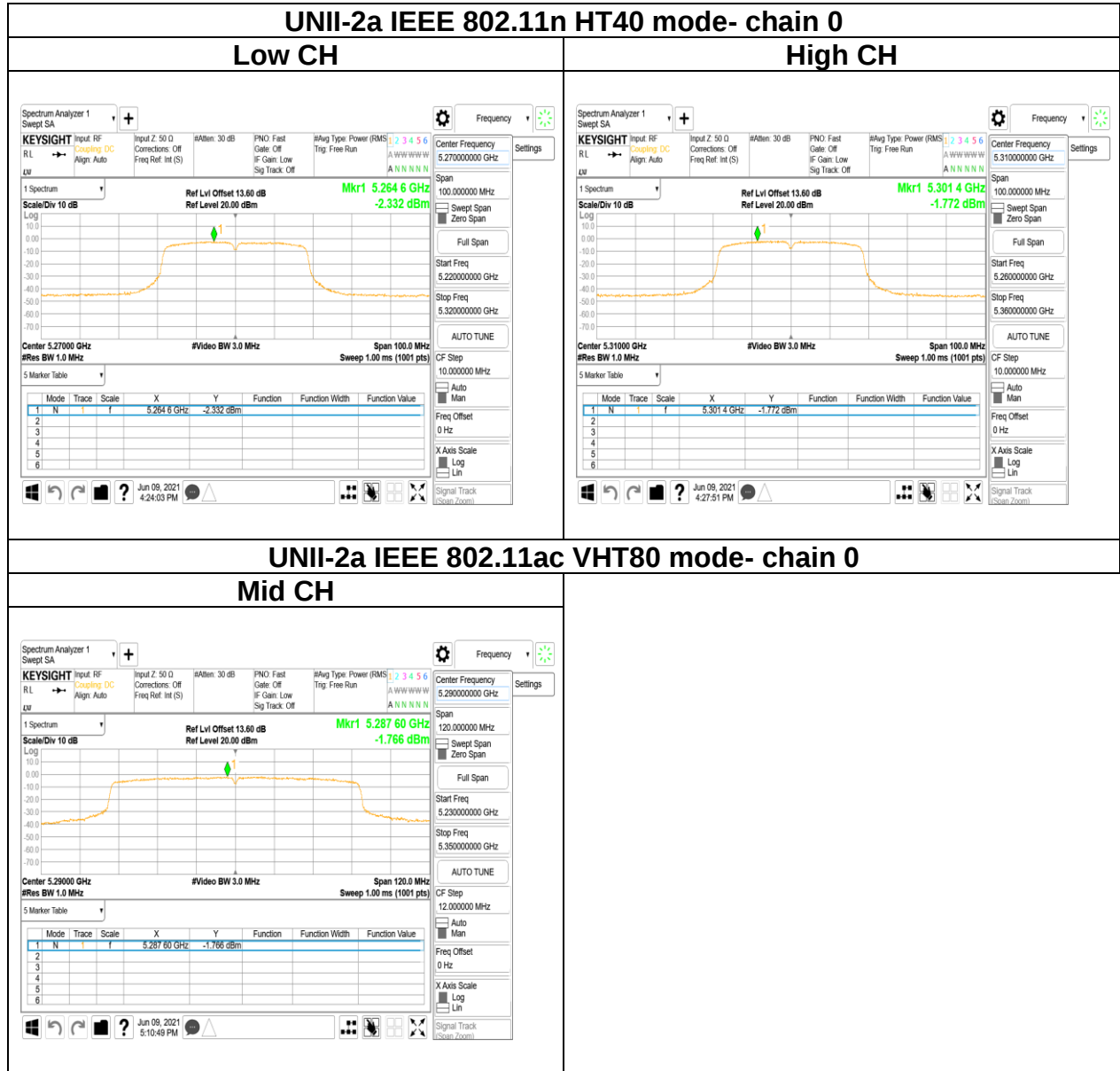


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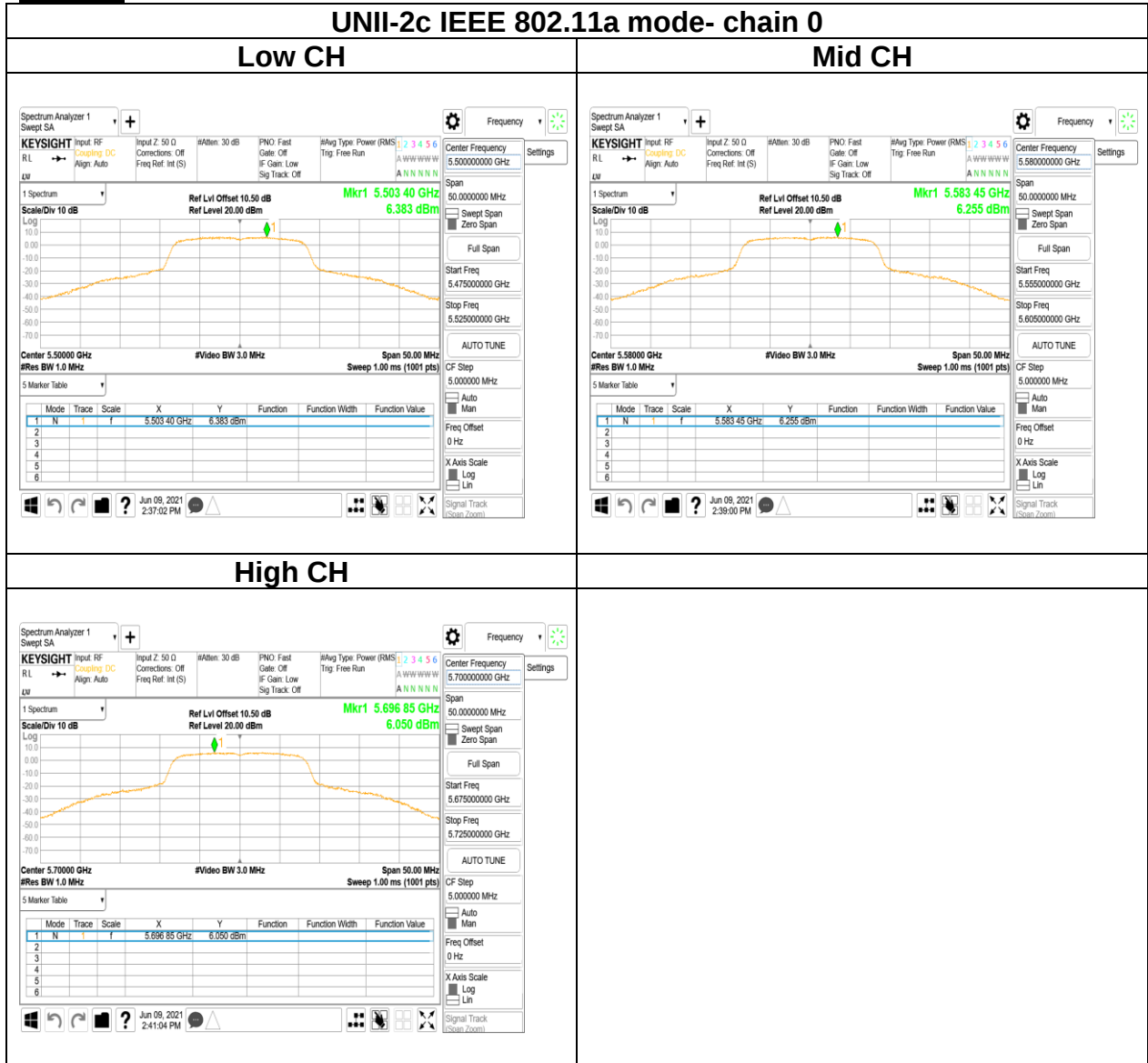


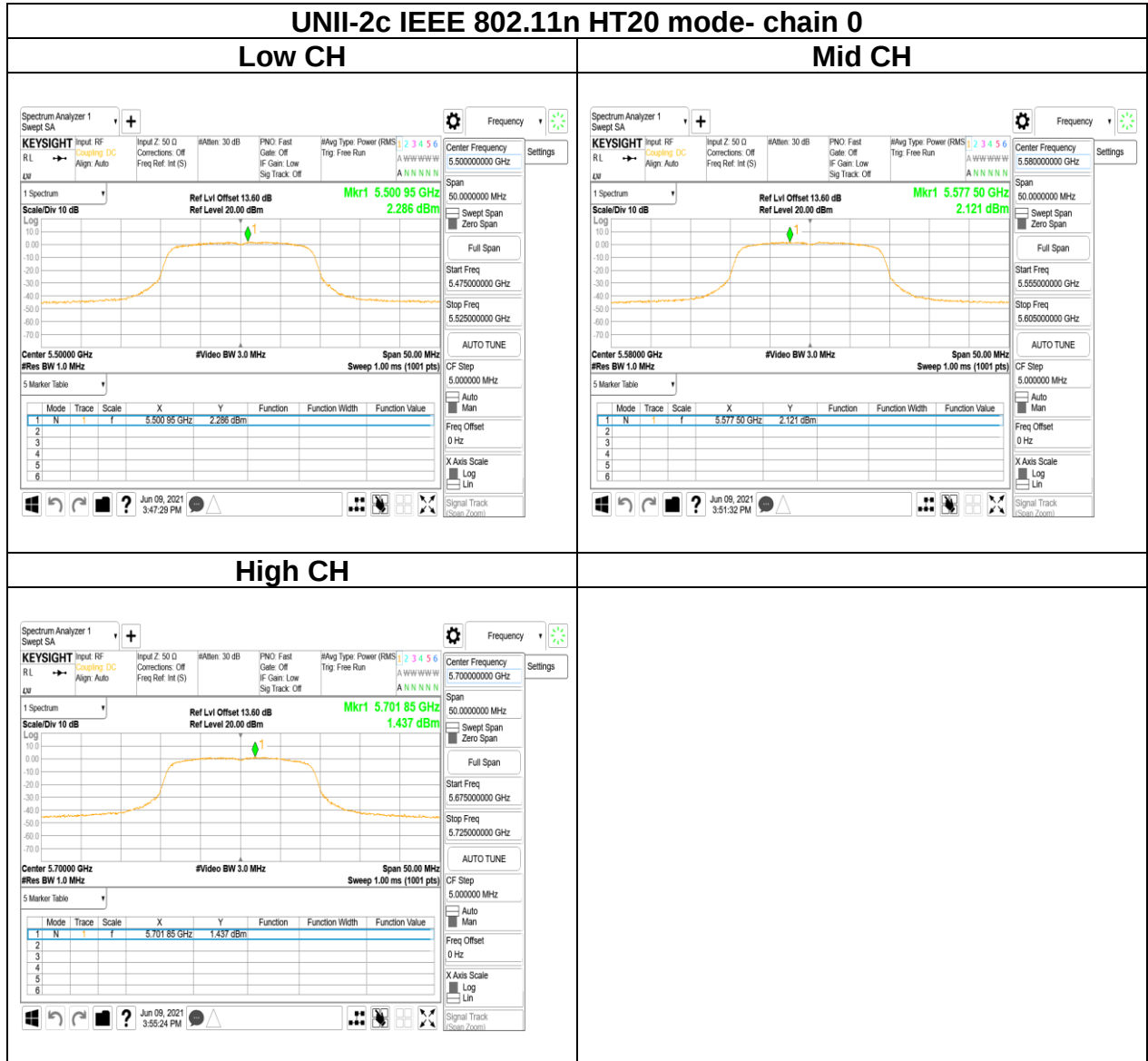


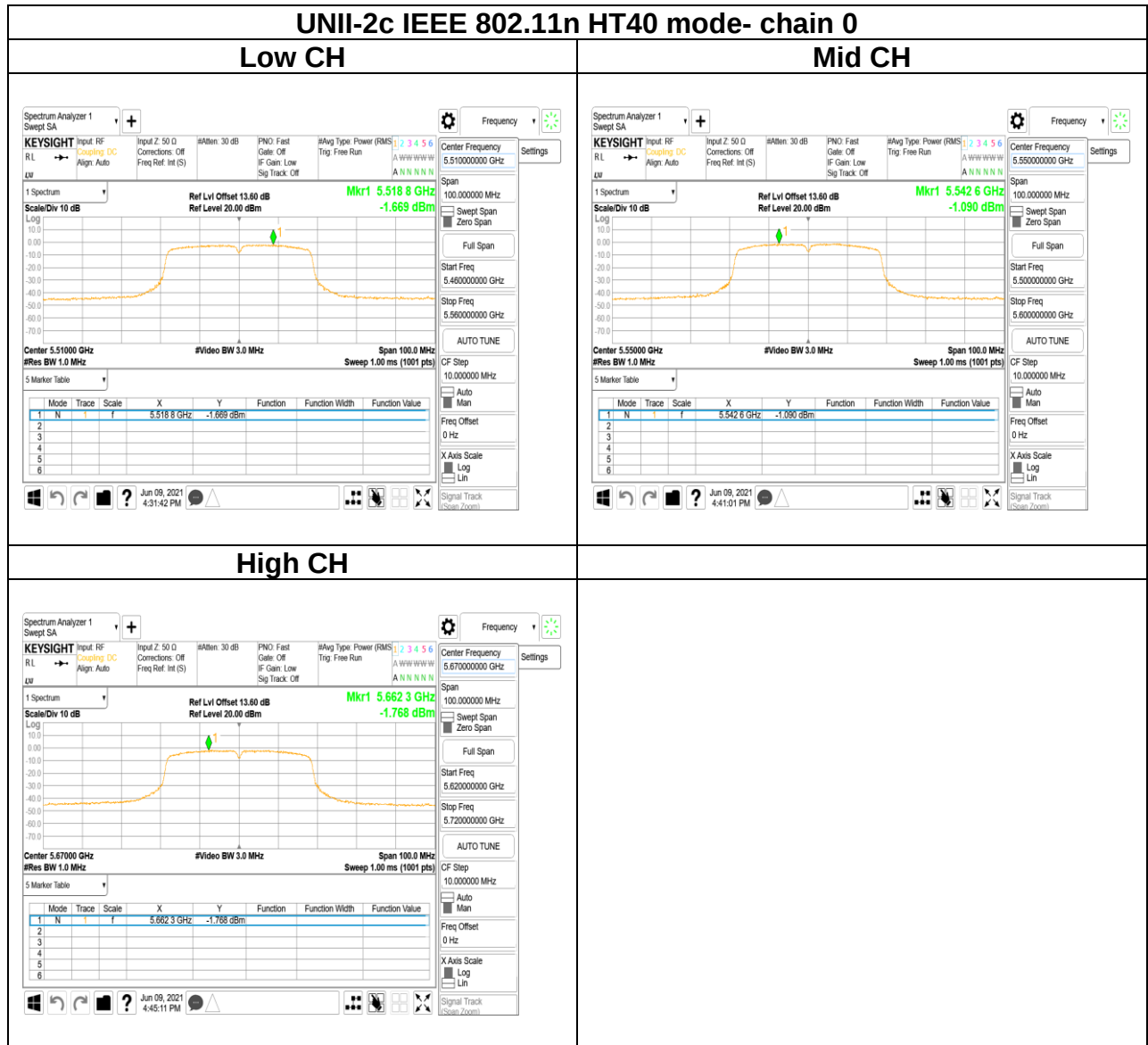


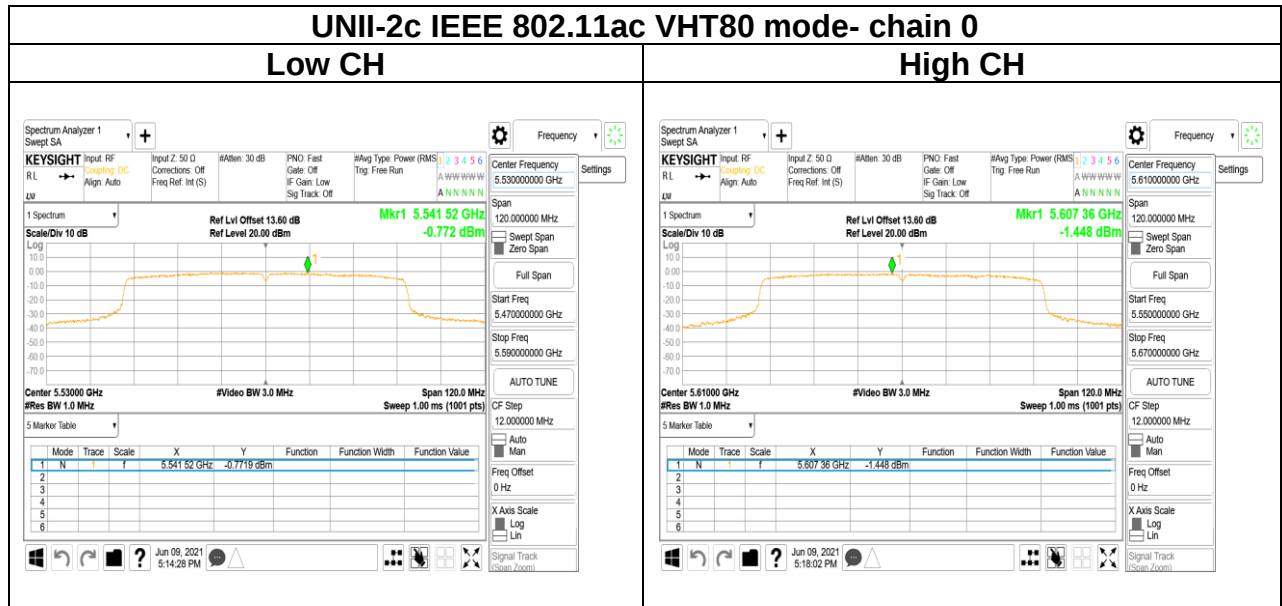
Test Data

Chain 0









Report No.: T210113D03-RP4

Test Data

Chain 0

